



11 July 2017

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

**TRANSCO PIPELINE**

2800 Post Oak Boulevard (77056)  
P.O. Box 1396  
Houston, TX 77251-1396  
713-215-2000

**Re: Emission Reduction Credits Plan Approval  
Atlantic Sunrise Project Construction  
Lancaster County, Pennsylvania  
Transcontinental Gas Pipeline Company, LLC**

Dear Mr. Weaver:

Pursuant to 25 Pa. Code §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Lancaster County, PA.

This Plan Approval Application is solely for the retirement of ERCs and does not involve the installation of air contamination sources or other equipment. Accordingly the attached General Information Form was populated for ERC retirement only.

As per 25 Pa. Code §127.43a, Transco has notified the County and Municipalities regarding this Plan Approval Application. Copies of the corresponding notifications have been included with this Plan Approval Application.

If you have any questions regarding this submittal or require additional information, please feel free to contact me at (713) 215-2202 or by email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

A handwritten signature in blue ink that reads "Jaymie Archer". The signature is written in a cursive, flowing style.

Jaymie Archer  
Sr. Environmental Scientist – Air Quality  
Enclosures





Submit in Triplicate

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

## PROCESSES

### Application for Plan Approval to Construct, Modify or Reactivate an Air Contamination Source and/or Install an Air Cleaning Device

This application must be submitted with the General Information Form (GIF).

**Before completing this form, read the instructions provided for the form.**

#### Section A - Facility Name, Checklist And Certification

Organization Name or Registered Fictitious Name/Facility Name: Transcontinental Gas Pipeline Company, LLC (Transco),  
Atlantic Sunrise Project – Natural gas interstate transmission pipeline construction, Lancaster County, PA

DEP Client ID# (if known): \_\_\_\_\_

Type of Review required and Fees:

- ☒ Source which is not subject to NSPS, NESHAPs, MACT, NSR and PSD: ..... \$1,000 \_\_\_\_\_
- ☐ Source requiring approval under NSPS or NESHAPS or both: ..... \$ \_\_\_\_\_
- ☐ Source requiring approval under NSR regulations: ..... \$ \_\_\_\_\_
- ☐ Source requiring the establishment of a MACT limitation: ..... \$ \_\_\_\_\_
- ☐ Source requiring approval under PSD: ..... \$ \_\_\_\_\_

#### Applicant's Checklist

**Check the following list to make sure that all the required documents are included.**

- ☒ **General Information Form (GIF)**
- ☒ **Processes Plan Approval Application**
- ☒ **Compliance Review Form** or provide reference of most recently submitted compliance review form for facilities submitting on a periodic basis: \_\_\_\_\_
- ☒ **Copy and Proof of County and Municipal Notifications**
- ☒ **Permit Fees**
- ☐ **Addendum A:** Source Applicable Requirements (only applicable to existing Title V facility)

#### Certification of Truth, Accuracy and Completeness by a Responsible Official

I, Al Taylor, certify under penalty of law in 18 Pa. C. S. A. §4904, and 35 P.S. §4009(b) (2) that based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate and complete.

(Signature): \_\_\_\_\_

Date: June 11, 2017 \_\_\_\_\_

Name (Print): Al Taylor \_\_\_\_\_

Title: VP Operations – Eastern Interstates \_\_\_\_\_

#### OFFICIAL USE ONLY

Application No. \_\_\_\_\_ Unit ID \_\_\_\_\_ Site ID \_\_\_\_\_

DEP Client ID #: \_\_\_\_\_ APS. ID \_\_\_\_\_ AUTH. ID \_\_\_\_\_

Date Received \_\_\_\_\_ Date Assigned \_\_\_\_\_ Reviewed By \_\_\_\_\_

Date of 1<sup>st</sup> Technical Deficiency \_\_\_\_\_ Date of 2<sup>nd</sup> Technical Deficiency \_\_\_\_\_

Comments: \_\_\_\_\_



## Section B - Processes Information

### 1. Source Information

Source Description (give type, use, raw materials, product, etc). Attach additional sheets as necessary.

This plan approval application is to apply NO<sub>x</sub> Emission Reduction Credits (ERCs) to the Atlantic Sunrise project construction activities in Lancaster County to offset emissions from construction activities and satisfy requirements specified by the Federal Energy Regulatory Commission's (FERC) General Conformity Determination for the project. The sources for which the NO<sub>x</sub> ERCs are proposed to offset are a variety of types of mobile, off-road, and non-road engines which will be used in the construction of a natural gas pipeline through a number of municipalities in Lancaster County.

For ERCs to be used to satisfy General Conformity, the source of the ERCs must be from an area that can be demonstrated to have contributed previously to an air quality exceedance in the area of the proposed project. Transco has obtained 106.0 tons of NO<sub>x</sub> ERCs previously held by Harford County Resource Recovery Facility in Maryland. The emissions estimates used to determine the quantity of ERCs required and the air quality justification for use of the Harford County, MD ERCs is detailed in the General Conformity Summary narrative and supporting documentation attached thereto, which are provided as an attachment to this plan approval application and are incorporated herein by reference.

This plan approval requests only to transfer NO<sub>x</sub> ERCs from the Harford County Resource Recovery Facility in Maryland to Lancaster County to satisfy the General Conformity requirements for the Lancaster County State Implementation Plan. Therefore, other than Sections A and G, all other sections of Form 2700-PMAQ0007 are not relevant and are listed as not applicable (NA) in the application or left blank.

Manufacturer <b>NA</b>	Model No.	Number of Sources
Source Designation	Maximum Capacity	Rated Capacity

Type of Material Processed

#### Maximum Operating Schedule

Hours/Day	Days/Week	Days/Year	Hours/Year
Operational restrictions existing or requested, if any (e.g., bottlenecks or voluntary restrictions to limit PTE)			

#### Capacity (specify units)

Per Hour	Per Day	Per Week	Per Year
----------	---------	----------	----------

#### Operating Schedule

Hours/Day	Days/Week	Days/Year	Hours/Year
Seasonal variations (Months) From _____ to _____			

If variations exist, describe them

### 2. Fuel **NA**

Type	Quantity Hourly	Annually	Sulfur	% Ash (Weight)	BTU Content
Oil Number _____	GPH @ 60°F	X 10 <sup>3</sup> Gal	% by wt		Btu/Gal. & Lbs./Gal. @ 60 °F



Oil Number _____	GPH @ 60°F	X 10 <sup>3</sup> Gal	% by wt		Btu/Gal. & Lbs./Gal. @ 60 °F
Natural Gas	SCFH	X 10 <sup>6</sup> SCF	grain/100 SCF		Btu/SCF
Gas (other) _____	SCFH	X 10 <sup>6</sup> SCF	grain/100 SCF		Btu/SCF
Coal _____	TPH	Tons	% by wt		Btu/lb
Other * _____					
_____					
_____					

\*Note: Describe and furnish information separately for other fuels in Addendum B.



### Section B - Processes Information (Continued)

#### 3. Burner NA

Manufacturer	Type and Model No.	Number of Burners
Description:		
Rated Capacity	Maximum Capacity	

#### 4. Process Storage Vessels NA

##### A. For Liquids:

Name of material stored		
Tank I.D. No.	Manufacturer	Date Installed
Maximum Pressure	Capacity (gallons/Meter <sup>3</sup> )	
Type of relief device (pressure set vent/conservation vent/emergency vent/open vent)		
Relief valve/vent set pressure (psig)	Vapor press. of liquid at storage temp. (psia/kPa)	
Type of Roof: Describe:		
Total Throughput Per Year	Number of fills per day (fill/day): Filling Rate (gal./min.): Duration of fill hr./fill):	

##### B. For Solids

Type: <input type="checkbox"/> Silo <input type="checkbox"/> Storage Bin <input type="checkbox"/> Other, Describe		Name of Material Stored
Silo/Storage Bin I.D. No.	Manufacturer	Date Installed
State whether the material will be stored in loose or bags in silos		Capacity (Tons)
Turn over per year in tons		Turn over per day in tons
Describe fugitive dust control system for loading and handling operations		
Describe material handling system		

#### 5. Request for Confidentiality

Do you request any information on this application to be treated as "Confidential"? ☐ Yes ☒ No  
 If yes, include justification for confidentiality. Place such information on separate pages marked "**confidential**".



## Section B - Processes Information (Continued)

### 6. Miscellaneous Information **NA**

Attach flow diagram of process giving all (gaseous, liquid and solid) flow rates. Also, list all raw materials charged to process equipment, and the amounts charged (tons/hour, etc.) at rated capacity (give maximum, minimum and average charges describing fully expected variations in production rates). Indicate (on diagram) all points where contaminants are controlled (location of water sprays, collection hoods, or other pickup points, etc.). Describe collection hoods location, design, airflow and capture efficiency. Describe any restriction requested and how it will be monitored.

Describe fully the facilities provided to monitor and to record process operating conditions, which may affect the emission of air contaminants. Show that they are reasonable and adequate.

Describe each proposed modification to an existing source.

Identify and describe all fugitive emission points, all relief and emergency valves and any by-pass stacks.

Describe how emissions will be minimized especially during start up, shut down, process upsets and/or disruptions.

Anticipated Milestones:

- i. Expected commencement date of construction/reconstruction/installation: \_\_\_\_\_
- ii. Expected completion date of construction/reconstruction/installation: \_\_\_\_\_
- iii. Anticipated date of start-up: \_\_\_\_\_



## Section C - Air Cleaning Device NA

### 1. Precontrol Emissions\*

Pollutant	Maximum Emission Rate				Calculation/ Estimation Method
	Specify Units	Pounds/Hour	Hours/Year	Tons/Year	
PM					
PM <sub>10</sub>					
SO <sub>x</sub>					
CO					
NO <sub>x</sub>					
VOC					
Others: (e.g., HAPs)	-----	-----	-----	-----	-----

\* These emissions must be calculated based on the requested operating schedule and/or process rate, e.g., operating schedule for maximum limits or restricted hours of operation and/or restricted throughput. Describe how the emission values were determined. Attach calculations.

### 2. Gas Cooling

Water quenching ☐ Yes ☐ No      Water injection rate \_\_\_\_\_ GPM

Radiation and convection cooling

☐ Yes ☐ No

Air dilution ☐ Yes ☐ No

If yes, \_\_\_\_\_ CFM

Forced Draft ☐ Yes ☐ No

Water cooled duct work ☐ Yes ☐ No

Other

Inlet Volume \_\_\_\_\_ ACFM

@ \_\_\_\_\_ °F \_\_\_\_\_ % Moisture

Outlet Volume \_\_\_\_\_ ACFM

@ \_\_\_\_\_ °F \_\_\_\_\_ % Moisture

Describe the system in detail.



**Section D - Additional Information NA**

Will the construction, modification, etc. of the sources covered by this application increase emissions from other sources at the facility? If so, describe and quantify.

If this project is subject to any one of the following, attach a demonstration to show compliance with applicable standards.

- |   |                              |  |
|---|------------------------------|--|
| a. Prevention of Significant Deterioration permit (PSD), 40 CFR 52?   | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| b. New Source Review (NSR), 25 Pa. Code Chapter 127, Subchapter E?  | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| c. New Source Performance Standards (NSPS), 40 CFR Part 60?<br>(If Yes, which subpart) _____                            | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| d. National Emissions Standards for Hazardous Air Pollutants (NESHAP),<br>40 CFR Part 61? (If Yes, which subpart) _____ | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
| e. Maximum Achievable Control Technology (MACT) 40 CFR Part 63?<br>(If Yes, which part) _____                           | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |

Attach a demonstration showing that the emissions from any new sources will be the minimum attainable through the use of best available technology (BAT).

Provide emission increases and decreases in allowable (or potential) and actual emissions within the last five (5) years for applicable PSD pollutant(s) if the facility is an existing major facility (PSD purposes).



## Section D - Additional Information (Continued) NA

Indicate emission increases and decreases in tons per year (tpy), for volatile organic compounds (VOCs) and nitrogen oxides (NOx) for NSR applicability since January 1, 1991 or other applicable dates (see other applicable dates in instructions). The emissions increases include all emissions including stack, fugitive, material transfer, other emission generating activities, quantifiable emissions from exempted source(s), etc.

[illegible]

If the source is subject to 25 Pa. Code Chapter 127, Subchapter E, New Source Review requirements,

- a. Identify Emission Reduction Credits (ERCs) for emission offsets or demonstrate ability to obtain suitable ERCs for emission offsets.
- b. Provide a demonstration that the lowest achievable emission rate (LAER) control techniques will be employed (if applicable).
- c. Provide an analysis of alternate sites, sizes, production processes and environmental control techniques demonstrating that the benefits of the proposed source outweigh the environmental and social costs (if applicable).

Attach calculations and any additional information necessary to thoroughly evaluate compliance with all the applicable requirements of Article III and applicable requirements of the Clean Air Act adopted thereunder. The Department may request additional information to evaluate the application such as a standby plan, a plan for air pollution emergencies, air quality modeling, etc.







## Section F - Flue and Air Contaminant Emission NA

### 1. Estimated Atmospheric Emissions\*

Pollutant	Maximum emission rate			Calculation/ Estimation Method
	specify units	lbs/hr	tons/yr.	
PM				
PM <sub>10</sub>				
SO <sub>x</sub>				
CO				
NO <sub>x</sub>				
VOC				
Others: ( e.g., HAPs)	-----	-----	-----	-----

\* These emissions must be calculated based on the requested operating schedule and/or process rate e.g., operating schedule for maximum limits or restricted hours of operation and /or restricted throughput. Describe how the emission values were determined. Attach calculations.

### 2. Stack and Exhauster

Stack Designation/Number

List Source(s) or source ID exhausted to this stack:

% of flow exhausted to stack:

Stack height above grade (ft.)  
Grade elevation (ft.)

Stack diameter (ft) or Outlet duct area (sq. ft.)

f. Weather Cap  
☐ YES ☐ NO

Distance of discharge to nearest property line (ft.). Locate on topographic map.

Does stack height meet Good Engineering Practice (GEP)?

If modeling (estimating) of ambient air quality impacts is needed, attach a site plan with buildings and their dimensions and other obstructions.

Location of stack** Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

Stack exhaust

Volume \_\_\_\_\_ ACFM

Temperature \_\_\_\_\_ °F

Moisture \_\_\_\_\_ %

Indicate on an attached sheet the location of sampling ports with respect to exhaust fan, breeching, etc. Give all necessary dimensions.

Exhauster (attach fan curves) \_\_\_\_\_ in. of water \_\_\_\_\_ HP @ \_\_\_\_\_ RPM.

\*\* If the data and collection method codes differ from those provided on the General Information Form-Authorization Application, provide the additional detail required by that form on a separate form.



## Section G – Attachments

Number and list all attachments submitted with this application below:

1. General Information Form (Form 1300-PM-BIT0001), including client information, site information, and project information.
2. Air Pollution Control Act Compliance Review Form (Form 2700-PM-AQ0007).
3. Copies and proof of Lancaster County and municipal notifications to:
  - Drumore Township
  - Martic Township
  - Conestoga Township
  - Manor Township
  - West Hempfield Township
  - Rapho Township
  - Mount Joy Borough
  - Mount Joy Township
4. Check for \$1,000 permit fee.
5. Attachment A – Atlantic Sunrise Project General Conformity Summary
6. Attachment B - FERC's General Conformity Determination.
7. Attachment C - "Air Quality Technical Report, Explanatory Information for General Conformity Evaluation, Atlantic Sunrise Project"
8. Attachment D - Copy of PADEP's letter to FERC confirming DEP's concurrence with Transco's emission estimates.
9. Attachment E - Copy of a letter dated June 29, 2017 from Karen Irons of Maryland DOE Krishnan Ramamurthy of PADEP approving the ERC transfer to the PADEP ERC Registry and additional supporting documentation of the ERC transaction.



**General Information Form (Form 1300-PM-BIT0001)**





## GENERAL INFORMATION FORM – AUTHORIZATION APPLICATION

Before completing this General Information Form (GIF), read the step-by-step instructions provided in this application package. This version of the General Information Form (GIF) must be completed and returned with any program-specific application being submitted to the Department.

Related ID#s (If Known)		DEP USE ONLY
Client ID# 82494	APS ID#	Date Received & General Notes
Site ID#	Auth ID#	
Facility ID#		

### CLIENT INFORMATION

DEP Client ID# 82494	Client Type / Code NPACO				
Organization Name or Registered Fictitious Name Transcontinental Gas Pipe Line Company, LLC		Employer ID# (EIN) 74-1079400	Dun & Bradstreet ID# 00-793-3021		
Individual Last Name N/A	First Name	MI	Suffix	SSN	
Additional Individual Last Name	First Name	MI	Suffix	SSN	
Mailing Address Line 1 PO BOX 1396		Mailing Address Line 2			
Address Last Line – City Houston	State TX	ZIP+4 77251-1396	Country US		
Client Contact Last Name Archer	First Name Jaymie	MI D	Suffix		
Client Contact Title Senior Environmental Scientist – Air Quality		Phone (713) 215-2202	Ext		
Email Address <a href="mailto:Jaymie.Archer@williams.com">Jaymie.Archer@williams.com</a>		FAX (713) 215-2239			

### SITE INFORMATION

DEP Site ID#	Site Name Transcontinental Gas Pipeline Company, LLC (Transco), Atlantic Sunrise Project – Emission Reduction Credits for natural gas interstate transmission pipeline construction, Lancaster County, PA				
EPA ID#	Estimated Number of Employees to be Present at Site				n/a
Description of Site Atlantic Sunrise Project – Natural gas interstate transmission pipeline construction, Lancaster County, PA					
County Name Lancaster	Municipality Martic Township, Conestoga Township, Manor Township, West Hempfield Township, Rapho Township, Mount Joy Borough, Mount Joy Township	City <input type="checkbox"/>	Boro <input checked="" type="checkbox"/>	Twp <input checked="" type="checkbox"/>	State PA
County Name	Municipality	City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp <input type="checkbox"/>	State
Site Location Line 1		Site Location Line 2			
Site Location Last Line – City		State PA	ZIP+4		
Detailed Written Directions to Site n/a					
Site Contact Last Name Archer	First Name Jaymie	MI	Suffix		
Site Contact Title Senior Environmental Scientist	Site Contact Firm				



<b>Mailing Address Line 1</b> PO Box 1396			<b>Mailing Address Line 2</b>		
<b>Mailing Address Last Line – City</b> Houston			<b>State</b> TX	<b>ZIP+4</b> 77056	
<b>Phone</b> (713) 215-2202	<b>Ext</b>	<b>FAX</b> (713) 215-2239	<b>Email Address</b> Jaymie.archer@williams.com		
<b>NAICS Codes</b> (Two- & Three-Digit Codes – List All That Apply) 486210			<b>6-Digit Code</b> (Optional)		
<b>Client to Site Relationship</b> OWNOP					

**FACILITY INFORMATION**

<b>Modification of Existing Facility</b>				<b>Yes</b>	<b>No</b>
1. Will this project modify an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Will this project involve an addition to an existing facility, system, or activity?				<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>If "Yes", check all relevant facility types and provide DEP facility identification numbers below.</i>					
<b>Facility Type</b>	<b>DEP Fac ID#</b>	<b>Facility Type</b>	<b>DEP Fac ID#</b>		
<input type="checkbox"/> Air Emission Plant		<input type="checkbox"/> Industrial Minerals Mining Operation			
<input type="checkbox"/> Beneficial Use (water)		<input type="checkbox"/> Laboratory Location			
<input type="checkbox"/> Blasting Operation		<input type="checkbox"/> Land Recycling Cleanup Location			
<input type="checkbox"/> Captive Hazardous Waste Operation		<input type="checkbox"/> MineDrainageTrmt/LandRecyProjLocation			
<input type="checkbox"/> Coal Ash Beneficial Use Operation		<input type="checkbox"/> Municipal Waste Operation			
<input type="checkbox"/> Coal Mining Operation		<input type="checkbox"/> Oil & Gas Encroachment Location			
<input type="checkbox"/> Coal Pillar Location		<input type="checkbox"/> Oil & Gas Location			
<input type="checkbox"/> Commercial Hazardous Waste Operation		<input type="checkbox"/> Oil & Gas Water Poll Control Facility			
<input type="checkbox"/> Dam Location		<input type="checkbox"/> Public Water Supply System			
<input type="checkbox"/> Deep Mine Safety Operation -Anthracite		<input type="checkbox"/> Radiation Facility			
<input type="checkbox"/> Deep Mine Safety Operation -Bituminous		<input type="checkbox"/> Residual Waste Operation			
<input type="checkbox"/> Deep Mine Safety Operation -Ind Minerals		<input type="checkbox"/> Storage Tank Location			
<input type="checkbox"/> Encroachment Location (water, wetland)		<input type="checkbox"/> Water Pollution Control Facility			
<input type="checkbox"/> Erosion & Sediment Control Facility		<input type="checkbox"/> Water Resource			
<input type="checkbox"/> Explosive Storage Location		<input checked="" type="checkbox"/> Other: Retirement of ERC's for general conformity demonstration			

Latitude/Longitude Point of Origin	Latitude			Longitude		
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
n/a						

<b>Horizontal Accuracy Measure</b>	Feet	--or--	Meters
<b>Horizontal Reference Datum Code</b>	<input type="checkbox"/> North American Datum of 1927 <input type="checkbox"/> North American Datum of 1983 <input type="checkbox"/> World Geodetic System of 1984		
<b>Horizontal Collection Method Code</b>			
<b>Reference Point Code</b>			
<b>Altitude</b>	Feet	--or--	Meters
<b>Altitude Datum Name</b>	<input type="checkbox"/> The National Geodetic Vertical Datum of 1929 <input type="checkbox"/> The North American Vertical Datum of 1988 (NAVD88)		
<b>Altitude (Vertical) Location Datum Collection Method Code</b>			
<b>Geometric Type Code</b>			
<b>Data Collection Date</b>			
<b>Source Map Scale Number</b>	Inch(es)	=	Feet
	--or--	=	Meters
	Centimeter(s)		

**PROJECT INFORMATION**

<b>Project Name</b> Atlantic Sunrise Project			
<b>Project Description</b> Apply ERCs to satisfy General Conformity Requirements for construction in Lancaster County, PA			
<b>Project Consultant Last Name</b> Woodruff	<b>First Name</b> Jeannie	<b>MI</b>	<b>Suffix</b>



<b>Project Consultant Title</b> Project Manager			<b>Consulting Firm</b> ERM		
<b>Mailing Address Line 1</b> 1159 Pittsford-Victor Road, Suite 200			<b>Mailing Address Line 2</b>		
<b>Address Last Line – City</b> Pittsford			<b>State</b> NY	<b>ZIP+4</b> 14534	
<b>Phone</b> 570-418-0339	<b>Ext</b>	<b>FAX</b>	<b>Email Address</b> jeannie.woodruff@erm.com		
<b>Time Schedules</b>	<b>Project Milestone (Optional)</b>				

1. Have you informed the surrounding community and addressed any concerns prior to submitting the application to the Department? ☒ Yes ☐ No

2. Is your project funded by state or federal grants? ☐ Yes ☒ No  
**Note:** If "Yes", specify what aspect of the project is related to the grant and provide the grant source, contact person and grant expiration date.  
 Aspect of Project Related to Grant \_\_\_\_\_  
 Grant Source: \_\_\_\_\_  
 Grant Contact Person: \_\_\_\_\_  
 Grant Expiration Date: \_\_\_\_\_

3. Is this application for an authorization on Appendix A of the Land Use Policy? (For referenced list, see Appendix A of the Land Use Policy attached to GIF instructions) ☐ Yes ☒ No  
**Note:** If "No" to Question 3, the application is not subject to the Land Use Policy.  
 If "Yes" to Question 3, the application is subject to this policy and the Applicant should answer the additional questions in the **Land Use Information** section.

**LAND USE INFORMATION**

**Note:** Applicants are encouraged to submit copies of local land use approvals or other evidence of compliance with local comprehensive plans and zoning ordinances.

1. Is there an adopted county or multi-county comprehensive plan? ☐ Yes ☒ No

2. Is there an adopted municipal or multi-municipal comprehensive plan? ☐ Yes ☒ No

3. Is there an adopted county-wide zoning ordinance, municipal zoning ordinance or joint municipal zoning ordinance? ☐ Yes ☒ No  
**Note:** If the Applicant answers "No" to either Questions 1, 2 or 3, the provisions of the PA MPC are not applicable and the Applicant does not need to respond to questions 4 and 5 below.  
 If the Applicant answers "Yes" to questions 1, 2 and 3, the Applicant should respond to questions 4 and 5 below.

4. Does the proposed project meet the provisions of the zoning ordinance or does the proposed project have zoning approval? If zoning approval has been received, attach documentation. ☐ Yes ☒ No

5. Have you attached Municipal and County Land Use Letters for the project? ☐ Yes ☒ No



## COORDINATION INFORMATION

**Note:** The PA Historical and Museum Commission must be notified of proposed projects in accordance with DEP Technical Guidance Document 012-0700-001 and the accompanying Cultural Resource Notice Form.

**If the activity will be a mining project** (i.e., mining of coal or industrial minerals, coal refuse disposal and/or the operation of a coal or industrial minerals preparation/processing facility), respond to questions 1.0 through 2.5 below.

**If the activity will not be a mining project**, skip questions 1.0 through 2.5 and begin with question 3.0.

<b>1.0</b>	<b>Is this a coal mining project?</b> If "Yes", respond to 1.1-1.6. If "No", skip to Question 2.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
<b>1.1</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be equal to or greater than 200 tons/day?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.2</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which the total amount of coal prepared/processed will be greater than 50,000 tons/year?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.3</b>	<b>Will this coal mining project involve coal preparation/ processing activities in which thermal coal dryers or pneumatic coal cleaners will be used?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.4</b>	<b>For this coal mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.5</b>	<b>Will this coal mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>1.6</b>	<b>Will this coal mining project involve underground coal mining to be conducted within 500 feet of an oil or gas well?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.0</b>	<b>Is this a non-coal (industrial minerals) mining project?</b> If "Yes", respond to 2.1-2.6. If "No", skip to Question 3.0.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.1</b>	<b>Will this non-coal (industrial minerals) mining project involve the crushing and screening of non-coal minerals other than sand and gravel?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.2</b>	<b>Will this non-coal (industrial minerals) mining project involve the crushing and/or screening of sand and gravel with the exception of wet sand and gravel operations (screening only) and dry sand and gravel operations with a capacity of less than 150 tons/hour of unconsolidated materials?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.3</b>	<b>Will this non-coal (industrial minerals) mining project involve the construction, operation and/or modification of a portable non-metallic (i.e., non-coal) minerals processing plant under the authority of the General Permit for Portable Non-metallic Mineral Processing Plants (i.e., BAQ-PGPA/GP-3)?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.4</b>	<b>For this non-coal (industrial minerals) mining project, will sewage treatment facilities be constructed and treated waste water discharged to surface waters?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
<b>2.5</b>	<b>Will this non-coal (industrial minerals) mining project involve the construction of a permanent impoundment meeting one or more of the following criteria: (1) a contributory drainage area exceeding 100 acres; (2) a depth of water measured by the upstream toe of the dam at maximum storage elevation exceeding 15 feet; (3) an impounding capacity at maximum storage elevation exceeding 50 acre-feet?</b>	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No



3.0	Will your project, activity, or authorization have anything to do with a well related to oil or gas production, have construction within 200 feet of, affect an oil or gas well, involve the waste from such a well, or string power lines above an oil or gas well? If "Yes", respond to 3.1-3.3. If "No", skip to Question 4.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
3.1	Does the oil- or gas-related project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water (including wetlands)?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.2	Will the oil- or gas-related project involve discharge of industrial wastewater or stormwater to a dry swale, surface water, ground water or an existing sanitary sewer system or storm water system? If "Yes", discuss in <i>Project Description</i> .	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
3.3	Will the oil- or gas-related project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0	Will the project involve a construction activity that results in earth disturbance? If "Yes", specify the total disturbed acreage.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
4.0.1	Total Disturbed Acreage <i>Reference general conformity determination</i>				
5.0	Does the project involve any of the following? If "Yes", respond to 5.1-5.3. If "No", skip to Question 6.0.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
5.1	Water Obstruction and Encroachment Projects – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a watercourse, floodway or body of water?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.2	Wetland Impacts – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a wetland?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
5.3	Floodplain Projects by the commonwealth, a Political Subdivision of the commonwealth or a Public Utility – Does the project involve any of the following: placement of fill, excavation within or placement of a structure, located in, along, across or projecting into a floodplain?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
6.0	Will the project involve discharge of stormwater or wastewater from an industrial activity to a dry swale, surface water, ground water or an existing sanitary sewer system or separate storm water system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
7.0	Will the project involve the construction and operation of industrial waste treatment facilities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0	Will the project involve construction of sewage treatment facilities, sanitary sewers, or sewage pumping stations? If "Yes", indicate estimated proposed flow (gal/day). Also, discuss the sanitary sewer pipe sizes and the number of pumping stations/treatment facilities/name of downstream sewage facilities in the <i>Project Description</i> , where applicable.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
8.0.1	Estimated Proposed Flow (gal/day)				
9.0	Will the project involve the subdivision of land, or the generation of 800 gpd or more of sewage on an existing parcel of land or the generation of an additional 400 gpd of sewage on an already-developed parcel, or the generation of 800 gpd or more of industrial wastewater that would be discharged to an existing sanitary sewer system?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
9.0.1	Was Act 537 sewage facilities planning submitted and approved by DEP? If "Yes" attach the approval letter. Approval required prior to 105/NPDES approval.	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
10.0	Is this project for the beneficial use of biosolids for land application within Pennsylvania? If "Yes" indicate how much (i.e. gallons or dry tons per year).	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
10.0.1	Gallons Per Year (residential septage)				
10.0.2	Dry Tons Per Year (biosolids)				
11.0	Does the project involve construction, modification or removal of a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
11.0.1	Dam Name				



12.0	Will the project interfere with the flow from, or otherwise impact, a dam? If "Yes", identify the dam.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
12.0.1	Dam Name				
13.0	Will the project involve operations (excluding during the construction period) that produce air emissions (i.e., NOX, VOC, etc.)? If "Yes", identify each type of emission followed by the amount of that emission.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
13.0.1	Enter all types & amounts of emissions; separate each set with semicolons.				
14.0	Does the project include the construction or modification of a drinking water supply to serve 15 or more connections or 25 or more people, at least 60 days out of the year? If "Yes", check all proposed sub-facilities.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
14.0.1	Number of Persons Served				
14.0.2	Number of Employee/Guests				
14.0.3	Number of Connections				
14.0.4	Sub-Fac: Distribution System	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.5	Sub-Fac: Water Treatment Plant	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.6	Sub-Fac: Source	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.7	Sub-Fac: Pump Station	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.8	Sub Fac: Transmission Main	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
14.0.9	Sub-Fac: Storage Facility	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
15.0	Will your project include infiltration of storm water or waste water to ground water within one-half mile of a public water supply well, spring or infiltration gallery?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0	Is your project to be served by an existing public water supply? If "Yes", indicate name of supplier and attach letter from supplier stating that it will serve the project.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
16.0.1	Supplier's Name				
16.0.2	Letter of Approval from Supplier is Attached	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No
17.0	Will this project involve a new or increased drinking water withdrawal from a stream or other water body? If "Yes", should reference both Water Supply and Watershed Management.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
17.0.1	Stream Name				
18.0	Will the construction or operation of this project involve treatment, storage, reuse, or disposal of waste? If "Yes", indicate what type (i.e., hazardous, municipal (including infectious & chemotherapeutic), residual) and the amount to be treated, stored, re-used or disposed.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
18.0.1	Type & Amount				
19.0	Will your project involve the removal of coal, minerals, etc. as part of any earth disturbance activities?	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0	Does your project involve installation of a field constructed underground storage tank? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
20.0.1	Enter all substances & capacity of each; separate each set with semicolons.				
21.0	Does your project involve installation of an aboveground storage tank greater than 21,000 gallons capacity at an existing facility? If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit.	<input type="checkbox"/>	Yes	<input checked="" type="checkbox"/>	No
21.0.1	Enter all substances & capacity of each; separate each set with semicolons.				



22.0	<b>Does your project involve installation of a tank greater than 1,100 gallons which will contain a highly hazardous substance as defined in DEP's Regulated Substances List, 2570-BK-DEP2724?</b> If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit. <b>22.0.1</b> Enter all substances & capacity of each; separate each set with semicolons.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
23.0	<b>Does your project involve installation of a storage tank at a new facility with a total AST capacity greater than 21,000 gallons?</b> If "Yes", list each Substance & its Capacity. <b>Note:</b> Applicant may need a Storage Tank Site Specific Installation Permit. <b>23.0.1</b> Enter all substances & capacity of each; separate each set with semicolons.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
24.0	<b>Will the intended activity involve the use of a radiation source?</b>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

### CERTIFICATION

I certify that I have the authority to submit this application on behalf of the applicant named herein and that the information provided in this application is true and correct to the best of my knowledge and information.

Type or Print Name AI Taylor

VP Operations – Eastern Interstates

07-11-2017

Signature

Title

Date



**Air Pollution Control Act Compliance Review Form (Form 2700-PM-AQ0007)**





COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF AIR QUALITY

## AIR POLLUTION CONTROL ACT COMPLIANCE REVIEW FORM

Fully and accurately provide the following information, as specified. Attach additional sheets as necessary.

**Type of Compliance Review Form Submittal (check all that apply)**

- ☒ Original Filing  
☐ Amended Filing

Date of Last Compliance Review Form Filing:

\_\_\_\_/\_\_\_\_/\_\_\_\_

**Type of Submittal**

- |   |   |  |
|---|---|--|
| <input checked="" type="checkbox"/> New Plan Approval | <input type="checkbox"/> New Operating Permit | <input type="checkbox"/> Renewal of Operating Permit   |
| <input type="checkbox"/> Extension of Plan Approval   | <input type="checkbox"/> Change of Ownership  | <input type="checkbox"/> Periodic Submission (@ 6 mos) |
| <input type="checkbox"/> Other: _____                 |   |  |

### SECTION A. GENERAL APPLICATION INFORMATION

**Name of Applicant/Permittee/("applicant")**  
**(non-corporations-attach documentation of legal name)**

Transcontinental Gas Pipe Line Corporation, LLC

**Address** P.O. Box 1396

Houston, TX 77251-1396

**Telephone** 713-215-2000

**Taxpayer ID#** 74-1079400

**Permit, Plan Approval or Application ID#** n/a

**Identify the form of management under which the applicant conducts its business (check appropriate box)**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Individual          | <input type="checkbox"/> Syndicate                      | <input type="checkbox"/> Government Agency                      |
| <input type="checkbox"/> Municipality        | <input type="checkbox"/> Municipal Authority            | <input type="checkbox"/> Joint Venture                          |
| <input type="checkbox"/> Proprietorship      | <input type="checkbox"/> Fictitious Name                | <input type="checkbox"/> Association                            |
| <input type="checkbox"/> Public Corporation  | <input type="checkbox"/> Partnership                    | <input type="checkbox"/> Other Type of Business, specify below: |
| <input type="checkbox"/> Private Corporation | <input checked="" type="checkbox"/> Limited Partnership |   |

**Describe below the type(s) of business activities performed.**

Natural gas transmission pipeline via compression



**SECTION B. GENERAL INFORMATION REGARDING "APPLICANT"**

If applicant is a corporation or a division or other unit of a corporation, provide the names, principal places of business, state of incorporation, and taxpayer ID numbers of all domestic and foreign parent corporations (including the ultimate parent corporation), and all domestic and foreign subsidiary corporations of the ultimate parent corporation with operations in Pennsylvania. Please include all corporate divisions or units, (whether incorporated or unincorporated) and privately held corporations. (A diagram of corporate relationships may be provided to illustrate corporate relationships.) Attach additional sheets as necessary.

Unit Name	Principal Places of Business	State of Incorporation	Taxpayer ID	Relationship to Applicant
See Table 1	See Table 1	See Table 1	See Table 1	See Table 1

**SECTION C. SPECIFIC INFORMATION REGARDING APPLICANT AND ITS "RELATED PARTIES"**

**Pennsylvania Facilities.** List the name and location (mailing address, municipality, county), telephone number, and relationship to applicant (parent, subsidiary or general partner) of applicant and all Related Parties' places of business, and facilities in Pennsylvania. Attach additional sheets as necessary.

Unit Name	Street Address	County and Municipality	Telephone No.	Relationship to Applicant
See Table 2	See Table 2	See Table 2	See Table 2	See Table 2

Provide the names and business addresses of all general partners of the applicant and parent and subsidiary corporations, if any.

Name	Business Address



**List the names and business address of persons with overall management responsibility for the process being permitted (i.e. plant manager).**

<b>Name</b>	<b>Business Address</b>
Al Taylor VP Operations - Eastern Interstates	Transcontinental Gas Pipe Line Company, LLC PO Box 1396 Houston, TX 77251-1396

**Plan Approvals or Operating Permits.** List all plan approvals or operating permits issued by the Department or an approved local air pollution control agency under the APCA to the applicant or related parties that are currently in effect or have been in effect at any time 5 years prior to the date on which this form is notarized. This list shall include the plan approval and operating permit numbers, locations, issuance and expiration dates. Attach additional sheets as necessary.

<b>Air Contamination Source</b>	<b>Plan Approval/ Operating Permit#</b>	<b>Location</b>	<b>Issuance Date</b>	<b>Expiration Date</b>
See Table 3	See Table 3	See Table 3	See Table 3	See Table 3



**Compliance Background.** (Note: Copies of specific documents, if applicable, must be made available to the Department upon its request.) List all documented conduct of violations or enforcement actions identified by the Department pursuant to the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. Attach additional sheets as necessary. See the definition of "documented conduct" for further clarification. Unless specifically directed by the Department, deviations which have been previously reported to the Department in writing, relating to monitoring and reporting, need not be reported.

Date	Location	Plan Approval/ Operating Permit#	Nature of Documented Conduct	Type of Department Action	Status: Litigation Existing/Continuing or Corrected/Date	Dollar Amount Penalty
See Table 4	See Table 4	See Table 4	See Table 4	See Table 4	See Table 4	\$See Table 4
						\$
						\$
						\$
						\$
						\$
						\$
						\$
						\$
						\$

List all incidents of deviations of the APCA, regulations, terms and conditions of an operating permit or plan approval or order by applicant or any related party, using the following format grouped by source and location in reverse chronological order. This list must include items both currently known and unknown to the Department. Attach additional sheets as necessary. See the definition of "deviations" for further clarification.

Date	Location	Plan Approval/ Operating Permit#	Nature of Deviation	Incident Status: Litigation Existing/Continuing Or Corrected/Date
See Table 5	See Table 5	See Table 5	See Table 5	See Table 5

**CONTINUING OBLIGATION.** Applicant is under a continuing obligation to update this form using the Compliance Review Supplemental Form if any additional deviations occur between the date of submission and Department action on the application.



VERIFICATION STATEMENT	
<p>Subject to the penalties of Title 18 Pa.C.S. Section 4904 and 35 P.S. Section 4009(b)(2), I verify under penalty of law that I am authorized to make this verification on behalf of the Applicant/Permittee. I further verify that the information contained in this Compliance Review Form is true and complete to the best of my belief formed after reasonable inquiry. I further verify that reasonable procedures are in place to ensure that “documented conduct” and “deviations” as defined in 25 Pa Code Section 121.1 are identified and included in the information set forth in this Compliance Review Form.</p>	
Signature	Date
AI Taylor	
Name (Print or Type)	
VP Operations, Eastern Interstates	
Title	



**Table 1 - General Information Regarding Applicant \***

Unit	Principal Places of Business (Headquarters)	State of Incorporation	Taxpayer ID	Relationship to Applicant
Transcontinental Gas Pipe Line Company, LLC	Houston, TX	Delaware (L.L.C.)	74-1079400	Applicant
The Williams Companies, Inc.	Tulsa, OK	Delaware (Corporation)	73-0569878	Indirect percentage owner of Applicants indirect Parent Williams Partners L.P.
Williams Partners L.P.	Tulsa, OK	Delaware (Partnership)	20-2485124	Indirect Parent
Williams WPC - I, LLC	Tulsa, OK	Delaware (L.L.C.)	73-1547570	A wholly-owned subsidiary of The Williams Companies, Inc.
Laurel Mountain Midstream Operating LLC	Tulsa, OK	Delaware (L.L.C.)	27-1965151	A wholly-owned subsidiary of an indirect percentage owned indirect subsidiary of Williams Partners L.P.
Appalachia Midstream Services, L.L.C.	Oklahoma City, OK	Oklahoma (L.L.C.)	26-3678972	An indirect wholly-owned subsidiary of Williams Partners L.P.
Utica Gas Services, L.L.C.	Oklahoma City, OK	Oklahoma (L.L.C.)	61-1665331	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Pipeline Services LLC	Tulsa, OK	Delaware (L.L.C.)	73-1482302	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Field Services Company, LLC	Tulsa, OK	Delaware (L.L.C.)	73-1591878	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Energy Resources LLC	Tulsa, OK	Delaware (L.L.C.)	04-3678352	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Ohio Valley Midstream LLC	Tulsa, OK	Texas (L.L.C.)	27-0856707	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Ohio Valley Pipeline LLC	Tulsa, OK	Delaware (L.L.C.)	73-1426359	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams MLP Operating, LLC	Tulsa, OK	Delaware (L.L.C.)	27-0870752	A wholly-owned subsidiary of Williams Partners L.P.
Williams Compression LLC	Oklahoma City, OK	Oklahoma (L.L.C.)	36-4778590	An indirect wholly-owned subsidiary of Williams Partners L.P.
Williams Laurel Mountain, LLC	Tulsa, OK	Delaware (L.L.C.)	26-4577986	An indirect wholly-owned subsidiary of Williams Partners L.P.
Constitution Pipeline Company, LLC	Tulsa, OK	Delaware (L.L.C.)	30-0720382	An indirect-percentage-owned subsidiary of Williams Partners L.P.

\* Entities Qualified or with Pennsylvania Operations



**Table 2 - Pennsylvania Facilities**

Unit	Street Address	County and Municipality	Telephone No.	Relationship to Applicant
Transco Station 195	2204 Bryansville Rd Delta, PA 17314	Peach Bottom Township York County	(717) 456-5315	Transco
Transco Station 200	60 Bacton Hill Road Frazer, PA 19355	East Whiteland Township Chester County	(610) 644-7373	Transco
Transco Station 515	Hwy. 115 Bear Creek, PA 18602	Bear Creek Township Luzerne County	(570) 472-3242	Transco
Transco Station 517	102 Pole Bridge Road Benton, PA 17814	Jackson Township Columbia County	(570) 925-5919	Transco
Transco Station 520	Hwy. 284 Salladasburg, PA 17740	Mifflin Township Lycoming County	(570) 398-2261	Transco
Transco Station 535	Trout Run Road Austin, PA 16720	Wharton Township Potter County	(814) 647-8800	Transco



**Table 3 - Plan Approval/Operating Permits**

Air Contamination Source	Plan Approval/ Operating Permit #	Location	Issuance Date	Expiration Date
Compressor Station	TVOP 67-05012	Station 195 Peach Bottom Township	9/11/13	9/30/18
Compressor Station	TVOP 15-00017	Station 200 East Whiteland Township	5/8/15	5/8/20
Compressor Station	TVOP 15-00017 Amendment	Station 200 East Whiteland Township	12/1/15 <sup>1</sup>	5/8/20
Compressor Station	TVOP 40-00002	Station 515 Buck Township	8/28/15	9/1/20
Compressor Station	PA 40-00002A	Station 515 Buck Township	10/8/14	12/16/17 <sup>1</sup>
Compressor Station	TVOP 19-00007	Station 517 Jackson Township	6/26/15	6/25/20
Compressor Station	PA 19-00007A	Station 517 Jackson Township	9/5/14	11/20/17 <sup>2</sup>
Compressor Station	PA 19-00007B	Station 517 Jackson Township	2/1/2017	8/1/2018
Compressor Station	TVOP 41-00001	Station 520 Mifflin Township	5/14/15	5/14/20
Compressor Station	PA 41-00001A	Station 520 Mifflin Township	9/5/14	11/20/17 <sup>3</sup>
Compressor Station	PA 41-00001B	Station 520 Mifflin Township	6/1/2017	12/1/2018
Compressor Station	PA 41-00001C	Station 520 Mifflin Township	6/13/2017	12/13/2018
Compressor Station	TVOP 53-00002	Station 535 Wharton Township	6/9/15	6/9/20

- 1) Plan Approval extension granted by DEP on May 8, 2017.
- 2) Plan Approval extension granted by DEP on May 23, 2017.
- 3) Plan Approval extension granted by DEP on May 23, 2017.



**Table 4 - Documented Conduct of Violations or Enforcement Actions**

Date	Location	Plan Approval/ Operating Permit Number	Nature of Documented Conduct	Type of Department Action	Status Litigation; Existing/Continuing; or Corrected/Date	Dollar Amount Penalty
Oct 15	Station 200	TVOP 15-000017	Rags and paint brushes were observed in a parts washer	Notice of Violation	Settled Nov 2015	0
Jan 16	Station 517	PA 19-00007A	Operation of equipment in a manner inconsistent with good operating practices (operation of turbine without oxidation catalyst)	Notice of Violation	Settled Jan 2016	0



**Table 5 - Documented Deviations**

<b>Date</b>	<b>Location</b>	<b>Plan Approval/ Operating Permit#</b>	<b>Nature of Deviation</b>	<b>Incident Status: Litigation Existing/Continuing Or Corrected/Date</b>
			All deviations to date have been formally documented by the Department.	

**Comments**



## **Municipal Notifications and FedEx Slips**





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Kolin McCauley  
Chairman, Drumore Township Board of Supervisors  
1675 Furniss Road  
Drumore, PA 17518

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. McCauley:

Pursuant to 25 Pa. Code §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Drumore Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 Pa. Code §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Duane A. Sellers  
Chairman, Martic Township Board of Supervisors  
370 Steinman Farm Road  
Pequea, PA 17565

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Sellers:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Martic Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

A handwritten signature in blue ink that reads "Jaymie Archer". The signature is fluid and cursive, with the first name "Jaymie" and last name "Archer" clearly distinguishable.

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





Gas Pipelines – Transco  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Craig C. Eshleman  
Chairman, Conestoga Township Board of Supervisors  
3959 Main Street  
Conestoga, PA 17516

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Eshleman:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Conestoga Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Brandon Clark  
Chairman, Manor Township Board of Supervisors  
950 West Fairway Drive  
Lancaster, PA 17603

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Clark:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Manor Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. David M. Dumeyer  
Chairman, West Hempfield Township Board of Supervisors  
3401 Marietta Avenue  
Lancaster, PA 17601

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Dumeyer:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in West Hempfield Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Lowell B. Fry  
Chairman, Rapho Township Board of Supervisors  
971 N. Colebrook Road  
Manheim, PA 17545

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Fry:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Rapho Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Charles E. Glessner  
President, Mount Joy Borough Council  
21 East Main Street  
Mount Joy, PA 17552

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Glessner:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Mount Joy Borough, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. Gerald F. Becker  
Chairman, Mount Joy Township Board of Supervisors  
159 Merts Drive  
Elizabethtown, PA 17022

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project  
Transcontinental Gas Pipeline Company, LLC

Dear Mr. Becker:

Pursuant to 25 *Pa. Code* §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in Mount Joy Township, Lancaster County, PA.

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 *Pa. Code* §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver  
Regional Air Quality Program Manager  
Department of Environmental Protection  
South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

Jaymie Archer  
Sr. Environmental Scientist – Air Quality





**Gas Pipelines – Transco**  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

July 11, 2017

Mr. William Peters  
Chief Clerk, Lancaster County  
150 N Queen Street  
Lancaster, PA 17603

Re: Plan Approval Application for Emission Reduction Credits  
Atlantic Sunrise Project - Transcontinental Gas Pipeline Company, LLC

Dear Mr. Peters:

Pursuant to 25 Pa. Code §127.43a, Transcontinental Gas Pipeline Company, LLC (Transco) is notifying of its intent to submit a Plan Approval application to the Pennsylvania Department of Environmental Protection (PADEP) for proposed transfer of emission reduction credits (ERCs) to satisfy General Conformity requirements for the construction of the Atlantic Sunrise pipeline in the following municipalities in Lancaster County, PA:

- Drumore Township
- Martic Township
- Conestoga Township
- Manor Township
- West Hempfield Township
- Rapho Township
- Mount Joy Borough
- Mount Joy Township

This Plan Approval application is solely for the transfer of ERCs for project construction and does not involve the installation of air contamination sources or other equipment.

As per 25 Pa. Code §127.43a, Transco is required to notify the County and Municipalities of any Plan Approval Applications submitted to the PADEP. A 30-day comment period begins upon your receipt of this notification.

If you have any comments or concerns regarding this Plan Approval Application, please contact:

Mr. William Weaver, Regional Air Quality Program Manager  
Department of Environmental Protection - South-Central Regional Office  
909 Elmerton Ave.  
Harrisburg, PA 17110

If you have any questions, please contact me at (713) 215-2202 or email at [Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com).

Sincerely,

A handwritten signature in blue ink that reads "Jaymie Archer". The signature is written in a cursive, flowing style.

Jaymie Archer  
Sr. Environmental Scientist – Air Quality



**ATTACHMENT A.**

**ATLANTIC SUNRISE GENERAL CONFORMITY SUMMARY**



## **Attachment A. Atlantic Sunrise Project General Conformity Summary**

**July 10, 2017**

The Atlantic Sunrise Project is an expansion of the existing Transcontinental Gas Pipeline Company, LLC's (Transco) interstate natural gas transmission pipeline system that will enable Transco to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania to its existing market areas, extending as far south as the Station 85 Pooling Point<sup>1</sup> in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline system to reverse the direction of flow, enabling new north-to-south capabilities (multi- and/or bi-directional flow) to transport product from this new source of natural gas to existing markets.

The temporary construction emissions estimates from the Transco Atlantic Sunrise Project (Project) indicate that the Project triggers the General Conformity Rule for NO<sub>x</sub> which is a precursor pollutant for both ozone and PM<sub>2.5</sub>. for calendar year 2017 in Lancaster County, Pennsylvania. Lancaster County is currently designated as a nonattainment area for the 2008 ozone standard and a maintenance area for the 2006 24-hour PM<sub>2.5</sub> standard.

To demonstrate conformity with the SIP in Lancaster County, Transco developed an air mitigation plan that includes strategies to completely offset the proposed project NO<sub>x</sub> emissions for the year (2017) that are predicted to exceed the applicable General Conformity thresholds. The air mitigation plan identifies reduction measures to generate emissions offsets that are contemporaneous with applicable project emissions. Transco will be required to offset 105.4 tons of NO<sub>x</sub> for construction activities in Lancaster County during 2017 at a 1:1 ratio, which will satisfy the criteria for determining conformity of general federal actions outlined in 40 CFR 93.158(a)(2). FERC's General Conformity Determination is provided as Attachment B.

Project construction emissions estimates were presented to the Pennsylvania Department of Environmental Protection (PADEP) for their review, comment and concurrence prior to FERC issuing the final determination. Attachment C, "Air Quality Technical Report, Explanatory Information for General Conformity Evaluation, Atlantic Sunrise Project" contains air emissions estimates for the Project activities in Lancaster County. PADEP concurred with the findings of the technical report in its December 29, 2016 letter to the FERC in which it concluded that "The Department can now verify that the ASR project construction emissions were estimated properly" and "the Department concurs with Transco's estimate that 105.4 tons of NO<sub>x</sub> are estimated to be emitted in Lancaster County." A copy of PADEP's letter to FERC is provided as Attachment D.

As a condition in the Atlantic Sunrise Final Environmental Impact Statement issued by the FERC, Transco is required to provide proof of acquisition and transfer of NO<sub>x</sub> emission reduction credits (ERCs) to offset the NO<sub>x</sub> construction emissions in Lancaster County. Transco has obtained 106.0 tons of NO<sub>x</sub> ERCs previously held by Harford County Resource Recovery Facility in Maryland. For ERCs to be used to satisfy General Conformity, the source of the ERCs must be from an area that can be demonstrated to have contributed previously to an air quality exceedance in the area of the proposed project. The justification for use of the Harford County, MD ERCs is detailed in the attached Air Quality Technical Report. Supporting documentation of the ERC purchase and transfer from MD to PA is provided as Attachment E.



**ATTACHMENT B.**

**FINAL GENERAL CONFORMITY DETERMINATION**



**Transcontinental Gas Pipe Line Company, LLC  
Atlantic Sunrise Project**

**Final General Conformity Determination**

**Docket No. CP15-138-000**



Federal Energy Regulatory Commission  
Division of Gas – Environment and Engineering  
888 First Street, NE, Washington, DC 20426

January 2017



**TABLE OF CONTENTS**  
**Atlantic Sunrise Project**  
**General Conformity Determination**

	<u>Page</u>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 GENERAL CONFORMITY – REGULATORY BACKGROUND.....</b>	<b>2</b>
2.1 General Conformity Requirements .....	3
2.2 General Conformity Process .....	4
<b>3.0 GENERAL CONFORMITY APPLICABILITY .....</b>	<b>5</b>
<b>4.0 GENERAL CONFORMITY .....</b>	<b>8</b>
4.1 Consistency with Relevant Pennsylvania State Implementation Plan Requirements and Mitigation Measures.....	9
4.2 Emission Offsets.....	10
4.3 Ongoing Compliance.....	11

**LIST OF TABLES**

Table 1	General Conformity Applicability Thresholds .....	5
Table 2	Construction Project Emissions Summary (2017) for the Atlantic Sunrise Project .....	7
Table 3	Control Measures in the Pennsylvania State Implementation Plan .....	9

**ATTACHMENTS**

Attachment 1	Response to Comments on Draft General Conformity Determination
Attachment 2	Pennsylvania Department of Environmental Protection Correspondence



## 1.0 INTRODUCTION

In accordance with the National Environmental Policy Act of 1969, the Clean Air Act (CAA), and the Federal Energy Regulatory Commission's (FERC or Commission) regulations, the FERC staff has prepared this final General Conformity Determination to ensure that the Atlantic Sunrise Project (Project) conforms with the Pennsylvania State Implementation Plan (SIP) triggered by construction activities proposed by Transcontinental Gas Pipe Line Company, LLC (Transco). Pursuant to Title 40 Code of Federal Regulations (CFR) Parts 93.155 and 156, the draft General Conformity Determination prepared for the Project was issued for public comment on November 3, 2016. The public comment period ended on December 5, 2016. Attachment 1 summarizes the comments received during the public comment period and provides a written response to the comments.

Transco's Project would consist of pipeline installation and construction of new facilities and modification to existing facilities in Maryland, North Carolina, Pennsylvania, South Carolina, and Virginia. For further information on the environmental impacts of the Project, including air quality impacts, see the draft environmental impact statement (EIS) issued on May 5, 2016 and the final EIS issued on December 30, 2016<sup>1</sup>. Construction and operation of the Project is contingent on Commission approval.

### Pipeline Facilities

The Project would involve the construction and operation of about 199.4 miles of pipeline facilities, including:

- 185.9 miles of new, greenfield<sup>2</sup> natural gas pipeline in Columbia, Lancaster, Lebanon, Luzerne, Northumberland, Schuylkill, Susquehanna, and Wyoming Counties, Pennsylvania (58.7 miles of 30-inch-diameter and 127.3 miles of 42-inch-diameter pipeline);

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<sup>1</sup> The draft EIS can be viewed on FERC's website at <https://www.ferc.gov/industries/gas/enviro/eis/2016/05-05-16-eis.asp>, and the final EIS at <https://www.ferc.gov/industries/gas/enviro/eis/2016/12-30-16-FEIS.asp>.

<sup>2</sup> A "greenfield" pipeline crosses land previously untouched by natural gas infrastructure rather than using existing rights-of-way.



- 11.0 miles of new pipeline looping<sup>3</sup> in Clinton and Lycoming Counties, Pennsylvania (2.5 miles of 36-inch-diameter and 8.5 miles of 42-inch-diameter pipeline);
- 2.5 miles of 30-inch-diameter pipeline replacements in Prince William County, Virginia; and
- associated equipment and facilities.

### **Appurtenant Aboveground Facilities**

Two new compressor stations (Compressor Stations 605 and 610) would be constructed and operated in Pennsylvania. Compressor Stations 517 and 520 in Pennsylvania and Compressor Station 190 in Maryland would have additional compression added to the stations along with other related modifications. Other modifications would take place at Compressor Stations 145, 150, 155, 160, 170, 185, and 190 across Maryland, North Carolina, and Virginia.

In Pennsylvania, two new meter stations and three new regulator stations would be constructed and operated. There would also be modifications at an existing meter station, and the construction and operation of additional ancillary facilities would occur in Pennsylvania.

In North Carolina and South Carolina, supplemental odorization, odor detection, and/or odor masking/deodorization equipment would be installed at 56 meter stations, regulator stations, and ancillary facilities.

The General Conformity analysis detailed herein, outlines whether portions of the Project are applicable to General Conformity. Where General Conformity is applicable, we have determined whether construction and operation would conform to the applicable state SIP.

## **2.0 GENERAL CONFORMITY – REGULATORY BACKGROUND**

The U.S. Environmental Protection Agency (EPA) promulgated the General Conformity Rule on November 30, 1993, to implement the conformity provision of Title I, section 176(c)(1) of the CAA. Section 176(c)(1) states that “any department,

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<sup>3</sup> “Looping” is the practice of installing a pipeline in parallel to another pipeline to increase the capacity along an existing stretch of right-of-way, often beyond what can be achieved by one pipeline or pipeline expansion.



agency, or instrumentality of the federal government shall not engage in, support in any way or provide financial assistance for, license or permit, or approve, any activity that does not conform to an approved CAA implementation plan.” The General Conformity Rule is codified in 40 CFR 93, Subpart B, “*Determining Conformity of General Federal Actions to State or Federal Implementation Plans.*”

The General Conformity Rule applies to all federal actions occurring in nonattainment or maintenance areas. However, the General Conformity Rule excludes programs and projects that require funds or approval from the U.S. Department of Transportation, the Federal Highway Administration, the Federal Transit Administration, or the Metropolitan Planning Organization.

The CAA sets out specific permitting requirements for a group of 13 northeast states that make up the Ozone Transport Region (OTR)<sup>4</sup>. This also affects the applicability threshold for nonattainment areas; however, the General Conformity Rule only applies to areas specifically listed as nonattainment or maintenance in 40 CFR 81, Subpart C within the OTR. Of the states through which the Project would be constructed, Virginia, Maryland, and Pennsylvania are within the OTR.

## **2.1 General Conformity Requirements**

Conformity under Title I, section 176(c)(1) of the CAA, means to conform to an implementation plan’s purpose of eliminating or reducing the severity and number of violations of the National Ambient Air Quality Standards (NAAQS) and achieving expeditious attainment of such standards. A proposed action or activity cannot:

- cause or contribute to new violations of any NAAQS in any area;
- increase the frequency or severity of any existing violation of any NAAQS in the area; or
- delay timely attainment of any NAAQS, interim emission reductions, or other milestones in the area.

The General Conformity Rule applies to air pollutant emissions (direct and indirect) associated with federal actions as defined in 40 CFR 93.152 and ensures that the

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<sup>4</sup> OTR states are Virginia, the District of Columbia, Maryland, Delaware, New Jersey, Pennsylvania, New York, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, and Maine.



emissions do not contribute to air quality degradation or prevent the achievement of state and federal air quality goals. General Conformity, if applicable to the action, refers to the process to evaluate the action to determine and demonstrate that it satisfies the requirements of the approved state SIP. The purpose of the General Conformity Rule is to encourage federal agencies to consult with state and local air quality districts so that these regulatory entities are aware of the expected impacts of the federal action and ensure the action meets the state SIP.

## **2.2 General Conformity Process**

The General Conformity process for a proposed action involves two distinct steps: applicability analysis and conformity determination.

1. The applicability analysis is an assessment of whether a proposed action is subject to the General Conformity Rule. If the General Conformity Rule is applicable for the proposed action, then a General Conformity Determination may be required.
2. A General Conformity Determination is an assessment of how the proposed action conforms to the applicable SIP.

An applicability analysis is required for any federal action that is in a nonattainment or maintenance area and the emissions associated with the project may have the potential to exceed the applicability threshold specified in 40 CFR 93.153(b)(1) and (2). If emissions exceed these rates, then a General Conformity Determination is required.

The General Conformity process does not include a review of new sources or existing source modifications that are subject to state or federal New Source Review permitting. Under the General Conformity Rule, these sources are presumed to comply with the SIP by completing the applicable air permitting process with the jurisdictional agency.

If a General Conformity Determination is required for the proposed action, then an evaluation must be performed to determine if the action conforms to the SIP. The Project is considered a federal action, and FERC is the lead agency responsible for making the General Conformity Determination. As required under General Conformity, an applicability analysis was performed for the Project to determine if the total direct and indirect emissions for criteria pollutants in nonattainment or maintenance areas would exceed the rates specified in 40 CFR 93.153(b)(1) and (2). The results are presented in section 3.0 below. The Project would exceed applicability thresholds within the Lancaster County 8-Hour Ozone (2008 NAAQS) nonattainment area, and the Lancaster County 24-hour PM<sub>2.5</sub> (2006 NAAQS) maintenance area. A General Conformity Determination is presented in section 4.0.



### 3.0 GENERAL CONFORMITY APPLICABILITY

The General Conformity Rule applies only to actions in a nonattainment or maintenance area, and the applicability thresholds apply for those portions of the Project within each area. The General Conformity applicability thresholds are based on the attainment classification for each pollutant. Table 1 provides a summary of the applicable nonattainment and maintenance counties; the pollutants/precursor for which they are listed; and the applicability thresholds for each pollutant/precursor.

TABLE 1			
General Conformity Applicability Thresholds			
Pollutant	Nonattainment/ Maintenance Area	Pollutant or Precursor	Applicability Threshold (tons/year)
PM <sub>2.5</sub>	Lancaster County, PA	PM <sub>2.5</sub>	100
		NO <sub>x</sub>	100
		SO <sub>2</sub>	100
		VOC	100
		Ammonia	100
PM <sub>2.5</sub>	Lebanon County, PA	PM <sub>2.5</sub>	100
		NO <sub>x</sub>	100
		SO <sub>2</sub>	100
		VOC	100
		Ammonia	100
Ozone	Lancaster County, PA	VOC	50 <sup>1</sup>
Ozone	Howard County, MD	NO <sub>x</sub>	100
		VOC	50
Ozone	Prince William County, VA	NO <sub>x</sub>	100
		VOC	50
Ozone	Gaston County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	Lincoln County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	Mecklenburg County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	Iredell County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	Rowan County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	Carabus County, NC	NO <sub>x</sub>	100
		VOC	100
Ozone	York County, SC	NO <sub>x</sub>	100
		VOC	100

<sup>1</sup> Nonattainment areas within the Ozone Transport Region have an applicability threshold of 50 tons per year of VOCs.



The project area contains nonattainment and maintenance areas for the following pollutants: particulate matter less than or equal to 2.5 micrometers<sup>5</sup> in aerodynamic diameter (PM<sub>2.5</sub>) and ozone.

PM<sub>2.5</sub> is formed during the burning of materials or any dust-generating activities. Chemical reactions of oxides of nitrogen (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), volatile organic compounds (VOC), and ammonia can also form PM<sub>2.5</sub>.

Ozone is photochemically formed when precursor pollutants are mixed together in the presence of sunlight. NO<sub>x</sub>, which is a combination of nitric oxide and nitrogen dioxide, reacts with VOC in the presence of sunlight. NO<sub>x</sub> may also react with water and ammonia in the atmosphere to form nitric acid, which is a significant component of smog and acid rain. VOCs are organic compounds that have a high vapor pressure at ambient temperatures. VOCs are ubiquitous and some examples are alcohols, solvents, methane, and ammonia.

On September 16, 2016, Transco filed a revised construction schedule, which estimated that all the construction emissions for the Project would be in calendar year 2017. This updated information subsequently requires changes to the General Conformity analysis included in the draft EIS for the Project. With the updated schedule, direct and indirect construction emissions in the Lancaster County, Pennsylvania, Ozone nonattainment and PM<sub>2.5</sub> maintenance areas are estimated to exceed the General Conformity threshold of 100 tons per year for NO<sub>x</sub>, which is a precursor pollutant for both ozone and PM<sub>2.5</sub>. Emissions sources that are subject to the General Conformity Applicability Analysis include the construction emissions that are all planned to occur in 2017 for the Project. This includes construction equipment, on-road vehicles, off-road construction vehicle traffic, earthmoving activities, and construction storage piles.

Transco filed revisions to the construction emission calculations on December 8 and December 22, 2016. The additional revisions were based on comments from the Pennsylvania Department of Environmental Protection (PADEP) on the emission calculation methodology and were updated to include fugitive dust emission calculations. The construction emission estimates filed on December 22, 2016 were not able to be incorporated into the final EIS; therefore, the construction emission estimates presented in the final EIS for Lancaster and Lebanon Counties, Pennsylvania are higher than the emission estimates provided in table 2.

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<sup>5</sup> Micrometer, or micron is equal to  $1 \times 10^{-6}$  meters.



The emissions from these sources were calculated using the EPA's MOVES 2014 modeling software and AP-42 emission factors<sup>6</sup>. These emissions are summarized in table 2.

TABLE 2				
Construction Emissions Summary (2017) for the Atlantic Sunrise Project				
Nonattainment Area	Emissions (tons/year) <sup>1</sup>			
	PM <sub>2.5</sub>	NO <sub>x</sub>	VOC	SO <sub>2</sub>
Lancaster County, PA	45.0	105.4	14.0	0.2
Lebanon County, PA	36.1	80.6	10.7	0.1
Howard County, MD	N/A	15.2	2.1	N/A
Prince William County, VA	N/A	33.2	4.1	N/A
Gaston County, NC	N/A	0.2	0.1	N/A
Lincoln County, NC	N/A	0.2	0.1	N/A
Mecklenburg County, NC	N/A	0.2	0.1	N/A
Iredell County, NC	N/A	0.2	0.1	N/A
Rowan County, NC	N/A	0.2	0.1	N/A
Carabus County, NC	N/A	0.2	0.1	N/A
York County, SC	N/A	0.2	0.1	N/A

<sup>a</sup> Ammonia emissions were estimated to be approximately zero.

The Project construction emissions in Lebanon County, Pennsylvania, would not exceed the applicability threshold for PM<sub>2.5</sub> or any of its precursor pollutants under the current emission estimates; however, they are very close to the NO<sub>x</sub> applicability threshold that would trigger a general conformity determination. To ensure that the emissions do not exceed the threshold, we recommended in the draft and final EISs that Transco file a *Construction Emission Plan* for work within Lebanon County, Pennsylvania to track its construction schedule and activities for each component of the Project within the Lebanon County, Pennsylvania PM<sub>2.5</sub> nonattainment area to ensure that actual emissions do not exceed the General Conformity threshold.

If a change in the construction schedule or Project results in emissions greater than 100 tons per year of NO<sub>x</sub>, Transco should provide and document all mitigation measures under 40 CFR 93.158 it would implement to comply with the General Conformity Regulations. The General Conformity Rule provides for a reassessment if the final

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<sup>6</sup> Detailed information on calculation methodology for each emission source is available on the FERC website, <http://www.ferc.gov>, using the "eLibrary" link and the project docket number CP15-138-000. The majority of the methodology was filed by Transco on September 19, 2016 and December 8, 2016.



General Conformity Determination becomes outdated or if emissions are significantly greater than originally anticipated, pursuant to 40 CFR 93.157.

Based on the emission estimates in table 2, the NO<sub>x</sub> emissions for Lancaster County in 2017 would exceed the General Conformity applicability threshold value in table 1 of 100 tons per year, as a precursor pollutant to ozone and PM<sub>2.5</sub>. Because the emissions from the Project in Lancaster County, Pennsylvania would exceed the applicability threshold for NO<sub>x</sub>, a General Conformity Determination must be completed to assess the conformance of the Project's emissions in Lancaster County, Pennsylvania to the approved requirements and emission budgets for the South Central Pennsylvania Intrastate Air Quality Control Region within the Pennsylvania SIP for 2017. These emissions are referred to within this determination as the "General Conformity Project emissions."

#### **4.0 GENERAL CONFORMITY**

Under 40 CFR 93, Subpart B, "*Determining Conformity of General Federal Actions to State or Federal Implementation Plans*," a federal action required to have a conformity determination for a specific pollutant would be determined to conform to the SIP if it meets one of several requirements in 40 CFR 93.158, "*Criteria for Determining Conformity of General Federal Actions*."

The General Conformity Determination is based on the 8-hour ozone, the 1997 annual PM<sub>2.5</sub> standard, and 2006 24-hour PM<sub>2.5</sub> standard and the corresponding attainment dates. For the Lancaster County, Pennsylvania Ozone Nonattainment Area, the most recently approved SIP revision is the *2012 Lancaster Ozone Nonattainment Area SIP Revision*. These revisions were approved by the EPA on November 19, 2012. In this SIP revision, the emissions budgets for NO<sub>x</sub> and VOC were updated in accordance with EPA guidance regarding mobile source emissions. For the Lancaster County, Pennsylvania PM<sub>2.5</sub> Nonattainment Area, the most recently approved SIP revision is the *2014 Lancaster Nonattainment Area 1997 and 2006 Fine Particulate Matter National Ambient Air Quality Standards SIP Revisions*, which requested redesignation of the nonattainment area to attainment. These revisions were approved by the EPA on July 16, 2015. In this SIP revision, the PADEP developed a maintenance plan with control measures including emission budgets for PM<sub>2.5</sub>, NO<sub>x</sub>, and SO<sub>2</sub>, which included stationary point sources, highway vehicle sources, non-road sources, and stationary area sources.

All of the project construction emissions above the General Conformity applicability thresholds in Lancaster County, Pennsylvania are expected to occur in the South Central Pennsylvania Intrastate Air Quality Control Region. The criteria for determining conformity are provided in 40 CFR 93.158. An action would be determined to conform for a specific pollutant if it meets the requirements of 40 CFR 93.158(c) and any of the applicable requirements in 40 CFR 93.158(a)(1) through (5). Section 40 CFR 93.158(c) requires the total of direct and indirect emissions from the action be in



compliance with all relevant requirements and milestones contained in the applicable SIP. Section 40 CFR 93.158(a)(1) through (5) provide a number of pollutant- and state-specific options for demonstrating conformity. Transco has indicated that it would demonstrate compliance with the Pennsylvania SIP requirements, in accordance with 40 CFR 93.158(c), and the method is provided in section 4.2.

#### **4.1 Consistency with Relevant Pennsylvania State Implementation Plan Requirements and Mitigation Measures**

The NO<sub>x</sub> emission control measures and regulations included in the Pennsylvania SIP that may potentially apply to the Project are listed in table 3.

TABLE 3		
Control Measures in the Pennsylvania State Implementation Plan		
Emission Control Measures	Type	Potential Applicability to the Liquefaction Facilities and Related Activities
EPA Non-road Diesel Engines Rule	Federal	Diesel-powered construction equipment greater than 50 horsepower
Emissions Standards for Large Spark Ignition Engines	Federal	Industrial spark-ignition engines rated over 19 kilowatts
Enhanced Inspections/Maintenance	Federal	Delivery and commuter vehicles
Federal Tier 1 and 2 Vehicle Standards	Federal	Delivery and commuter vehicles
National Low Emission Vehicle Standards	Federal	Delivery and commuter vehicles
Heavy Duty Diesel Engine Rule	Federal	Construction and heavy duty on-road vehicles
Diesel-Powered Motor Vehicle Idling Act (Act 124)	State	State standard that restricts most diesel-powered motor vehicles over 10,000 pounds from idling more than 5 minutes in any continuous 60-minute period
Vehicle Inspections	State	Required annual inspections

Several of the regulations identified in table 3 would indirectly affect the emissions from the proposed Project through implementation of new standards for manufacturers (such as reformulated fuel and engines). These regulations include the heavy duty non-road diesel engine rule. During construction of the proposed facilities, Transco would use construction equipment powered by diesel engines, which are subject to these federal programs. Implementation and compliance with these programs would be required by the manufacturers, not Transco. Therefore, it is assumed that the Project would be in compliance with these regulations. As such, the Project meets the requirements of 40 CFR 93.158(c) for complying with all relevant requirements and milestones contained in the Pennsylvania SIP.

As outlined in the draft and final EISs prepared for the Project, Transco has committed to implementing air emission mitigation measures during project construction, including the dust abatement methods described in its Fugitive Dust Control Plan and adherence to manufacturer's specifications and EPA standards for construction emissions from gasoline, on-road diesel, and off-road diesel equipment.



## 4.2 Emission Offsets

To demonstrate conformity with the South Central Pennsylvania Intrastate Air Quality Control Region SIP in Lancaster County, Transco developed an air mitigation plan that includes strategies to completely offset the proposed project NO<sub>x</sub> emissions for the year (2017) they are predicted to exceed the applicable General Conformity thresholds. The air mitigation plan identifies reduction measures to generate emissions offsets that are contemporaneous with applicable project emissions. Emissions offsets, as defined in 40 CFR 93.152, are quantifiable reductions, consistent with the applicable SIP attainment and reasonable further progress demonstrations, surplus to reductions required by, and credited to, other applicable SIP provisions, enforceable at both the state and federal levels, and permanent within the timeframe specified by the program. If the Commission approves the Project, Transco will be required to offset 105.4 tons of NO<sub>x</sub> for construction activities in Lancaster County, Pennsylvania during 2017, which will satisfy the criteria for determining conformity of general federal actions outlined in 40 CFR 93.158(a)(2).

Transco will purchase 106 tons of NO<sub>x</sub> emission reduction credits (ERC) from Howard County, Maryland. Correspondence from the PADEP acknowledging their agreement with the emission calculations provided by Transco and verifying their acceptance of the amount and location of ERCs to be purchased or transferred is included in Attachment 2. Specifically, the PADEP letter references a technical memo that details the justification for acceptance of ERCs from Howard County, Maryland for Lancaster County<sup>7</sup>. Transco is in the process of purchasing the appropriate ERCs. The PADEP will provide notice of the ERC transfer by means of a 30-day public comment period, after which the PADEP will provide a state and federally enforceable document verifying the transfer. To ensure compliance with the SIP, we are recommending to the Commission that Transco not be authorized to commence construction in Lancaster County, Pennsylvania until the enforceable ERC transfer has been completed.

These ERCs will allow the Project to conform to the Pennsylvania SIP as allowed in 40 CFR 93.158(a)(2).

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<sup>7</sup> December 6, 2016 Memo entitled *Justification for Use of ERCs from Howard County Maryland* filed with the Commission on December 22, 2016.



### **4.3 Ongoing Compliance**

FERC staff included recommendations in the final EIS prepared for the Project that require Transco to provide ongoing construction progress reports, which would allow FERC to track the progress of the activities subject to the General Conformity Determination as outlined in 40 CFR 93.157. If the Commission authorizes the Project, these recommendations would become conditions of the Certificate.



# **ATTACHMENT 1**

## **RESPONSE TO COMMENTS ON DRAFT GENERAL CONFORMITY DETERMINATION**

Federal Energy Regulatory Commission (FERC) staff prepared the draft General Conformity Determination (GCD) for the Transcontinental Gas Pipe Line Company, LLC (Transco) Atlantic Sunrise Project (Project). The draft GCD was issued for public comment on November 3, 2016. The public comment period ended on December 5, 2016. We received comments from the Clean Air Council, Lebanon Pipeline Awareness, Sierra Club Pennsylvania Chapter, Concerned Citizens of Lebanon County, Lancaster Against Pipelines (collectively referred to as “Joint Commentors”), Pennsylvania Department of Environmental Protection (PADEP), and Elise Kucirka Salahub. These comments are further discussed below, and primarily concern fugitive dust emissions, construction emission calculation methodology, General Conformity applicability for particulate matter less than or equal to 2.5 microns in aerodynamic diameter (PM<sub>2.5</sub>), General Conformity applicability in other nonattainment areas within the project area, and General Conformity regulatory citations.

### **Fugitive Dust Calculations**

Comments by the Joint Commentors and the landowner assert that fugitive dust emission calculations were not appropriately accounted for in the construction emission calculations provided by Transco. The Joint Commentors provided fugitive emission calculations and an associated analysis.

While Transco’s construction emission calculations included some particulate matter less than or equal to 10 microns in diameter (PM<sub>10</sub>) and PM<sub>2.5</sub> emission estimates, the construction emissions did not include fugitive dust<sup>8</sup> emission calculations. However, the draft and final environmental impact statement addressed potential impacts associated with fugitive dust emissions from the Project and included mitigation measures to be implemented by Transco to minimize fugitive dust emissions. On December 8, and December 22, 2016, Transco filed supplemental revised construction emission calculations, which included fugitive dust emissions from construction activities in particulate matter nonattainment and maintenance areas crossed by the Project (i.e.,

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<sup>8</sup> Fugitive dust is typically a mix of larger and smaller particles including PM<sub>2.5</sub>, PM<sub>10</sub>, and larger particles that settle out over a shorter distance. Smaller particles are considered “inhalable” and are of greater health concern.



Lancaster and Lebanon Counties, Pennsylvania). FERC staff also completed fugitive dust emission calculations for attainment areas crossed by the Project. We reviewed the fugitive dust emission estimates submitted by Transco and believe that they accurately estimate the potential fugitive dust emissions associated with project construction in nonattainment and maintenance areas. On December 29, 2016 the PADEP also provided concurrence with the construction emission estimates provided by Transco, including fugitive dust emission estimates.

The fugitive dust emission estimates from the December 8, 2016 and FERC staff calculations were included in the final EIS; however, the construction emission estimated dated December 22, 2016 were not received in time to be incorporated into the final EIS, but have been incorporated into the final GCD. We found that added fugitive dust emissions did not result in an exceedance of General Conformity applicability thresholds for PM<sub>2.5</sub>.

### **Additional Construction Emission Calculation Detail**

Comments by the PADEP stated that the level of detail provided in the construction emission calculations methodology included in the draft GCD was insufficient to facilitate the PADEP's review of the emission calculations. On December 8 and 22, 2016, Transco filed supplemental information regarding the draft GCD, including additional detail to support the construction emission calculations methodology. On December 29, 2016 the PADEP provided concurrence with the construction emission estimates provided by Transco on December 22, 2016.

### **General Conformity for PM<sub>2.5</sub>**

The Joint Commentors state that the draft GCD failed to make a determination for PM<sub>2.5</sub> in Lancaster and Lebanon Counties and ignored the combined emissions of PM<sub>2.5</sub> and oxides of nitrogen (NO<sub>x</sub>). The Joint Commentors also state that NO<sub>x</sub> emissions must be added to PM<sub>2.5</sub> emissions when making a determination of exceedance of the PM<sub>2.5</sub> applicability threshold. The Joint Commentors further request that a second public notice be prepared for the draft GCD to update this omission.

The final GCD has been revised to clarify that NO<sub>x</sub>, as a precursor pollutant for both PM<sub>2.5</sub> and ozone, exceeds the General Conformity applicability threshold. However, PM<sub>2.5</sub> as an individual pollutant does not exceed the General Conformity applicability threshold of 100 tons per year (tpy) in either Lancaster or Lebanon Counties. Each pollutant to which a General Conformity applicability threshold has been established is



considered separately when making a determination regarding General Conformity applicability and is not combined<sup>9</sup>. For these reasons, only NO<sub>x</sub> emissions in Lancaster County would exceed General Conformity applicability thresholds. Because the NO<sub>x</sub> General Conformity applicability threshold is the same for both PM<sub>2.5</sub> and ozone, and the draft GCD examined NO<sub>x</sub> emissions in Lancaster County, we find that an additional public comment period would not provide any new or additional information to inform the final GCD.

### **General Conformity Applicability in Howard County, Maryland and Prince William County, Virginia**

The Joint Commentors state that construction emissions appear to be significant in Howard County, Maryland and Prince William County, Virginia and state that a 50-tpy threshold applies in these Counties. As shown in table 1 of the draft GCD, Howard County, Maryland and Prince William County, Virginia are both classified as ozone nonattainment areas. Volatile organic compounds (VOC) and NO<sub>x</sub> are ozone precursor pollutants. The General Conformity applicability threshold for VOCs is 50 tpy in these counties; however, the General Conformity applicability threshold for NO<sub>x</sub> is 100 tpy. As shown in table 2 of the draft GCD, the annual emissions of VOCs and NO<sub>x</sub> in Howard County, Maryland and Prince William County, Virginia would be well below the General Conformity applicability thresholds.

### **Omission of Mitigation Measures**

Joint Commentors state that the draft GCD omits mitigation measures related to emissions that would be generated in Lancaster County, which would be subject to General Conformity rules. The General Conformity rules at Title 40 Code of Federal Regulations (CFR) Part 93.160 outline actions to be taken for measures that are intended to mitigate air quality impacts and a process for implementation. Section 4.1 of the final GCD outlines various federal and state rules that would apply to the Project. In addition, the draft and final environmental impact statements prepared for the Project detail mitigation measures that would be implemented by Transco during construction, including the dust abatement methods described in its Fugitive Dust Control Plan and adherence to manufacture's specifications and U.S. Environmental Protection Agency standards for construction emissions from gasoline, on-road diesel, and off-road diesel equipment. Transco has committed to implementing these mitigation measures, which

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<sup>9</sup> General Conformity Guidance: Questions and Answers, Applicability No. 32 – EPA, July 13, 1994



would be required during construction of the Project. The final GCD has been updated to list these measures.

## **Regulatory Citations**

The PADEP states that the draft GCD cites 40 CFR 51, which should be changed to 40 CFR 93.158. The PADEP also requests that the final GCD demonstrate how FERC followed the requirements contained in 40 CFR 93.155 to 93.160, 93.162, and 93.165, where applicable.

The citations in the final GCD are revised. Section 1.0 of the final GCD demonstrates how FERC staff followed the requirements contained in 40 CFR 93.155 and 93.156. Sections 3.0 and 4.3 of the final GCD demonstrate compliance with 40 CFR 93.157. Section 4.2 of the final GCD demonstrates compliance with 40 CFR 93.158. Section 3.0 and the associated emission calculations filed by Transco demonstrate compliance with 40 CFR 93.159 based on the use of the U.S. Environmental Protection Agency's MOVES 2014 modeling software and AP-42 emission factors. Section 4.1 of the final GCD outlines mitigation measures to be implemented by Transco during construction. Title 40 CFR 93.162 does not apply to the project emissions subject to review under General Conformity. Title 40 CFR 93.165 does not apply to the Project.



**ATTACHMENT 2**

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CORRESPONDENCE**





December 29, 2016  
Sent by FERC eFiling

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First St, NE, Room 1A  
Washington, DC 20426

Re: PA DEP submittal of additional comments for the Draft General Conformity Determination for the Transcontinental Gas Pipeline Company, LLC (Transco) Atlantic Sunrise Project (FERC Docket No. CP15-138-000)

Dear Secretary Bose:

This letter supplements and incorporates by reference the Pennsylvania Department of Environmental Protection's (Department) December 5, 2016, comment letter to FERC on FERC's Draft General Conformity Determination for the Transcontinental Gas Pipeline Company, LLC (Transco) Atlantic Sunrise Project (FERC Docket No. CP15-138-000).

In response to the Department's December 5 letter and further discussions with the applicant, the Department received from Transco, and reviewed, an "Air Quality Technical Report, Explanatory Information for General Conformity Evaluation, Atlantic Sunrise Project," (technical report). The technical report contains air emissions estimates for the proposed Atlantic Sunrise (ASR) pipeline project proposed to be built in Lancaster and Lebanon Counties, Pennsylvania.

Lancaster County is a nonattainment area for the 2008 National Ambient Air Quality Standard (NAAQS) for ozone and is a maintenance area for the 2006 24-hour fine particulate matter (PM<sub>2.5</sub>) NAAQS. Lebanon County is a nonattainment area for the 2012 annual PM<sub>2.5</sub> NAAQS and a maintenance area for the 2006 24-hour PM<sub>2.5</sub> NAAQS. Therefore, both Lancaster and Lebanon Counties would be subject to a General Conformity determination if the emissions from a federal project exceed the emission rates (also called *de minimis* threshold rates) given in 40 C.F.R. § 93.153(b) of the General Conformity regulation. Pennsylvania adopted General Conformity requirements by reference in 25 Pa. Code Chapter 127, Subchapter J (relating to general conformity). Our review has been conducted in accordance with Section 176 of the Clean Air Act and its implementing regulations in 40 C.F.R. Part 93, Subpart B (relating to determining conformity of general Federal actions to state or Federal implementation plans) and the Department's General Conformity regulation.

Based on its review of all of the information provided to it, the Department believes that the pipeline project will exceed the *de minimis* threshold rates in 40 C.F.R. § 93.153(b) for NO<sub>x</sub> for both the ozone and PM<sub>2.5</sub> NAAQS for Lancaster County, and does not exceed any other *de minimis* threshold rate.

The technical report sufficiently addresses the Department's previous comments regarding incomplete information and a request for explanation of methodology. The Department can now verify that the ASR project construction emissions were estimated properly for the purpose of verifying the offsetting of project emissions through the retirement of emissions reduction credits (ERCs). To this end, the Department concurs with Transco's estimate that 105.4 tons of oxides of nitrogen (NO<sub>x</sub>) are estimated to be emitted in Lancaster County, Pennsylvania for the duration of construction during the single

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December 29, 2016

calendar year of 2017. As previously indicated in discussions with FERC, the Department believes that the retirement of the necessary amount of ERCs (in this case, 106 tons of ERCs) from a suitably equivalent or higher-designated nearby nonattainment area that can demonstrate impact on Lancaster County is sufficient to meet the General Conformity emissions offset requirements.

Both FERC and the Department are in receipt of documentation from Transco and the U.S. EPA on the suitability of the use of ERCs generated from a source or sources in Howard County, Maryland. Part of the documentation, a December 6, 2016, memorandum titled, *Justification for the Use of ERCs from Howard County, Maryland*, shows through a HYSPLIT analysis, atmospheric ozone modeling performed by the Virginia Department of Environmental Quality, and a qualitative analysis on secondary PM<sub>2.5</sub> formation that ERC obtained in Howard County, Maryland is appropriate to offset construction emissions for the ASR project. The Department concurs that is appropriate to use of NOx ERCs generated by sources in Howard County, Maryland to offset the ASR project construction emissions that will be produced in Lancaster County, Pennsylvania.

The Department concurs with the overall project construction emissions estimated in the technical report and with the assessment that these estimates satisfy the General Conformity applicability determination requirements for the estimation of reasonably foreseeable direct and indirect project construction emissions under 40 C.F.R. § 93.153(b).

It is important to note that the project emissions estimates provided by the applicant now differ from those included in FERC's previous Draft General Conformity Analysis. However, FERC's ultimate conclusion that only the General Conformity *de minimis* threshold rate of 100 tons per year NOx would be exceeded in Lancaster County has not changed.

The Department will continue to work with Transco and the U.S. EPA in order to provide an enforceable document by which the purchase or acquisition and subsequent retirement of 106 tons of NOx ERCs can be memorialized to comply with applicable General Conformity requirements. Consistent with the public notification requirements in 25 Pa. Code, Chapter 127, this enforceable document would require a thirty-day public notice and comment period in the Commonwealth.

If you have any questions or need additional clarification, please feel free to contact Chris Trostle, Mobile Sources Section Chief, or me. Mr. Trostle can be contacted at [dtrostle@pa.gov](mailto:dtrostle@pa.gov) or by phone at 717.772.3926. My e-mail is [kramamurth@pa.gov](mailto:kramamurth@pa.gov).

Sincerely,



Krishnan Ramamurthy  
Acting Director  
Bureau of Air Quality

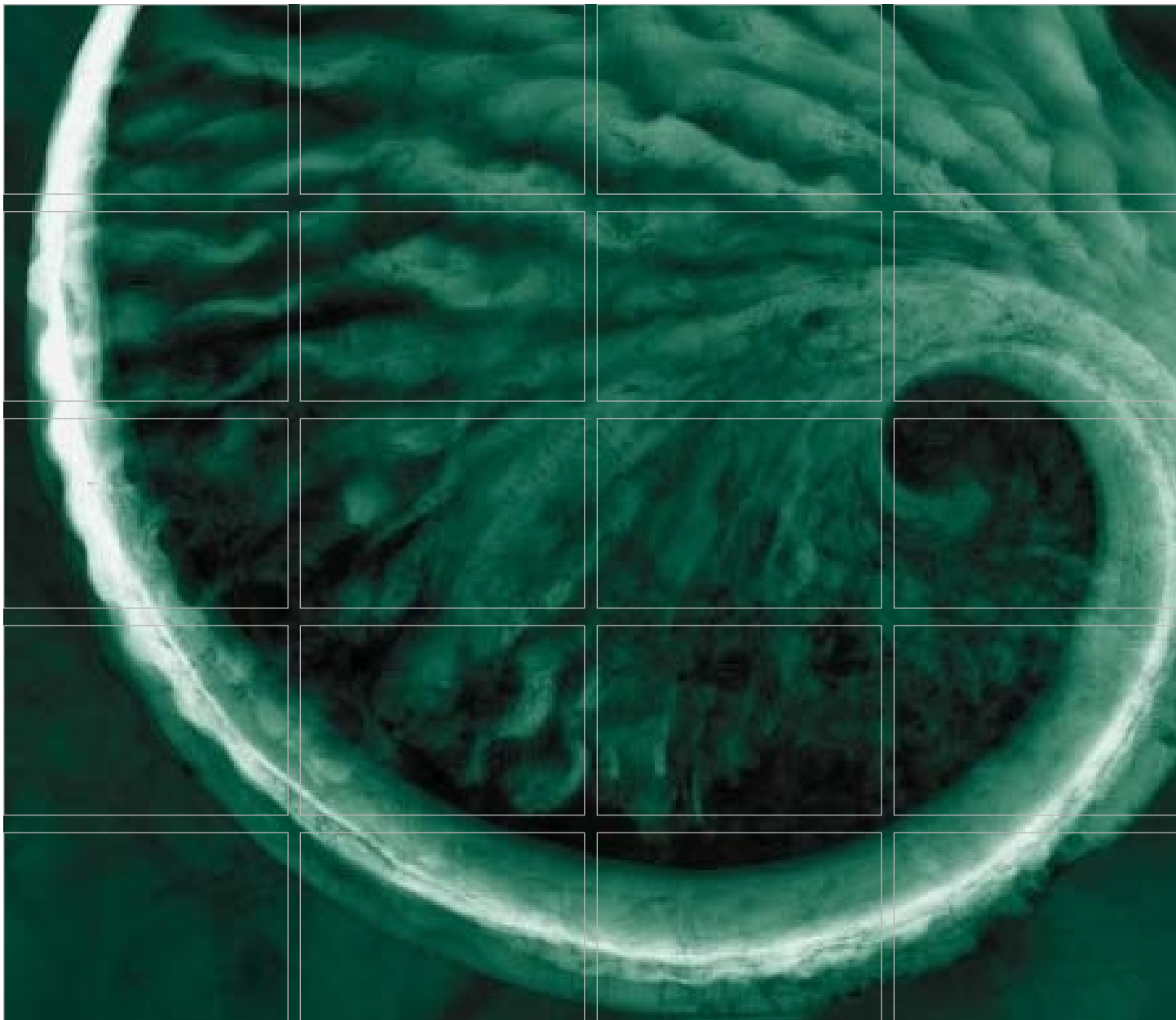
cc: Patrick McDonnell  
Ann Roda  
George Hartenstein  
Kirit Dalal  
Chris Trostle



**ATTACHMENT C.**

**ATLANTIC SUNRISE AIR QUALITY TECHNICAL REPORT**





**Prepared for:**

Transcontinental Gas Pipe Line  
Company, LLC



*The business of sustainability*

## **Air Quality Technical Report**

**Explanatory Information for General  
Conformity Evaluation**

**Atlantic Sunrise Project**

**Federal Energy Regulatory Commission**

**Docket # CP15-138**

**December 2016**





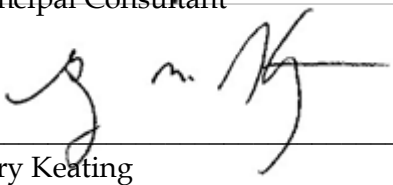
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**Air Quality Technical Report**  
**Explanatory Information for General Conformity Evaluation**  
**Atlantic Sunrise Project**  
**Federal Energy Regulatory Commission Docket # CP15-138**

December 2016

Prepared By:   
Tree Raine  
Principal Consultant

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## TABLE OF CONTENTS

<b>1. Introduction.....</b>	<b>1</b>
1.1. Project Overview .....	1
1.2. Existing Air Quality .....	4
1.3. Regulatory Requirements for Air Quality .....	7
<b>2. General Conformity and Emission Reduction Credits .....</b>	<b>8</b>
<b>3. Air Quality Impacts.....</b>	<b>9</b>
3.1. Construction Emissions.....	9
3.2. Operational Emissions.....	10



## LIST OF TABLES

Table 1: Background Ambient Air Quality and Ambient Air Quality Standards for Pennsylvania.....	5
Table 2: County Air Quality Designations.....	7



## LIST OF FIGURES

Figure 1: Atlantic Sunrise Project Location Map.....	3
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## LIST OF APPENDICES

Appendix A	Construction Emissions Process Description
Appendix B	Construction Equipment Type and Usage
Appendix C	Construction Data and Detailed Results
Appendix D	MOVES2014 Output Files
Appendix E	Justification for the Use of ERCs from Howard County, Maryland
Appendix F	ERC Letter from PADEP to FERC Dated October 28, 2016
Appendix G	FERC Draft General Conformity Determination
Appendix H	SP-2888 RG Product Data Sheet
Appendix I	Total Estimated Acres Disturbed



## LIST OF ACRONYMS AND ABBREVIATIONS

µg/m <sup>3</sup> .....	micrograms per cubic meter
CAA .....	Clean Air Act
CFR.....	Code of Federal Regulations
CO .....	carbon monoxide
CPLS.....	Central Penn Line – South
EMD .....	Electric motor driven
ERCs.....	emission reduction credits
ERM.....	Environmental Resources Management
FDCP .....	Fugitive Dust Control Plan
FERC .....	Federal Energy Regulatory Commission
GC.....	General Conformity
GCD .....	General Conformity Determination
GHG.....	greenhouse gas
MACT .....	Maximum Achievable Control Technology
NAAQS.....	National Ambient Air Quality Standards
NESHAP.....	National Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub> .....	nitrogen dioxide
NO <sub>x</sub> .....	oxides of nitrogen
NSPS.....	New Source Performance Standard
OTR .....	ozone transport region
PADEP .....	Pennsylvania Department of Environmental Protection
PM .....	particulate matter
PM <sub>10</sub> .....	particulate matter of 10 microns in diameter or less
PM <sub>2.5</sub> .....	particulate matter of 2.5 microns in diameter or less
ppb .....	parts per billion
ppm .....	parts per million
RR9 .....	Resource Report 9
SIP.....	State Implementation Plan
SO <sub>2</sub> .....	sulfur dioxide
Project .....	Atlantic Sunrise Project
tpy.....	tons per year
Transco .....	Transcontinental Gas Pipe Line Company, LLC.
U.S. ....	United States
USEPA .....	U.S. Environmental Protection Agency
VOC.....	volatile organic compound



## 1. INTRODUCTION

Transcontinental Gas Pipeline Company, LLC (Transco) has prepared this Air Quality Technical Report for the proposed Atlantic Sunrise Project (Project) at the request of the Pennsylvania Department of Environmental Protection (PADEP). This document has been prepared for PADEP to further explain the information relied upon by the Federal Energy Regulatory Commission (FERC) in its draft General Conformity Determination (GCD), and to assist PADEP with its review of FERC's draft GCD.

Due to proposed Project construction schedule changes communicated to FERC on September 19, 2016, General Conformity (GC) has been triggered for the Project in Lancaster County, PA. Based on the amendments to the previously proposed construction schedule, air emissions from construction in Lancaster County, Pennsylvania are estimated to exceed the GC threshold value of 100 tons per year of oxides of nitrogen (NO<sub>x</sub>) in calendar year 2017, as detailed in FERC's draft GCD dated November 3, 2016 (Docket No. CP15-138).

The GC regulations, 40 Code of Federal Regulations (CFR) part 93, Subpart B, were established under the Clean Air Act (CAA) to ensure that actions conducted or sponsored by federal agencies are consistent with state air quality goals. FERC, under the National Environmental Policy Act (NEPA) process, must consider the impact of "major" federal actions on environmental, natural, cultural, and socioeconomic resources including impacts to air that would trigger GC.

The GC review process is designed to ensure that air pollutant emissions, as a result of planned federal activities, would not affect the state's ability to achieve attainment with the National Ambient Air Quality Standards (NAAQS). The GC regulations are applicable in nonattainment and maintenance areas. The ASR GC analysis is limited to Lebanon and Lancaster counties only. Both counties are designated non-attainment for particulate matter of 2.5 microns in diameter or less (PM<sub>2.5</sub>). Lancaster County is designated non-attainment for ozone. Other counties in the Project area are designated attainment and are not subject to GC. No ongoing operational emission sources will be constructed in Lancaster and Lebanon counties, so only emissions from construction related activities are subject to GC requirements.

### 1.1. Project Overview

The proposed Project is an expansion of the existing Transco interstate natural gas transmission pipeline system that will enable Transco to provide 1.7 million dekatherms per day of incremental firm transportation of natural gas from the Marcellus Shale production areas in northern Pennsylvania to its existing market areas, extending as far south as the Station 85 Pooling Point<sup>1</sup> in Choctaw County, Alabama. The Project includes modifications to the existing Transco Mainline system to reverse the direction of flow, enabling new north-to-south capabilities (multi- and/or bi-directional flow) to transport this new source of natural gas to

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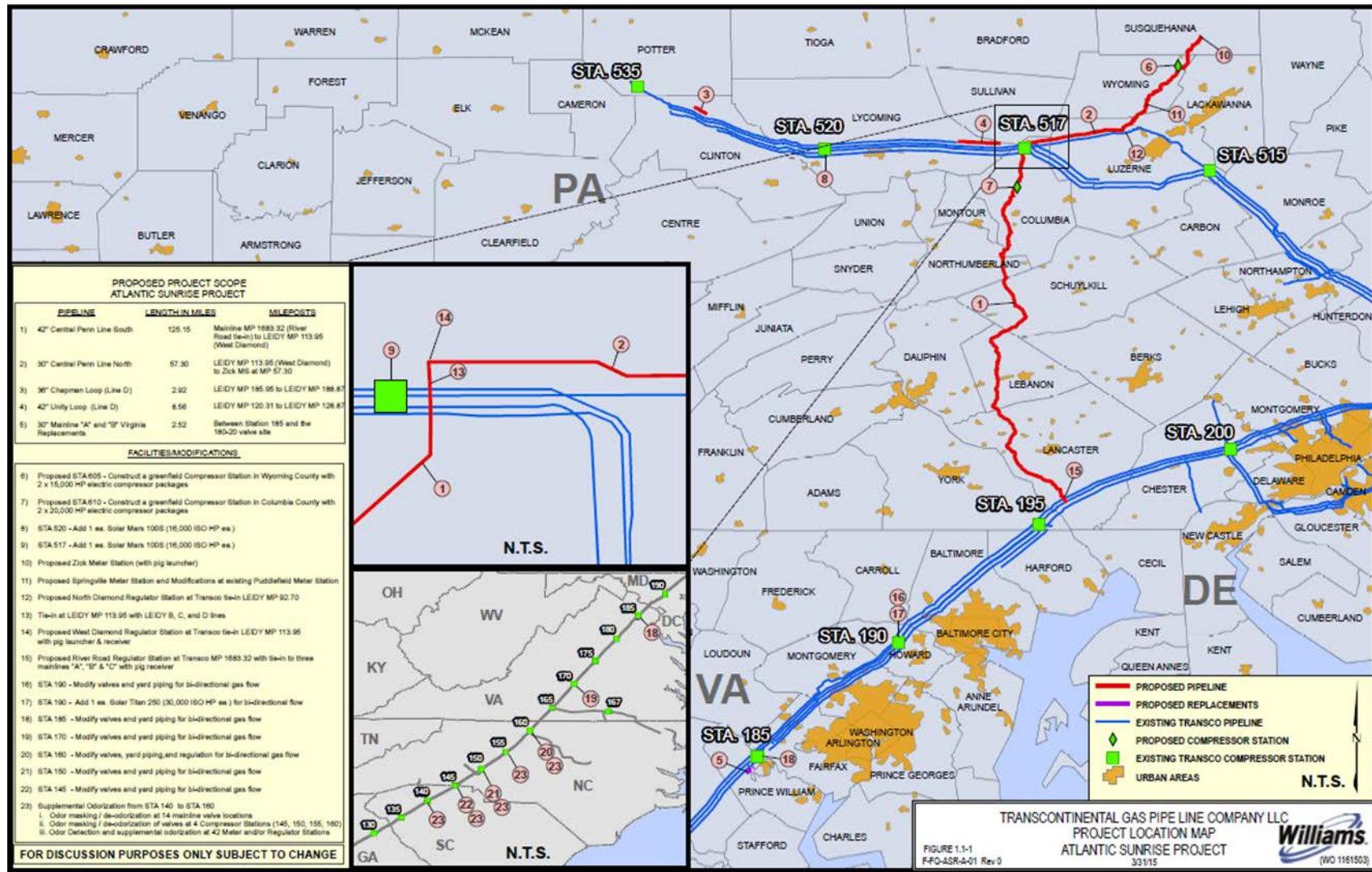
<sup>1</sup> A pooling point defines the aggregation of gas from multiple physical and/or virtual receipt points to a single physical or virtual point, and the disaggregation of gas from a single physical or virtual point to multiple physical and/or virtual delivery points.



existing markets. Figure 1 provides a Project overview map showing the locations of the proposed facilities in eastern Pennsylvania and Maryland.



FIGURE 1: ATLANTIC SUNRISE PROJECT LOCATION MAP





The proposed Pennsylvania portion of the Project includes:

- Construction of 185.9 miles of new natural gas pipeline in Columbia, Lancaster, Lebanon, Luzerne, Northumberland, Schuylkill, Susquehanna, and Wyoming counties, Pennsylvania (58.7 miles of 30-inch diameter and 127.3 miles of 42-inch diameter pipeline);
- Construction and operation of three new regulator stations; and
- Construction of two Electric Motor Driven (EMD) compressor stations:
  - Station 605 in Wyoming County (RFD Facility ID# 2500; Approved 10/01/2015); and
  - Station 610 in Columbia County (RFD Facility ID# 2500; Approved 10/01/2015).

GC applies only in areas designated as non-attainment for one or more NAAQS, so this report focuses on Lancaster and Lebanon counties only. These two counties are designated as nonattainment areas for PM<sub>2.5</sub>. Lancaster County is also designated non-attainment for ozone. The specific construction activities relevant to this GC analysis include:

- Central Penn Line – South (CPLS) Pipeline Construction Spread 6\_7:
  - 37.06 miles in Lancaster County; and
  - 12.34 miles in Lebanon County.
- CPLS Pipeline Construction Spread 5\_6:
  - 15.46 miles in Lebanon County
- The River Road Regulator Station in Lancaster County (RFD Facility ID # 2502; Approved 07/17/2015).

## 1.2. Existing Air Quality

Resource Report 9 (RR9)<sup>2</sup>, as well as Transco's responses to FERC data requests, describes the existing air quality and noise conditions associated with the ASR Project; evaluate the potential impacts of construction and operation of the Project on these resources; and identify proposed mitigation measures to avoid or minimize those potential impacts. Transco obtained the information contained in the RR9 from equipment vendor data sheets, desktop analysis, and review of available literature. The following information is provided as an overview of the information found in the RR9 specific to GC. Additional information can be found in the Project's FERC docket.

The climate within Pennsylvania is quite varied and not easily generalized to a single classification. Although it is located in the humid continental zone of the North American Continent, Pennsylvania's location along the spine of the Appalachian Mountain Range offers locally diverse climate zones based mainly on elevation. For the purpose of this Project, climate

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<sup>2</sup> As submitted within the CPCN application, submitted to FERC March 31, 2015. Docket No. CP15-138.



discussion is focused on the eastern half of the state; specifically the following Project counties: Columbia, Lancaster, Luzerne, Lycoming, and Susquehanna. The average annual temperature across the region is 50 degrees Fahrenheit (°F). The region's coldest temperatures occur during the winter months and on average range between 20–40 °F. The warmest temperatures occur during the summer months and on average range between 60–85 °F. Pennsylvania's warmest temperatures are found in the southeast part of the state. During the summer, southeastern Pennsylvania can experience approximately 75 percent more days with high temperatures above 90 °F, compared to the state average.

Average annual precipitation generally ranges between 40–45 inches, with a fairly even distribution of precipitation throughout the year. Flooding can occur throughout the year, but the greatest frequency occurs in the months of March and April, where the potential combination of heavy rain and snow melt is most likely. The return time of significant flooding for the region is approximately every eight years. Pennsylvania is not typically directly struck by a hurricane, but can be affected by the remnants of a storm that made landfall somewhere along the southeastern United States (U.S.). Tornadoes are a more common severe weather threat to the state. While a tornado can strike during any season, they are more frequently observed during the summer months between June and August. On average, Pennsylvania experiences 15–16 tornadoes a year.

The CCA of 1970, 42 U.S. Code 7401 et seq., amended in 1977 and 1990, is the primary federal statute governing air pollution. The CAA designates six pollutants as criteria pollutants, for which NAAQS are promulgated to protect public health and welfare. The six criteria pollutants are particulate matter (including particulate matter of 10 microns in diameter or less [PM<sub>10</sub>] and PM<sub>2.5</sub>), carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), nitrogen dioxide (NO<sub>2</sub>), lead, and ground level ozone. Volatile organic compounds (VOCs) are not a criteria pollutant but are analyzed because VOCs are precursors to ground-level ozone formation.

Air quality monitoring data from the U.S. Environmental Protection Agency (USEPA) AirData website for calendar year 2013 was reviewed to characterize background air quality for regulated criteria pollutants. Air quality monitoring stations in closest proximity to the Project area were considered for obtaining monitored values. Background air quality data for the Project areas located in Pennsylvania are presented in Table 1 (USEPA 2013b).

**TABLE 1: BACKGROUND AMBIENT AIR QUALITY AND AMBIENT AIR QUALITY STANDARDS FOR PENNSYLVANIA**

Air Pollutant	Averaging Period	Monitor Values <sup>a</sup>	Monitoring Site (County)	NAAQS
Sulfur Dioxide (SO <sub>2</sub> )	1-hour <sup>b</sup>	20 ppb	Centre	75 ppb
Carbon Monoxide (CO)	1-hour	1.2 ppm	Lackawanna	35 ppm
	8-hour	0.9 ppm	Lackawanna	9 ppm
Nitrogen dioxide (NO <sub>2</sub> )	1-hour <sup>c</sup>	36 ppb	Centre	100 ppb
Ozone	8-hour <sup>d</sup>	0.071 ppm	Lycoming	0.075 ppm (2008 Standard)



Air Pollutant	Averaging Period	Monitor Values <sup>a</sup>	Monitoring Site (County)	NAAQS
PM <sub>10</sub>	24-hour <sup>e</sup>	32 µg/m <sup>3</sup>	Lycoming	150 µg/m <sup>3</sup>
PM <sub>2.5</sub>	24-hour <sup>e</sup>	27.7 µg/m <sup>3</sup>	Centre	35 µg/m <sup>3</sup>
	Annual <sup>c</sup>	9.68 µg/m <sup>3</sup>	Centre	12 µg/m <sup>3</sup>

Source: For NAAQS – USEPA 2013a: <http://www.epa.gov/air/criteria.html>. For monitor values - USEPA 2013b:

<https://www.epa.gov/outdoor-air-quality-data>

<sup>a</sup> Monitored values of pollutants are the high value between 2011 and 2013, obtained from the Air Data Section of USEPA. CO is reported as the second maximum.

<sup>b</sup> Final rule signed June 2, 2010. To attain this standard, the 3-year average of the 99<sup>th</sup> percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 0.075 ppm. The 1971 annual and 24-hour SO<sub>2</sub> standards were revoked June 2, 2010; the 3-hour secondary standard (0.5 ppm) was retained. Averaged over the following years: 2011, 2012 and 2013.

<sup>c</sup> To attain this standard, the 3-year average of the 98<sup>th</sup> percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb (0.1ppm), effective January 22, 2010. Averaged over the following years: 2011, 2012 and 2013.

<sup>d</sup> 4<sup>th</sup> highest daily maximum, averaged over 3 years. In this case, 2011, 2012, and 2013.

<sup>e</sup> The PM<sub>2.5</sub> and PM<sub>10</sub> standards specify an average over 3 years. In this case, 2011, 2012, and 2013 were averaged.

µg/m<sup>3</sup>, micrograms per cubic meter

ppb, parts per billion

ppm, parts per million

Air quality designations for counties included in the Project were originally presented in Appendix 9E of the RR9. The applicable areas for GC analyses are those areas designated as maintenance or non-attainment areas for one or more criteria pollutants which are Lancaster and Lebanon counties. Lancaster and Lebanon counties are located in the South Central Pennsylvania Intrastate Air Quality Control Region. Attainment status determinations for these counties are listed in Table 2.



**TABLE 2: COUNTY AIR QUALITY DESIGNATIONS**

County	Ozone 8-Hour (2008)	Ozone 8-Hour (1997)	Carbon Monoxide	Annual PM <sub>2.5</sub> (2012) <sup>a</sup>	24-Hour PM <sub>2.5</sub> (2006/2012) <sup>b</sup>
Lancaster	Nonattainment (marginal)	Maintenance	Unclassifiable/Attainment	Attainment	Nonattainment (moderate)
Lebanon	Attainment (OTR)	Maintenance	Unclassifiable/Attainment	Nonattainment	Nonattainment

Source: USEPA 2013c

<sup>a</sup> USEPA issued guidance to states and tribes in April 2013 for use in developing designation recommendations by December 13, 2013. USEPA will review the recommendations and revise or concur. Final designations may be in place by August 2014.

<sup>b</sup> USEPA reaffirmed the 2006 24-hour PM<sub>2.5</sub> NAAQS in January 2013 remaining at a concentration value of 35 µg/m<sup>3</sup>, based on the 98th percentile averaged over 3 years.

ATT, attainment

OTR, ozone transport region

MP, mile post

### 1.3. Regulatory Requirements for Air Quality

Most state and federal air quality regulations are directed toward emissions from stationary sources, including New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), and Maximum Achievable Control Technology (MACT) standards. There are no stationary sources for the Project in Lancaster or Lebanon counties. However, mobile sources also contribute to air pollution, and may contribute to non-attainment of the NAAQS. The mobile sources and fugitive emissions associated with the proposed Project construction in Lancaster and Lebanon counties are the subject of this GC analysis.



## 2. GENERAL CONFORMITY AND EMISSION REDUCTION CREDITS

As summarized in Section 3.0 and detailed in Appendix C of this report, Transco estimates 105.4 tons of NO<sub>x</sub> emissions in Lancaster County; exceeding the GC threshold of 100 tons per year (tpy). 40 CFR § 93.158 (incorporated by reference at 25 Pa. Code § 127.802) provides the criteria for determining conformity. One such criterion, found at 40 CFR § 93.158(a)(2), applies to precursors of ozone, NO<sub>2</sub>, or particulate matter (PM), the pollutants at issue for the GC analysis:

*“The total direct and indirect emissions from the action are fully offset within the same nonattainment or maintenance area (or nearby area of equal or higher classification provided the emissions from that area contribute to the violations, or have contributed to violations in the past, in the area with the Federal action) through a revision to the applicable State Implementation Plan (SIP) or a similarly enforceable measure that effects emissions reductions so that there is no net emissions of that pollutant.”*

Emissions can be offset by retiring Emissions Reduction Credits (ERCs) for the pollutants of concern. In a letter from PADEP to FERC dated October 28, 2016, PADEP concurred that “ERCs would be appropriate to mitigate for general conformity and there are sufficient ERCs available.” This letter has been included for reference in Appendix F.

To be used for GC, the source of the ERCs must be “from that area [which] contribute[s] to the violations, or have contributed to violations in the past, in the area with the Federal action.” In other words, the area where the ERCs are generated must be contributing to the exceedances of the NAAQS at the area of the proposed Project.

Transco obtained guidance from both PADEP and USEPA Region 3 regarding acceptable methods to demonstrate that the source of ERCs from Howard County, Maryland contributes to NAAQS exceedances in Lancaster County, either currently or in the past. Using the HYSPLIT model in conjunction with previous air quality modeling performed by the Virginia Department of Environmental Quality, demonstrates that the identified ERC’s contribute at least 1 part per billion (ppb) or more to the ozone pollution concentration in Lancaster County. This methodology and justification for the use of ERC’s from Howard County, MD is described in a memorandum provided to PADEP on December 7, 2016 from Transco’s consultant Environmental Resources Management (ERM). A copy of that memorandum is provided as Appendix E. FERC staff prepared the draft GCD, published November 3, 2016, to demonstrate that the construction activities proposed under the Project conform to the Pennsylvania SIP. The draft GCD has been included in Appendix G as a reference.



### 3. AIR QUALITY IMPACTS

#### 3.1. Construction Emissions

Emissions generated during construction include exhaust emissions from mobile sources, primarily construction equipment, and PM<sub>10</sub> and PM<sub>2.5</sub> in the form of fugitive dust that would result from clearing, grading, excavation, and vehicle traffic on paved and unpaved roadways. While fugitive dust emissions settle quickly over short distances from a construction site, finer particular matter emissions (PM<sub>10</sub> and PM<sub>2.5</sub>) are estimated and included in GC emission analysis, as are all criteria pollutants.

Implementation of Transco's Fugitive Dust Control Plan (FDCP) as outlined in the Environmental Construction Plan (Volume 3), submitted to FERC on March 31, 2015, will ensure the Project-related fugitive dust impacts are temporary and occur within or very near the construction area<sup>3</sup>. Due to the minimization of fugitive dust as a result of the implementation of Transco's FDCP and the distance between construction projects, Transco believes there will be no significant measurable cumulative effects due to fugitive dust. However, to provide a conservative assessment, PM<sub>10</sub> and PM<sub>2.5</sub> emissions have been included in the GC analysis without taking credit for any likely reductions resulting from the implementation of the required FDCP.

Construction of the Project will involve the use of heavy equipment that would generate emissions of pollutants such as CO, PM<sub>10</sub> and PM<sub>2.5</sub>, NO<sub>x</sub>, and greenhouse gases (GHGs). The type and quantity of equipment used will vary from site to site based on the type of facility under construction. Because pipeline construction moves through an area quickly, as detailed in Appendix A, air emissions associated with pipeline construction would be intermittent and short term. The majority of impacts would be further minimized because the construction activities would occur over a large geographical area. Construction schedules are also highly variable and may not directly overlap. Although Project construction activities would result in short-term air emissions, long-term air quality in the region are not expected to be significantly affected.

Appendix A details the construction activity, phasing of the construction process specific to the Project, and emission calculations and assumptions used to develop the construction emission inventory as part of the GC analysis. As noted in Appendix A and C, Transco has consistently made use of conservative emissions to quantify the maximum (though temporary) potential effects of construction activities. Transco's approach to use ERCs to offset the complete, conservatively estimated amount of NO<sub>x</sub> emissions from Lancaster County will present a net benefit to air quality environment in the local area.

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<sup>3</sup>As stated in the DEIS published on 5/5/2016, FERC acknowledges that while "...local residents near the construction work areas may notice elevated fugitive dust levels..." FERC staff has "...reviewed the FDCP and find it acceptable." Section 4.11.1.3 Page 4-206



### **3.2. Operational Emissions**

As described in Section 1.1, the Project has proposed buried pipeline components as well as a small regulator facility in Lancaster County. There are no proposed facilities within Lancaster and Lebanon counties that will have ongoing operational emissions. Therefore, impacts from ongoing operation are not anticipated.



## **APPENDIX A**

### **Construction Emissions Process Description**



## **APPENDIX B**

### **Construction Equipment Type and Usage**



## **APPENDIX C**

### **Construction Data and Detailed Results**



## **APPENDIX D**

### **MOVES 2014 Output Files**



## **APPENDIX E**

### **Justification for the Use of ERCs from Howard County, Maryland**



## **APPENDIX F**

**ERC Letter from PADEP to FERC Dated October 28, 2016**



## **APPENDIX G**

### **FERC Draft General Conformity Determination**



## **APPENDIX H**

### **SP-2888 RG Product Data Sheet**



## **APPENDIX I**

### **Land Use Acreage Affected by Project**



## TABLE OF CONTENTS

<b>1. Introduction.....</b>	<b>4</b>
<b>2. Construction Equipment and Vehicles Analysis Methods and Data.....</b>	<b>5</b>
<b>3. Construction Emissions Sample Calculations .....</b>	<b>6</b>
3.1. Fugitive Dust (Particulate) Emissions .....	6
3.1.1. Site Grading, Excavation and Filling .....	6
3.1.2. Paved Roads (Commuter and Delivery Vehicles) .....	9
3.1.3. Unpaved Roads (Construction Equipment) .....	10
3.1.4. Sandblasting .....	12
3.1.5. Welding Emissions .....	13
3.1.6. Highway Site-Drag Out.....	15
3.1.7. VOC Emissions from Coating Processes.....	15
3.1.8. ROW Maintenance .....	15
3.2. On-Road Emission Sources and Calculations .....	15
3.2.1. Activity Factors.....	15
3.2.2. On-Road Emission Factors .....	17
3.2.3. Example On-Road Emission Calculation .....	21
3.3. Construction Equipment Exhaust Emissions.....	21
3.3.1. Activity Factors.....	22
3.3.2. Non-Road Emission Factors .....	25
3.3.3. Example Non-Road Emission Calculation .....	31



## LIST OF EQUATIONS

Equation 1:.....	7
Equation 1:.....	7
Equation 2:.....	7
Equation 3:.....	8
Equation 4:.....	9
Equation 4:.....	10
Equation 5:.....	10
Equation 6:.....	11
Equation 6:.....	11
Equation 7:.....	11
Equation 8:.....	12
Equation 8:.....	12
Equation 9:.....	12
Equation 10:.....	21
Equation 10:.....	21
Equation 11:.....	31
Equation 11:.....	31



## LIST OF TABLES

Table 1: Annual Average Wind Speeds: Harrisburg, PA (2012-2015).....	8
Table 2: On-Road Commuter Vehicle Miles Traveled.....	9
Table 3: On-Road Commuter Vehicle Weights .....	10
Table 4: Construction Equipment Weight.....	11
Table 5: PM <sub>10</sub> Emissions from Welding Activities .....	14
Table 6: CPLS Spread 5_6 On-Road Equipment .....	16
Table 7: Construction Spread 6_7 On-Road Equipment .....	16
Table 8: River Road Regulator Station On-Road Equipment.....	16
Table 9: On-Road MOVES2014 Emission Factors .....	20
Table 10: CPLS Spread 5_6 Construction Equipment .....	23
Table 11: CPLS Spread 6_7 Construction Equipment .....	24
Table 12: River Road Regulator Station Construction Equipment.....	25
Table 13: Non-Road MOVES2014 Emission Factors.....	29



## 1. INTRODUCTION

This document describes the approach to calculating the air emissions from the construction activities for the proposed Atlantic Sunrise Pipeline Project (Project). An equipment and personnel inventory was estimated based on experience with projects of a similar size and input from the pipeline construction contractor. Utilizing the equipment and personnel inventory, a pollutant emission inventory was prepared to evaluate the construction activities associated with the proposed Project in support of the Atlantic Sunrise Project Environmental Impact Statement (EIS). For a detailed list of construction equipment type and usage please refer to Appendix B of the Air Quality Technical Report. Emissions of VOC, NO<sub>x</sub>, CO, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> were assessed to evaluate Project-related impacts for the EIS. VOC, NO<sub>x</sub>, PM<sub>2.5</sub> and SO<sub>2</sub> emissions were also assessed to address the requirements of the General Conformity Rule.

Constructions emissions were calculated for the individual components of the proposed Project, including compressor stations, pipelines, pipeline loops, meter stations, and regulator stations. The categories include emissions from on-site (off-road) construction equipment, construction equipment and commuter vehicles traveling on the regional roadways (on-road), construction equipment exhaust, and fugitive emissions from site clearing and excavation. Construction activities are currently scheduled to take place in 2017.

This document has been prepared for the Pennsylvania Department of Environmental Protection (PADEP) to further explain the information relied upon by the Federal Energy Regulatory Commission (FERC) in its draft General Conformity Determination (GCD), and to assist PADEP with its review of FERC's draft GCD. At the PADEP's request, a Lebanon and Lancaster county-specific emission evaluation was performed. The process and results of this evaluation are presented here.



## 2. CONSTRUCTION EQUIPMENT AND VEHICLES ANALYSIS METHODS AND DATA

Emissions from several categories of construction activities were evaluated, including emissions from on-site (off-road) construction equipment (pavers, excavators, graders, etc.); haul vehicles (dump trucks, etc.); construction worker vehicles commuting to and from the site; construction equipment exhaust (equipment fuel); and fugitives from site earth working activities. The details of the emissions calculation methodology were originally provided to FERC as part of the March 2015 Certificate Application.

Emission factors for on-site construction equipment were calculated using the EPA MOVES2014<sup>1</sup> model populated with regionally specific equipment data. The equipment data applied included model year distribution, horsepower ratings, load factors, usage activity, and equipment-specific emission rates, taken from the model's database. For the off-road equipment SO<sub>2</sub> and particulate matter emission factors, a diesel sulfur content of 15 parts per million (ultra-low sulfur diesel fuel) was assumed, based on EPA regulations for sulfur-in-fuel effective June 2010.

Emission factors for on-road trucks and employee personal vehicles were also calculated with the EPA MOVES2014 model using motor vehicle data specific to the region and other default inputs. All equipment and trucks were conservatively assumed to be diesel fueled. Employee and contractor personal vehicles were assumed to be gasoline-fueled.

Input data describing the various individual construction activities are provided in the emission calculation tables in Appendix C of the Air Quality Technical Report. Construction equipment and vehicle usage was developed in a format that represents a work schedule of one 10-hour shift per day, 6 days per week, except as noted in the tables<sup>2</sup>. The construction activity tables also contain the emission factors and emission rates used in the analysis. Example calculations for each category of construction activity are provided below.

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<sup>1</sup> MOVES2014 was the current version of MOVES at the time of Emission Factor generation used in support of the certificate application submitted to FERC on March 31, 2015. Regional emission factors for the entirety of the Atlantic Sunrise Project were used in the initial evaluation. Transco has evaluated emission factors generated by the more recent version MOVES2014a (initially released November 2015; most recently updated December 2016), which was released subsequent to Transco's CPCN application, specific for Lebanon and Lancaster County. The emission factors generated by MOVES2014a are less conservative (i.e., lower) than those from MOVES2014. Therefore, Transco has decided to continue with the more conservative MOVES2014 emission factors.

<sup>2</sup> Where information was available, estimated hours of engine operation was utilized. Example: 7 daily hours of Dozer operation noted in Section 3.1.1.



### 3. CONSTRUCTION EMISSIONS SAMPLE CALCULATIONS

The following sections describe the equations utilized to estimate construction emissions performed as part of Transco's original application to FERC, as well as those included in the GC analysis for Lancaster and Lebanon counties. An example calculation for one equipment type for each equation is given. Note that some equations are utilized for more than one equipment type.

#### 3.1. Fugitive Dust (Particulate) Emissions

Fugitive dust emissions were calculated for five processes:

1. site grading, excavation and filling,
2. commuter and delivery trucks travel on paved roads,
3. construction equipment travel on unpaved roads,
4. sandblasting activities,
5. and welding activities.

Fugitive dust emissions from highway site drag out, VOC emissions from coating, and right-of-way (ROW) maintenance were determined to be insignificant and will be discussed in more detail in section 3.1.6-8. Determining the silt and moisture content of the soil being disturbed is important when estimating fugitive dust emissions. As part of the initial estimation process, Transco utilized silt and moisture content values from AP-42<sup>3</sup> Table 11.9-3 for overburden. Values from AP-42 Section 11.9 were determined for soil in the western portions of the United States. At the request of PADEP, a silt content of 52% was used during the calculation process. The 52% silt content corresponds to the 52% silt content for Silt Loam Soil Type identified in Table 5-5 in the "Estimating Particulate Matter Emissions from Construction Operations" report by Eastern Research Group, Inc.

##### 3.1.1. Site Grading, Excavation and Filling

Fugitive dust emissions from site grading, excavation, and filling activities are a result of the clearing of the pipeline ROW; as well as the digging and filling of the pipe trench. To calculate particulate emission, the estimation processes from AP-42 Sections 13.2.4 and 11.9 were applied. AP-42 Section 13.2.4 (Aggregate Handling and Storage Piles) estimates particulate emissions based on the total earth moved. AP-42 Section 11.9 (Western Surface Coal Mining) estimates particulate emissions based on the total hours of dozer operation devoted to earth material handling. Combining the estimation techniques from AP-42 Sections 13.2.4 and 11.9 into a single equation results in:

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<sup>3</sup> AP-42, *Compilation of Air Pollutant Emission Factors*, has been published since 1972 as the primary compilation of EPA's emission factor information. It contains emission factors and process information for more than 200 air pollution source categories. A source category is a specific industry sector or group of similar emitting sources. The emission factors have been developed and compiled from source test data, material balance studies, and engineering estimates.



## EQUATION 1:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_{MH} * \text{Tons Earth Moved}}{2000 \frac{lb}{ton}} + \frac{EF_D * \text{Dozer Hours of Operation}}{2000 \frac{lb}{ton}}$$

In Equation 1,  $EF_{MH}$  equates to the materials handling emission factor outlined in AP-42 Section 13.2.4. Tons earth moved equals the estimated tons of earth disturbed as part of the Project. This includes both the estimated acres disturbed during the clearing of the ROW and the volume of earth excavated to dig the pipeline trench.  $EF_D$  equates to the fugitives from dozer operation emission factor outlined in AP-42 Section 11.9. Dozer hours of operation equals the estimated hours of operation for all dozers.

The total estimated acres disturbed in each county as part of the Project, originally provided with the certificate application, is provided as Appendix I of this report. The estimated hours of operation for all dozers is calculated by multiplying the quantity of dozers by the estimated daily work hours by the total days of the project. It is assumed that all dozers operate for 7 hours a day, 6 days a week, for the entirety of the Project. An example of the calculations performed in Appendix C is provided below.

From Transco General Conformity Calculations in Appendix C;  $PM_{2.5}$  emissions from site grading, excavation, and filling for CPLS 6\_7<sup>4</sup> are estimated as follows:

## EQUATION 1:

$$PM_{2.5} \text{ Emissions} = \frac{1.16E-05 \frac{lb}{ton} * 2,000,266 (tons)}{2000 \frac{lb}{ton}} + \frac{1.75 \frac{lb}{hr} * 40,950 hrs}{2000 \frac{lb}{ton}} = 35.9 tons$$

Where:

## EQUATION 2:

$$EF_{MH} = k(0.0032) * \frac{\left(\frac{U}{5}\right)^{1.3}}{\left(\frac{M}{2}\right)^{1.4}} = 0.35(0.0032) * \frac{\left(\frac{6.3 mph}{5}\right)^{1.3}}{\left(\frac{16.8\%}{2}\right)^{1.4}} = 1.16E-05 \frac{lb}{ton}$$

<sup>4</sup> Construction Spread 6\_7 equates to 37.1 miles and 12.3 miles of greenfield pipeline in Lancaster and Lebanon Counties respectively.



In Equation 2 for the materials handling emission factor, U = mean wind speed (mph); calculated by averaging the 2012-2015 mean annual wind speeds for Harrisburg, PA obtained from NWS Annual Climate reports.

**TABLE 1: ANNUAL AVERAGE WIND SPEEDS: HARRISBURG, PA (2012-2015)**

Year	Annual Average Wind Speed (mph)
2015	6.5
2014	6.7
2013	6.1
2012	5.9
Average	6.3

Source: National Weather Service - State College, PA: <http://w2.weather.gov/climate/index.php?wfo=ctp>

In Equation 2 for the materials handling emission factor, M = material moisture content (%); from AP-42 Table 11.9-2. Tons earth moved equals the sum of the acreage disturbed by the clearing of the ROW, taken from Land Use Tables<sup>5</sup>, provided as Appendix I, and the volume of earth excavated to place the pipeline underground. To convert acreage into tonnage of earth, the acreage is multiplied by the average depth disturbed<sup>6</sup>, then converted to cubic yards. Transco estimates that the size of the pipeline trench will approximately be 8 feet deep, with a 5-foot width at the bottom and a 14-foot width at the top. Using this estimation and the equation for the area of a trapezoid, this equates to a 76 square foot cross section. Multiplying the trapezoidal area of the cross section by the length of the pipeline spread equates to the volume of earth excavated. Finally, after summing the volume of earth disturbed in the clearing of the ROW and volume of earth excavated to put the pipeline underground, multiplying by the density of the soil<sup>7</sup> equates to tons of earth disturbed.

**EQUATION 3:**

$$EF_D = 0.105 * \frac{1.0 * S^{1.5}}{M^{1.4}} = 0.75 * \frac{1.0 * 52\%^{1.5}}{16.8\%^{1.4}} = 1.75 \frac{lb}{hr}$$

In Equation 3, S = surface material silt content (%) from Table 5-5 in the “Estimating Particulate Matter Emissions from Construction Operations” and M = material moisture content (%) from AP-42 Table 11.9-2.

<sup>5</sup> Appendix I provides acreage of land affected by County. All of the acreage disturbed in Lancaster County is applied to Spread 6\_7. The percent of pipeline in Lebanon County belonging to Spread 6\_7 was multiplied by the total acres affected in Lebanon County and applied to the Spread 6\_7 total. Spread 5\_6 continues beyond Lebanon County. To calculate the Spread 5\_6 acres affected, the Spread 6\_7 total acres was multiplied by the ratio of Spread 5\_6 length to Spread 6\_7 pipeline length. To convert to tons, the total acreage is multiplied by the average depth of disturbance, converted to cubic yards, multiplied by the density of the soil and finally converted to tons. Example: 596 acres affected CPLS 6\_7 x 1 ft x 1613.33 cubic yards per acre-ft x 2,360 lb/cubic yard of soil x 1/2000 lb/ton = 1,133,810 tons.

<sup>6</sup> Estimated to be 1 foot.

<sup>7</sup> The Soils of Pennsylvania, Table 1.1-2



### 3.1.2. Paved Roads (Commuter and Delivery Vehicles)

Fugitive dust emissions from commuter and delivery vehicle traffic are a result of worker, contractor, and delivery truck travel on regional paved roads to and from the construction site. Particulate emissions from paved roads are due to direct emissions from vehicles in the form of exhaust, brake wear and tire wear emissions, and resuspension of loose material on the road surface. To calculate particulate emissions the estimation process from AP-42 Section 13.2.1 was applied. AP-42 Section 13.2.1 (Paved Road) estimates particulate emissions based on the total vehicle miles traveled. The resultant equation is:

#### EQUATION 4:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_p * \text{Total Commuter VMT}}{2000 \frac{lb}{ton}}$$

In Equation 4,  $EF_p$  = Paved Roads Emission Factor (AP-42 Section 13.2.1.3) and total commuter VMT (total vehicle miles traveled). VMT equals the estimated miles of travel on paved roads by worker's personal vehicles, company trucks, contractor heavy duty trucks, and contractor trucks. For CPLS Spread 6\_7, the VMT is estimated as:

**TABLE 2: ON-ROAD COMMUTER VEHICLE MILES TRAVELED**

Vehicle Description	Quantity	Average Round Trip (mi)	Days per Week	Weeks per Project	Days per Project	Total Miles
Worker Commute Vehicle	95	45.6	6	37.5	225	935,715
Company Trucks	20	91				393,984
Contractor HD Trucks	3	91				59,098
Contractor Trucks	40	91				787,968

From Transco General Conformity Calculations in Appendix C,  $PM_{2.5}$  emissions from vehicle travel on Paved Roads for CPLS 6\_7 are estimated as follows:



## EQUATION 4:

$$PM_{2.5} \text{ Emissions} = \frac{0.005 \frac{lb}{VMT} * 2,267,460 \text{ Total VMT}}{2000 \frac{lb}{ton}} = 5.6 \text{ tons}$$

Where:

## EQUATION 5:

$$EF_p = k(sL)^{0.91} * W^{1.02} = 0.00054(2.4)^{0.91} * (4.04)^{1.02} = 0.005 \frac{lb}{VMT}$$

In Equation 5, K = particle size multiplier taken from AP-42 Table 13.2.1-1; sL = road surface silt loading (g/m<sup>2</sup>) from AP-42 Table 13.2.1-2; and W = average weight (tons) of the vehicles traveling the road. For CPLS Spread 6\_7, W is estimated to be 4.04 tons as shown in Table 3.

TABLE 3: ON-ROAD COMMUTER VEHICLE WEIGHTS

Vehicle Description	Quantity	Weight (tons)	Assumption
Worker Commute Vehicle	95	3	SUV
Company Trucks	20	2	Class 1 Light Duty
Contractor HD Trucks	3	8	Class 5
Contractor Trucks	40	7.25	Class 4: 4x4 Pickup
Average	-	4.04	

### 3.1.3. Unpaved Roads (Construction Equipment)

Fugitive dust emissions from equipment while on site are the result of equipment movement while on unpaved portions of the construction area. When a vehicle travels an unpaved road, the force of the wheels on the road surface causes pulverization of surface material. Particles are lifted and dropped from the rolling wheels, and the road surface is exposed to strong air currents in turbulent shear with the surface. The turbulent wake behind the vehicle continues to act on the road surface after the vehicle has passed. To calculate particulate emissions, the estimation process from AP-42 Section 13.2.2 was applied. AP-42 Section 13.2.2 (Unpaved Road) estimates particulate emissions based on the VMT. The resultant equation is:



## EQUATION 6:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_{UP} * \text{Total Construction VMT}}{2000 \frac{lb}{ton}}$$

In Equation 6,  $EF_{UP}$  = Unpaved Roads Emission Factor outlined in AP-42 Section 13.2.2.1 and Total Construction VMT = estimated miles of travel on unpaved roads by construction equipment<sup>8</sup> (dozers, backhoes, graders, etc.).

From Transco General Conformity Calculations in Appendix C;  $PM_{2.5}$  emissions from equipment travel on Unpaved Roads for CPLS 6\_7 are estimated as follows:

## EQUATION 6:

$$PM_{2.5} \text{ Emissions} = \frac{1.61 \frac{lb}{VMT} * 9,900 \text{ Total VMT}}{2000 \frac{lb}{ton}} = 8.0 \text{ tons}$$

Where:

## EQUATION 7:

$$EF_{UP} = k \left( \frac{s}{12} \right)^a * \left( \frac{W}{3} \right)^b = .15 \left( \frac{52\%}{12} \right)^{0.9} * \left( \frac{31.3 \text{ tons}}{3} \right)^{0.45} = 1.61 \frac{lb}{VMT}$$

In Equation 7, k = particle size multiplier from AP-42 Table 13.2.2-2; s = surface material silt content (%) from Table 5-5 in the “Estimating Particulate Matter Emissions from Construction Operations”; a taken as directed from AP-42 Table 13.2.2-2, b taken as directed from AP-42 Table 13.2.2-2; and W = mean vehicle weight (tons).

TABLE 4: CONSTRUCTION EQUIPMENT WEIGHT

Equipment Type	Quantity	Weight (tons)
Dozers	26	14.7
Excavator	31	37.5
Side Boom	20	53.4

<sup>8</sup> Construction equipment is assumed to travel one half mile per day.



Crawler	9	11.0
Loader	1	23.8
Motor Grader	1	13.9
HDD Rig	1	50.5
Average	-	31.3

### 3.1.4. Sandblasting

Fugitive dust emissions from sandblasting activities are the result of preparing the pipe for the coating process. To calculate particulate emissions, the estimation process from AP-42 Section 13.2.6 was applied. AP-42 Section 13.2.6 (Abrasive Blasting) provides emission factors for particulates that calculate emissions based on pounds of abrasive utilized in the process.

#### EQUATION 8:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_{SB} * \text{Pounds of Abrasive Used}}{2000 \frac{lb}{ton}}$$

In Equation 8,  $EF_{SB}$  = Sandblasting Emission Factor (AP-42 Table 13.2.6) and Pounds of Abrasive Used = estimated total of abrasive used during sandblasting activities. From Transco General Conformity Calculations in Appendix C,  $PM_{2.5}$  emissions from sandblasting activities for CPLS 6\_7 are estimated as follows:

#### EQUATION 8:

$$PM_{2.5} \text{ Emissions} = \frac{1.3 \frac{lb}{1000 lb \text{ abrasive}} * 10.4 \text{ 1,000 lbs of abrasive}}{2000 \frac{lb}{ton}} = 0.01 \text{ tons}$$

In Equation 8, to estimate the total amount of abrasive used for sandblasting activities, Transco estimates that 2 lbs of abrasive will be used per girth weld of pipe. The average joint length of the pipeline between girth welds is 50 feet. To calculate the number of girth welds per pipeline segment, the length of pipeline is divided by 50 ft. Equation 9 shows the calculation for determining the amount of abrasive used.

#### EQUATION 9:



$$\begin{aligned}
 1,000 \text{ lbs of abrasive} &= \frac{\frac{\text{Length of Pipeline}}{\text{Average joint length of pipeline}} * 2 \text{ lbs of abrasive per girth weld}}{1,000 \frac{\text{lb}}{1,000 \text{ lb}}} \\
 &= \frac{\frac{49.4 \text{ miles} * 5,280 \frac{\text{feet}}{\text{mile}}}{50 \text{ feet}} * 2 \text{ lbs of abrasive per joint}}{1,000 \frac{\text{lb}}{1,000 \text{ lb}}} = 10.4 \text{ 1,000 lbs}
 \end{aligned}$$

### 3.1.5. *Welding Emissions*

PM<sub>10</sub> emissions from welding activities have been estimated utilizing the process outlined in AP-42 Section 12.19 (Electric Arc Welding). The use of both mechanized welding rigs (GMAW process) for the mainline production and stick welding process (SMAW) for tie-ins is planned. Table 5 shows the estimation for PM<sub>10</sub> emissions from welding activities.



TABLE 5: PM<sub>10</sub> EMISSIONS FROM WELDING ACTIVITIES

Electrode Consumption Rate			
Welding component	Rate	Unit	
Welding electrode (E70S) consumption per joint - 0.740" wall thickness	6.5	lb	
Welding electrode (E70S) consumption per joint - 0.888" wall thickness	7.5	lb	
Welding electrode (E6010) consumption per joint - 0.740" wall thickness	16.7	lb	
Welding electrode (E6010) consumption per joint - 0.888" wall thickness	22.5	lb	
Electrode Emission Factors			
Welding component	Factor	Unit	Source
Emissions factor for GMAW E70S electrode	0.0052	lb/lb	AP-42 Table 12.19-1
Emissions factor for SMAW E6010 electrode	0.0256	lb/lb	AP-42 Table 12.19-1
Average joint length of pipe	55	feet	Transco Estimate
Calculations			
Component	Value	Unit	
Lancaster County			
Footage of 42" 0.740" w.t.	178,269	feet	
Footage of 42" 0.888" w.t.	17,248	feet	
Assumed ratio of GMAW/SMAW welds	80/20		
Percentage of GMAW welds	80%		
Percentage of SMAW welds	20%		
Lebanon County			
Footage of 42" 0.740" w.t.	138,130	feet	
Footage of 42" 0.888" w.t.	11,319	feet	
Assumed ratio of GMAW/SMAW welds	75/25		
Percentage of GMAW welds	75%		
Percentage of SMAW welds	25%		
Calculation Formulas			
GMAW Emissions =	(Footage/ Average Joint Length)*% welds*electrode consumption*0.0052		
SMAW Emissions =	(Footage/ Average Joint Length)*% welds*electrode consumption*0.0256		
Lancaster County			
GMAW Emissions =	97.4	lbs	
SMAW Emissions =	313.3	lbs	
	0.21	Total (tons)	
Lebanon County			
GMAW Emissions =	69.7	lbs	
SMAW Emissions =	298.1	lbs	
	0.18	Total (tons)	



### **3.1.6. Highway Site-Drag Out**

Emissions from highway site drag-out have been determined to be insignificant. AP-42 chapter 13.2.1 states

*“To adjust the baseline silt loadings for mud/dirt trackout, the number of trackout points is required. It is recommended that in calculating PM<sub>10</sub> emissions, six additional miles of road be added for each active trackout point from an active construction site, to the paved road mileage of the specified category within the county. In calculating PM<sub>2.5</sub> emissions, it is recommended that three additional miles of road be added for each trackout point from an active construction site.”*

Even assuming multiple drag-out sites per pipeline segment, Transco is already accounting for greater than 2 million miles of paved road travel per Construction Spread thereby making the addition of highway site drag-out miles inconsequential.

### **3.1.7. VOC Emissions from Coating Processes**

The surface coating utilized does not contain any VOC's. Please refer to the product data sheet for SP-2888 RG in Appendix H.

### **3.1.8. ROW Maintenance**

Emissions from ROW maintenance (mowing, etc.) are determined to be insignificant. Mowing of the ROW is an infrequent and short-duration activity.

## **3.2. On-Road Emission Sources and Calculations**

Emissions associated with on-road vehicle traffic arriving and departing from the construction sites are estimated as part of the calculation process. Emissions from worker commuter vehicles, company trucks, contractor HD trucks and contractor trucks are estimated. On-road exhaust emissions are calculated by multiplying the total vehicle miles traveled by a developed emission factor using the EPA MOVES2014 model. All equipment and trucks were conservatively assumed to be diesel fueled. Employee and contractor personal vehicles were assumed to be gasoline-fueled. For reference the MOVES2014 outputs have been included in Appendix D. The sample equation shown in section 3.1.3 is consistent for the four vehicle types identified above.

### **3.2.1. Activity Factors**

On-road activity factors are based on phasing and construction information provided by the Transco project team, and, when available, Transco's construction contractors. Based on the nature of the Project and timing of the FERC process, equipment listings and usage included in the original RR9 submittal are based on Transco's experience with similarly sized projects.

At the request of PADEP, the CPL South Spreads 5\_6 and 6\_7 construction subprojects have been broken out by county so, therefore, are presented differently here than in the RR9. In this exercise, updated on-road vehicle listings and usages (related to construction) are utilized as provided by the pipeline construction contractor recently identified by Transco. The



construction equipment listings and usages for the River Road Regulator Station continue to be based on Transco's knowledge and experience with similar types of projects as the contractor for that scope of work has not yet been identified. Please note that presenting the information in this manner (at the request of PADEP) results in slightly different emission totals than will be found in the RR9. However, this does not result in differences that would be material to the general conformity thresholds and does not change the resulting determination.

Tables 6, 7, and 8 provide on-road equipment listings, includes the information provided by Transco and updated by the construction contractor. The type of vehicle category included in the inventory and the number of each type of vehicle anticipated in use on any given day are shown in the tables. The round trip mileage<sup>9</sup> was provided by Transco's construction contractor based on the average distance driven for the Project per day. Miles for Project (also known as vehicle-miles-traveled, or VMT) is the multiplication of quantity, average round trip and total days of the Project as provided by Transco.

**TABLE 6: CPLS SPREAD 5\_6 ON-ROAD EQUIPMENT**

Description	Quantity	Round Trip (mi)	Miles for Project (mi)
Worker Commuter Vehicles	95	45.6	974,700
Company Trucks	20	91.2	410,400
Contractor HD Trucks	3	91.2	61,560
Contractor Trucks	40	91.2	820,800

**TABLE 7: CONSTRUCTION SPREAD 6\_7 ON-ROAD EQUIPMENT**

Description	Quantity	Round Trip (mi)	Miles for Project (mi)
Worker Commuter Vehicles	95	45.6	974,700
Company Trucks	20	91.2	410,400
Contractor HD Trucks	3	91.2	61,560
Contractor Trucks	40	91.2	820,800

**TABLE 8: RIVER ROAD REGULATOR STATION ON-ROAD EQUIPMENT**

Description	Quantity	Round Trip (mi)	Miles for Project (mi)
Worker Commuter Vehicles	8	40	30,720
Company Trucks	5	100	48,000
Contractor HD Trucks	1	100	9,600
Contractor Trucks	5	100	48,000

<sup>9</sup> Round Trip distance is the estimated average distance traveled daily by a single vehicle for each vehicle category.



### 3.2.2. *On-Road Emission Factors*

What was previously called MOBILE (version 6.2) has been incorporated into the MOVES emission factor model and further updated with additional calculations and local (state) information.

The MOVES2014 (MOVES) emission model was originally used in late 2014 and early 2015 to develop the emission factors for the entire Project. One set of emission factors for the entire Project was determined to be appropriate as the variation in on road emission factors (on a g/mile basis) varied by less than 1% when sampled via test MOVES model runs for comparison. Since the initial development of the emission factors, the MOVES model has been updated so current model runs may produce slightly different results. However, based on data sampling of MOVES2014a runs, the resulting emission factors with the newer versions of MOVES are small (less than 1%) and do not materially affect the general conformity determination.

The following summarizes MOVES inputs used for developing the on-road vehicles (associated with construction) emission factor data sets provided in Appendix D of the Air Quality Technical Report:

- Description (optional): ASR Construction EF On-road
- Scale:
  - Model: Onroad
  - Domain/Scale: National
  - Calculation type: Inventory (needed for use in developing emission factors within MOVES2014)
- Time Spans
  - Time Aggregation Level: Month
  - Select year: 2016
  - Days: Workday and Weekday (both selected)
  - Months: June and December (summer and winter used to confirm most conservative emission factor used for annual basis)
  - Hours: All
- Geographic Boundaries
  - Region: County
  - Pennsylvania – Lycoming County (selected and used for final version)
- Vehicles/Equipment: On Road Vehicles
  - 4 fuel/source type combinations selected:
    - Diesel Fuel – Passenger Car



- Diesel Fuel – Light Commercial Truck
- Diesel Fuel – Combination Long-haul Truck
- Diesel Fuel – Combination Short-haul Truck
- Road Type: Selected types
  - Rural Unrestricted
  - Rural Restricted
  - Urban Unrestricted
  - Urban Restricted
- Pollutants and Processes
  - All available pollutants and processes selected including (but not limited to)
    - Total Gaseous Hydrocarbons (all process)
    - VOCs
    - CO
    - NO<sub>x</sub>
    - NH<sub>3</sub>
    - Primary Exhaust PM<sub>2.5</sub>
    - Primary Exhaust PM<sub>10</sub>
    - SO<sub>2</sub>
    - Atmospheric CO<sub>2</sub>
- Managed Input Data Sets: Not selected
- Strategies: Rate of Progress: Not selected
- Output
  - General Output:
    - Server – none used
    - Database: ASRLco\_out
    - Units: Grams, MMBtu, Miles
  - Output Emissions: all defaults used.
- Advanced Performance: None appropriate, or selected.

MOVES results include emission factor values for a range of time frames, both weekend and weekday values as well as summer and winter values. As noted, emission factors for mobile emission sources (on-road and off-road/non-road) vary based on temperature and external conditions, so seasonal variations (and temperature changes) will slightly impact the emission



factors generated by MOVES. For each piece of equipment, the most conservative emission factor modeled (winter vs summer, and weekday vs weekend) was selected for use in the emission calculations on a pollutant-by-pollutant basis. While the variability within emission factors generally represented a less than 1% difference across all options, the additional level of conservatism was included to provide the maximum potential emissions in the inventory.

Table 9 documents the MOVES emissions factors utilized in this analysis. “MOVES Eq Type” notes the selected MOVES equipment type to represent the specific equipment listed by Transco.



TABLE 9: ON-ROAD MOVES2014 EMISSION FACTORS

Description	MOVES Equipment Type	On-Road MOVES Emission Factors (gram/mile)												
		HC	CO	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	CO <sub>2</sub>	1,3-Butadiene	Acetaldehyde	Acrolein	Benzene	Formaldehyde	MBTE
Worker Commuter Vehicles	Passenger Car	0.32	7.82	0.43	0.025	0.011	0.01	456.4	1.31E-04	5.90E-04	3.47E-05	2.88E-03	7.33E-04	0
Company Trucks	Light Commercial Truck	0.6	6.8	0.50	0.025	0.011	0.01	1,760	3.94E-04	1.08E-0	7.39E-04	4.72E-03	1.51E-03	0
Delivery Trucks	Combination Short-haul Truck	0.4	1.3	1.0	0.07	0.07	0.0032	2,000	8.43E-04	1.22E-02	2.18E-03	2.62E-03	2.90E-03	0
Contractor Trucks	Light Commercial Truck	0.6	6.8	0.50	0.025	0.011	0.01	1,760	3.94E-04	1.08E-0	7.39E-04	4.72E-03	1.51E-03	0



### 3.2.3. Example On-Road Emission Calculation

On-road exhaust emissions are calculated by multiplying the total vehicle miles traveled by the emission factor generated by EPA MOVES2014. For reference, the MOVES2014 outputs have been included in Appendix D.

EQUATION 10:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_{OR} * \text{Total VMT}}{907,185 \frac{\text{gram}}{\text{ton}}}$$

For Equation 10,  $EF_{OR}$  = On-Road Emission Factor generated using EPA MOVES2014 and Total VMT = Total Vehicle Miles Traveled per vehicle type. Total vehicle miles traveled per day is calculated by taking the quantity of vehicle type estimated to be in use for the Project and multiplying it by the estimated round trip distance of that vehicle. To calculate total vehicle miles traveled by vehicle type for the Project, total vehicle miles traveled per day is multiplied by the anticipated length of time to complete the Project.

From Transco General Conformity Calculations in Appendix C;  $PM_{2.5}$  emissions from worker commuter On-Road travel for CPLS 6\_7 is estimated as follows:

EQUATION 10:

$$PM_{2.5} \text{ Emissions} = \frac{0.01 \frac{\text{gram}}{\text{mile}} * 974,700 \text{ miles}}{907,185 \frac{\text{gram}}{\text{ton}}} = 0.01 \text{ tons}$$

For Equation 10, 0.01 gram/mile is the emission factor generated by EPA MOVES2014 and 974,700 miles is the estimated total miles of worker commuter vehicle travel for the Project.

### 3.3. Construction Equipment Exhaust Emissions

Emissions associated with construction equipment exhaust are estimated as part of the calculation process. Construction Equipment Exhaust emissions are calculated by multiplying the total equipment work hours by a developed emission factor utilizing the EPA MOVES2014 model. Emission factors for on-site construction equipment were calculated using the EPA MOVES2014<sup>10</sup> model populated with regionally specific equipment data. The equipment data

<sup>10</sup> MOVES2014 was the current version of MOVES at the time of Emission Factor generation used in support of the CPCN application submitted to FERC on March 31, 2015. Regional emission factors for the entirety of the Atlantic Sunrise Project were used in the initial evaluation. Transco has evaluated emission factors generated by the more recent version MOVES2014a, which was released subsequent to Transco's CPCN application, specific for Lebanon and Lancaster County. The emission factors



applied included model year distribution, horsepower ratings, load factors, usage activity, and equipment-specific emission rates taken from the model's database. For off-road equipment, SO<sub>2</sub> and particulate matter emission factors, a diesel sulfur content of 15 parts per million (ultra-low sulfur diesel fuel) was assumed, based on EPA regulations for sulfur-in-fuel effective June 2010. For reference, the MOVES2014 outputs have been included in Appendix D of the Air Quality Technical Report.

Construction equipment and vehicle usage was based on a work schedule of one 10-hour shift per day, 6 days per week, unless otherwise noted in the tables. The construction activity tables contain the emission factors and emission rates used in the analysis. An example calculation for a Cat 6 Dozer is provided below in Section 3.3.3. It should be noted that the calculation process is identical for all emissions related to construction equipment exhaust.

### **3.3.1. Activity Factors**

Non-road exhaust emissions are based on phasing and construction information provided by the Transco Project team, and where available, Transco's construction contractors. Based on the nature of the Project and timing of the FERC process, equipment listings and usage included in the original RR9 submittal are based on Transco's experience with similarly sized projects.

At the request of PADEP, the CPL South Spreads 5\_6 and 6\_7 construction subprojects have been broken out by county so, therefore, are presented differently here than in the RR9. In this exercise, updated construction equipment listings and usages are utilized as provided by the pipeline construction contractor recently contracted by Transco. The construction equipment listings and usages for the River Road Regulator Station continue to be based on Transco's knowledge and experience with similar types of projects as the contractor for that scope of work has not yet been identified. Please note that presenting the information in this manner (at the request of PADEP) results in slightly different emission totals than what is presented in the RR9. However, this does not result in differences that would be material to the general conformity thresholds and does not change the resulting determination.

Tables 10, 11, and 12 provide non-road equipment listings, and includes the information provided by Transco and updated by the construction contractor. The type of equipment included in the inventory and the number of each equipment anticipated in use on any given day are shown.

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generated by MOVES2014a are less conservative (i.e., lower) than those from MOVES2014. Therefore, Transco has decided to continue with the more conservative MOVES2014 emission factors.



TABLE 10: CPLS SPREAD 5\_6 CONSTRUCTION EQUIPMENT

Description	Quantity <sup>11</sup>	Average Hours Per Day	Days of Operation <sup>12</sup>	Total Work Hours for Project
Cat D6 Dozer	4	7	225	6,650
Cat D6 Wide Pad	4	7	225	6,300
Cat D7 Dozer	14	7	225	21,700
Cat D8 Dozer	8	7	225	12,075
Cat 320/225	1	7	225	1,575
Cat 336	11	7	225	17,850
Cat 330 – Longstick	1	7	225	875
John Henry Drill	2	7	225	2,625
Cat 349	19	7	225	30,100
Rubber Tire Hoe	5	7	225	8,400
Cat 583/PL83	7	4	225	6,300
Cat 594/PL87 Sideboom	13	4	225	12,000
Mechanized Tack Rig	8	7	225	12,250
Tack Rig (Panther Type)	1	7	225	875
Fork Lift (Rental)	1	5	225	1,125
Cat 140G Grader (Rental)	1	5	225	875
Cat 977 Loader	1	5	225	1,125
Ozzie Padder	1	7	225	875
Marooka	2	5	225	2,750
Fill Pump	1	7	225	2,100
Pressure Pump	1	7	225	1,400
4" Water Pump	7	7	225	10,850
Farm Tract/Propane	1	7	225	1,750
48" Boring Machine	1	7	225	875
48 Bend Machine	1	7	225	1,400
42" End Facer	1	7	225	1,750
Coating Rig	1	7	225	875
Farm Tract/Bush Hog	4	7	225	5,600
Blast Pot & AC	4	7	225	7,000
600 Air Compressor	1	7	225	875
1200 Air Compressor	2	7	225	2,800
Utility Light Rig	1	7	225	1,575
Light Plant	9	7	225	14,350
Cat 336 w/hot saws	2	10	71	1,416
Rayco Stump Grinders	2	10	71	1,416
Cat 336 Grapple Hoes	3	10	71	2,124
Chipper	1	10	71	708
Forwarder	1	10	71	708
Skidder	1	10	71	708
D8T Winch Tractors	2	10	71	1,416

<sup>11</sup>Please note, the quantity of equipment is not necessarily a whole number as it's based on a calculated quantity of equipment anticipated onsite over the course of the construction period.

<sup>12</sup> Total project length is estimated to be 225 days. Equipment estimated to operate less than 225 days are associated with the clearing (trees, shrubbery, etc) of the ROW. Tranco's contractor estimates that 3,400 feet of the ROW can be cleared daily. Conservatively assuming that all 45.6 miles of the ROW needs to be cleared equates to 71 days of clearing activities.



Description	Quantity <sup>11</sup>	Average Hours Per Day	Days of Operation <sup>12</sup>	Total Work Hours for Project
Skid Steer w/Mower	1	10	71	708
Skid Steer w/Grinder	1	10	71	708
Cat 336 w/thumb building bridges	1	10	71	708

TABLE 11: CPLS SPREAD 6\_7 CONSTRUCTION EQUIPMENT

Description	Quantity <sup>13</sup>	Average Hours Per Day	Days of Operation <sup>14</sup>	Total Work Hours for Project
Cat D6 Dozer	4	7	225	6,125
Cat D6 Wide Pad	4	7	225	5,950
Cat D7 Dozer	13	7	225	20,475
Cat D8 Dozer	5	7	225	8,400
Cat 320/225	1	7	225	1,575
Cat 336	10	7	225	15,750
Cat 330 – Longstick	1	7	225	875
John Henry Drill	2	7	225	2,450
Cat 349	20	7	225	30,975
Rubber Tire Hoe	5	7	225	8,225
Cat 583/PL83	7	4	225	6,500
Cat 594/PL87 Sideboom	13	4	225	11,600
Mechanized Tack Rig	6	7	225	9,800
Tack Rig (Panther Type)	0	7	225	700
Fork Lift (Rental)	1	5	225	1,125
Cat 140G Grader (Rental)	1	5	225	875
Cat 977 Loader	1	5	225	1,125
Ozzie Padder	1	7	225	875
Marooka	2	5	225	2,500
Fill Pump	1	7	225	1,575
Pressure Pump	1	7	225	1,050
4" Water Pump	7	7	225	10,850
Farm Tract/Propane	1	7	225	1,400
48" Boring Machine	1	7	225	1,575
48 Bend Machine	1	7	225	875
42" End Facer	1	7	225	1,400
Coating Rig	0	7	225	700
Farm Tract/Bush Hog	4	7	225	5,600
Blast Pot & AC	4	7	225	6,500
600 Air Compressor	0	7	225	700
1200 Air Compressor	1	7	225	2,100
Utility Light Rig	1	7	225	1,575

<sup>13</sup> Please note, the quantity of equipment is not necessarily a whole number as it's based on a calculated quantity of equipment anticipated onsite over the course of the construction period.

<sup>14</sup> Total project length is estimated to be 225 days. Equipment estimated to operate less than 225 days are associated with the clearing (trees, shrubbery, etc) of the ROW. Tranco's contractor estimates that 2,000 feet of the ROW can be cleared daily. Conservatively assuming that all 49.4 miles of the ROW needs to be cleared equates to 130 days of clearing activities.



Description	Quantity <sup>13</sup>	Average Hours Per Day	Days of Operation <sup>14</sup>	Total Work Hours for Project
Light Plant	8	7	225	12,600
HDD Rig	1	12	225	2,700
Cat 336 w/hot saws	2	10	130	2,608
Rayco Stump Grinders	2	10	130	2,608
Cat 336 Grapple Hoes	3	10	130	3,912
Chipper	1	10	130	1,304
Forwarder	1	10	130	1,304
Skidder	1	10	130	1,304
D8T Winch Tractors	2	10	130	2,608
Skid Steer w/Mower	1	10	130	1,304
Skid Steer w/Grinder	1	10	130	1,304
Cat 336 w/thumb building bridges	1	10	130	1,304

TABLE 12: RIVER ROAD REGULATOR STATION CONSTRUCTION EQUIPMENT

Description	Quantity <sup>15</sup>	Average Hours Per Day	Days of Operation	Total Work Hours for Project
Water Pumps	2	4.5	96	864
Generator	2	4	96	768
Air Compressor	1	8	96	768
Excavator	2	9	96	1,768
Crane	0	8	96	0
Welding Machines	4	6.75	96	2,592
Welding Truck	4	2.25	96	864
Rubber Tire Hoe	1	6	96	576
Dozer	1	9	96	864

### 3.3.2. Non-Road Emission Factors

What was previously known as the NONROAD model has been incorporated into the MOVES emission factor model.

The MOVES2014 (MOVES) emission model was originally used in late 2014 and early 2015 to develop the emission factors for the entire Project. One set of emission factors for the entire Project was determined to be appropriate as the variation in non-road emission factors (on a g/hp-hr basis) varied by less than 1% when sampled via test MOVES model runs for comparison. Since the initial development of the emission factors, the MOVES model has been updated so current model runs may produce slightly different results, however based on data sampling of MOVES2014a runs, the resulting emission factors with the newer versions of

<sup>15</sup> Please note, the quantity of equipment is not necessarily a whole number as it's based on a calculated quantity of equipment anticipated onsite over the course of the construction period.



MOVES are small (less than 1%) and do not materially affect the general conformity determination.

The following summarizes the MOVES inputs used for developing the off-road/construction emission factor data sets provided in this technical report and its appendices:

- Description (optional): ASR Construction EF
- Scale:
  - Model: Nonroad
  - Domain/Scale: National (only option available)
  - Calculation type: Inventory (only option available)
- Time Spans:
  - Time Aggregation Level: N/A (not an option for non-road)
  - Select year: 2016
  - Days: Workday and Weekday (both selected)
  - Months: June and December (summer and winter used to confirm most conservative emission factor used for annual basis)
  - Hours: N/A (not an option for non-road)
- Geographic Boundaries:
  - Region: County
  - Pennsylvania – Lycoming County (selected and used for final version)
- Vehicles/Equipment - NonRoad Vehicles:
  - 4 fuel/sector combinations selected:
    - Diesel Fuel – Commercial
    - Diesel Fuel - Construction
    - Gasoline - Commercial
    - Gasoline - Construction
- Road Type: Nonroad (only option available)
- Pollutants and Processes:
  - All available pollutants and processes selected including:
    - Total Gaseous Hydrocarbons (all process)
    - CO (only Running Exhaust available)
    - NO<sub>x</sub> (only Running Exhaust available)
    - NH<sub>3</sub> (only Running Exhaust available)



- Primary Exhaust PM<sub>2.5</sub> – Total (only Running Exhaust available)
- Primary Exhaust PM<sub>10</sub> – Total (only Running Exhaust available)
- SO<sub>2</sub> (only Running Exhaust available)
- Break Specific Fuel Consumption (only Running Exhaust available)
- Atmospheric CO<sub>2</sub>
- Managed Input Data Sets: Not selected
- Strategies: Rate of Progress: Not selected
- Output
  - General Output:
    - Server – none used
    - Database: ASRLco\_out
    - Units: Grams, MMBtu, Miles
  - Output Emissions: all defaults used.
- Advanced Performance: None appropriate, or selected.

Following the MOVES2014 emission factor process, the system post-processing script was used to generate emission factors. Specifically, under “Post-Processing” the “Run MySQL Script on Nonroad Output Database” was selected. Additionally, the “EmissionFactors\_per\_hphr\_by\_Equipment\_and\_Hourpower.sql” script was selected. This script produced a comma separated values file for all results by MOVES equipment description (as opposed to SCC or other equipment code).

MOVES results included emission factors values for a range of time frames, both weekend and weekday values, in addition to summer and winter values. As noted, emission factors for mobile emission sources (on-road and off-road/non-road) vary based on temperature and external conditions, so seasonal variations (and temperature changes) will slightly impact resulting emission factors as provided by MOVES. For each piece of equipment, the most conservative emission factor modeled (winter vs summer and weekday vs weekend) was selected for use in the emission calculations on a pollutant-by-pollutant basis. While the variability within emission factors generally represented a less than 1% difference across all options, the additional level of conservatism was included to provide the maximum potential emissions in the inventory.

As noted in Section 3.3.1, emission factors were selected based on selection of equivalent MOVES2014 emission factor categories and horsepower ranges. At the recommendation of PADEP<sup>16</sup>, the Cat 320/225, Cat 336, Cat 330, and Cat 349 equipment descriptions originally categorized as “Tractors/Loaders/Backhoes” in the RR9 and subsequent submittals, were appropriately reclassified as “Excavators”. This reclassification is consistent with the equipment

<sup>16</sup> PADEP email to Transco on 12 December 2016.



type and operation/usage. Please note that this reclassification resulted in changes to the emission totals by county but do not materially affect the general conformity determination.

Table 13 below documents the Non-Road Emission Factors utilized in this analysis. “MOVES Eq Type” notes the selected MOVES equipment type to represent the specific equipment listed by Transco. “Assumed Capacity (hp)” is the size in horsepower as provided by Transco. Emission factors from MOVES are separated by “hp-bins” which note emission factors for a range of horsepower rates (e.g. given a listed assumed capacity of 202, the MOVES emission factor in the “100 < hp < 300” bin listing would be used).



TABLE 13: NON-ROAD MOVES2014 EMISSION FACTORS

Description	MOVES Equipment Type	Assumed Capacity (hp)	Non-Road Emission Factors (g/hp-hr)						
			HC	CO	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	CO <sub>2</sub>
Cat D6 Dozer	CrawlerTractor/Dozers	202	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Cat D6 Wide Pad	CrawlerTractor/Dozers	202	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Cat D7 Dozer	CrawlerTractor/Dozers	235	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Cat D8 Dozer	CrawlerTractor/Dozers	312	0.17	1.00	2.53	0.14	0.14	0.00	536.30
Cat 320/225	Excavator	153	0.17	0.80	1.82	0.19	0.19	0.00	536.28
Cat 336	Excavator	300	0.16	0.55	1.66	0.10	0.10	0.00	536.31
Cat 330 - Longstick	Excavator	153	0.17	0.80	1.82	0.19	0.19	0.00	536.28
John Henry Drill	Bore/Drill Rigs	153	0.36	1.31	4.51	0.27	0.26	0.00	529.91
Cat 349	Excavator	410	0.16	0.89	2.22	0.13	0.13	0.00	536.33
Rubber Tire Hoe	CrawlerTractor/Dozers	93	0.94	5.70	4.65	0.83	0.81	0.00	693.05
Cat 583 / PL83	CrawlerTractor/Dozers	300	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Cat 594/PL87 Sideboom	CrawlerTractor/Dozers	385	0.17	1.00	2.53	0.14	0.14	0.00	536.30
Mechanized Tack Rig	CrawlerTractor/Dozers	225	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Tack Rig (Panther Type)	CrawlerTractor/Dozers	225	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Fork Lift (Rental)	Rough Terrain Forklift	142	0.23	1.04	2.62	0.23	0.22	0.00	536.11
Cat 140G Grader (Rental)	Graders	193	0.17	0.62	1.82	0.12	0.12	0.00	536.29
Cat 977 Loader	Tractors/Loaders/Backhoes	189	0.59	2.12	4.10	0.39	0.38	0.00	624.69
Ozzie Padder	Crushing/Proc. Equipment	350	0.20	0.88	3.32	0.13	0.13	0.00	530.41
Marooka	Crawler Tractor/Dozers	200	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Fill Pump	Pump	150	0.38	1.37	4.44	0.27	0.27	0.00	529.85
Pressure Pump	Pump	150	0.38	1.37	4.44	0.27	0.27	0.00	529.85
4" Water Pump	Pump	150	3.26	52.10	4.82	0.07	0.06	0.01	757.57
FARM TRACT/PROPANE	Tractors/Loaders/Backhoes	200	0.59	2.12	4.10	0.39	0.38	0.00	624.69
48" Boring Machine	Bore/Drill Rigs	200	0.33	1.13	4.28	0.22	0.22	0.00	530.00
48 Bend Machine	Other Construction	25	0.45	2.47	4.46	0.35	0.34	0.00	594.71
42" End Facer	Other Construction	10	0.57	4.67	4.34	0.38	0.37	0.00	594.34



APPENDIX A: CONSTRUCTION EMISSIONS ESTIMATION PROCESS

Description	MOVES Equipment Type	Assumed Capacity (hp)	Non-Road Emission Factors (g/hp-hr)						
			HC	CO	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	CO <sub>2</sub>
Coating Rig	Other Construction	150	0.25	1.11	2.83	0.24	0.23	0.00	536.06
Farm Tract/Bush Hog	Crawler Tractor/Dozers	200	0.17	0.63	1.85	0.12	0.12	0.00	536.28
Blast Pot & Ac	Air Compressor	100	0.30	1.86	3.32	0.29	0.28	0.00	589.42
600 Air Compressor	Air Compressor	100	0.30	1.86	3.32	0.29	0.28	0.00	589.42
1200 Air Compressor	Air Compressor	100	0.30	1.86	3.32	0.29	0.28	0.00	589.42
Utility Locator Rig	Bore/Drill Rigs	100	0.49	2.47	4.62	0.45	0.44	0.00	588.82
Light Plant	Signal Boards/Light Plants	100	0.45	2.31	4.21	0.41	0.40	0.00	588.97
HDD Rig	Bore/Drill Rigs	635	0.29	1.56	4.49	0.21	0.21	0.00	530.12
Cat 336 w/hot saws	Excavator	300	0.16	0.55	1.66	0.10	0.10	0.00	536.31
Rayco Stump Grinders	Other Construction	75	0.31	2.66	3.87	0.33	0.32	0.00	595.17
Cat 336 Graooke Hoes	Excavator	300	0.16	0.55	1.66	0.10	0.10	0.00	536.31
Chipper	Other Construction	50	0.31	2.66	3.87	0.33	0.32	0.00	595.17
Forwarder	Other Construction	275	0.22	0.86	2.63	0.16	0.16	0.00	536.14
Skidder	Other Construction	200	0.22	0.86	2.63	0.16	0.16	0.00	536.14
D8T Winch Tractors	CrawlerTractor/Dozers	312	0.17	1.00	2.53	0.14	0.14	0.00	536.30
Skid Steer w/Mower	Skid Steer	70	1.16	5.94	5.51	0.90	0.87	0.00	692.29
Skid Steer w/Grinder	Skid Steer	70	1.16	5.94	5.51	0.90	0.87	0.00	692.29
Cat 336 w/thumb building bridges	Excavator	300	0.16	0.55	1.66	0.10	0.10	0.00	536.31



### 3.3.3. Example Non-Road Emission Calculation

Construction Equipment Exhaust emissions are calculated by multiplying the total equipment work hours by an EPA MOVES 2014 developed emission factor. For reference the MOVES2014 output files have been included in the Air Quality Technical Report Appendix D.

#### EQUATION 11:

$$PM_{2.5} \text{ Emissions (tons)} = \frac{EF_{CE} * HP * \text{Total Work Hours}}{907,185 \frac{\text{gram}}{\text{ton}}}$$

For Equation 11,  $EF_{CE}$  = construction equipment exhaust emission factor generated using EPA MOVES2014; HP = assumed equipment horse power; and Total Work Hours = Estimated Total Equipment Work Hours. An example calculation of  $PM_{2.5}$  emissions from the operation of a Cat 6 Dozer is provided below. From Transco General Conformity Calculations in Appendix C;  $PM_{2.5}$  emissions from Cat 6 Dozer Construction Equipment Operation for CPLS 6\_7 is estimated as follows:

#### EQUATION 11:

$$PM_{2.5} \text{ Emissions} = \frac{0.12 \frac{\text{gram}}{\text{hp} * \text{hour}} * 202 \text{ hp} * 6,125 \text{ hours}}{907,185 \frac{\text{gram}}{\text{ton}}} = 0.2 \text{ tons}$$

Where 0.12 gram per horsepower-hour is the EPA MOVES2014 generated emission rate; 202 is the equipment horsepower; and 6,125 hours is the estimated hours of operation for all Cat 6 dozers as part of CPLS Spread 6\_7.



**ATLANTIC SUNRISE PROJECT  
EQUIPMENT USE IN PIPELINE CONSTRUCTION**

EQUIPMENT CLASS / TYPE	EQUIPMENT	LIST		USE IN PIPELINE CONSTRUCTION
Crawler/Tractor/Dozer	Dozers	Cat D6, Cat D7, Cat D8	Primary	Clearing brush, grading, backfill pipeline trench and restoring the right of way contours for final clean up
			Secondary	Aid in winching equipment in steep hills
	Backhoe	Cat 320, Cat 225, Cat 336, Cat 349, Cat 330 - Longstick	Primary	Trench pipeline ditch, excavate soil/fractured rock trenches across streams, excavate soil for boring pits, assist in lifting and position line pipe for tie-ins.
			Secondary	Lift pipe from stringing trailers to side of pipeline trench, lowering in of line pipe into pipeline trench.
	Sidebooms	Cat 583/PL83, Cat 594/PL87	Primary	Placing pipe to be bent in and out of bending machine, lift and position line pipe for welding, lower pipeline into trench after welding is completed.
	Tractor	Rubber tire hoe	Primary	Utility Use - material handling in yard, exposing foreign utility crossings, aid in placing silt sock (erosion control devices), loading construction debris into trucks
	Crawler	Mechanized tack rig	Primary	Suspends welding equipment above the line pipe for joining sections of pipe.
	Loader	Cat 977	Primary	Loading/Unloading soil from pipeline right of way and loading crushed rock from access roads into trucks
	Tractor	Farm Tractor/Bush Hog	Primary Secondary	Initial tall grasses and brush clearing for storage yards, staging areas Maintaining sections of the ROW that has been restored before project closeout
	Crawler	Marooka	Primary	Utility Use - haul small quantities of various materials (e.g., sand bags, crushed rock) or equipment (e.g., pumps, air compressors) along the pipeline right of way.
Bore/Drill Rigs	Tractor	Farm Tractor/Propane	Primary	Utility tractor to pull a propane tank. The ends of the line pipe must be heated prior to welding to improve the integrity of the weld.
	Drill	Utility Locator Rig	Primary	Portable track mounted equipment used to safely locate existing buried utilities prior to excavation activities (sometimes referred to as soft digs).
	Boring	48" Boring Machine	Primary	Trenchless method to bore beneath state highways, railroads and other areas where an open trench is not feasible.
Pumps	Pumps	Drill	Primary	Utilized to locate depth of rock along right-of-way and to drill consolidated rock in preparation for blasting.
		Fill Pump	Primary	After tie-ins to other crossings (i.e., road, stream, etc) are completed, and the pipeline is lowered in and backfilled, water is pumped into the pipeline in preparation for the hydrostatic test.
		Pressure Pump	Primary	After filling the pipeline with water, a small pump is used to pressure up the pipeline to the desired test pressure.
Air Compressor	Air Compressor	4" Water Pump	Primary	Dewatering trench after storm events and removing ground water in bell holes for tie in work
		Blast Pot & A/C	Primary	Sandblast the girth welds (i.e., joining the sections of pipe) in preparation of applying coating to the weld areas.
Signal Boards/Light Plants	Light Plant	1200 ACFM Air Compressor	Primary	Dewatering of the pipeline after hydrostatic testing is complete, displace a caliper tool within the pipeline after testing is complete, and displacing foam 'pigs' to facilitate removing residual water from the hydrostatic test.
		Light Plant	Primary	General Use - Provide illumination to workers when a certain construction activities warrants evening/night related work (e.g., critical tie-ins, HDD pull-back phase).
Fork Lift	Fork Lift	Rough Terrain Forklift	Primary	Used in pipe yards and mat yards to load/unload fittings and mats, set mats in wetland areas along the pipeline right-of-way
Graders	Graders	Cat 140G Grader	Primary	Stripping and replacing topsoil, snow removal, and maintenance of county and access roads.
Crushing/Process Equipment	Crushing	Ozzie Padder	Primary	In areas where rock material is excavated, equipment is used to separate fine material from coarse material to make it suitable for backfill material in the pipeline trench.
Other Construction		48" Bending Machine	Primary	Cold bend the pipe to accommodate small deviations to horizontal and vertical alignment.
		42" End Facer	Primary	Prepare ends of the pipe sections for welding the joint together (girth welds).

**Notes:**

1) Equipment uses identified in table are the normal utilization of stated equipment. The table did not capture every possible use of that equipment.

2) For clarity purposes, construction industry uses the terms "excavator" and "trackhoes" (a.k.a. hoes for short) interchangeably. Both terms relate to equipment with tracks, and large buckets at the end of booms used to remove (or place) fill material. Specifically rubber tired hoes (also referred to as backhoes) are tractors that have a scoop on the front and excavating appurtenances on the rear. They are used in light duty applications.



Exhaust Emission Factors

Equipment Type	MOVES Equip Type	Avg Qty	Fuel	Assumed Capacity (hp)
Cat D6 Dozer	Crawler Tracter/Dozers		4 Diesel	202
Cat D6 Wide Pad	Crawler Tracter/Dozers		4 Diesel	202
Cat D7 Dozer	Crawler Tracter/Dozers		13 Diesel	235
Cat D8 Dozer	Crawler Tracter/Dozers		5 Diesel	312
Cat 320/225 Backhoe	Tractors/Loaders/Backhoes		1 Diesel	153
Cat 336	Tractors/Loaders/Backhoes		10 Diesel	300
Cat 330 - Longstick	Tractors/Loaders/Backhoes		1 Diesel	153
John Henry Drill	Bore/Drill Rigs		2 Diesel	153
Cat 349 Backhoe	Tractors/Loaders/Backhoes		20 Diesel	425
Rt Hoe	Tractors/Loaders/Backhoes		5 Diesel	93
Cat 583 / PL83	Crawler Tracter/Dozers		7 Diesel	300
Cat 594/PL87 Sideboom	Crawler Tracter/Dozers		13 Diesel	385
Mechanized Tack Rig	Crawler Tracter/Dozers		6 Diesel	225
Fork Lift (Rental)	Rough Terrain Forklift		1 Diesel	142
Cat 140G Grader (Rental)	Graders		1 Diesel	193
Cat 977 Loader	Tractors/Loaders/Backhoes		1 Diesel	189
Ozzie Padder	Crushing/Proc. Equipment		1 Diesel	350
Marooka	Crawler Tracter/Dozers		2 Diesel	200
Fill Pump	Pump		1 Diesel	150
Pressure Pump	Pump		1 Diesel	150
4" Water Pump	Pump		7 Gas	150
FARM TRACT/PROPANE	Tractors/Loaders/Backhoes		1 Diesel	200
48" Boring Machine	Bore/Drill Rigs		1 Diesel	200
48 Bend Machine	Other Construction		1 Diesel	25
42" End Facer	Other Construction		1 Diesel	10
Farm Tract/Bush Hog	Crawler Tracter/Dozers		4 Diesel	200
Blast Pot & Ac	Air Compressor		4 Diesel	100
1200 Air Compressor	Air Compressor		1 Diesel	100
Utility Locator Rig	Bore/Drill Rigs		1 Diesel	100
Light Plant	Signal Boards/Light Plants		8 Diesel	100
HDD Rig	Bore/Drill Rigs		1 Diesel	635







[illegible]



[illegible]



[illegible]



[illegible]



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[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Restr	1.7903	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Restr	1.7912	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Restr	1.7907	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Restr	1.7907	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Restr	1.7907	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Restr	1.7914	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Restr	1.6538	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Restr	1.6538	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Restr	1.6538	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Rural Unrestr	0.3455	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Rural Unrestr	0.4253	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Rural Unrestr	0.3409	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Rural Unrestr	0.5113	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Rural Unrestr	0.3408	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Rural Unrestr	0.4784	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Rural Unrestr	0.3432	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Rural Unrestr	0.4649	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Rural Unrestr	0.3463	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Rural Unrestr	0.4665	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Rural Unrestr	0.3297	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Rural Unrestr	0.4236	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Rural Unrestr	0.3387	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Rural Unrestr	0.4243	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Rural Unrestr	0.3338	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Rural Unrestr	0.4292	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Rural Unrestr	0.3375	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Rural Unrestr	0.4320	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Rural Unrestr	0.3340	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Rural Unrestr	0.4456	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Rural Unrestr	0.3379	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Unrestr	0.4379	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Unrestr	0.3332	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Unrestr	0.4650	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Unrestr	0.3347	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Unrestr	0.4755	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Unrestr	0.3376	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Unrestr	0.4743	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Unrestr	0.3372	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Unrestr	0.4753	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Unrestr	0.3447	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Unrestr	0.4957	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Unrestr	0.3447	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Unrestr	0.4956	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Unrestr	0.3447	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Unrestr	0.4959	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Unrestr	0.3451	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Unrestr	0.4961	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Unrestr	0.3451	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Unrestr	0.4967	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Unrestr	0.3451	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Unrestr	0.4973	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Unrestr	0.3451	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Unrestr	0.4970	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Rural Unrestr	0.3385	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Rural Unrestr	0.4530	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Rural Unrestr	0.3346	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Rural Unrestr	0.4481	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Rural Unrestr	0.3401	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Rural Unrestr	0.4483	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Rural Unrestr	0.3425	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Rural Unrestr	0.4157	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Rural Unrestr	0.3142	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Rural Unrestr	0.3972	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Rural Unrestr	0.3055	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Rural Unrestr	0.3871	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Rural Unrestr	0.3765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Rural Unrestr	0.3765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Rural Unrestr	0.2840	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Rural Unrestr	0.3621	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Rural Unrestr	0.2676	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Rural Unrestr	0.3435	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Unrestr	1.7366	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Unrestr	1.7408	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Unrestr	1.7458	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Unrestr	1.7534	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Rural Unrestr	1.7577	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Unrestr	1.7584	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Unrestr	1.7622	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Unrestr	1.7647	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Unrestr	1.7658	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Unrestr	1.7690	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Unrestr	1.7713	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Unrestr	1.7736	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Unrestr	1.7756	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Rural Unrestr	1.7765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Rural Unrestr	1.7765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Rural Unrestr	1.7765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Rural Unrestr	1.7765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Unrestr	1.7765	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Unrestr	1.7785	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Unrestr	1.7785	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Unrestr	1.7784	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Unrestr	1.7802	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Unrestr	1.7802	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Unrestr	1.7811	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Unrestr	1.7805	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Unrestr	1.7805	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Unrestr	1.7805	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Unrestr	1.7812	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Unrestr	1.6476	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Unrestr	1.6476	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Unrestr	1.6476	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Urban Restr	0.3403	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Urban Restr	0.4164	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Urban Restr	0.3359	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Urban Restr	0.5080	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Urban Restr	0.3361	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Urban Restr	0.4690	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Urban Restr	0.3386	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Urban Restr	0.4577	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Urban Restr	0.3412	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Urban Restr	0.4594	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Urban Restr	0.3284	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Urban Restr	0.4196	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Urban Restr	0.3773	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Urban Restr	0.4205	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Urban Restr	0.3325	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Urban Restr	0.4254	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Urban Restr	0.3363	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Urban Restr	0.4279	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Urban Restr	0.3332	kg	mi



2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Urban Restr	0.4415	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Urban Restr	0.3372	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Urban Restr	0.4346	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Urban Restr	0.3324	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Urban Restr	0.4721	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Urban Restr	0.3341	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Urban Restr	0.4718	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Urban Restr	0.3370	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Urban Restr	0.4708	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Urban Restr	0.3367	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Urban Restr	0.4717	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Urban Restr	0.3455	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Urban Restr	0.4937	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Urban Restr	0.3455	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Urban Restr	0.4935	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Urban Restr	0.3455	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Urban Restr	0.4938	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Urban Restr	0.3459	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Urban Restr	0.4940	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Urban Restr	0.3459	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Urban Restr	0.4946	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Urban Restr	0.3459	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Urban Restr	0.4952	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Urban Restr	0.3459	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Urban Restr	0.4949	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Urban Restr	0.3393	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Urban Restr	0.4511	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Urban Restr	0.3353	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Urban Restr	0.4662	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Urban Restr	0.3409	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Urban Restr	0.4855	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Urban Restr	0.3433	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Urban Restr	0.4139	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Urban Restr	0.3149	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Urban Restr	0.3956	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Urban Restr	0.3062	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Urban Restr	0.3855	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Urban Restr	0.2976	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Urban Restr	0.3749	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Urban Restr	0.2846	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Urban Restr	0.3606	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Urban Restr	0.2682	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Urban Restr	0.3421	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Urban Restr	1.7161	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Urban Restr	1.7200	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Urban Restr	1.7246	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Urban Restr	1.7317	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Urban Restr	1.7357	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Urban Restr	1.7363	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Urban Restr	1.7399	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Urban Restr	1.7422	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Urban Restr	1.7432	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Urban Restr	1.7462	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Urban Restr	1.7483	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Urban Restr	1.7504	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Urban Restr	1.7522	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Urban Restr	1.7531	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Urban Restr	1.7531	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Urban Restr	1.7531	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Urban Restr	1.7531	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Urban Restr	1.7531	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Urban Restr	1.7549	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Urban Restr	1.7549	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Urban Restr	1.7549	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Urban Restr	1.7564	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Urban Restr	1.7564	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Urban Restr	1.7573	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Urban Restr	1.7567	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Urban Restr	1.7567	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Urban Restr	1.7567	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Urban Restr	1.7574	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Urban Restr	1.6287	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Urban Restr	1.6287	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Urban Restr	1.6287	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Urban Unrestrict	0.4211	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Urban Unrestrict	0.5085	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Urban Unrestrict	0.4151	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Urban Unrestrict	0.5874	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Urban Unrestrict	0.4141	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Urban Unrestrict	0.5701	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Urban Unrestrict	0.4170	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Urban Unrestrict	0.5808	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Urban Unrestrict	0.4219	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Urban Unrestrict	0.5533	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Urban Unrestrict	0.3996	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Urban Unrestrict	0.5059	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Urban Unrestrict	0.4108	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Urban Unrestrict	0.5061	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Urban Unrestrict	0.4046	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Urban Unrestrict	0.5120	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Urban Unrestrict	0.4085	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Urban Unrestrict	0.5160	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Urban Unrestrict	0.4031	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Urban Unrestrict	0.5312	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Urban Unrestrict	0.4078	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Urban Unrestrict	0.5180	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Urban Unrestrict	0.4028	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Urban Unrestrict	0.5024	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Urban Unrestrict	0.4036	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Urban Unrestrict	0.5613	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Urban Unrestrict	0.4070	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Urban Unrestrict	0.5595	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Urban Unrestrict	0.4063	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Urban Unrestrict	0.5608	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Urban Unrestrict	0.4128	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Urban Unrestrict	0.5807	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Urban Unrestrict	0.4128	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Urban Unrestrict	0.5804	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Urban Unrestrict	0.4128	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Urban Unrestrict	0.5808	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Urban Unrestrict	0.4133	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Urban Unrestrict	0.5812	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Urban Unrestrict	0.4133	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Urban Unrestrict	0.5819	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Urban Unrestrict	0.4133	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Urban Unrestrict	0.5806	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Urban Unrestrict	0.4133	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Urban Unrestrict	0.5822	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Urban Unrestrict	0.4055	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Urban Unrestrict	0.5307	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Urban Unrestrict	0.4008	kg	mi



2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Urban Unrestric	0.5249	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Urban Unrestric	0.4074	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Urban Unrestric	0.5252	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Urban Unrestric	0.4104	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Urban Unrestric	0.4868	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Urban Unrestric	0.3764	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Urban Unrestric	0.4652	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Urban Unrestric	0.3660	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Urban Unrestric	0.4534	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Urban Unrestric	0.3558	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Urban Unrestric	0.4410	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Urban Unrestric	0.3402	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Urban Unrestric	0.4241	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Urban Unrestric	0.3066	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Urban Unrestric	0.4024	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Urban Unrestric	2.0154	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Urban Unrestric	2.0208	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Urban Unrestric	2.0272	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Urban Unrestric	2.0369	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Urban Unrestric	2.0424	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Urban Unrestric	2.0432	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Urban Unrestric	2.0481	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Urban Unrestric	2.0513	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Urban Unrestric	2.0527	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Urban Unrestric	2.0568	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Urban Unrestric	2.0597	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Urban Unrestric	2.0626	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Urban Unrestric	2.0651	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Urban Unrestric	2.0664	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Urban Unrestric	2.0664	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Urban Unrestric	2.0664	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Urban Unrestric	2.0664	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Urban Unrestric	2.0664	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Urban Unrestric	2.0688	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Urban Unrestric	2.0688	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Urban Unrestric	2.0688	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Urban Unrestric	2.0717	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Urban Unrestric	2.0717	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Urban Unrestric	2.0729	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Urban Unrestric	2.0718	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Urban Unrestric	2.0718	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Urban Unrestric	2.0718	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Urban Unrestric	2.0727	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Urban Unrestric	1.9439	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Urban Unrestric	1.9439	kg	mi
2016	7	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Urban Unrestric	1.9439	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1986	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1986	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1987	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1987	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1988	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1988	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1989	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1989	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1990	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1990	Rural Restrict	0.0001	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1991	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1991	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1992	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1992	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1993	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1993	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1994	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1994	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1995	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1995	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1996	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1996	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1997	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1997	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1998	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1998	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	1999	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	1999	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2000	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2000	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2001	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2001	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2002	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2002	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2003	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2003	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2004	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2004	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2005	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2005	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2006	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2006	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2007	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2007	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2008	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2008	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2009	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2009	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2010	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2010	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2011	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2011	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2012	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2012	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2013	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2013	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2014	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2014	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2015	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2015	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Passenger Car	Gasoline	2016	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	LC Truck	Gasoline	2016	Rural Restrict	0.0000	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Restrict	0.0023	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Restrict	0.0022	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Restrict	0.0009	kg	mi
2016	7	Weekend	PM10	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Restrict	0.0006	kg	mi



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2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Restrict	0.4382	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Restrict	0.3326	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Restrict	0.4758	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Restrict	0.3343	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Restrict	0.4757	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Restrict	0.3372	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Restrict	0.4746	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Restrict	0.3370	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Restrict	0.4755	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Restrict	0.3463	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Restrict	0.4984	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Restrict	0.3463	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Restrict	0.4982	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Restrict	0.3463	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Restrict	0.4985	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Restrict	0.3467	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Restrict	0.4987	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Restrict	0.3467	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Restrict	0.4993	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Restrict	0.3467	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Restrict	0.4998	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Restrict	0.3467	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Restrict	0.4996	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Rural Restrict	0.3401	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Rural Restrict	0.4553	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Rural Restrict	0.3361	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Rural Restrict	0.4504	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Rural Restrict	0.3416	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Rural Restrict	0.4507	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Rural Restrict	0.3441	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Rural Restrict	0.4579	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Rural Restrict	0.3156	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Rural Restrict	0.3993	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Rural Restrict	0.3068	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Rural Restrict	0.3892	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Rural Restrict	0.2982	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Rural Restrict	0.3785	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Rural Restrict	0.2852	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Rural Restrict	0.3640	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Rural Restrict	0.2687	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Rural Restrict	0.3454	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Restrict	1.7381	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Restrict	1.7418	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Restrict	1.7461	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Restrict	1.7528	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Restrict	1.7565	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Restrict	1.7571	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Restrict	1.7605	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Restrict	1.7627	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Restrict	1.7636	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Restrict	1.7665	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Restrict	1.7684	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Restrict	1.7704	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Restrict	1.7721	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Rural Restrict	1.7730	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Rural Restrict	1.7730	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Rural Restrict	1.7730	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Rural Restrict	1.7730	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Restrict	1.7730	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Restrict	1.7747	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Restrict	1.7747	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Restrict	1.7747	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Restrict	1.7760	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Restrict	1.7761	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Restrict	1.7769	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Restrict	1.7764	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Restrict	1.7764	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Restrict	1.7763	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Restrict	1.7770	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Restrict	1.6417	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Restrict	1.6417	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Restrict	1.6417	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Rural Unrestrict	0.3475	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Rural Unrestrict	0.4277	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Rural Unrestrict	0.3430	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Rural Unrestrict	0.5131	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Rural Unrestrict	0.3427	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Rural Unrestrict	0.4809	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Rural Unrestrict	0.3452	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Rural Unrestrict	0.4670	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Rural Unrestrict	0.3483	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Rural Unrestrict	0.4986	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Rural Unrestrict	0.3314	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Rural Unrestrict	0.4255	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Rural Unrestrict	0.3405	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Rural Unrestrict	0.4261	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Rural Unrestrict	0.3355	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Rural Unrestrict	0.4310	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Rural Unrestrict	0.3392	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Rural Unrestrict	0.4339	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Rural Unrestrict	0.3356	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Rural Unrestrict	0.4474	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Rural Unrestrict	0.3395	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Unrestrict	0.4395	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Unrestrict	0.3348	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Unrestrict	0.4776	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Unrestrict	0.3362	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Unrestrict	0.4971	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Unrestrict	0.3391	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Unrestrict	0.4758	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Unrestrict	0.3387	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Unrestrict	0.4768	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Unrestrict	0.3460	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Unrestrict	0.4971	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Unrestrict	0.3460	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Unrestrict	0.4969	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Unrestrict	0.3460	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Unrestrict	0.4972	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Unrestrict	0.3464	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Unrestrict	0.4975	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Unrestrict	0.3464	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Unrestrict	0.4981	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Unrestrict	0.3464	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Unrestrict	0.4986	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Unrestrict	0.3464	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Unrestrict	0.4983	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Rural Unrestrict	0.3398	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Rural Unrestrict	0.4542	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Rural Unrestrict	0.3358	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Rural Unrestrict	0.4493	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Rural Unrestrict	0.3414	kg	mi



2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Rural Unrestric	0.4495	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Rural Unrestric	0.3438	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Rural Unrestric	0.4168	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Rural Unrestric	0.3154	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Rural Unrestric	0.3982	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Rural Unrestric	0.3066	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Rural Unrestric	0.3881	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Rural Unrestric	0.2981	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Rural Unrestric	0.3775	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Rural Unrestric	0.2850	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Rural Unrestric	0.3630	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Rural Unrestric	0.2686	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Rural Unrestric	0.3444	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Unrestric	1.7407	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Unrestric	1.7447	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Unrestric	1.7483	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Unrestric	1.7565	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Rural Unrestric	1.7605	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Unrestric	1.7612	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Unrestric	1.7648	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Unrestric	1.7671	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Unrestric	1.7681	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Unrestric	1.7712	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Unrestric	1.7733	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Unrestric	1.7754	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Unrestric	1.7773	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Rural Unrestric	1.7782	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Rural Unrestric	1.7782	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Rural Unrestric	1.7782	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Rural Unrestric	1.7782	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Unrestric	1.7782	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Unrestric	1.7800	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Unrestric	1.7800	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Unrestric	1.7800	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Unrestric	1.7818	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Unrestric	1.7818	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Unrestric	1.7827	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Unrestric	1.7820	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Unrestric	1.7820	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Unrestric	1.7820	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Unrestric	1.7827	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Unrestric	1.6504	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Unrestric	1.6504	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Unrestric	1.6504	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Urban Restr	0.3446	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Urban Restr	0.4210	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Urban Restr	0.3401	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Urban Restr	0.5107	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Urban Restr	0.5107	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Urban Restr	0.4736	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Urban Restr	0.3427	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Urban Restr	0.4616	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Urban Restr	0.3454	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Urban Restr	0.4632	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Urban Restr	0.3318	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Urban Restr	0.4229	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Urban Restr	0.3408	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Urban Restr	0.4237	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Urban Restr	0.3359	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Urban Restr	0.4285	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Urban Restr	0.3397	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Urban Restr	0.4311	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Urban Restr	0.3464	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Urban Restr	0.4447	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Urban Restr	0.3404	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Urban Restr	0.4374	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Urban Restr	0.3356	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Urban Restr	0.4750	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Urban Restr	0.3372	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Urban Restr	0.4747	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Urban Restr	0.3401	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Urban Restr	0.4736	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Urban Restr	0.3398	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Urban Restr	0.4745	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Urban Restr	0.3484	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Urban Restr	0.4961	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Urban Restr	0.3484	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Urban Restr	0.4960	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Urban Restr	0.3484	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Urban Restr	0.4963	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Urban Restr	0.3487	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Urban Restr	0.4965	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Urban Restr	0.3487	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Urban Restr	0.4971	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Urban Restr	0.3487	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Urban Restr	0.4976	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Urban Restr	0.3487	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Urban Restr	0.4973	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Urban Restr	0.3421	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Urban Restr	0.4533	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Urban Restr	0.3381	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Urban Restr	0.4484	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Urban Restr	0.3437	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Urban Restr	0.4486	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Urban Restr	0.3461	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Urban Restr	0.4160	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Urban Restr	0.3175	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Urban Restr	0.3975	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Urban Restr	0.3887	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Urban Restr	0.3874	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Urban Restr	0.3000	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Urban Restr	0.3768	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Urban Restr	0.2869	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Urban Restr	0.3623	kg	
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Urban Restr	0.2703	kg	
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Urban Restr	0.3438	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Urban Restr	1.7295	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Urban Restr	1.7332	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Urban Restr	1.7377	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Urban Restr	1.7445	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Urban Restr	1.7483	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Urban Restr	1.7489	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Urban Restr	1.7524	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Urban Restr	1.7546	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Urban Restr	1.7556	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Urban Restr	1.3485	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Urban Restr	1.7605	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Urban Restr	1.7625	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Urban Restr	1.7643	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Urban Restr	1.7652	kg	
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Urban Restr	1.7652	kg	



2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Urban Restr	1.7652	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Urban Restr	1.7652	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Urban Restr	1.7652	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Urban Restr	1.7669	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Urban Restr	1.7669	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Urban Restr	1.7669	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Urban Restr	1.7685	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Urban Restr	1.7685	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Urban Restr	1.7693	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Urban Restr	1.7688	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Urban Restr	1.7687	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Urban Restr	1.7687	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Urban Restr	1.7694	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Urban Restr	1.7681	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Urban Restr	1.6426	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Urban Restr	1.6426	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Urban Unrestrict	0.4302	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Urban Unrestrict	0.5190	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Urban Unrestrict	0.4240	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Urban Unrestrict	0.5979	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Urban Unrestrict	0.4230	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Urban Unrestrict	0.5819	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Urban Unrestrict	0.4260	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Urban Unrestrict	0.5620	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Urban Unrestrict	0.4309	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Urban Unrestrict	0.5645	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Urban Unrestrict	0.4077	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Urban Unrestrict	0.5160	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Urban Unrestrict	0.4191	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Urban Unrestrict	0.5161	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Urban Unrestrict	0.4027	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Urban Unrestrict	0.5221	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Urban Unrestrict	0.4166	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Urban Unrestrict	0.5262	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Urban Unrestrict	0.4110	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Urban Unrestrict	0.5416	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Urban Unrestrict	0.4157	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Urban Unrestrict	0.5286	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Urban Unrestrict	0.4099	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Urban Unrestrict	0.5729	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Urban Unrestrict	0.4114	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Urban Unrestrict	0.5716	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Urban Unrestrict	0.4148	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Urban Unrestrict	0.5698	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Urban Unrestrict	0.4142	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Urban Unrestrict	0.5711	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Urban Unrestrict	0.4088	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Urban Unrestrict	0.5291	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Urban Unrestrict	0.4208	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Urban Unrestrict	0.5909	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Urban Unrestrict	0.4208	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Urban Unrestrict	0.5913	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Urban Unrestrict	0.4213	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Urban Unrestrict	0.5917	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Urban Unrestrict	0.4213	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Urban Unrestrict	0.5924	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Urban Unrestrict	0.4213	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Urban Unrestrict	0.5931	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Urban Unrestrict	0.4213	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Urban Unrestrict	0.5927	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Urban Unrestrict	0.4133	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Urban Unrestrict	0.5402	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Urban Unrestrict	0.4085	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Urban Unrestrict	0.5343	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Urban Unrestrict	0.4082	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Urban Unrestrict	0.5346	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Urban Unrestrict	0.4183	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Urban Unrestrict	0.4955	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Urban Unrestrict	0.3837	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Urban Unrestrict	0.4735	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Urban Unrestrict	0.3731	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Urban Unrestrict	0.4616	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Urban Unrestrict	0.3626	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Urban Unrestrict	0.4489	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Urban Unrestrict	0.3468	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Urban Unrestrict	0.4317	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Urban Unrestrict	0.3268	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Urban Unrestrict	0.4096	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Urban Unrestrict	2.0473	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Urban Unrestrict	2.0525	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Urban Unrestrict	2.0587	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Urban Unrestrict	2.0681	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Urban Unrestrict	2.0735	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Urban Unrestrict	2.0743	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Urban Unrestrict	2.0790	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Urban Unrestrict	2.0821	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Urban Unrestrict	2.0835	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Urban Unrestrict	2.0875	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Urban Unrestrict	2.0903	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Urban Unrestrict	2.0931	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Urban Unrestrict	2.0956	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Urban Unrestrict	2.0968	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Urban Unrestrict	2.0968	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Urban Unrestrict	2.0968	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Urban Unrestrict	2.0968	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Urban Unrestrict	2.0968	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Urban Unrestrict	2.0992	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Urban Unrestrict	2.0982	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Urban Unrestrict	2.0992	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Urban Unrestrict	2.1022	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Urban Unrestrict	2.1022	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Urban Unrestrict	2.1033	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Urban Unrestrict	2.1022	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Urban Unrestrict	2.1022	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Urban Unrestrict	2.1022	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Urban Unrestrict	2.1030	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Urban Unrestrict	1.9743	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Urban Unrestrict	1.9743	kg	mi
2016	7	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Urban Unrestrict	1.9743	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1986	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1986	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1987	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1987	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1988	Rural Restrict	0.0000	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1988	Rural Restrict	0.0000	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1989	Rural Restrict	0.0000	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1989	Rural Restrict	0.0000	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1990	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1990	Rural Restrict	0.0001	kg	mi
2016	7	Weekday	PM10	Running Exhaust	Passenger Car	Gasoline	1991	Rural Restrict	0.0000	kg	mi
2016	7	Weekday	PM10	Running Exhaust	LC Truck	Gasoline	1991	Rural Restrict	0.0000	kg	mi



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2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Restr	1.7004	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Restr	1.7004	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Restr	1.7004	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Restr	1.7004	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Restr	1.7017	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Restr	1.7017	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Restr	1.7017	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Restr	1.7012	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Restr	1.7012	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Restr	1.7012	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Restr	1.7010	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Restr	1.5696	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Restr	1.5696	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Restr	1.4366	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Rural Unrestrict	1.3305	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Rural Unrestrict	0.4128	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Rural Unrestrict	0.3270	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Rural Unrestrict	0.4953	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Rural Unrestrict	0.3262	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Rural Unrestrict	0.4619	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Rural Unrestrict	0.3291	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Rural Unrestrict	0.4471	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Rural Unrestrict	0.3303	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Rural Unrestrict	0.4475	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Rural Unrestrict	0.3145	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Rural Unrestrict	0.4063	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Rural Unrestrict	0.3228	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Rural Unrestrict	0.4061	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Rural Unrestrict	0.3179	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Rural Unrestrict	0.4103	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Rural Unrestrict	0.3110	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Rural Unrestrict	0.4127	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Rural Unrestrict	0.3174	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Rural Unrestrict	0.4249	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Rural Unrestrict	0.3208	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Unrestrict	0.4171	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Unrestrict	0.3161	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Unrestrict	0.4527	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Unrestrict	0.3173	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Unrestrict	0.4517	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Unrestrict	0.3197	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Unrestrict	0.4503	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Unrestrict	0.3194	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Unrestrict	0.4512	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Unrestrict	0.4705	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Unrestrict	0.3664	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Unrestrict	0.4743	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Unrestrict	0.4706	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Unrestrict	0.4703	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Unrestrict	0.4709	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Unrestrict	0.4714	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Unrestrict	0.3264	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Unrestrict	0.4711	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Rural Unrestrict	0.3202	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Rural Unrestrict	0.4294	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Rural Unrestrict	0.3163	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Rural Unrestrict	0.4246	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Rural Unrestrict	0.3215	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Rural Unrestrict	0.4248	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Rural Unrestrict	0.3388	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Rural Unrestrict	0.3938	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Rural Unrestrict	0.2970	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Rural Unrestrict	0.3763	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Rural Unrestrict	0.2886	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Rural Unrestrict	0.3666	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Rural Unrestrict	0.2806	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Rural Unrestrict	0.3565	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Rural Unrestrict	0.2683	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Rural Unrestrict	0.3429	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Rural Unrestrict	0.2528	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Rural Unrestrict	0.3253	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Unrestrict	1.6844	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Unrestrict	1.6861	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Unrestrict	1.6861	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Unrestrict	1.6861	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Unrestrict	1.6854	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Unrestrict	1.6854	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Unrestrict	1.6854	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Unrestrict	1.6852	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Unrestrict	1.5580	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Unrestrict	1.5580	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Unrestrict	1.5580	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Urban Restr	0.3270	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Urban Restr	0.4053	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Urban Restr	0.3235	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Urban Restr	0.4934	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Urban Restr	0.3230	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Urban Restr	0.4543	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Urban Restr	0.3259	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Urban Restr	0.4117	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Urban Restr	0.3269	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Urban Restr	0.4423	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Urban Restr	0.3145	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Urban Restr	0.4039	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Urban Restr	0.3229	kg	mi
2016	12	Weekend	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Urban Restr	0.4040	kg	mi



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2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Rural Restrict	0.3225	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Rural Restrict	0.4146	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Rural Restrict	0.3194	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Rural Restrict	0.4271	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Rural Restrict	0.3230	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Restrict	0.4204	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Restrict	0.3182	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Restrict	0.4561	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Restrict	0.3196	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Restrict	0.4554	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Restrict	0.3222	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Restrict	0.4542	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Restrict	0.3219	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Restrict	0.4550	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Restrict	0.4768	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Restrict	0.4767	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Restrict	0.4770	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Restrict	0.4767	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Restrict	0.4773	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Restrict	0.3308	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Restrict	0.4778	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Restrict	0.3309	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Restrict	0.4775	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2008	Rural Restrict	0.3246	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2008	Rural Restrict	0.4353	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2009	Rural Restrict	0.3306	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2009	Rural Restrict	0.4304	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2010	Rural Restrict	0.3259	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2010	Rural Restrict	0.4306	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2011	Rural Restrict	0.3282	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2011	Rural Restrict	0.3993	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2012	Rural Restrict	0.3010	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2012	Rural Restrict	0.3815	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2013	Rural Restrict	0.2925	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2013	Rural Restrict	0.3717	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2014	Rural Restrict	0.2844	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2014	Rural Restrict	0.3615	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2015	Rural Restrict	0.2719	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2015	Rural Restrict	0.3476	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2016	Rural Restrict	0.2562	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2016	Rural Restrict	0.3298	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1986	Rural Restrict	1.1625	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1987	Rural Restrict	1.6921	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1988	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1989	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1990	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1991	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1992	Rural Restrict	1.6925	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1993	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1994	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1995	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1996	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1997	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1998	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	1999	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2000	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2001	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2002	Rural Restrict	1.6925	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2003	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2004	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2005	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Rural Restrict	1.6924	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Rural Restrict	1.6938	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Rural Restrict	1.6938	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Rural Restrict	1.6938	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Rural Restrict	1.6933	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Rural Restrict	1.6933	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Rural Restrict	1.6933	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Rural Restrict	1.6931	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Rural Restrict	1.5635	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Rural Restrict	1.5635	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Rural Restrict	1.5635	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1986	Rural Unrestrict	0.3334	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1986	Rural Unrestrict	0.4160	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1987	Rural Unrestrict	0.3298	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1987	Rural Unrestrict	0.4980	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1988	Rural Unrestrict	0.3288	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1988	Rural Unrestrict	0.4653	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1989	Rural Unrestrict	0.3318	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1989	Rural Unrestrict	0.4501	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1990	Rural Unrestrict	0.3331	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1990	Rural Unrestrict	0.4506	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1991	Rural Unrestrict	0.3170	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1991	Rural Unrestrict	0.4092	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1992	Rural Unrestrict	0.3254	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1992	Rural Unrestrict	0.4090	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1993	Rural Unrestrict	0.3205	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1993	Rural Unrestrict	0.4131	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1994	Rural Unrestrict	0.3235	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1994	Rural Unrestrict	0.4156	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1995	Rural Unrestrict	0.3198	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1995	Rural Unrestrict	0.4278	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1996	Rural Unrestrict	0.3233	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1996	Rural Unrestrict	0.4198	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1997	Rural Unrestrict	0.3186	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1997	Rural Unrestrict	0.4557	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1998	Rural Unrestrict	0.3197	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1998	Rural Unrestrict	0.4546	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	1999	Rural Unrestrict	0.3222	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	1999	Rural Unrestrict	0.4532	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2000	Rural Unrestrict	0.3218	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2000	Rural Unrestrict	0.4541	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2001	Rural Unrestrict	0.3287	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2001	Rural Unrestrict	0.4732	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2002	Rural Unrestrict	0.3287	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2002	Rural Unrestrict	0.4731	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2003	Rural Unrestrict	0.3287	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2003	Rural Unrestrict	0.4734	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2004	Rural Unrestrict	0.3288	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2004	Rural Unrestrict	0.4731	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2005	Rural Unrestrict	0.3288	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2005	Rural Unrestrict	0.4737	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2006	Rural Unrestrict	0.3288	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2006	Rural Unrestrict	0.4742	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	Passenger Car	Gasoline	2007	Rural Unrestrict	0.3288	kg	mi
2016	12	Weekday	CO2e	Running Exhaust	LC Truck	Gasoline	2007	Rural Unrestrict	0.4739	kg	mi



[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



[illegible]



2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2006	Urban Unrestric	0.0007	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2007	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2008	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2009	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2010	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2011	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2012	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2013	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2014	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2015	Urban Unrestric	0.0000	kg	mi
2016	12	Weekday	PM2.5 Total	Running Exhaust	Combo Short-Haul Truck	Diesel	2016	Urban Unrestric	0.0000	kg	mi



yearID	monthID	Day	Pollutant	Process	Source	Fuel Type	Total Emission Rate	massUnits	distanceUnits	Notes
2016	7	Weekday	1,3-Butadiene	Running Exhaust	Passenger Car	Gasoline	1.31E-04	g	mi	Emission = 0 for model year 2001 and beyond
2016	7	Weekday	1,3-Butadiene	Crankcase Running	Passenger Car	Gasoline		g	mi	Emission = 0 for model year 2001 and beyond
2016	7	Weekday	1,3-Butadiene	Running Exhaust	LC Truck	Gasoline	3.94E-04	g	mi	Emission = 0 for model year 2001 and beyond
2016	7	Weekday	1,3-Butadiene	Crankcase Running	LC Truck	Gasoline		g	mi	Emission = 0 for model year 2001 and beyond
2016	7	Weekday	1,3-Butadiene	Running Exhaust	Combo Short-Haul Truck	Diesel	8.43E-04	g	mi	
2016	7	Weekday	1,3-Butadiene	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	Emission = 0 for model year 2007 and beyond
2016	7	Weekday	Acetaldehyde	Running Exhaust	Passenger Car	Gasoline	5.90E-04	g	mi	
2016	7	Weekday	Acetaldehyde	Crankcase Running	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Acetaldehyde	Running Exhaust	LC Truck	Gasoline	1.08E-03	g	mi	
2016	7	Weekday	Acetaldehyde	Crankcase Running	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Acetaldehyde	Running Exhaust	Combo Short-Haul Truck	Diesel	1.22E-02	g	mi	
2016	7	Weekday	Acetaldehyde	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	Emission = 0 for model year 2007 and beyond
2016	7	Weekday	Acrolein	Running Exhaust	Passenger Car	Gasoline	3.47E-05	g	mi	
2016	7	Weekday	Acrolein	Crankcase Running	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Acrolein	Running Exhaust	LC Truck	Gasoline	7.39E-05	g	mi	
2016	7	Weekday	Acrolein	Crankcase Running	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Acrolein	Running Exhaust	Combo Short-Haul Truck	Diesel	2.18E-03	g	mi	
2016	7	Weekday	Acrolein	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	
2016	7	Weekday	Benzene	Running Exhaust	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Crankcase Running	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Evap Fuel Leaks	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Evap Fuel Venting	Passenger Car	Gasoline	2.28E-03	g	mi	
2016	7	Weekday	Benzene	Evap Perm.	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Refueling loss	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Refueling Spill	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Benzene	Running Exhaust	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Crankcase Running	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Evap Fuel Leaks	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Evap Fuel Venting	LC Truck	Gasoline	4.72E-03	g	mi	
2016	7	Weekday	Benzene	Evap Perm.	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Refueling loss	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Refueling Spill	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Benzene	Running Exhaust	Combo Short-Haul Truck	Diesel	2.62E-03	g	mi	
2016	7	Weekday	Benzene	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	
2016	7	Weekday	Formaldehyde	Running Exhaust	Passenger Car	Gasoline	7.33E-04	g	mi	
2016	7	Weekday	Formaldehyde	Crankcase Running	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	Formaldehyde	Running Exhaust	LC Truck	Gasoline	1.51E-03	g	mi	
2016	7	Weekday	Formaldehyde	Crankcase Running	LC Truck	Gasoline		g	mi	
2016	7	Weekday	Formaldehyde	Running Exhaust	Combo Short-Haul Truck	Diesel	2.90E-02	g	mi	
2016	7	Weekday	Formaldehyde	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	
2016	7	Weekday	MBTE	Running Exhaust	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Crankcase Running	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Evap Fuel Leaks	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Evap Fuel Venting	Passenger Car	Gasoline	0.00E+00	g	mi	
2016	7	Weekday	MBTE	Evap Perm.	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Refueling loss	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Refueling Spill	Passenger Car	Gasoline		g	mi	
2016	7	Weekday	MBTE	Running Exhaust	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Crankcase Running	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Evap Fuel Leaks	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Evap Fuel Venting	LC Truck	Gasoline	0.00E+00	g	mi	
2016	7	Weekday	MBTE	Evap Perm.	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Refueling loss	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Refueling Spill	LC Truck	Gasoline		g	mi	
2016	7	Weekday	MBTE	Running Exhaust	Combo Short-Haul Truck	Diesel	0.00E+00	g	mi	
2016	7	Weekday	MBTE	Crankcase Running	Combo Short-Haul Truck	Diesel		g	mi	



## MOVES2014 NonRoad Emissions Factors

yearID	monthID	Fuel	Pollutant	Process	description	hpBin	emissionRate	emissionRateUnits
2015	6	Diesel	Total HC	Running Exhaust	Pavers	100 < hp <= 175	0.1992	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	100 < hp <= 175	0.0029	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	100 < hp <= 175	0.9196	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	100 < hp <= 175	2.2322	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	100 < hp <= 175	536.1956	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	100 < hp <= 175	0.2144	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	100 < hp <= 175	0.2079	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	11 < hp <= 16	5.1831	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	11 < hp <= 16	0.4290	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.0179	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.0242	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.0661	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.3167	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.1112	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	11 < hp <= 16	290.3471	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	11 < hp <= 16	1.8392	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	11 < hp <= 16	1045.2542	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	11 < hp <= 16	333.4728	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	11 < hp <= 16	0.1255	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	11 < hp <= 16	0.1155	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	16 < hp <= 25	5.0125	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	16 < hp <= 25	0.4311	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	16 < hp <= 25	0.0404	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0777	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0224	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.4266	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.1908	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0714	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	16 < hp <= 25	288.7743	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	16 < hp <= 25	1.8687	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	16 < hp <= 25	1046.1696	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	16 < hp <= 25	333.5686	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	16 < hp <= 25	0.1171	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	16 < hp <= 25	0.1077	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	16 < hp <= 25	0.4485	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	16 < hp <= 25	0.0002	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	16 < hp <= 25	2.3984	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	16 < hp <= 25	4.4580	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	16 < hp <= 25	594.7266	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	16 < hp <= 25	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	16 < hp <= 25	0.3537	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	16 < hp <= 25	0.3431	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	175 < hp <= 300	0.1798	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	175 < hp <= 300	0.0023	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	175 < hp <= 300	0.6866	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	175 < hp <= 300	2.0322	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	175 < hp <= 300	536.2572	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	175 < hp <= 300	0.1330	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	175 < hp <= 300	0.1290	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	25 < hp <= 40	0.3654	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	25 < hp <= 40	0.0174	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	25 < hp <= 40	0.0572	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	25 < hp <= 40	0.0051	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	25 < hp <= 40	0.0142	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	25 < hp <= 40	13.3261	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	25 < hp <= 40	1.0776	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	25 < hp <= 40	699.0332	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	25 < hp <= 40	219.5386	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	25 < hp <= 40	0.0698	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	25 < hp <= 40	0.0642	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	25 < hp <= 40	0.2065	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	25 < hp <= 40	0.0001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	25 < hp <= 40	0.9846	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	25 < hp <= 40	3.8477	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	25 < hp <= 40	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	25 < hp <= 40	595.4987	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	25 < hp <= 40	186.8797	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	25 < hp <= 40	0.1501	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	25 < hp <= 40	0.1456	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	3 < hp <= 6	6.9624	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0260	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0067	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.1552	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.7434	g/hp-hr



2015	6	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0946	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	3 < hp <= 6	216.2482	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	3 < hp <= 6	2.1909	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	3 < hp <= 6	1226.7349	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	3 < hp <= 6	392.3573	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	3 < hp <= 6	0.3744	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	3 < hp <= 6	0.3445	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	300 < hp <= 600	0.1798	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	300 < hp <= 600	0.0026	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	300 < hp <= 600	1.1261	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	300 < hp <= 600	2.8079	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	300 < hp <= 600	536.2575	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	300 < hp <= 600	0.1536	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	300 < hp <= 600	0.1490	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	40 < hp <= 50	0.2065	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	40 < hp <= 50	0.0001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	40 < hp <= 50	0.9846	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	40 < hp <= 50	3.8477	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	40 < hp <= 50	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	40 < hp <= 50	595.4983	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	40 < hp <= 50	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	40 < hp <= 50	0.1501	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	40 < hp <= 50	0.1456	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	50 < hp <= 75	1.1567	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pavers	50 < hp <= 75	0.2519	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	50 < hp <= 75	0.2923	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	50 < hp <= 75	0.0091	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	50 < hp <= 75	0.2185	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	50 < hp <= 75	0.0055	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	50 < hp <= 75	0.0220	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	50 < hp <= 75	39.5111	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	50 < hp <= 75	2.7090	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	50 < hp <= 75	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	50 < hp <= 75	717.3717	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	50 < hp <= 75	226.1748	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	50 < hp <= 75	0.0691	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	50 < hp <= 75	0.0636	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	50 < hp <= 75	0.2381	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	50 < hp <= 75	0.0024	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	50 < hp <= 75	2.2533	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	50 < hp <= 75	3.4872	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	50 < hp <= 75	595.3985	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	50 < hp <= 75	0.2428	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	50 < hp <= 75	0.2356	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pavers	6 < hp <= 11	5.1830	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pavers	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pavers	6 < hp <= 11	0.4290	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.0241	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.0070	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.0890	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.4264	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.1498	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pavers	6 < hp <= 11	290.3471	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pavers	6 < hp <= 11	1.8392	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pavers	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pavers	6 < hp <= 11	1045.2534	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Pavers	6 < hp <= 11	333.4726	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pavers	6 < hp <= 11	0.1255	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pavers	6 < hp <= 11	0.1155	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pavers	75 < hp <= 100	0.2365	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pavers	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pavers	75 < hp <= 100	2.4953	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pavers	75 < hp <= 100	2.6757	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pavers	75 < hp <= 100	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pavers	75 < hp <= 100	595.4030	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Pavers	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pavers	75 < hp <= 100	0.3213	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pavers	75 < hp <= 100	0.3117	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	56.8520	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tampers/Rammers	3 < hp <= 6	0.3564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tampers/Rammers	3 < hp <= 6	0.3942	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.1380	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.0104	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.5857	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	1.2727	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.2812	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tampers/Rammers	3 < hp <= 6	276.9391	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tampers/Rammers	3 < hp <= 6	1.3520	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0097	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	695.5212	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	275.7837	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tampers/Rammers	3 < hp <= 6	9.2690	g/hp-hr



2015	6	Gasoline	PM2.5	Running Exhaust	Tampers/Rammers	3 < hp <= 6	8.5275	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.6611	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0064	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tampers/Rammers	3 < hp <= 6	4.4827	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	1 < hp <= 3	1226.6257	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	1 < hp <= 3	392.3572	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	1 < hp <= 3	0.3767	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	1 < hp <= 3	0.3465	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	100 < hp <= 175	0.2443	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	100 < hp <= 175	0.0041	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	100 < hp <= 175	1.1221	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	100 < hp <= 175	2.8720	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	100 < hp <= 175	536.0519	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	100 < hp <= 175	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	100 < hp <= 175	0.2397	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	100 < hp <= 175	0.2325	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	11 < hp <= 16	5.1992	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	11 < hp <= 16	0.0626	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.0624	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.0220	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.4128	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.2959	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.1039	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	11 < hp <= 16	290.4975	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	11 < hp <= 16	1.8408	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	11 < hp <= 16	1045.1899	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	11 < hp <= 16	333.4706	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	11 < hp <= 16	0.1260	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	11 < hp <= 16	0.1160	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	11 < hp <= 16	0.4547	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	11 < hp <= 16	0.0010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	11 < hp <= 16	2.4812	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	11 < hp <= 16	4.4579	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	11 < hp <= 16	594.7067	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	11 < hp <= 16	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	11 < hp <= 16	0.3529	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	11 < hp <= 16	0.3423	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	1200 < hp <= 2000	0.3726	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	1200 < hp <= 2000	0.0060	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	1200 < hp <= 2000	2.0651	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	1200 < hp <= 2000	5.0418	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	1200 < hp <= 2000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	1200 < hp <= 2000	535.6424	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	1200 < hp <= 2000	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	1200 < hp <= 2000	0.2733	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	1200 < hp <= 2000	0.2651	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	16 < hp <= 25	5.0095	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	16 < hp <= 25	0.4311	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	16 < hp <= 25	0.0436	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0752	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0236	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.4154	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.2061	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0764	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	16 < hp <= 25	288.7498	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	16 < hp <= 25	1.8628	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	16 < hp <= 25	1046.1500	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	16 < hp <= 25	333.5587	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	16 < hp <= 25	0.1174	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	16 < hp <= 25	0.1080	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	16 < hp <= 25	0.4547	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	16 < hp <= 25	0.0010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	16 < hp <= 25	2.4812	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	16 < hp <= 25	4.4579	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	16 < hp <= 25	594.7073	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	16 < hp <= 25	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	16 < hp <= 25	0.3529	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	16 < hp <= 25	0.3423	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	175 < hp <= 300	0.2196	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	175 < hp <= 300	0.0034	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	175 < hp <= 300	0.8784	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	175 < hp <= 300	2.6728	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	175 < hp <= 300	536.1304	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	175 < hp <= 300	0.1657	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	175 < hp <= 300	0.1607	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	25 < hp <= 40	0.3622	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	25 < hp <= 40	0.0185	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	25 < hp <= 40	0.0538	g/hp-hr



2015	6	Gasoline	Total HC	HC losses	Trenchers	25 < hp <= 40	0.0054	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	25 < hp <= 40	0.0146	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	25 < hp <= 40	13.1837	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	25 < hp <= 40	1.0703	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	25 < hp <= 40	699.0451	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	25 < hp <= 40	219.5385	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	25 < hp <= 40	0.0699	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	25 < hp <= 40	0.0643	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	25 < hp <= 40	0.2291	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	25 < hp <= 40	0.0006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	25 < hp <= 40	1.2163	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	25 < hp <= 40	4.0446	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	25 < hp <= 40	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	25 < hp <= 40	595.4265	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	25 < hp <= 40	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	25 < hp <= 40	0.1940	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	25 < hp <= 40	0.1882	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	3 < hp <= 6	6.9922	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0261	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0067	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.1553	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.7632	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0971	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	3 < hp <= 6	216.3936	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	3 < hp <= 6	2.1960	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	3 < hp <= 6	1226.6277	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	3 < hp <= 6	392.3575	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	3 < hp <= 6	0.3767	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	3 < hp <= 6	0.3465	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	300 < hp <= 600	0.2381	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	300 < hp <= 600	0.0040	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	300 < hp <= 600	1.6152	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	300 < hp <= 600	3.6366	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	300 < hp <= 600	536.0712	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	300 < hp <= 600	0.2178	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	300 < hp <= 600	0.2113	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	40 < hp <= 50	0.2291	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	40 < hp <= 50	0.0006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	40 < hp <= 50	1.2163	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	40 < hp <= 50	4.0446	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	40 < hp <= 50	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	40 < hp <= 50	595.4267	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	40 < hp <= 50	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	40 < hp <= 50	0.1940	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	40 < hp <= 50	0.1882	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	50 < hp <= 75	1.1100	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Trenchers	50 < hp <= 75	0.2333	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	50 < hp <= 75	0.2917	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	50 < hp <= 75	0.0082	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	50 < hp <= 75	0.2341	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	50 < hp <= 75	0.0053	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	50 < hp <= 75	0.0217	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	50 < hp <= 75	38.0439	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	50 < hp <= 75	2.6115	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	50 < hp <= 75	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	50 < hp <= 75	715.9794	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	50 < hp <= 75	225.6858	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	50 < hp <= 75	0.0692	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	50 < hp <= 75	0.0636	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	50 < hp <= 75	0.3149	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	50 < hp <= 75	0.0044	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	50 < hp <= 75	2.6892	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	50 < hp <= 75	3.8930	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	50 < hp <= 75	595.1531	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	50 < hp <= 75	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	50 < hp <= 75	0.3338	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	50 < hp <= 75	0.3238	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	6 < hp <= 11	5.1992	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	6 < hp <= 11	0.0947	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.0680	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.0072	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.4128	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.4477	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.1573	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	6 < hp <= 11	290.4975	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	6 < hp <= 11	1.8408	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	6 < hp <= 11	1045.1888	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	6 < hp <= 11	333.4706	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	6	Gasoline	PM10	Running Exhaust	Trenchers	6 < hp <= 11	0.1260	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	6 < hp <= 11	0.1160	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	6 < hp <= 11	0.5707	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	6 < hp <= 11	0.0012	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	2.1872	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	5.1963	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	535.5988	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.2903	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.2816	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	48.1306	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	1 < hp <= 3	0.4848	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	1 < hp <= 3	0.4825	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.0894	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.0041	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.4264	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.5114	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	8.9836	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	253.1655	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	2.1067	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	0.0146	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	1040.6756	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	375.1208	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	7.9716	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	7.3339	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.3221	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.0059	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	1.1142	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	3.9892	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	530.0156	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.2408	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.2336	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.5034	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.0039	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	2.4616	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	4.6442	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	588.7633	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	185.0653	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.3577	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.3470	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	5.0844	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	16 < hp <= 25	0.4312	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	16 < hp <= 25	0.0467	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.1017	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0293	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.4857	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0625	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0806	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	289.4507	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	1.9201	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	1046.1143	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	333.6317	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.1168	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.1074	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.5034	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0039	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	2.4616	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	4.6442	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	588.7634	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.3577	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.3470	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.2907	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.0051	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.9247	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	3.7544	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	530.1160	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.1909	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.1851	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2872	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	1.3529	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	4.3262	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	589.4526	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2522	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2447	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	6.8449	g/hp-hr



2015	6	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0313	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0081	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.1864	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.2236	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0922	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	215.6741	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	2.1708	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	1227.1547	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	392.3568	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.3656	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.3364	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.6188	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0047	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	4.4588	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	4.6486	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	588.3958	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	185.0657	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.4460	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.4327	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2872	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	1.3529	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	4.3262	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	589.4537	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2522	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2447	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.4424	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.0075	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	2.4318	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	4.6745	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.0038	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	588.9579	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.4030	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.3909	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	5.1104	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	6 < hp <= 11	0.1020	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.0835	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.0090	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.4784	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.1364	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.1552	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	289.6740	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	1.8323	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	1045.5414	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	333.4813	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.1231	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.1133	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.6188	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0047	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	4.4588	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	4.6486	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	588.3956	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.4460	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.4327	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.4397	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.0082	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	2.3124	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	4.2080	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	588.9667	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.4122	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.3998	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	1 < hp <= 3	6.9922	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	1 < hp <= 3	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	1 < hp <= 3	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.0452	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.0117	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.2698	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	1.3258	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.1687	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	1 < hp <= 3	216.3935	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	1 < hp <= 3	2.1959	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	1 < hp <= 3	0.0173	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	11 < hp <= 16	2.5063	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	11 < hp <= 16	4.4590	g/hp-hr



2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	594.7001	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.3532	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.3426	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.3863	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.0064	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	2.1872	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	5.1963	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	535.5986	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.2903	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.2816	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	5.0769	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	16 < hp <= 25	0.4312	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	16 < hp <= 25	0.0442	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.0934	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.0265	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.4633	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.2812	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.1087	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	16 < hp <= 25	289.3813	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	16 < hp <= 25	1.9061	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	1046.0752	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	333.6111	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.1174	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.1080	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.4568	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0012	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	16 < hp <= 25	2.5063	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	16 < hp <= 25	4.4590	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	594.7000	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.3532	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.3426	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.2274	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.0036	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.9223	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	175 < hp <= 300	2.8044	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	175 < hp <= 300	536.1054	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	175 < hp <= 300	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.1743	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.1691	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.3880	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0045	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	25 < hp <= 40	0.2839	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	25 < hp <= 40	0.0183	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	25 < hp <= 40	0.0699	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	25 < hp <= 40	0.0074	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	25 < hp <= 40	0.0219	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	25 < hp <= 40	14.1377	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	25 < hp <= 40	1.1239	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	699.3274	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	219.6562	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0698	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0642	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.2329	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	25 < hp <= 40	1.2548	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	25 < hp <= 40	4.0662	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	595.4145	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.2018	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.1958	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	3 < hp <= 6	6.8808	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.0292	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.0075	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.1741	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	1.0382	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.1321	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	3 < hp <= 6	215.8490	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	3 < hp <= 6	2.1770	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	3 < hp <= 6	1227.0242	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	3 < hp <= 6	392.3570	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.3683	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.3389	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2543	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.0044	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	300 < hp <= 600	1.7459	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	300 < hp <= 600	3.8329	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	300 < hp <= 600	536.0197	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2360	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2289	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.2329	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	40 < hp <= 50	1.2548	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	40 < hp <= 50	4.0662	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	40 < hp <= 50	595.4146	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	40 < hp <= 50	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.2018	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.1958	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	1.4075	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3554	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	50 < hp <= 75	0.2958	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	50 < hp <= 75	0.0087	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	50 < hp <= 75	0.2648	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	50 < hp <= 75	0.0085	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	50 < hp <= 75	0.0310	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	50 < hp <= 75	47.2100	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	50 < hp <= 75	3.2263	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0102	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	725.1759	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	228.9025	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0690	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0635	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3301	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0048	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	50 < hp <= 75	2.7641	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	50 < hp <= 75	3.9691	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0038	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	595.1041	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3526	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3421	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	5.1331	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	6 < hp <= 11	0.0943	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.0775	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.0080	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.4580	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.6007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.2110	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	6 < hp <= 11	289.8843	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	6 < hp <= 11	1.8341	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	1045.4504	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	333.4781	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.1239	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.1140	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.5742	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0015	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	6 < hp <= 11	4.7258	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	6 < hp <= 11	4.3514	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	594.3252	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	186.8797	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.3939	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.3821	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2415	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.0041	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	600 < hp <= 750	2.0893	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	600 < hp <= 750	3.8286	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	600 < hp <= 750	536.0605	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2453	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2379	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.3291	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.0058	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	75 < hp <= 100	2.9480	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	75 < hp <= 100	3.3814	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	75 < hp <= 100	595.1075	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.4084	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.3961	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.3863	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.0064	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	16 < hp <= 25	0.1117	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	16 < hp <= 25	0.1028	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	16 < hp <= 25	0.4532	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	16 < hp <= 25	0.0008	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Paving Equipment	16 < hp <= 25	2.4626	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	16 < hp <= 25	4.4566	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	16 < hp <= 25	594.7115	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	16 < hp <= 25	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	16 < hp <= 25	0.3517	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	16 < hp <= 25	0.3412	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	175 < hp <= 300	0.2124	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	175 < hp <= 300	0.8407	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	175 < hp <= 300	2.5471	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	175 < hp <= 300	536.1531	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	175 < hp <= 300	168.2825	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	175 < hp <= 300	0.1576	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	175 < hp <= 300	0.1529	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	25 < hp <= 40	1.8609	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Paving Equipment	25 < hp <= 40	0.5447	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	25 < hp <= 40	0.3024	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	25 < hp <= 40	0.0161	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	25 < hp <= 40	0.7273	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	25 < hp <= 40	0.0169	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	25 < hp <= 40	0.0544	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	25 < hp <= 40	60.9818	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	25 < hp <= 40	4.1740	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0104	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	25 < hp <= 40	739.7276	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	25 < hp <= 40	233.9724	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0690	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0634	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	25 < hp <= 40	0.2243	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	25 < hp <= 40	0.0005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	25 < hp <= 40	1.1693	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	25 < hp <= 40	4.0043	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	25 < hp <= 40	595.4421	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	25 < hp <= 40	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	25 < hp <= 40	0.1851	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	25 < hp <= 40	0.1796	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	3 < hp <= 6	6.4050	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.0679	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.0175	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.4050	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.8663	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.1102	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	3 < hp <= 6	213.3272	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	3 < hp <= 6	2.0862	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	3 < hp <= 6	0.0174	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	3 < hp <= 6	1228.7267	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	3 < hp <= 6	392.3567	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3247	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	3 < hp <= 6	0.2987	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	3 < hp <= 6	0.5681	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	3 < hp <= 6	0.0011	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	3 < hp <= 6	4.6606	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	3 < hp <= 6	4.3339	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	3 < hp <= 6	594.3450	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	3 < hp <= 6	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3818	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3704	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	300 < hp <= 600	0.2220	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	300 < hp <= 600	0.0037	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	300 < hp <= 600	1.5150	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	300 < hp <= 600	3.5166	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	300 < hp <= 600	536.1226	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	300 < hp <= 600	0.2035	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	300 < hp <= 600	0.1974	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	50 < hp <= 75	3.1104	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Paving Equipment	50 < hp <= 75	1.0681	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	50 < hp <= 75	0.3216	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	50 < hp <= 75	0.0095	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	50 < hp <= 75	1.0382	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	50 < hp <= 75	0.0162	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	50 < hp <= 75	0.0422	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	50 < hp <= 75	97.8912	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	50 < hp <= 75	6.9119	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0111	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	50 < hp <= 75	782.7195	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	50 < hp <= 75	248.8505	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0686	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3006	g/hp-hr



2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	50 < hp <= 75	0.0041	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	50 < hp <= 75	2.6187	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	50 < hp <= 75	3.8201	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	50 < hp <= 75	595.1983	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3155	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3060	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	6 < hp <= 11	5.1194	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	6 < hp <= 11	0.4313	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	6 < hp <= 11	0.0986	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.2945	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.0197	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	1.0945	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.5213	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.2337	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	6 < hp <= 11	289.8072	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	6 < hp <= 11	1.9800	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	6 < hp <= 11	1046.2636	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	6 < hp <= 11	333.7182	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	6 < hp <= 11	0.1146	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	6 < hp <= 11	0.1055	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	6 < hp <= 11	0.5681	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	6 < hp <= 11	0.0011	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	6 < hp <= 11	4.6606	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	6 < hp <= 11	4.3339	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	6 < hp <= 11	594.3443	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	6 < hp <= 11	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	6 < hp <= 11	0.3818	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	6 < hp <= 11	0.3704	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	75 < hp <= 100	0.2994	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	75 < hp <= 100	0.0051	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	75 < hp <= 100	2.8184	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	75 < hp <= 100	3.1752	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	75 < hp <= 100	595.2022	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	75 < hp <= 100	0.3770	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	75 < hp <= 100	0.3657	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2527	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.0043	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	100 < hp <= 175	1.1669	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	100 < hp <= 175	3.0023	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	100 < hp <= 175	536.0249	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2464	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2390	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.3863	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.0064	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	2.1872	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	5.1963	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	535.5988	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.2903	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.2816	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	5.1332	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	11 < hp <= 16	0.0539	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.0693	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.0210	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.4580	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.3432	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.1205	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Surfacing Equipment	11 < hp <= 16	289.8849	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Surfacing Equipment	11 < hp <= 16	1.8341	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	1045.4515	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	333.4783	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.1239	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.1140	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.4568	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0012	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	25 < hp <= 40	0.0284	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	25 < hp <= 40	0.0047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	25 < hp <= 40	0.0106	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	25 < hp <= 40	12.3433	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	25 < hp <= 40	1.0264	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	25 < hp <= 40	699.1082	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	25 < hp <= 40	219.5387	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	25 < hp <= 40	0.0705	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	25 < hp <= 40	0.0648	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	25 < hp <= 40	0.2102	g/hp-hr



2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	25 < hp <= 40	0.0002	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	25 < hp <= 40	1.0252	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	25 < hp <= 40	3.8844	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	25 < hp <= 40	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	25 < hp <= 40	595.4870	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	25 < hp <= 40	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	25 < hp <= 40	0.1577	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	25 < hp <= 40	0.1530	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	3 < hp <= 6	0.5613	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	3 < hp <= 6	0.0005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	3 < hp <= 6	4.5782	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	3 < hp <= 6	4.3173	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	3 < hp <= 6	594.3663	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	3 < hp <= 6	186.8796	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	3 < hp <= 6	0.3669	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	3 < hp <= 6	0.3559	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	300 < hp <= 600	0.1883	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	300 < hp <= 600	0.0029	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	300 < hp <= 600	1.2098	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	300 < hp <= 600	2.9875	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	300 < hp <= 600	536.2301	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	300 < hp <= 600	168.2825	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	300 < hp <= 600	0.1637	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	300 < hp <= 600	0.1587	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	40 < hp <= 50	0.2102	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	40 < hp <= 50	0.0002	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	40 < hp <= 50	1.0252	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	40 < hp <= 50	3.8844	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	40 < hp <= 50	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	40 < hp <= 50	595.4869	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	40 < hp <= 50	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	40 < hp <= 50	0.1577	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	40 < hp <= 50	0.1530	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	50 < hp <= 75	0.5365	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rollers	50 < hp <= 75	0.0531	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	50 < hp <= 75	0.2855	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	50 < hp <= 75	0.0080	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	50 < hp <= 75	0.0726	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	50 < hp <= 75	0.0035	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	50 < hp <= 75	0.0116	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	50 < hp <= 75	19.0430	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	50 < hp <= 75	1.4312	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	50 < hp <= 75	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	50 < hp <= 75	702.8869	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	50 < hp <= 75	220.9383	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	50 < hp <= 75	0.0695	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	50 < hp <= 75	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	50 < hp <= 75	0.2542	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	50 < hp <= 75	0.0028	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	50 < hp <= 75	2.3625	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	50 < hp <= 75	3.5777	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	50 < hp <= 75	595.3464	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	50 < hp <= 75	0.2605	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	50 < hp <= 75	0.2527	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	6 < hp <= 11	5.5054	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	6 < hp <= 11	0.0945	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.0441	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.0049	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.2845	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.4757	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.1671	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	6 < hp <= 11	293.3350	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	6 < hp <= 11	1.8832	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	6 < hp <= 11	0.0147	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	6 < hp <= 11	1044.0438	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	6 < hp <= 11	333.4544	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	6 < hp <= 11	0.1353	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	6 < hp <= 11	0.1245	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	6 < hp <= 11	0.5613	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	6 < hp <= 11	0.0005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	6 < hp <= 11	4.5782	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	6 < hp <= 11	4.3173	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	6 < hp <= 11	594.3673	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	6 < hp <= 11	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	6 < hp <= 11	0.3669	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	6 < hp <= 11	0.3559	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	75 < hp <= 100	0.5365	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rollers	75 < hp <= 100	0.0531	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	75 < hp <= 100	0.2855	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	75 < hp <= 100	0.0080	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	75 < hp <= 100	0.0531	g/hp-hr



2015	6	Gasoline	Total HC	HC losses	Rollers	75 < hp <= 100	0.0026	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	75 < hp <= 100	0.0085	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	75 < hp <= 100	19.0430	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	75 < hp <= 100	1.4312	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	75 < hp <= 100	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	75 < hp <= 100	702.8869	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	75 < hp <= 100	220.9385	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	75 < hp <= 100	0.0695	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	75 < hp <= 100	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	75 < hp <= 100	0.2527	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	75 < hp <= 100	0.0040	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	75 < hp <= 100	2.5920	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	75 < hp <= 100	2.8205	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	75 < hp <= 100	595.3513	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	75 < hp <= 100	0.3337	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	75 < hp <= 100	0.3237	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	1 < hp <= 3	45.0800	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	1 < hp <= 3	0.4848	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	1 < hp <= 3	0.4825	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.2392	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.0110	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	1.1410	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	2.4406	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.5392	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	1 < hp <= 3	244.0345	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	1 < hp <= 3	2.1067	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	1 < hp <= 3	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	1 < hp <= 3	1050.5599	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	1 < hp <= 3	375.1201	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	1 < hp <= 3	7.6888	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	1 < hp <= 3	7.0737	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2366	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	100 < hp <= 175	0.0039	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	100 < hp <= 175	1.0838	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	100 < hp <= 175	2.7484	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	100 < hp <= 175	536.0761	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2333	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2263	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	11 < hp <= 16	5.1194	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	11 < hp <= 16	0.4313	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	11 < hp <= 16	0.0635	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.2682	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.0587	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	1.0945	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.3355	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.1504	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	11 < hp <= 16	289.8072	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	11 < hp <= 16	1.9800	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	11 < hp <= 16	1046.2646	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	11 < hp <= 16	333.7181	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Paving Equipment	11 < hp <= 16	0.1146	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Paving Equipment	11 < hp <= 16	0.1055	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Paving Equipment	11 < hp <= 16	0.4532	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	11 < hp <= 16	0.0008	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Paving Equipment	11 < hp <= 16	2.4626	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Paving Equipment	11 < hp <= 16	4.4566	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Paving Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	11 < hp <= 16	594.7117	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Paving Equipment	11 < hp <= 16	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Paving Equipment	11 < hp <= 16	0.3517	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Paving Equipment	11 < hp <= 16	0.3412	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Paving Equipment	16 < hp <= 25	5.8485	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	16 < hp <= 25	0.4327	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	16 < hp <= 25	0.0422	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.4622	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.2478	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	1.2529	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.2225	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.2012	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Paving Equipment	16 < hp <= 25	299.6313	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Paving Equipment	16 < hp <= 25	2.5831	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Paving Equipment	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	16 < hp <= 25	1047.0647	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Paving Equipment	16 < hp <= 25	334.7863	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tampers/Rammers	3 < hp <= 6	4.8822	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	588.2605	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.4778	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.4635	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tampers/Rammers	6 < hp <= 11	5.2203	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tampers/Rammers	6 < hp <= 11	0.4314	g/hp-hr



2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tampers/Rammers	6 < hp <= 11	0.4771	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.1567	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.0343	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.3073	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.6348	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.3234	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tampers/Rammers	6 < hp <= 11	290.8411	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tampers/Rammers	6 < hp <= 11	2.0680	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tampers/Rammers	6 < hp <= 11	1046.2490	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tampers/Rammers	6 < hp <= 11	333.8264	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.1138	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.1047	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Plate Compactors	1 < hp <= 3	44.5110	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	1 < hp <= 3	0.4848	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	1 < hp <= 3	0.5361	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.2808	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.0138	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	1.2838	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	2.8943	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.6395	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Plate Compactors	1 < hp <= 3	242.1961	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Plate Compactors	1 < hp <= 3	2.1067	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Plate Compactors	1 < hp <= 3	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	1 < hp <= 3	1052.4056	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Plate Compactors	1 < hp <= 3	375.1203	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Plate Compactors	1 < hp <= 3	7.6375	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Plate Compactors	1 < hp <= 3	7.0265	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Plate Compactors	11 < hp <= 16	5.2052	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	11 < hp <= 16	0.4314	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	11 < hp <= 16	0.4771	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.0871	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.0848	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.1748	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.3767	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.1853	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Plate Compactors	11 < hp <= 16	290.6728	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Plate Compactors	11 < hp <= 16	2.0479	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Plate Compactors	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	11 < hp <= 16	1046.2183	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Plate Compactors	11 < hp <= 16	333.8001	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Plate Compactors	11 < hp <= 16	0.1142	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Plate Compactors	11 < hp <= 16	0.1051	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Plate Compactors	11 < hp <= 16	0.5290	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	11 < hp <= 16	0.0049	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Plate Compactors	11 < hp <= 16	2.5239	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Plate Compactors	11 < hp <= 16	4.7286	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Plate Compactors	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	11 < hp <= 16	588.6814	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Plate Compactors	11 < hp <= 16	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Plate Compactors	11 < hp <= 16	0.3693	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Plate Compactors	11 < hp <= 16	0.3583	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Plate Compactors	16 < hp <= 25	0.5290	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	16 < hp <= 25	0.0049	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Plate Compactors	16 < hp <= 25	2.5239	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Plate Compactors	16 < hp <= 25	4.7286	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Plate Compactors	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	16 < hp <= 25	588.6819	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Plate Compactors	16 < hp <= 25	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Plate Compactors	16 < hp <= 25	0.3693	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Plate Compactors	16 < hp <= 25	0.3583	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Plate Compactors	3 < hp <= 6	6.6548	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	3 < hp <= 6	0.5608	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.0911	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.0231	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.4829	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	1.0825	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.1530	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Plate Compactors	3 < hp <= 6	214.1458	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Plate Compactors	3 < hp <= 6	2.1095	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Plate Compactors	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	3 < hp <= 6	1227.8326	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Plate Compactors	3 < hp <= 6	392.3569	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Plate Compactors	3 < hp <= 6	0.3274	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Plate Compactors	3 < hp <= 6	0.3012	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Plate Compactors	3 < hp <= 6	0.6478	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	3 < hp <= 6	0.0059	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Plate Compactors	3 < hp <= 6	4.4747	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Plate Compactors	3 < hp <= 6	4.8073	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Plate Compactors	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	3 < hp <= 6	588.3026	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Plate Compactors	3 < hp <= 6	185.0654	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Plate Compactors	3 < hp <= 6	0.4682	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Plate Compactors	3 < hp <= 6	0.4541	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Plate Compactors	6 < hp <= 11	5.2052	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	6 < hp <= 11	0.4314	g/hp-hr



2015	6	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	6 < hp <= 11	0.4771	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.1342	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.0282	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.2693	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.5803	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.2855	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Plate Compactors	6 < hp <= 11	290.6724	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Plate Compactors	6 < hp <= 11	2.0479	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Plate Compactors	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	6 < hp <= 11	1046.2189	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Plate Compactors	6 < hp <= 11	333.7999	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Plate Compactors	6 < hp <= 11	0.1142	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Plate Compactors	6 < hp <= 11	0.1051	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Plate Compactors	6 < hp <= 11	0.6478	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	6 < hp <= 11	0.0059	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Plate Compactors	6 < hp <= 11	4.4747	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Plate Compactors	6 < hp <= 11	4.8073	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Plate Compactors	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	6 < hp <= 11	588.3029	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Plate Compactors	6 < hp <= 11	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Plate Compactors	6 < hp <= 11	0.4682	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Plate Compactors	6 < hp <= 11	0.4541	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	100 < hp <= 175	0.2097	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	100 < hp <= 175	0.9610	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	100 < hp <= 175	2.3763	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	100 < hp <= 175	536.1618	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	100 < hp <= 175	0.2192	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	100 < hp <= 175	0.2126	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	11 < hp <= 16	5.5054	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	11 < hp <= 16	0.0568	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.0398	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.0138	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.2845	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.2857	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.1003	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	11 < hp <= 16	293.3354	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	11 < hp <= 16	1.8832	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	11 < hp <= 16	0.0147	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	11 < hp <= 16	1044.0421	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	11 < hp <= 16	333.4544	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	11 < hp <= 16	0.1353	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	11 < hp <= 16	0.1245	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	11 < hp <= 16	0.4492	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	11 < hp <= 16	0.0004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	11 < hp <= 16	2.4090	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	11 < hp <= 16	4.4565	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	11 < hp <= 16	594.7246	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	11 < hp <= 16	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	11 < hp <= 16	0.3521	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	11 < hp <= 16	0.3415	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	16 < hp <= 25	5.0666	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	16 < hp <= 25	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	16 < hp <= 25	0.0441	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0435	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0164	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.2845	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.2219	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0779	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rollers	16 < hp <= 25	289.2707	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rollers	16 < hp <= 25	1.8302	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rollers	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rollers	16 < hp <= 25	1045.7266	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rollers	16 < hp <= 25	333.4902	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rollers	16 < hp <= 25	0.1216	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rollers	16 < hp <= 25	0.1118	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	16 < hp <= 25	0.4492	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	16 < hp <= 25	0.0004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	16 < hp <= 25	2.4090	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	16 < hp <= 25	4.4565	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	16 < hp <= 25	594.7243	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	16 < hp <= 25	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	16 < hp <= 25	0.3521	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rollers	16 < hp <= 25	0.3415	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rollers	175 < hp <= 300	0.1885	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rollers	175 < hp <= 300	0.0025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rollers	175 < hp <= 300	0.7233	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rollers	175 < hp <= 300	2.1732	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rollers	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rollers	175 < hp <= 300	536.2300	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rollers	175 < hp <= 300	168.2825	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rollers	175 < hp <= 300	0.1391	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	6	Diesel	PM2.5	Running Exhaust	Rollers	175 < hp <= 300	0.1349	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rollers	25 < hp <= 40	0.3443	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rollers	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rollers	25 < hp <= 40	0.0150	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	6 < hp <= 11	4.6889	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	6 < hp <= 11	4.3415	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	6 < hp <= 11	594.3368	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	6 < hp <= 11	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	6 < hp <= 11	0.3870	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	6 < hp <= 11	0.3754	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	600 < hp <= 750	0.2252	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	600 < hp <= 750	0.0038	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	600 < hp <= 750	1.9718	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	600 < hp <= 750	3.6329	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	600 < hp <= 750	536.1125	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	600 < hp <= 750	0.2274	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	600 < hp <= 750	0.2206	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Trenchers	75 < hp <= 100	1.1100	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Trenchers	75 < hp <= 100	0.2333	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	75 < hp <= 100	0.2917	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	75 < hp <= 100	0.0082	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	75 < hp <= 100	0.1805	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	75 < hp <= 100	0.0041	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Trenchers	75 < hp <= 100	0.0167	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Trenchers	75 < hp <= 100	38.0439	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Trenchers	75 < hp <= 100	2.6115	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Trenchers	75 < hp <= 100	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	75 < hp <= 100	715.9792	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Trenchers	75 < hp <= 100	225.6858	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Trenchers	75 < hp <= 100	0.0692	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Trenchers	75 < hp <= 100	0.0636	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Trenchers	75 < hp <= 100	0.3137	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	75 < hp <= 100	0.0055	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Trenchers	75 < hp <= 100	2.8814	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Trenchers	75 < hp <= 100	3.2766	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Trenchers	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Trenchers	75 < hp <= 100	595.1565	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Trenchers	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Trenchers	75 < hp <= 100	0.3925	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Trenchers	75 < hp <= 100	0.3807	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	6.7130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	0 < hp <= 1	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	0 < hp <= 1	1.0996	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.3451	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.1221	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	1.3078	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	1.1392	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.5557	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	214.2343	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	2.1100	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	1227.6262	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	392.3575	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.3241	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.2982	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	6.7130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	1 < hp <= 3	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	1 < hp <= 3	0.4480	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.2362	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.0498	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	1.3078	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.4642	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.2264	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	214.2340	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	2.1100	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	1227.6260	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	392.3573	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.3241	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.2982	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	3.1095	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	1.0677	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	100 < hp <= 175	0.3216	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	100 < hp <= 175	0.0053	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	100 < hp <= 175	1.2679	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	100 < hp <= 175	0.0067	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	100 < hp <= 175	0.0176	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	97.8638	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	6.9102	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0111	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	782.6933	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	248.8413	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0686	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0631	g/hp-hr



2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.3564	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0066	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	1.3115	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	4.5066	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	529.9060	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.2684	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.2604	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.4154	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.0071	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	1.6142	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	5.8306	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	529.7179	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.2507	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.2432	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	5.2494	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	11 < hp <= 16	0.4315	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	11 < hp <= 16	0.0526	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.3775	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.0871	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	1.3730	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.0641	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.1108	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	291.1451	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	2.0966	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	1046.2601	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	333.8626	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.1133	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.1043	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.5394	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0053	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	2.5490	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	4.7622	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	588.6486	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.3743	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.3630	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.4154	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.0071	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	1.6142	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	5.8306	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	529.7180	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.2507	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.2432	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	6.1494	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	16 < hp <= 25	0.4345	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	16 < hp <= 25	0.0398	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.6250	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.4974	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	1.5830	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.0481	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.1604	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	309.0021	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	2.7915	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	1050.3465	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	336.1528	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.1119	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.1029	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.5394	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0053	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	2.5490	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	4.7622	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	588.6486	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.3743	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.3630	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.3264	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.0059	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	1.1328	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	4.2837	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	530.0017	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.2231	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.2164	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	2.3842	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.7645	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	25 < hp <= 40	0.3103	g/hp-hr



2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	25 < hp <= 40	0.0193	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	25 < hp <= 40	1.0465	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	25 < hp <= 40	0.0191	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	25 < hp <= 40	0.0552	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	76.6067	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	5.3000	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0107	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	757.3119	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	240.0715	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0688	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0633	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	100 < hp <= 175	0.2862	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	100 < hp <= 175	0.0049	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	100 < hp <= 175	0.0736	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	100 < hp <= 175	0.0018	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	100 < hp <= 175	0.0059	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	20.8635	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	1.5467	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0100	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	704.3239	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	221.4524	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0695	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2097	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.9608	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	2.3751	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	536.1620	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2191	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2126	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.2964	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.0042	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	1.5046	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	4.4349	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	535.8855	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.1981	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.1922	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.2964	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.0042	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	1.5046	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	4.4349	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	535.8858	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	168.2828	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.1981	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.1922	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.4491	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.0004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	2.4082	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	4.4566	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	594.7247	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	186.8802	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.3521	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.3415	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1884	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.0025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.7232	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	2.1720	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	536.2298	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1390	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1349	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.2964	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.0042	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	1.5046	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	4.4349	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	535.8856	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.1981	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.1922	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.3452	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	25 < hp <= 40	0.0150	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	25 < hp <= 40	0.0301	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	25 < hp <= 40	0.0041	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	25 < hp <= 40	0.0092	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	12.3644	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	1.0272	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	699.1051	g/hp-hr



2015	6	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	219.5385	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0706	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0649	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.2101	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0002	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	1.0241	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	3.8840	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	595.4870	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.1575	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.1527	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1875	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.0029	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	1.2049	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	2.9891	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	536.2330	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1637	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1588	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.2101	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.0002	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	1.0241	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	3.8840	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	595.4868	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.1575	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.1527	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.5931	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0726	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	50 < hp <= 75	0.2862	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	50 < hp <= 75	0.0079	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	50 < hp <= 75	0.0736	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	50 < hp <= 75	0.0028	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rubber Tire Loaders	50 < hp <= 75	0.0094	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	20.8636	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	1.5467	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0100	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	704.3238	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	221.4525	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0695	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2541	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0028	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	2.3621	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	3.5770	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	595.3471	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2603	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2525	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1787	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	1.6225	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	3.0003	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	536.2611	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1722	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1671	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.2526	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.0040	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	2.5916	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	2.8195	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	595.3515	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.3336	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.3236	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.2964	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.0042	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	1.5046	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	4.4349	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.5069	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	2.3599	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	530.4271	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.1011	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0981	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.2167	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.0003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	1.0131	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	3.9655	g/hp-hr



2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	589.6782	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.1653	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.1603	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	6.7930	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	3 < hp <= 6	0.2290	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0673	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0105	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.5347	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.7147	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0909	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	215.4201	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	2.1620	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	1227.3410	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	392.3576	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.3618	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.3328	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1987	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.0031	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.8763	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	3.3249	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	530.4093	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1296	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1257	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.2167	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.0003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	1.0131	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	3.9655	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	589.6777	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.1653	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.1603	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	1.8806	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.5530	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	50 < hp <= 75	0.3027	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	50 < hp <= 75	0.0094	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	50 < hp <= 75	0.3691	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	50 < hp <= 75	0.0069	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	50 < hp <= 75	0.0222	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	61.5739	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	4.2160	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0105	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	740.3797	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	234.1989	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0689	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0634	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	1.9576	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	3.7762	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	589.5147	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	185.0654	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2429	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2356	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	5.0657	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	6 < hp <= 11	0.0942	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.0944	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.0093	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.5347	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.3458	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.1215	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	289.2629	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	1.8302	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	1045.7309	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	333.4901	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.1215	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.1118	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1895	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.0030	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	1.1388	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	3.3297	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	530.4383	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1380	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1338	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2635	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.0043	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	1.7665	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	3.0347	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	589.5289	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	185.0657	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2581	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2504	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.3167	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.0047	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	1.1197	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	4.8910	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	530.0332	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	166.4684	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.1765	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.1712	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	1.1496	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.2492	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	100 < hp <= 175	0.2922	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	100 < hp <= 175	0.0050	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	100 < hp <= 175	0.2161	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	100 < hp <= 175	0.0031	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	100 < hp <= 175	0.0126	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	39.2836	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	2.6941	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	717.1723	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	226.1042	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0691	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0636	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	5.0086	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	16 < hp <= 25	0.4311	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	16 < hp <= 25	0.0366	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0757	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0202	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.4239	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.1812	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0675	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	288.7414	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	1.8659	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	1046.1706	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	333.5643	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.1171	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.1078	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.3648	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	25 < hp <= 40	0.0191	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	25 < hp <= 40	0.0565	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	25 < hp <= 40	0.0059	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	25 < hp <= 40	0.0162	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	13.2986	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	1.0762	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	699.0354	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	219.5386	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0698	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0642	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	1.1496	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.2492	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	50 < hp <= 75	0.2922	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	50 < hp <= 75	0.0086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	50 < hp <= 75	0.2164	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	50 < hp <= 75	0.0054	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	50 < hp <= 75	0.0217	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	39.2836	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	2.6941	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	717.1719	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	226.1044	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0691	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0636	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	1.1496	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.2492	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	75 < hp <= 100	0.2922	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	75 < hp <= 100	0.0086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	75 < hp <= 100	0.1783	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	75 < hp <= 100	0.0045	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Rough Terrain Forklift	75 < hp <= 100	0.0179	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	39.2836	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	2.6941	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0101	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	717.1722	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	226.1042	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0691	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0636	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.5931	g/hp-hr



2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0726	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	16 < hp <= 25	0.1147	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	16 < hp <= 25	0.1056	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	175 < hp <= 300	0.1880	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	175 < hp <= 300	0.0026	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	175 < hp <= 300	0.4908	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	175 < hp <= 300	2.2711	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	175 < hp <= 300	530.4435	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	175 < hp <= 300	166.4684	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	175 < hp <= 300	0.0978	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	175 < hp <= 300	0.0949	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	25 < hp <= 40	0.5238	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	25 < hp <= 40	0.0487	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	25 < hp <= 40	0.2854	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	25 < hp <= 40	0.0151	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	25 < hp <= 40	0.1218	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	25 < hp <= 40	0.0075	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	25 < hp <= 40	0.0246	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	25 < hp <= 40	18.6320	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	25 < hp <= 40	1.4051	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	25 < hp <= 40	702.5623	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	25 < hp <= 40	220.8225	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	25 < hp <= 40	0.0695	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	25 < hp <= 40	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	25 < hp <= 40	0.2127	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	25 < hp <= 40	0.0003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	25 < hp <= 40	0.9750	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	25 < hp <= 40	3.9223	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	25 < hp <= 40	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	25 < hp <= 40	589.6907	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	25 < hp <= 40	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	25 < hp <= 40	0.1585	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	25 < hp <= 40	0.1537	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	300 < hp <= 600	0.1926	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	300 < hp <= 600	0.0030	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	300 < hp <= 600	0.8226	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	300 < hp <= 600	3.2125	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	300 < hp <= 600	530.4290	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	300 < hp <= 600	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	300 < hp <= 600	0.1237	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	300 < hp <= 600	0.1200	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	40 < hp <= 50	0.2127	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	40 < hp <= 50	0.0003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	40 < hp <= 50	0.9750	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	40 < hp <= 50	3.9224	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	40 < hp <= 50	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	40 < hp <= 50	589.6908	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	40 < hp <= 50	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	40 < hp <= 50	0.1585	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	40 < hp <= 50	0.1537	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	50 < hp <= 75	2.0256	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	50 < hp <= 75	0.6138	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	50 < hp <= 75	0.3048	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	50 < hp <= 75	0.0086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	50 < hp <= 75	0.4064	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	50 < hp <= 75	0.0123	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	50 < hp <= 75	0.0381	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	50 < hp <= 75	65.9301	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	50 < hp <= 75	4.5239	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	50 < hp <= 75	0.0105	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	50 < hp <= 75	745.1646	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	50 < hp <= 75	235.8614	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	50 < hp <= 75	0.0689	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	50 < hp <= 75	0.0634	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	50 < hp <= 75	0.2591	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	50 < hp <= 75	0.0030	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	50 < hp <= 75	1.9305	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	50 < hp <= 75	3.7203	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	50 < hp <= 75	589.5431	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	50 < hp <= 75	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	50 < hp <= 75	0.2357	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	50 < hp <= 75	0.2286	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	6 < hp <= 11	5.1135	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	6 < hp <= 11	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	6 < hp <= 11	0.1051	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.1053	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.0109	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.5615	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.6981	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.2452	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	6 < hp <= 11	289.7153	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	6 < hp <= 11	1.8447	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	6 < hp <= 11	0.0148	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	6 < hp <= 11	1045.5902	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	6 < hp <= 11	333.4999	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	6 < hp <= 11	0.1226	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	6 < hp <= 11	0.1127	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	600 < hp <= 750	0.1841	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	600 < hp <= 750	0.0028	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	600 < hp <= 750	1.0914	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	600 < hp <= 750	3.2202	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	600 < hp <= 750	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	600 < hp <= 750	530.4559	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	600 < hp <= 750	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	600 < hp <= 750	0.1317	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	600 < hp <= 750	0.1278	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	75 < hp <= 100	0.2546	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	75 < hp <= 100	0.0041	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	75 < hp <= 100	1.7327	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	75 < hp <= 100	2.9511	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	75 < hp <= 100	589.5571	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	75 < hp <= 100	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	75 < hp <= 100	0.2515	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	75 < hp <= 100	0.2439	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	750 < hp <= 1000	0.3052	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	750 < hp <= 1000	0.0045	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	750 < hp <= 1000	1.0451	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	750 < hp <= 1000	4.7798	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	750 < hp <= 1000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	750 < hp <= 1000	530.0693	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	750 < hp <= 1000	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	750 < hp <= 1000	0.1671	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	750 < hp <= 1000	0.1621	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	48.1305	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	1 < hp <= 3	0.4848	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	1 < hp <= 3	0.5256	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.1160	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.0113	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.5347	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	1.7157	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.3791	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	253.1650	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	2.1067	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	0.0146	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	1040.6763	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	375.1212	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	7.9716	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	7.3339	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.2149	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.0034	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.6642	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	2.5732	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	530.3577	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	166.4684	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.1592	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.1544	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	5.0657	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	11 < hp <= 16	0.0526	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0841	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0240	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.5347	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.1930	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0678	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	289.2630	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	1.8302	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	1045.7285	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	333.4900	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.1215	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.1118	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.4494	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.0005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	2.3622	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	4.4686	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	588.9360	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.3477	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.3373	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.1931	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	3.2778	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	5.6720	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	587.7376	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.5416	g/hp-hr



2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.5254	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.3437	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.0063	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	1.2017	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	4.4831	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	529.9466	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.2187	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.2121	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.6584	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.0113	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	2.4326	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	5.0442	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.0038	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	588.2688	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.4408	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.4275	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	8.8248	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	3 < hp <= 6	0.1896	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.6324	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.0376	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	2.4192	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.8523	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.3093	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	221.9172	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	2.3161	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0172	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	1220.0996	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	392.3660	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.3354	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.3086	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.8808	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0130	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	4.7286	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	6.1684	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	587.5593	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.6584	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.6386	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.2954	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.0053	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	1.3109	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	4.4755	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	530.1009	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.1832	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.1777	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.5073	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.0090	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	2.5782	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	5.1606	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.0038	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	588.7512	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	185.0656	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.4212	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.4086	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	6.0095	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	6 < hp <= 11	0.4334	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	6 < hp <= 11	0.1010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	1.2153	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.2489	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	2.6641	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.5314	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.5201	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	303.8232	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	2.6985	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	1048.3250	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	335.3621	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.1118	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.1028	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.8808	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0130	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	4.7286	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	6.1684	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	587.5594	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.6584	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.6386	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.2853	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.0051	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	1.5097	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	4.4686	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	530.1328	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.1897	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.1840	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.5049	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.0096	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	2.4771	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	4.7621	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	588.7585	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.4285	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.4157	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	100 < hp <= 175	2.0256	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	100 < hp <= 175	0.6138	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	100 < hp <= 175	0.3048	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	100 < hp <= 175	0.0052	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	100 < hp <= 175	0.4064	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	100 < hp <= 175	0.0074	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	100 < hp <= 175	0.0228	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	100 < hp <= 175	65.9301	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	100 < hp <= 175	4.5239	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	100 < hp <= 175	0.0105	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	100 < hp <= 175	745.1648	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	100 < hp <= 175	235.8615	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	100 < hp <= 175	0.0689	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	100 < hp <= 175	0.0634	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	100 < hp <= 175	0.2091	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	100 < hp <= 175	0.6473	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	100 < hp <= 175	2.4847	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	100 < hp <= 175	530.3762	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	100 < hp <= 175	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	100 < hp <= 175	0.1562	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	100 < hp <= 175	0.1515	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cranes	1000 < hp <= 1200	0.3052	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cranes	1000 < hp <= 1200	0.0045	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cranes	1000 < hp <= 1200	1.0451	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cranes	1000 < hp <= 1200	4.7798	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cranes	1000 < hp <= 1200	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cranes	1000 < hp <= 1200	530.0693	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cranes	1000 < hp <= 1200	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cranes	1000 < hp <= 1200	0.1671	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cranes	1000 < hp <= 1200	0.1621	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	11 < hp <= 16	5.1135	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	11 < hp <= 16	0.0600	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.0934	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.0287	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.5615	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.3984	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.1399	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	11 < hp <= 16	289.7156	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	11 < hp <= 16	1.8447	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	11 < hp <= 16	1045.5902	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	11 < hp <= 16	333.5000	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cranes	11 < hp <= 16	0.1226	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cranes	11 < hp <= 16	0.1127	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cranes	16 < hp <= 25	5.1200	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cranes	16 < hp <= 25	0.4313	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cranes	16 < hp <= 25	0.0463	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.1342	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.0349	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.5792	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.3075	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.1375	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cranes	16 < hp <= 25	289.8080	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cranes	16 < hp <= 25	1.9784	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cranes	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cranes	16 < hp <= 25	1046.2524	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cranes	16 < hp <= 25	333.7152	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	4.4580	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	594.7050	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.3528	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.3422	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.2221	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.0034	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.8928	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	2.7126	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.0032	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	536.1218	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.1681	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.1630	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.3510	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	25 < hp <= 40	0.0159	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	25 < hp <= 40	0.0230	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	25 < hp <= 40	0.0040	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	25 < hp <= 40	0.0089	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	12.4999	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	1.0325	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	699.0846	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	219.5386	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0712	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0655	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.2304	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	1.2297	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	4.0531	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	595.4227	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.1967	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.1908	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	59.7909	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	3 < hp <= 6	0.3564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	3 < hp <= 6	0.1535	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.0357	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.0009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.2302	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.7426	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.1641	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	289.6552	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	1.3520	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	0.0096	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	685.9962	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	275.7839	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	9.7482	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	8.9683	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.2304	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	1.2297	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	4.0531	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	595.4221	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.1967	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.1908	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3921	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0059	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	50 < hp <= 75	0.2839	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	50 < hp <= 75	0.0084	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	50 < hp <= 75	0.0355	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	50 < hp <= 75	0.0021	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	50 < hp <= 75	0.0064	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	14.2711	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	1.1324	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	699.4353	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	219.6946	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0698	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0642	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3198	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0046	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	2.7134	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	3.9165	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	595.1371	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3395	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3293	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	5.4549	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	6 < hp <= 11	0.4309	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	6 < hp <= 11	0.0985	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.0309	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.0042	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.2302	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.3943	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.1385	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	292.9126	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	1.8547	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0147	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	1044.1091	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	333.4183	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.1354	g/hp-hr



2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.1246	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.5717	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0013	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	4.7002	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	4.3441	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	594.3340	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.3891	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.3774	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3187	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.0056	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	2.9025	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	3.3090	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	595.1406	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3972	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3853	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	8.8248	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	1 < hp <= 3	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	1 < hp <= 3	0.3424	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.7704	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.0679	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	2.4192	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	1.5395	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.5586	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	221.9172	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	2.3161	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.0172	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	1220.1000	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	392.3661	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.3354	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.3086	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.3726	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.0069	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	1.3694	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	4.6987	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	529.8547	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	166.4683	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.2591	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.2513	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	6.0095	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	11 < hp <= 16	0.4334	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	11 < hp <= 16	0.0626	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	1.0977	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.7137	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	2.6641	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.3291	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.3221	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	303.8233	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	2.6985	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	1048.3252	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	335.3622	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.1118	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.1028	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.8250	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0128	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	3.2778	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	5.6720	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	587.7376	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.5416	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.5254	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	7.9524	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.4135	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	16 < hp <= 25	0.4505	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	16 < hp <= 25	0.0492	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	1.3572	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	2.1717	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	2.9082	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.2490	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.3277	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	372.3084	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	3.4092	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0153	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	1083.3828	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	348.5307	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.1191	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.1096	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.8250	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0128	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.3312	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0039	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	1.4977	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	4.4408	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	589.3130	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.2822	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.2737	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	6.7130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	3 < hp <= 6	0.2058	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.1796	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.0229	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	1.3078	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.2132	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.1040	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	214.2337	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	2.1100	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	1227.6242	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	392.3564	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.3241	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.2982	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.2982	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.0053	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	1.3584	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	4.4960	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	530.0919	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.2060	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.1998	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.3312	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.0039	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	1.4977	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	4.4408	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	589.3128	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	185.0654	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.2822	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.2737	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	3.1095	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	1.0677	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	50 < hp <= 75	0.3216	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	50 < hp <= 75	0.0102	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	50 < hp <= 75	1.2679	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	50 < hp <= 75	0.0130	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	50 < hp <= 75	0.0339	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	97.8638	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	6.9102	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0111	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	782.6938	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	248.8415	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0686	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4883	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0085	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	2.5771	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	5.0371	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0038	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	588.8116	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4429	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4296	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	5.2494	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	6 < hp <= 11	0.4315	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	6 < hp <= 11	0.0962	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.4258	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.0344	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	1.3730	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.1171	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.2024	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	291.1450	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	2.0966	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	1046.2599	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	333.8624	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.1133	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.1043	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.6579	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0063	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	4.4807	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	4.8641	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	588.2706	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.4755	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.4612	g/hp-hr



2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2881	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.0051	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	1.5599	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	4.4895	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	530.1241	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	166.4682	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2131	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2067	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4858	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.0092	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	2.4695	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	4.6170	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	588.8196	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	185.0655	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4511	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4376	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.4154	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.0071	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	1.6142	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	5.8306	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	529.7181	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	166.4684	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.2507	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.2432	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	48.1305	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	1 < hp <= 3	0.4848	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	1 < hp <= 3	0.4988	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.0489	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.0023	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.2302	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	1.7741	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.3920	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	253.1652	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	2.1067	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	0.0146	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	1040.6750	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	375.1203	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	7.9716	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	7.3339	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2470	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.0041	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	1.1373	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	2.9121	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	536.0429	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2415	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2342	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	5.4549	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	11 < hp <= 16	0.4309	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	11 < hp <= 16	0.0573	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0276	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0112	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.2302	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.2292	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0805	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	292.9118	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	1.8547	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.0147	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	1044.1074	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	333.4184	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.1354	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.1246	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	5.1703	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	16 < hp <= 25	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	16 < hp <= 25	0.0433	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0332	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0131	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.2302	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.1734	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0609	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	290.2290	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	1.8378	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	1045.3045	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	333.4743	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.1251	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.1151	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.4553	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	2.4888	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	1.3944	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	4.2040	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.0032	g/hp-hr



2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	535.9400	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.1794	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.1740	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.2793	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.0037	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	1.3944	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	4.2040	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	535.9399	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.1794	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.1740	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1772	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.0022	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.6741	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	1.9811	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	536.2658	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1304	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1265	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.2793	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.0037	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	1.3944	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	4.2040	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	535.9399	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.1794	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.1740	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1755	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.0025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	1.0839	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	2.7134	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	536.2712	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1490	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1446	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1691	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.0024	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	1.5194	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	2.7114	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	536.2919	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	168.2828	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1550	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1504	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.2793	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.0037	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	1.3944	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	4.2040	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	535.9398	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.1794	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.1740	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	535.8854	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	168.2825	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.1981	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.1922	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.6638	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.0127	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	2.6000	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	4.3731	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.0039	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	624.4264	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	196.4054	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.5013	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.4862	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.7250	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.0082	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	3.7236	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	4.7680	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	693.6861	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.4916	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.4768	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	5.0963	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	16 < hp <= 25	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0441	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0392	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0151	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.2623	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.2866	g/hp-hr



2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1007	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	289.5435	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	1.8311	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	1045.5993	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	333.4830	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1226	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1128	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.7250	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0082	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	3.7236	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	4.7679	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	693.6862	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.4916	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.4768	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.5821	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.0109	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	2.1163	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	4.0988	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.0039	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	624.6872	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	196.4053	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.3939	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.3821	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3460	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	25 < hp <= 40	0.2837	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0185	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0262	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0075	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0167	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	12.3835	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	1.0279	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	699.1023	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	219.5384	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0707	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0650	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.4336	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0055	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	2.3177	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	4.4514	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0043	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	694.6166	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	218.1780	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3960	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3841	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.4336	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.0055	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	2.3177	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	4.4514	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.0043	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	694.6162	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.3960	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.3841	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.4655	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0289	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	50 < hp <= 75	0.2847	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0122	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0373	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0041	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0132	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	16.7176	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	1.2841	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	701.1036	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	220.2998	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0696	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0641	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.8786	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0162	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	5.0277	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	4.9983	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	693.1963	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.7283	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.7065	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	5.4039	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	6 < hp <= 11	0.4309	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0779	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0350	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0038	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.2623	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.5064	g/hp-hr



2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1779	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	292.4060	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	1.8509	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0147	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	1044.3242	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	333.4288	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1334	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1228	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.4655	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0289	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	75 < hp <= 100	0.2847	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0122	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0285	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0032	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0101	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	16.7176	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	1.2841	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0099	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	701.1030	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	220.2995	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0696	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0641	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.9239	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0179	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	5.7003	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	4.6453	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	693.0519	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.8323	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.8073	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.8939	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.0174	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	3.5958	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	5.1595	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	623.6926	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	196.4054	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.6178	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.5993	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	5.0770	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	11 < hp <= 16	0.4310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	11 < hp <= 16	0.0953	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0634	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0274	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.3374	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.2841	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0998	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	289.3848	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	1.8436	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	1045.7455	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	333.5084	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.1212	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.1115	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	1.0364	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0158	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	2.4432	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	4.4565	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	594.7162	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.3520	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.3414	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.2042	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.0030	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.7989	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	2.4208	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	536.1797	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.1511	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.1465	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.2205	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.0004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	1.1301	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	3.9772	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	595.4544	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.1774	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.1721	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.2128	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.0034	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	1.4210	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	3.3065	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.0033	g/hp-hr



2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	536.1520	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.1918	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.1860	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.2205	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.0004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	1.1301	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	3.9772	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	595.4539	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.1774	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.1721	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2840	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	2.5351	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	3.7338	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	595.2511	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2943	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2855	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.2827	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.0047	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	2.7451	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	3.0539	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	595.2561	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.3595	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.3487	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.1848	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.0025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.8674	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	2.0223	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	536.2413	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.2074	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.2012	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.2678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	1.3237	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	4.0340	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	535.9764	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.1681	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.1631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.2678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	1.3237	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	4.0340	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	535.9769	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	168.2829	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.1681	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.1631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1713	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.0020	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.6302	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	1.8549	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	536.2845	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1208	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1172	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1679	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.0023	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	1.0042	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	2.5281	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	536.2953	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1415	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1372	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2160	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.0017	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	2.0900	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	3.3557	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	595.4682	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2193	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2127	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1625	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.0022	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	1.4420	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	2.5246	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	536.3126	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1463	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1419	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.2142	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.0031	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	2.3508	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	2.4548	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	595.4742	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.3064	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.2973	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.2678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	1.3237	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	4.0340	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	535.9767	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.1681	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.1631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.2793	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.0037	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	175 < hp <= 300	0.1187	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	175 < hp <= 300	0.1152	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	300 < hp <= 600	0.1659	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	300 < hp <= 600	0.0022	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	300 < hp <= 600	0.9842	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	300 < hp <= 600	2.4816	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	300 < hp <= 600	536.3017	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	300 < hp <= 600	0.1397	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	300 < hp <= 600	0.1355	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	40 < hp <= 50	0.1948	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	40 < hp <= 50	0.0000	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	40 < hp <= 50	0.8620	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	40 < hp <= 50	3.7216	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	40 < hp <= 50	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	40 < hp <= 50	595.5360	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	40 < hp <= 50	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	40 < hp <= 50	0.1277	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	40 < hp <= 50	0.1239	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	50 < hp <= 75	0.2125	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	50 < hp <= 75	0.0016	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	50 < hp <= 75	2.0635	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	50 < hp <= 75	3.3344	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	50 < hp <= 75	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	50 < hp <= 75	595.4793	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	50 < hp <= 75	0.2154	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	50 < hp <= 75	0.2089	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	600 < hp <= 750	0.1608	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	600 < hp <= 750	0.0021	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	600 < hp <= 750	1.4232	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	600 < hp <= 750	2.4784	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	600 < hp <= 750	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	600 < hp <= 750	536.3179	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	600 < hp <= 750	0.1443	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	600 < hp <= 750	0.1399	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	75 < hp <= 100	0.2106	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	75 < hp <= 100	0.0030	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	75 < hp <= 100	2.3270	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	75 < hp <= 100	2.4173	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	75 < hp <= 100	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	75 < hp <= 100	595.4859	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	75 < hp <= 100	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	75 < hp <= 100	0.3039	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	75 < hp <= 100	0.2948	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1503	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.0011	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.5195	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	100 < hp <= 175	1.3166	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.0029	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	100 < hp <= 175	536.3515	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	100 < hp <= 175	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1211	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1175	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.2319	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.0015	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	1.1084	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	3.1064	g/hp-hr



2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	536.0912	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.1170	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.1135	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.2319	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.0015	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	1.1084	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	3.1064	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	536.0913	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.1170	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.1135	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.1407	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.2741	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	175 < hp <= 300	1.1349	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0027	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	175 < hp <= 300	536.3823	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0445	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0432	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.2319	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.0015	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	1.1084	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	3.1064	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	536.0914	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.1170	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.1135	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.1477	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0013	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.6366	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	300 < hp <= 600	1.6272	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	300 < hp <= 600	536.3597	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.1016	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0986	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.1472	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0013	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.9903	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	600 < hp <= 750	1.6306	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	600 < hp <= 750	536.3614	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.1022	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0991	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.2319	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.0015	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	1.1084	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	3.1064	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	536.0915	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.1170	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.1135	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2276	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.0036	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	1.0414	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	2.6237	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	536.1049	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2283	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2214	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.4517	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	2.4432	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	4.4565	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	594.7174	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.3520	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.3414	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.4517	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.0007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	11 < hp <= 16	2.3767	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	11 < hp <= 16	4.4636	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	11 < hp <= 16	594.7281	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	11 < hp <= 16	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	11 < hp <= 16	0.3580	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	11 < hp <= 16	0.3472	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	1200 < hp <= 2000	0.2508	g/hp-hr



2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	1200 < hp <= 2000	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	1200 < hp <= 2000	1.2290	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	1200 < hp <= 2000	3.7327	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	1200 < hp <= 2000	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	1200 < hp <= 2000	536.0310	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	1200 < hp <= 2000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	1200 < hp <= 2000	0.1499	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	1200 < hp <= 2000	0.1454	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	16 < hp <= 25	0.4479	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	16 < hp <= 25	2.3767	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	16 < hp <= 25	4.4636	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	16 < hp <= 25	594.7286	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	16 < hp <= 25	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	16 < hp <= 25	0.3580	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	16 < hp <= 25	0.3472	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	175 < hp <= 300	0.1622	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	175 < hp <= 300	0.0016	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	175 < hp <= 300	0.5549	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	175 < hp <= 300	1.6558	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	175 < hp <= 300	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	175 < hp <= 300	536.3132	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	175 < hp <= 300	0.1046	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	175 < hp <= 300	0.1015	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	2000 < hp <= 3000	0.2508	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	2000 < hp <= 3000	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	2000 < hp <= 3000	1.2290	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	2000 < hp <= 3000	3.7327	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	2000 < hp <= 3000	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	2000 < hp <= 3000	536.0311	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	2000 < hp <= 3000	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	2000 < hp <= 3000	0.1499	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	2000 < hp <= 3000	0.1454	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	25 < hp <= 40	0.1825	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	25 < hp <= 40	0.7399	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	25 < hp <= 40	3.5834	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	25 < hp <= 40	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	25 < hp <= 40	595.5755	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	25 < hp <= 40	186.8801	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	25 < hp <= 40	0.1066	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	25 < hp <= 40	0.1034	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	3 < hp <= 6	0.5599	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	3 < hp <= 6	4.5223	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	3 < hp <= 6	4.3229	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	3 < hp <= 6	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	3 < hp <= 6	594.3717	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	3 < hp <= 6	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	3 < hp <= 6	0.3580	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	3 < hp <= 6	0.3472	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	300 < hp <= 600	0.1582	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	300 < hp <= 600	0.0020	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	300 < hp <= 600	0.8856	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	300 < hp <= 600	2.2195	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	300 < hp <= 600	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	300 < hp <= 600	536.3262	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	300 < hp <= 600	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	300 < hp <= 600	0.1310	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	300 < hp <= 600	0.1271	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	40 < hp <= 50	0.1825	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	40 < hp <= 50	0.7399	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	40 < hp <= 50	3.5833	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	40 < hp <= 50	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	40 < hp <= 50	595.5749	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	40 < hp <= 50	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	40 < hp <= 50	0.1066	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	40 < hp <= 50	0.1034	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	50 < hp <= 75	0.1928	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	50 < hp <= 75	0.0010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	50 < hp <= 75	1.8962	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	50 < hp <= 75	3.2145	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	50 < hp <= 75	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	50 < hp <= 75	595.5426	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	50 < hp <= 75	0.1940	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	50 < hp <= 75	0.1881	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	6 < hp <= 11	0.5599	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	6 < hp <= 11	4.5223	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	6 < hp <= 11	4.3229	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	6 < hp <= 11	594.3713	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	6 < hp <= 11	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	6 < hp <= 11	0.3580	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	6 < hp <= 11	0.3472	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	600 < hp <= 750	0.1543	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	600 < hp <= 750	0.0019	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	600 < hp <= 750	1.3149	g/hp-hr



2015	6	Diesel	Nox	Running Exhaust	Excavators	600 < hp <= 750	2.2232	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	600 < hp <= 750	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	600 < hp <= 750	536.3385	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	600 < hp <= 750	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	600 < hp <= 750	0.1344	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	600 < hp <= 750	0.1304	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	75 < hp <= 100	0.1905	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	75 < hp <= 100	0.0025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	75 < hp <= 100	2.1646	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	75 < hp <= 100	2.1936	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	75 < hp <= 100	0.0034	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	75 < hp <= 100	595.5498	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	75 < hp <= 100	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	75 < hp <= 100	0.2882	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	75 < hp <= 100	0.2795	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	750 < hp <= 1000	0.2508	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	750 < hp <= 1000	0.0027	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	750 < hp <= 1000	1.2290	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	750 < hp <= 1000	3.7327	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	750 < hp <= 1000	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	750 < hp <= 1000	536.0310	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	750 < hp <= 1000	0.1499	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	750 < hp <= 1000	0.1454	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	100 < hp <= 175	0.1829	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	100 < hp <= 175	0.0024	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	100 < hp <= 175	0.8585	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	100 < hp <= 175	1.9897	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	100 < hp <= 175	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	100 < hp <= 175	536.2475	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	100 < hp <= 175	168.2825	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Graders	100 < hp <= 175	0.2060	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Graders	100 < hp <= 175	0.1998	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Graders	175 < hp <= 300	0.1697	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Graders	175 < hp <= 300	0.0019	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Graders	175 < hp <= 300	0.6201	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Graders	175 < hp <= 300	1.8229	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Graders	175 < hp <= 300	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Graders	175 < hp <= 300	536.2894	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Graders	175 < hp <= 300	168.2825	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	25 < hp <= 40	4.0207	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	25 < hp <= 40	595.4354	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	25 < hp <= 40	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.1890	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.1834	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2277	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.0038	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	300 < hp <= 600	1.5598	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	300 < hp <= 600	3.5812	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	300 < hp <= 600	536.1047	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2098	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2035	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.2263	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.0006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	40 < hp <= 50	1.1895	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	40 < hp <= 50	4.0207	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.0035	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	40 < hp <= 50	595.4357	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	40 < hp <= 50	186.8800	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.1890	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.1834	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3094	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.0043	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	50 < hp <= 75	2.6628	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	50 < hp <= 75	3.8662	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	50 < hp <= 75	595.1703	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	50 < hp <= 75	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3273	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3175	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.5691	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.0011	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	6 < hp <= 11	4.6737	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	6 < hp <= 11	4.3366	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	6 < hp <= 11	594.3419	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	6 < hp <= 11	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.3842	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.3727	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2148	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.0035	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	600 < hp <= 750	1.9223	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	600 < hp <= 750	3.5780	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.0033	g/hp-hr



2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	600 < hp <= 750	536.1459	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2195	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2130	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3082	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.0053	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	75 < hp <= 100	2.8579	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	75 < hp <= 100	3.2397	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	75 < hp <= 100	595.1736	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	75 < hp <= 100	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3871	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3755	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.3630	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.0058	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	2.0119	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	5.0039	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	535.6729	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.2656	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.2576	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	100 < hp <= 175	0.1867	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	100 < hp <= 175	0.0026	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	100 < hp <= 175	0.8755	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	100 < hp <= 175	2.0528	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	100 < hp <= 175	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	100 < hp <= 175	536.2350	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	100 < hp <= 175	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	100 < hp <= 175	0.2087	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	100 < hp <= 175	0.2025	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	175 < hp <= 300	0.1727	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	175 < hp <= 300	0.0020	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	175 < hp <= 300	0.6386	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	175 < hp <= 300	1.8831	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	175 < hp <= 300	0.0030	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	175 < hp <= 300	536.2803	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	175 < hp <= 300	168.2828	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	175 < hp <= 300	0.1226	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	175 < hp <= 300	0.1189	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	300 < hp <= 600	0.1698	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	300 < hp <= 600	0.0024	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	300 < hp <= 600	1.0251	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	300 < hp <= 600	2.5770	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	300 < hp <= 600	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	300 < hp <= 600	536.2893	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	300 < hp <= 600	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	300 < hp <= 600	0.1435	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	300 < hp <= 600	0.1392	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	50 < hp <= 75	0.2191	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	50 < hp <= 75	0.0018	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	50 < hp <= 75	2.1132	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	50 < hp <= 75	3.3747	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	50 < hp <= 75	0.0036	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	50 < hp <= 75	595.4583	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	50 < hp <= 75	186.8799	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	50 < hp <= 75	0.2228	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	50 < hp <= 75	0.2161	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	600 < hp <= 750	0.1642	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	600 < hp <= 750	0.0022	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	600 < hp <= 750	1.4627	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	600 < hp <= 750	2.5731	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	600 < hp <= 750	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	600 < hp <= 750	536.3074	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	600 < hp <= 750	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	600 < hp <= 750	0.1486	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	600 < hp <= 750	0.1441	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Scrapers	750 < hp <= 1000	0.2708	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	750 < hp <= 1000	0.0034	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Scrapers	750 < hp <= 1000	1.3420	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Scrapers	750 < hp <= 1000	4.0793	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Scrapers	750 < hp <= 1000	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Scrapers	750 < hp <= 1000	535.9671	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Scrapers	750 < hp <= 1000	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Scrapers	750 < hp <= 1000	0.1711	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Scrapers	750 < hp <= 1000	0.1660	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	100 < hp <= 175	0.1740	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	100 < hp <= 175	0.0021	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Excavators	100 < hp <= 175	0.7965	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	100 < hp <= 175	1.8238	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	100 < hp <= 175	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	100 < hp <= 175	536.2753	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	100 < hp <= 175	168.2824	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	100 < hp <= 175	0.1920	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	100 < hp <= 175	0.1863	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	1000 < hp <= 1200	0.2508	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Excavators	1000 < hp <= 1200	0.0027	g/hp-hr



2015	6	Diesel	CO	Running Exhaust	Excavators	1000 < hp <= 1200	1.2290	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Excavators	1000 < hp <= 1200	3.7327	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Excavators	1000 < hp <= 1200	0.0031	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Excavators	1000 < hp <= 1200	536.0312	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Excavators	1000 < hp <= 1200	168.2828	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Excavators	1000 < hp <= 1200	0.1499	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Excavators	1000 < hp <= 1200	0.1454	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Excavators	11 < hp <= 16	0.4479	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	1.3789	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.0257	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	5.5923	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	5.3814	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	691.6003	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.8486	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.8231	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	8.0711	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	3 < hp <= 6	0.5071	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	3 < hp <= 6	0.5047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.2772	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.0364	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.8866	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	1.2908	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.3770	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	218.8300	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	2.2347	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.0173	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	1222.7675	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	392.3572	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.3257	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.2997	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	1.3789	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.0257	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	5.5923	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	5.3814	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	691.6008	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.8486	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.8231	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	3.1074	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	50 < hp <= 75	1.0669	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	50 < hp <= 75	0.3216	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	50 < hp <= 75	0.0095	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	50 < hp <= 75	2.0574	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	50 < hp <= 75	0.0232	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	50 < hp <= 75	0.0607	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	97.8009	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	6.9059	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0111	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	782.6274	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	248.8183	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0686	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0631	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	1.0361	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0196	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	5.2891	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	5.4956	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0045	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	692.6942	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.8317	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.8067	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	5.9063	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	6 < hp <= 11	0.4330	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	6 < hp <= 11	0.0992	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	1.1073	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.1866	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	2.5054	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.7515	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.7024	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	301.5023	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	2.6309	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1047.7283	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	335.0592	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.1115	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.1026	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.7154	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0297	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	9.3616	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	6.6002	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	690.5271	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	218.1779	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.2120	g/hp-hr



2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.1757	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	1.0741	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.0210	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	5.8411	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	5.2044	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	692.5731	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.9130	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.8856	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	2.2536	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.7095	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Other Construction Equipment	100 < hp <= 175	0.3083	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Other Construction Equipment	100 < hp <= 175	0.0048	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	100 < hp <= 175	0.4783	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	100 < hp <= 175	0.0074	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	100 < hp <= 175	0.0219	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Other Construction Equipment	100 < hp <= 175	72.7346	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Other Construction Equipment	100 < hp <= 175	5.0164	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0106	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	752.8508	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	238.5265	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0688	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0633	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2413	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0040	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	100 < hp <= 175	1.1064	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	100 < hp <= 175	2.8266	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	536.0614	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	168.2827	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2375	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2304	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.3630	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.0058	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	2.0119	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	5.0039	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.0033	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	535.6730	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.2656	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.2576	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.4538	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.0009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	11 < hp <= 16	2.4709	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	11 < hp <= 16	4.4567	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	11 < hp <= 16	594.7098	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	11 < hp <= 16	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.3520	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.3414	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	5.1865	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Other Construction Equipment	16 < hp <= 25	0.4314	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Other Construction Equipment	16 < hp <= 25	0.0468	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.1595	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.0436	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.6398	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.3038	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.1440	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Other Construction Equipment	16 < hp <= 25	290.4763	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Other Construction Equipment	16 < hp <= 25	2.0264	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	1046.1958	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	333.7719	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.1147	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.1055	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.4538	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	16 < hp <= 25	2.4709	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	16 < hp <= 25	4.4567	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	594.7096	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	186.8798	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.3520	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.3414	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.2167	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.0033	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.8624	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Other Construction Equipment	175 < hp <= 300	2.6263	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	175 < hp <= 300	536.1396	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Other Construction Equipment	175 < hp <= 300	168.2826	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.1628	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.1580	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.2263	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.0006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Other Construction Equipment	25 < hp <= 40	1.1895	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	4.9270	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	5.1858	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	692.6934	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	218.1779	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.6555	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.6358	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	5.1876	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	16 < hp <= 25	0.4314	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	16 < hp <= 25	0.0457	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.1566	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.0411	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.6332	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.2458	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.1160	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	290.4790	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	2.0239	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	1046.1784	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	333.7675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.1148	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.1056	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	1.0364	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0158	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	4.9270	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	5.1858	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	692.6931	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.6555	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.6358	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.6049	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0767	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	25 < hp <= 40	0.2864	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	25 < hp <= 40	0.0175	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	25 < hp <= 40	0.1518	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	25 < hp <= 40	0.0077	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	25 < hp <= 40	0.0259	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	21.2453	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	1.5709	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0100	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	704.6228	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	221.5592	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0694	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0639	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.7365	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0123	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	3.4835	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	4.8160	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	693.6498	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.5729	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.5557	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	2.2325	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.7007	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	50 < hp <= 75	0.3080	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	50 < hp <= 75	0.0089	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	50 < hp <= 75	0.5823	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	50 < hp <= 75	0.0140	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	50 < hp <= 75	0.0416	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	72.1057	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	4.9703	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0106	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	752.1361	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	238.2790	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0688	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0633	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	1.1622	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0221	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	5.9388	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	5.5145	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0045	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	692.2918	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.8968	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.8699	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	1.2249	g/hp-hr



2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.0184	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	7.8917	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	5.4216	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	692.0925	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.8730	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.8468	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	2.2325	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.7007	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	75 < hp <= 100	0.3080	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	75 < hp <= 100	0.0089	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	75 < hp <= 100	0.4012	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	75 < hp <= 100	0.0096	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Skid Steer Loaders	75 < hp <= 100	0.0287	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	72.1057	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	4.9703	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0106	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	752.1364	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	238.2789	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0688	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0633	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	1.2003	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0235	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	6.4971	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	5.2232	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0044	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	692.1704	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	218.1778	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.9808	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.9514	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.7704	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.0149	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	2.9954	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	5.1397	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.0040	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	624.0864	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	196.4054	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.5761	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.5588	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	5.9063	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	11 < hp <= 16	0.4330	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	11 < hp <= 16	0.0688	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	1.0229	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.5995	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	2.5054	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.5214	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.4874	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	301.5024	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	2.6309	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0148	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	1047.7284	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	335.0594	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.1115	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.1026	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	1.6415	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0291	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	6.9356	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	6.0535	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	690.7626	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	218.1777	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.9847	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.9552	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	7.6740	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.3366	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	16 < hp <= 25	0.4476	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	16 < hp <= 25	0.0466	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	1.2637	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	1.8885	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	2.7530	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.3416	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.4422	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	362.0643	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	3.3411	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0152	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	1077.4253	g/hp-hr
2015	6	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	346.3511	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.1177	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.1083	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	1.6415	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0291	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	6.9356	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	6.0535	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0047	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	690.7628	g/hp-hr
2015	6	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	218.1778	g/hp-hr



2015	6	Diesel	PM10	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.9847	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.9552	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.1575	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.1527	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1875	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.0029	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	1.2049	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	2.9891	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	536.2325	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1637	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	300 < hp <= 600	0.1588	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.2101	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.0002	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	1.0241	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	3.8840	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	595.4870	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.1575	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	40 < hp <= 50	0.1527	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.6528	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0726	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	50 < hp <= 75	0.2116	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	50 < hp <= 75	0.0079	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	50 < hp <= 75	0.0028	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	50 < hp <= 75	0.0094	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	19.5894	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	2.2083	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0104	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	704.3240	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	221.4524	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0695	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2541	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0028	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	2.3621	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	3.5770	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	595.3467	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2603	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	50 < hp <= 75	0.2525	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1787	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	1.6225	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	3.0003	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	536.2608	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1722	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	600 < hp <= 750	0.1671	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.2526	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.0040	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	2.5916	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	2.8195	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	595.3517	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.3336	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	75 < hp <= 100	0.3236	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.2964	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.0042	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	1.5046	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	4.4349	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	535.8857	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.1981	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	750 < hp <= 1000	0.1922	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.6638	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.0127	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	2.6000	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	4.3731	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.0039	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	624.4265	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	196.4053	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.5013	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	100 < hp <= 175	0.4862	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.7250	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.0082	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	3.7236	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	4.7679	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	693.6860	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	218.1778	g/hp-hr



2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.4916	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	11 < hp <= 16	0.4768	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	5.6088	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	16 < hp <= 25	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0441	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0119	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0046	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.2866	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1007	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	271.8614	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	2.6145	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	1045.5994	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	333.4837	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1226	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.1128	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.7250	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0082	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	3.7236	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	4.7679	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	693.6867	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.4916	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	16 < hp <= 25	0.4768	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.5821	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.0109	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	2.1163	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	4.0988	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.0039	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	624.6871	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	196.4053	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.3939	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	175 < hp <= 300	0.3821	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3808	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0185	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0075	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0167	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	11.6272	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	1.4677	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	699.1022	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	219.5383	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0707	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0650	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.4336	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0055	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	2.3177	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	4.4514	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.0043	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	694.6161	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	218.1779	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3960	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	25 < hp <= 40	0.3841	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.4336	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.0055	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	2.3177	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	4.4514	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.0043	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	694.6159	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.3960	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	40 < hp <= 50	0.3841	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.5123	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0289	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	50 < hp <= 75	0.2105	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0122	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	1.3237	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	4.0340	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	535.9765	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.1681	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.1631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1713	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.0020	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.6302	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	1.8549	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	536.2847	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1208	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	175 < hp <= 300	0.1172	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1679	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.0023	g/hp-hr



2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	1.0042	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	2.5281	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	536.2953	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1415	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	300 < hp <= 600	0.1372	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2160	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.0017	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	2.0900	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	3.3557	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	595.4680	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2193	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	50 < hp <= 75	0.2127	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1625	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.0022	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	1.4420	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	2.5247	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	536.3125	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1463	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	600 < hp <= 750	0.1419	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.2142	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.0031	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	2.3508	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	2.4548	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	595.4742	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.3064	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	75 < hp <= 100	0.2972	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.2678	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.0033	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	1.3237	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	4.0340	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	535.9764	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.1681	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	750 < hp <= 1000	0.1631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.2793	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	1.3944	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	4.2040	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	535.9400	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.1794	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	1000 < hp <= 1200	0.1740	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.2793	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	1.3944	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	4.2040	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	535.9394	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.1794	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	1200 < hp <= 2000	0.1740	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1772	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.0022	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.6741	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	1.9811	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	536.2658	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1304	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	175 < hp <= 300	0.1265	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.2793	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	1.3944	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	4.2040	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	535.9400	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.1794	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	2000 < hp <= 3000	0.1740	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1755	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.0025	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	1.0839	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	2.7134	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	536.2711	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	168.2828	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1490	g/hp-hr



2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	300 < hp <= 600	0.1446	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1691	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.0024	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	1.5194	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	2.7114	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	536.2915	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1550	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	600 < hp <= 750	0.1504	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.2793	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	1.3944	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	4.2040	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	535.9396	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.1794	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-Highway Tractors	750 < hp <= 1000	0.1740	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	175 < hp <= 300	1.1349	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0027	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	175 < hp <= 300	536.3826	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	175 < hp <= 300	168.2828	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0445	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0432	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.2319	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.0015	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	1.1084	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	3.1064	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	536.0916	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.1170	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	2000 < hp <= 3000	0.1135	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.1477	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0013	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.6366	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	300 < hp <= 600	1.6272	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	300 < hp <= 600	536.3597	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	300 < hp <= 600	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.1016	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	300 < hp <= 600	0.0986	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.1472	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0013	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.9903	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	600 < hp <= 750	1.6306	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	600 < hp <= 750	536.3613	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	600 < hp <= 750	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.1022	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	600 < hp <= 750	0.0991	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.2319	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.0015	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	1.1084	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	3.1064	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	536.0920	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.1170	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	750 < hp <= 1000	0.1135	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2276	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.0036	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	1.0414	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	2.6237	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	536.1051	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2283	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	100 < hp <= 175	0.2214	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.4517	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.0007	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	2.4432	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	4.4565	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	594.7160	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	186.8797	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.3520	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	11 < hp <= 16	0.3414	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.4517	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.0007	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	2.4432	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	4.4565	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	594.7165	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.3520	g/hp-hr



2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	16 < hp <= 25	0.3414	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.2042	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.0030	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.7989	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	2.4208	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	536.1798	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.1511	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	175 < hp <= 300	0.1465	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.2205	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.0004	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	1.1301	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	3.9772	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	595.4538	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.1774	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	25 < hp <= 40	0.1721	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.2128	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.0034	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	1.4210	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	3.3065	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	536.1523	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.1918	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	300 < hp <= 600	0.1860	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.2205	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.0004	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	1.1301	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	3.9772	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	595.4541	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.1774	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	40 < hp <= 50	0.1721	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2840	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	2.5351	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	3.7338	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	595.2515	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2943	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	50 < hp <= 75	0.2855	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.2827	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.0047	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	2.7451	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	3.0539	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	595.2553	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.3595	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rough Terrain Forklifts	75 < hp <= 100	0.3487	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.1848	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.0025	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.8674	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	2.0223	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	536.2418	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.2074	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	100 < hp <= 175	0.2012	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.2678	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.0033	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	1.3237	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	4.0340	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	535.9765	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.1681	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crawler Tractor/Dozers	1000 < hp <= 1200	0.1631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.2678	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crawler Tractor/Dozers	1200 < hp <= 2000	0.0033	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	50 < hp <= 75	0.1928	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	50 < hp <= 75	0.0010	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	50 < hp <= 75	1.8962	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	50 < hp <= 75	3.2145	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	50 < hp <= 75	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	50 < hp <= 75	595.5423	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	50 < hp <= 75	0.1940	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	50 < hp <= 75	0.1881	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	6 < hp <= 11	0.5599	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	6 < hp <= 11	4.5223	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	6 < hp <= 11	4.3229	g/hp-hr



2015	12	Diesel	SO2	Running Exhaust	Excavators	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	6 < hp <= 11	594.3708	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	6 < hp <= 11	186.8797	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	6 < hp <= 11	0.3580	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	6 < hp <= 11	0.3472	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	600 < hp <= 750	0.1543	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	600 < hp <= 750	0.0019	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	600 < hp <= 750	1.3149	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	600 < hp <= 750	2.2232	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	600 < hp <= 750	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	600 < hp <= 750	536.3386	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	600 < hp <= 750	0.1344	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	600 < hp <= 750	0.1304	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	75 < hp <= 100	0.1905	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	75 < hp <= 100	0.0025	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	75 < hp <= 100	2.1646	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	75 < hp <= 100	2.1936	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	75 < hp <= 100	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	75 < hp <= 100	595.5497	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	75 < hp <= 100	0.2882	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	75 < hp <= 100	0.2795	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	750 < hp <= 1000	0.2508	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	750 < hp <= 1000	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	750 < hp <= 1000	1.2290	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	750 < hp <= 1000	3.7327	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	750 < hp <= 1000	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	750 < hp <= 1000	536.0312	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	750 < hp <= 1000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	750 < hp <= 1000	0.1499	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	750 < hp <= 1000	0.1454	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	100 < hp <= 175	0.1829	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	100 < hp <= 175	0.0024	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	100 < hp <= 175	0.8585	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	100 < hp <= 175	1.9897	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	100 < hp <= 175	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	100 < hp <= 175	536.2476	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	100 < hp <= 175	0.2060	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	100 < hp <= 175	0.1998	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	175 < hp <= 300	0.1697	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	175 < hp <= 300	0.0019	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	175 < hp <= 300	0.6201	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	175 < hp <= 300	1.8229	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	175 < hp <= 300	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	175 < hp <= 300	536.2895	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	175 < hp <= 300	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	175 < hp <= 300	0.1187	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	175 < hp <= 300	0.1152	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	300 < hp <= 600	0.1659	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	300 < hp <= 600	0.0022	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	300 < hp <= 600	0.9842	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	300 < hp <= 600	2.4816	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	300 < hp <= 600	536.3018	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	300 < hp <= 600	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	300 < hp <= 600	0.1397	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	300 < hp <= 600	0.1355	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	40 < hp <= 50	0.1948	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	40 < hp <= 50	0.0000	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	40 < hp <= 50	0.8620	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	40 < hp <= 50	3.7216	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	40 < hp <= 50	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	40 < hp <= 50	595.5358	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	40 < hp <= 50	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	40 < hp <= 50	0.1277	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	40 < hp <= 50	0.1239	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	50 < hp <= 75	0.2125	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	50 < hp <= 75	0.0016	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	50 < hp <= 75	2.0635	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	50 < hp <= 75	3.3344	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	50 < hp <= 75	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	50 < hp <= 75	595.4793	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	50 < hp <= 75	0.2154	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	50 < hp <= 75	0.2089	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	600 < hp <= 750	0.1608	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	600 < hp <= 750	0.0021	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	600 < hp <= 750	1.4232	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	600 < hp <= 750	2.4784	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	600 < hp <= 750	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	600 < hp <= 750	536.3180	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	600 < hp <= 750	0.1443	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	600 < hp <= 750	0.1399	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Graders	75 < hp <= 100	0.2106	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Diesel	Total HC	Crankcase Running Exhaust	Graders	75 < hp <= 100	0.0030	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Graders	75 < hp <= 100	2.3270	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Graders	75 < hp <= 100	2.4173	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Graders	75 < hp <= 100	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Graders	75 < hp <= 100	595.4852	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Graders	75 < hp <= 100	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Graders	75 < hp <= 100	0.3039	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Graders	75 < hp <= 100	0.2948	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1503	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.0011	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.5195	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	100 < hp <= 175	1.3166	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.0029	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	100 < hp <= 175	536.3514	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1211	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	100 < hp <= 175	0.1175	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.2319	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.0015	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	1.1084	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	3.1064	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	536.0913	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.1170	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	1000 < hp <= 1200	0.1135	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.2319	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.0015	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	1.1084	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	3.1064	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	536.0910	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.1170	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Off-highway Trucks	1200 < hp <= 2000	0.1135	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.1407	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.0005	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Off-highway Trucks	175 < hp <= 300	0.2741	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	175 < hp <= 300	0.6386	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	175 < hp <= 300	1.8831	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	175 < hp <= 300	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	175 < hp <= 300	536.2801	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	175 < hp <= 300	0.1226	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	175 < hp <= 300	0.1189	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	300 < hp <= 600	0.1698	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	300 < hp <= 600	0.0024	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	300 < hp <= 600	1.0251	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	300 < hp <= 600	2.5770	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	300 < hp <= 600	536.2893	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	300 < hp <= 600	0.1435	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	300 < hp <= 600	0.1392	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	50 < hp <= 75	0.2191	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	50 < hp <= 75	0.0018	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	50 < hp <= 75	2.1132	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	50 < hp <= 75	3.3747	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	50 < hp <= 75	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	50 < hp <= 75	595.4582	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	50 < hp <= 75	0.2228	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	50 < hp <= 75	0.2161	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	600 < hp <= 750	0.1642	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	600 < hp <= 750	0.0022	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	600 < hp <= 750	1.4627	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	600 < hp <= 750	2.5731	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	600 < hp <= 750	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	600 < hp <= 750	536.3076	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	600 < hp <= 750	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	600 < hp <= 750	0.1486	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	600 < hp <= 750	0.1441	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	750 < hp <= 1000	0.2708	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	750 < hp <= 1000	0.0034	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	750 < hp <= 1000	1.3420	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	750 < hp <= 1000	4.0793	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	750 < hp <= 1000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	750 < hp <= 1000	535.9669	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	750 < hp <= 1000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	750 < hp <= 1000	0.1711	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	750 < hp <= 1000	0.1660	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	100 < hp <= 175	0.1740	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	100 < hp <= 175	0.0021	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	100 < hp <= 175	0.7965	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	100 < hp <= 175	1.8238	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	100 < hp <= 175	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	100 < hp <= 175	536.2756	g/hp-hr



2015	12	Diesel	BSFC	Running Exhaust	Excavators	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	100 < hp <= 175	0.1920	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	100 < hp <= 175	0.1863	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	1000 < hp <= 1200	0.2508	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	1000 < hp <= 1200	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	1000 < hp <= 1200	1.2290	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	1000 < hp <= 1200	3.7327	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	1000 < hp <= 1200	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	1000 < hp <= 1200	536.0310	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	1000 < hp <= 1200	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	1000 < hp <= 1200	0.1499	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	1000 < hp <= 1200	0.1454	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	11 < hp <= 16	0.4479	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	11 < hp <= 16	2.3767	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	11 < hp <= 16	4.4636	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	11 < hp <= 16	594.7285	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	11 < hp <= 16	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	11 < hp <= 16	0.3580	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	11 < hp <= 16	0.3472	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	1200 < hp <= 2000	0.2508	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	1200 < hp <= 2000	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	1200 < hp <= 2000	1.2290	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	1200 < hp <= 2000	3.7327	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	1200 < hp <= 2000	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	1200 < hp <= 2000	536.0309	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	1200 < hp <= 2000	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	1200 < hp <= 2000	0.1499	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	1200 < hp <= 2000	0.1454	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	16 < hp <= 25	0.4479	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	16 < hp <= 25	2.3767	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	16 < hp <= 25	4.4636	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	16 < hp <= 25	594.7289	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	16 < hp <= 25	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	16 < hp <= 25	0.3580	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	16 < hp <= 25	0.3472	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	175 < hp <= 300	0.1622	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	175 < hp <= 300	0.0016	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	175 < hp <= 300	0.5549	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	175 < hp <= 300	1.6558	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	175 < hp <= 300	0.0030	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	175 < hp <= 300	536.3135	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	175 < hp <= 300	0.1046	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	175 < hp <= 300	0.1015	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	2000 < hp <= 3000	0.2508	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	2000 < hp <= 3000	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	2000 < hp <= 3000	1.2290	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	2000 < hp <= 3000	3.7327	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	2000 < hp <= 3000	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	2000 < hp <= 3000	536.0311	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	2000 < hp <= 3000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	2000 < hp <= 3000	0.1499	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	2000 < hp <= 3000	0.1454	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	25 < hp <= 40	0.1825	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	25 < hp <= 40	0.7399	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	25 < hp <= 40	3.5834	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	25 < hp <= 40	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	25 < hp <= 40	595.5753	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	25 < hp <= 40	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	25 < hp <= 40	0.1066	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	25 < hp <= 40	0.1034	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	3 < hp <= 6	0.5599	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	3 < hp <= 6	4.5223	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	3 < hp <= 6	4.3229	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	3 < hp <= 6	594.3717	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	3 < hp <= 6	186.8802	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	3 < hp <= 6	0.3580	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	3 < hp <= 6	0.3472	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	300 < hp <= 600	0.1582	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Excavators	300 < hp <= 600	0.0020	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	300 < hp <= 600	0.8856	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	300 < hp <= 600	2.2195	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	300 < hp <= 600	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	300 < hp <= 600	536.3267	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	300 < hp <= 600	0.1310	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Excavators	300 < hp <= 600	0.1271	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Excavators	40 < hp <= 50	0.1825	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Excavators	40 < hp <= 50	0.7399	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Excavators	40 < hp <= 50	3.5833	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Excavators	40 < hp <= 50	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Excavators	40 < hp <= 50	595.5752	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Excavators	40 < hp <= 50	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Excavators	40 < hp <= 50	0.1066	g/hp-hr



2015	12	Diesel	PM2.5	Running Exhaust	Excavators	40 < hp <= 50	0.1034	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	752.8510	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	238.5265	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0688	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0633	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2413	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0040	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	100 < hp <= 175	1.1064	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	100 < hp <= 175	2.8266	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	536.0612	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	168.2824	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2375	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.2304	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.3630	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.0058	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	2.0119	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	5.0039	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	535.6730	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.2656	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	1000 < hp <= 1200	0.2576	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.4538	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.0009	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	11 < hp <= 16	2.4709	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	11 < hp <= 16	4.4567	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	11 < hp <= 16	594.7096	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	11 < hp <= 16	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.3520	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	11 < hp <= 16	0.3414	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	5.7080	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Other Construction Equipment	16 < hp <= 25	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Other Construction Equipment	16 < hp <= 25	0.0468	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.0482	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.0132	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.3038	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	16 < hp <= 25	0.1440	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Other Construction Equipment	16 < hp <= 25	272.7366	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Other Construction Equipment	16 < hp <= 25	2.8933	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	1046.1952	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	333.7716	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.1147	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.1055	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.4538	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0009	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	16 < hp <= 25	2.4709	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	16 < hp <= 25	4.4567	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	16 < hp <= 25	594.7102	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	16 < hp <= 25	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.3520	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	16 < hp <= 25	0.3414	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.2167	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.0033	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.8624	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	175 < hp <= 300	2.6263	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	175 < hp <= 300	536.1397	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.1628	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	175 < hp <= 300	0.1580	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.2263	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.0006	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	25 < hp <= 40	1.1895	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	25 < hp <= 40	4.0207	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	25 < hp <= 40	595.4355	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.1890	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	25 < hp <= 40	0.1834	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2277	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.0038	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	300 < hp <= 600	1.5598	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	300 < hp <= 600	3.5812	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	300 < hp <= 600	536.1050	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2098	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	300 < hp <= 600	0.2035	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.2263	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.0006	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	40 < hp <= 50	1.1895	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	40 < hp <= 50	4.0207	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.0035	g/hp-hr



2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	40 < hp <= 50	595.4352	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	40 < hp <= 50	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.1890	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	40 < hp <= 50	0.1834	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3094	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.0043	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	50 < hp <= 75	2.6628	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	50 < hp <= 75	3.8662	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	50 < hp <= 75	595.1707	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	50 < hp <= 75	186.8801	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3273	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	50 < hp <= 75	0.3175	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.5691	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.0011	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	6 < hp <= 11	4.6737	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	6 < hp <= 11	4.3365	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	6 < hp <= 11	594.3412	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	6 < hp <= 11	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.3842	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	6 < hp <= 11	0.3727	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2148	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.0035	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	600 < hp <= 750	1.9223	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	600 < hp <= 750	3.5780	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	600 < hp <= 750	536.1461	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	600 < hp <= 750	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2195	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	600 < hp <= 750	0.2130	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3082	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.0053	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	75 < hp <= 100	2.8579	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	75 < hp <= 100	3.2397	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	75 < hp <= 100	595.1739	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	75 < hp <= 100	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3871	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	75 < hp <= 100	0.3755	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.3630	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.0058	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	2.0119	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	5.0039	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	535.6733	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.2656	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Other Construction Equipment	750 < hp <= 1000	0.2576	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	100 < hp <= 175	0.1867	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	100 < hp <= 175	0.0026	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Scrapers	100 < hp <= 175	0.8755	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Scrapers	100 < hp <= 175	2.0528	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Scrapers	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Scrapers	100 < hp <= 175	536.2353	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Scrapers	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Scrapers	100 < hp <= 175	0.2087	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Scrapers	100 < hp <= 175	0.2025	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Scrapers	175 < hp <= 300	0.1727	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Scrapers	175 < hp <= 300	0.0020	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	75 < hp <= 100	0.2277	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	75 < hp <= 100	0.0089	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	75 < hp <= 100	0.0096	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	75 < hp <= 100	0.0287	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	67.7022	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	7.0964	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0111	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	752.1358	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	238.2789	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0688	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0633	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	1.2003	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0235	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	6.4971	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	5.2232	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	692.1702	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.9808	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.9514	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.7704	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.0149	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	2.9954	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	5.1398	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	624.0862	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	196.4053	g/hp-hr



2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.5761	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	100 < hp <= 175	0.5588	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	6.5002	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	11 < hp <= 16	0.3201	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	11 < hp <= 16	0.0688	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.3092	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.1812	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.5214	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	11 < hp <= 16	0.4874	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	283.0895	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	3.7563	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	1047.7285	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	335.0594	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.1115	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.1026	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	1.6415	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0291	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	6.9356	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	6.0535	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	690.7629	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.9847	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	11 < hp <= 16	0.9552	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	8.4457	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.3366	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	16 < hp <= 25	0.3309	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	16 < hp <= 25	0.0466	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.3820	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.5709	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.3416	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	16 < hp <= 25	0.4422	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	339.9530	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	4.7703	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0159	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	1077.4252	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	346.3510	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.1177	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.1083	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	1.6415	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0291	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	6.9356	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	6.0535	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	690.7630	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.9847	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	16 < hp <= 25	0.9552	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	1.3789	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.0257	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	5.5923	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	5.3814	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	691.6004	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.8486	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	25 < hp <= 40	0.8231	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	8.8827	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.0838	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.0110	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	1.2908	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	3 < hp <= 6	0.3770	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	205.4659	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	3.1907	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.0180	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	1222.7643	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	392.3568	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.3257	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	3 < hp <= 6	0.2997	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	1.3789	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.0257	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	5.5923	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	5.3814	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	691.6006	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.8486	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	40 < hp <= 50	0.8231	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	3.4199	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	50 < hp <= 75	1.0669	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	50 < hp <= 75	0.2377	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	50 < hp <= 75	0.0095	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	50 < hp <= 75	0.0232	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	50 < hp <= 75	0.0607	g/hp-hr



2015	12	Gasoline	CO	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	91.8281	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	9.8600	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0115	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	782.6277	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	248.8183	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0686	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	1.0361	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0196	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	5.2891	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	5.4956	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.0045	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	692.6941	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.8317	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	50 < hp <= 75	0.8067	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	6.5002	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Dumpers/Tenders	6 < hp <= 11	0.3201	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Dumpers/Tenders	6 < hp <= 11	0.0992	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.3348	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.0564	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.7515	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Dumpers/Tenders	6 < hp <= 11	0.7024	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	283.0896	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	3.7563	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1047.7282	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	335.0592	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.1115	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.1026	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.7154	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0297	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	9.3616	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	6.6002	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	690.5272	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.2120	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	6 < hp <= 11	1.1757	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	1.0741	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.0210	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	5.8411	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	5.2044	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	692.5728	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.9130	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Dumpers/Tenders	75 < hp <= 100	0.8856	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Other Construction Equipment	100 < hp <= 175	2.4802	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.7095	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Other Construction Equipment	100 < hp <= 175	0.2279	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Other Construction Equipment	100 < hp <= 175	0.0048	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	100 < hp <= 175	0.0074	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Other Construction Equipment	100 < hp <= 175	0.0219	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Other Construction Equipment	100 < hp <= 175	68.2927	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Other Construction Equipment	100 < hp <= 175	7.1623	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Other Construction Equipment	100 < hp <= 175	0.0111	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0132	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	15.6967	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	1.8333	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	701.1036	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	220.2997	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0696	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0641	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.8786	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0162	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	5.0277	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	4.9983	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	693.1965	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.7283	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	50 < hp <= 75	0.7065	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	5.9473	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0779	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0106	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0011	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.5064	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1779	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	274.5495	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	2.6427	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	1044.3241	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	333.4290	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1334	g/hp-hr



2015	12	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	6 < hp <= 11	0.1228	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.5123	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0289	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tractors/Loaders/Backhoes	75 < hp <= 100	0.2105	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0122	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0032	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0101	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	15.6967	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	1.8333	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	701.1035	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	220.2998	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0696	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0641	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.9239	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0179	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	5.7003	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	4.6453	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	693.0514	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.8323	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tractors/Loaders/Backhoes	75 < hp <= 100	0.8073	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.8939	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.0174	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	3.5958	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	5.1595	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	623.6922	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	196.4053	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.6178	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	100 < hp <= 175	0.5993	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	5.5875	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	11 < hp <= 16	0.3187	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	11 < hp <= 16	0.0953	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0192	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0083	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.2841	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	11 < hp <= 16	0.0998	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	271.7119	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	2.6322	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	1045.7468	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	333.5082	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.1212	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.1115	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	1.0364	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0158	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	4.9270	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	5.1858	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	692.6932	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.6555	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	11 < hp <= 16	0.6358	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	5.7093	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	16 < hp <= 25	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	16 < hp <= 25	0.0457	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.0474	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.0124	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.2458	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	16 < hp <= 25	0.1160	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	272.7392	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	2.8896	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	1046.1791	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	333.7677	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.1148	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.1056	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	1.0364	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0158	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	4.9270	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	5.1858	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	692.6930	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.6555	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	16 < hp <= 25	0.6358	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.6657	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0767	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	25 < hp <= 40	0.2117	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	25 < hp <= 40	0.0175	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	25 < hp <= 40	0.0077	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	25 < hp <= 40	0.0259	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	19.9478	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	2.2429	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0104	g/hp-hr



2015	12	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	704.6222	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	221.5592	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0694	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.7365	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0123	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	3.4835	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	4.8160	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	693.6499	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	218.1777	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.5729	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	25 < hp <= 40	0.5557	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	0.7365	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	40 < hp <= 50	0.0123	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	3.4835	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	4.8160	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	0.0044	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	693.6497	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	218.1779	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	0.5729	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	40 < hp <= 50	0.5557	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	2.4570	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.7007	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Skid Steer Loaders	50 < hp <= 75	0.2277	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Skid Steer Loaders	50 < hp <= 75	0.0089	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	50 < hp <= 75	0.0140	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Skid Steer Loaders	50 < hp <= 75	0.0416	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	67.7022	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	7.0964	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0111	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	752.1368	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	238.2789	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0688	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0633	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	1.1622	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0221	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	5.9388	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	5.5145	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.0045	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	692.2918	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.8968	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	50 < hp <= 75	0.8699	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	1.2249	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.0184	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	7.8917	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	5.4216	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.0047	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	692.0917	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	218.1778	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.8730	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Skid Steer Loaders	6 < hp <= 11	0.8468	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Skid Steer Loaders	75 < hp <= 100	2.4570	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Skid Steer Loaders	75 < hp <= 100	0.7007	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	100 < hp <= 175	0.1992	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	100 < hp <= 175	0.0029	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	100 < hp <= 175	0.9196	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	100 < hp <= 175	2.2322	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	100 < hp <= 175	536.1953	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	100 < hp <= 175	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	100 < hp <= 175	0.2144	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	100 < hp <= 175	0.2079	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	11 < hp <= 16	5.7042	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	11 < hp <= 16	0.4290	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.0054	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.0073	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.3167	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	11 < hp <= 16	0.1112	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	11 < hp <= 16	272.6153	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	11 < hp <= 16	2.6260	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Pavers	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	11 < hp <= 16	1045.2540	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	11 < hp <= 16	333.4730	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	11 < hp <= 16	0.1255	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	11 < hp <= 16	0.1155	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	16 < hp <= 25	5.5165	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	16 < hp <= 25	0.3187	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	16 < hp <= 25	0.4040	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0235	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0068	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.1908	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	16 < hp <= 25	0.0714	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	16 < hp <= 25	271.1388	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	16 < hp <= 25	2.6681	g/hp-hr



2015	12	Gasoline	SO2	Running Exhaust	Pavers	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	16 < hp <= 25	1046.1700	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	16 < hp <= 25	333.5685	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	16 < hp <= 25	0.1171	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	16 < hp <= 25	0.1077	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	16 < hp <= 25	0.4485	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	16 < hp <= 25	0.0002	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	16 < hp <= 25	2.3984	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	16 < hp <= 25	4.4580	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	16 < hp <= 25	594.7266	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	16 < hp <= 25	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	16 < hp <= 25	0.3537	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	16 < hp <= 25	0.3431	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	175 < hp <= 300	0.1798	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	175 < hp <= 300	0.0023	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	175 < hp <= 300	0.6866	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	175 < hp <= 300	2.0322	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	175 < hp <= 300	536.2575	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	175 < hp <= 300	0.1330	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	175 < hp <= 300	0.1290	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	25 < hp <= 40	0.4021	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	25 < hp <= 40	0.0174	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	25 < hp <= 40	0.0051	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	25 < hp <= 40	0.0142	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	25 < hp <= 40	12.5123	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	25 < hp <= 40	1.5386	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Pavers	25 < hp <= 40	0.1013	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	25 < hp <= 40	699.0330	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	25 < hp <= 40	219.5385	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	25 < hp <= 40	0.0698	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	25 < hp <= 40	0.0642	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	25 < hp <= 40	0.2065	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	25 < hp <= 40	0.0001	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	25 < hp <= 40	0.9846	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	25 < hp <= 40	3.8477	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	25 < hp <= 40	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	25 < hp <= 40	595.4983	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	25 < hp <= 40	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	25 < hp <= 40	0.1501	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	25 < hp <= 40	0.1456	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	3 < hp <= 6	7.6625	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0079	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0020	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.7434	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	3 < hp <= 6	0.0946	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	3 < hp <= 6	203.0421	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	3 < hp <= 6	3.1281	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Pavers	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	3 < hp <= 6	1226.7335	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	3 < hp <= 6	392.3574	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	3 < hp <= 6	0.3744	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	3 < hp <= 6	0.3445	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	300 < hp <= 600	0.1798	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	300 < hp <= 600	0.0026	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	300 < hp <= 600	1.1261	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	300 < hp <= 600	2.8079	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.3656	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.3364	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.6188	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0047	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	4.4588	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	4.6486	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	588.3958	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.4460	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.4327	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2872	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	1.3529	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	4.3262	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	589.4533	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2522	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	40 < hp <= 50	0.2447	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.4424	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.0075	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	2.4318	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	4.6745	g/hp-hr



2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.0038	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	588.9579	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.4030	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	50 < hp <= 75	0.3909	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	5.6243	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	6 < hp <= 11	0.1020	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.0252	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.0027	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.1364	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	6 < hp <= 11	0.1552	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	271.9834	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	2.6160	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	1045.5419	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	333.4815	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.1231	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.1133	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.6188	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0047	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	4.4588	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	4.6486	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	588.3956	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	185.0657	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.4460	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	6 < hp <= 11	0.4327	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.4397	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.0082	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	2.3124	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	4.2080	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	588.9665	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.4122	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	75 < hp <= 100	0.3998	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	1 < hp <= 3	7.6953	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	1 < hp <= 3	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	1 < hp <= 3	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.0137	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.0035	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	1.3258	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	1 < hp <= 3	0.1687	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	1 < hp <= 3	203.1782	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	1 < hp <= 3	3.1353	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	1 < hp <= 3	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	1 < hp <= 3	1226.6278	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	1 < hp <= 3	392.3572	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	1 < hp <= 3	0.3767	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	1 < hp <= 3	0.3465	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	100 < hp <= 175	0.2443	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	100 < hp <= 175	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	100 < hp <= 175	1.1221	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	100 < hp <= 175	2.8720	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	100 < hp <= 175	536.0520	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	100 < hp <= 175	0.2397	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	100 < hp <= 175	0.2325	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	11 < hp <= 16	5.7220	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	11 < hp <= 16	0.0626	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.0189	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.0067	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.2959	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	11 < hp <= 16	0.1039	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	11 < hp <= 16	272.7567	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	11 < hp <= 16	2.6282	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	11 < hp <= 16	1045.1899	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	11 < hp <= 16	333.4702	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	11 < hp <= 16	0.1260	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	11 < hp <= 16	0.1160	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	11 < hp <= 16	0.4547	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	11 < hp <= 16	0.0010	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	11 < hp <= 16	2.4812	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	11 < hp <= 16	4.4579	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	11 < hp <= 16	594.7069	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	11 < hp <= 16	186.8797	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	11 < hp <= 16	0.3529	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	11 < hp <= 16	0.3423	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	1200 < hp <= 2000	0.3726	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	1200 < hp <= 2000	0.0060	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	1200 < hp <= 2000	2.0651	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	1200 < hp <= 2000	5.0418	g/hp-hr



2015	12	Diesel	SO2	Running Exhaust	Trenchers	1200 < hp <= 2000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	1200 < hp <= 2000	535.6424	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	1200 < hp <= 2000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	1200 < hp <= 2000	0.2733	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	1200 < hp <= 2000	0.2651	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	16 < hp <= 25	5.5133	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	16 < hp <= 25	0.3187	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	16 < hp <= 25	0.0436	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0227	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0071	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.2061	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	16 < hp <= 25	0.0764	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	16 < hp <= 25	271.1160	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	16 < hp <= 25	2.6596	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	16 < hp <= 25	1046.1498	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	16 < hp <= 25	333.5594	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	16 < hp <= 25	0.1174	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	16 < hp <= 25	0.1080	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	16 < hp <= 25	0.4547	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	16 < hp <= 25	0.0010	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	16 < hp <= 25	2.4812	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	16 < hp <= 25	4.4579	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	16 < hp <= 25	594.7069	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	16 < hp <= 25	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	16 < hp <= 25	0.3529	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	16 < hp <= 25	0.3423	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	175 < hp <= 300	0.2196	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	175 < hp <= 300	0.0034	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	175 < hp <= 300	0.8784	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	175 < hp <= 300	2.6728	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	175 < hp <= 300	536.1307	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	175 < hp <= 300	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	175 < hp <= 300	0.1657	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	175 < hp <= 300	0.1607	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	25 < hp <= 40	0.3986	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	25 < hp <= 40	0.0185	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	25 < hp <= 40	0.0054	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	25 < hp <= 40	0.0146	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	25 < hp <= 40	12.3786	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	25 < hp <= 40	1.5281	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	25 < hp <= 40	699.0442	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	25 < hp <= 40	219.5386	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	25 < hp <= 40	0.0699	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	25 < hp <= 40	0.0643	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	25 < hp <= 40	0.2291	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	25 < hp <= 40	0.0006	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	40 < hp <= 50	1.2548	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	40 < hp <= 50	4.0662	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	40 < hp <= 50	595.4147	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	40 < hp <= 50	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.2018	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.1958	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	1.5491	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3554	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	50 < hp <= 75	0.2187	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	50 < hp <= 75	0.0087	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	50 < hp <= 75	0.0085	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	50 < hp <= 75	0.0310	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	50 < hp <= 75	44.3269	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	50 < hp <= 75	4.6064	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0107	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	725.1762	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	228.9025	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0690	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0635	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3301	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0048	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	50 < hp <= 75	2.7641	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	50 < hp <= 75	3.9691	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.0038	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	50 < hp <= 75	595.1040	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3526	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	50 < hp <= 75	0.3421	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	5.6493	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	6 < hp <= 11	0.0943	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.0234	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.0024	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.6007	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	6 < hp <= 11	0.2110	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	6 < hp <= 11	272.1807	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	6 < hp <= 11	2.6186	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	1045.4494	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	333.4783	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.1239	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.1140	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.5742	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0015	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	6 < hp <= 11	4.7258	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	6 < hp <= 11	4.3514	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	6 < hp <= 11	594.3252	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	6 < hp <= 11	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.3939	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	6 < hp <= 11	0.3821	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2415	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	600 < hp <= 750	2.0893	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	600 < hp <= 750	3.8286	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	600 < hp <= 750	536.0604	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2453	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	600 < hp <= 750	0.2379	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.3291	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.0058	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	75 < hp <= 100	2.9480	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	75 < hp <= 100	3.3814	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	75 < hp <= 100	595.1073	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.4084	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	75 < hp <= 100	0.3961	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.3863	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.0064	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	2.1872	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	5.1963	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	535.5988	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.2903	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	750 < hp <= 1000	0.2816	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	48.1306	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	1 < hp <= 3	0.3584	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	1 < hp <= 3	0.4825	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.0270	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.0012	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	0.5114	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	1 < hp <= 3	8.9836	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	253.1655	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	2.1067	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	0.0153	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	1040.6789	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	375.1215	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	7.9716	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	1 < hp <= 3	7.3339	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.3221	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.0059	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	1.1142	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	3.9892	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	530.0153	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.2408	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	100 < hp <= 175	0.2336	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.5034	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.0039	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	2.4616	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	4.6442	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	588.7637	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.3577	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	11 < hp <= 16	0.3470	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	5.5956	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	16 < hp <= 25	0.3188	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	16 < hp <= 25	0.0467	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0307	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0089	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0625	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	16 < hp <= 25	0.0806	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	271.7739	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	2.7414	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	1046.1133	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	333.6314	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Gasoline	PM10	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.1168	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.1074	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.5034	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0039	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	2.4616	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	4.6442	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	588.7636	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.3577	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	16 < hp <= 25	0.3470	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.2907	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.0051	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.9247	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	3.7544	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	530.1156	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.1909	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	175 < hp <= 300	0.1851	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2872	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	1.3529	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	4.3262	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	589.4531	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2522	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Signal Boards/Light Plants	25 < hp <= 40	0.2447	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	7.5332	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Signal Boards/Light Plants	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Signal Boards/Light Plants	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0095	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0024	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.2236	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Signal Boards/Light Plants	3 < hp <= 6	0.0922	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	202.5027	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	3.0995	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	1227.1533	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Signal Boards/Light Plants	3 < hp <= 6	392.3573	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	50 < hp <= 75	3.8201	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	50 < hp <= 75	595.1981	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	50 < hp <= 75	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3155	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3060	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	6 < hp <= 11	5.6342	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	6 < hp <= 11	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	6 < hp <= 11	0.0986	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.0890	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.0060	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.5213	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	6 < hp <= 11	0.2337	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	6 < hp <= 11	272.1089	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	6 < hp <= 11	2.8270	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	6 < hp <= 11	1046.2640	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	6 < hp <= 11	333.7182	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	6 < hp <= 11	0.1146	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	6 < hp <= 11	0.1055	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	6 < hp <= 11	0.5681	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	6 < hp <= 11	0.0011	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	6 < hp <= 11	4.6606	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	6 < hp <= 11	4.3339	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	6 < hp <= 11	594.3450	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	6 < hp <= 11	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	6 < hp <= 11	0.3818	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	6 < hp <= 11	0.3704	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	75 < hp <= 100	0.2994	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	75 < hp <= 100	0.0051	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	75 < hp <= 100	2.8184	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	75 < hp <= 100	3.1752	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	75 < hp <= 100	595.2021	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	75 < hp <= 100	0.3770	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	75 < hp <= 100	0.3657	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2527	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.0043	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	100 < hp <= 175	1.1669	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	100 < hp <= 175	3.0023	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	100 < hp <= 175	536.0249	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	100 < hp <= 175	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2464	g/hp-hr



2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	100 < hp <= 175	0.2390	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.3863	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.0064	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	2.1872	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	5.1963	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	535.5984	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.2903	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	1000 < hp <= 1200	0.2816	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	5.6493	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	11 < hp <= 16	0.0539	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.0210	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.0064	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.3432	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	11 < hp <= 16	0.1205	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	11 < hp <= 16	272.1807	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	11 < hp <= 16	2.6186	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	1045.4504	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	333.4779	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.1239	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.1140	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.4568	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0012	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	11 < hp <= 16	2.5063	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	11 < hp <= 16	4.4590	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	11 < hp <= 16	594.7004	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	11 < hp <= 16	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.3532	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	11 < hp <= 16	0.3426	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.3863	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.0064	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	2.1872	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	5.1963	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	535.5987	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.2903	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	1200 < hp <= 2000	0.2816	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	5.5874	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	16 < hp <= 25	0.3188	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	16 < hp <= 25	0.0442	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.0282	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.0080	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.2812	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	16 < hp <= 25	0.1087	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	16 < hp <= 25	271.7087	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	16 < hp <= 25	2.7214	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	1046.0747	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	333.6108	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.1174	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.1080	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.4568	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0012	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	16 < hp <= 25	2.5063	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	16 < hp <= 25	4.4590	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	16 < hp <= 25	594.6998	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	16 < hp <= 25	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.3532	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	16 < hp <= 25	0.3426	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.2274	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.0036	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.9223	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	175 < hp <= 300	2.8044	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	175 < hp <= 300	536.1052	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.1743	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	175 < hp <= 300	0.1691	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.4270	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0045	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	25 < hp <= 40	0.2099	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	25 < hp <= 40	0.0183	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	25 < hp <= 40	0.0074	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	25 < hp <= 40	0.0219	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	25 < hp <= 40	13.2743	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	25 < hp <= 40	1.6047	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	699.3275	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	219.6562	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0698	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0642	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.2329	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0007	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	25 < hp <= 40	1.2548	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	25 < hp <= 40	4.0662	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	25 < hp <= 40	595.4146	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.2018	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	25 < hp <= 40	0.1958	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Surfacing Equipment	3 < hp <= 6	7.5727	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Surfacing Equipment	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Surfacing Equipment	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.0088	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.0023	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	1.0382	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Surfacing Equipment	3 < hp <= 6	0.1321	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Surfacing Equipment	3 < hp <= 6	202.6672	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Surfacing Equipment	3 < hp <= 6	3.1082	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Surfacing Equipment	3 < hp <= 6	1227.0240	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Surfacing Equipment	3 < hp <= 6	392.3566	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.3683	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Surfacing Equipment	3 < hp <= 6	0.3389	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2543	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.0044	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Surfacing Equipment	300 < hp <= 600	1.7459	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Surfacing Equipment	300 < hp <= 600	3.8329	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Surfacing Equipment	300 < hp <= 600	536.0198	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Surfacing Equipment	300 < hp <= 600	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2360	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Surfacing Equipment	300 < hp <= 600	0.2289	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.2329	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Surfacing Equipment	40 < hp <= 50	0.0007	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	75 < hp <= 100	0.5904	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rollers	75 < hp <= 100	0.0531	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	75 < hp <= 100	0.2111	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	75 < hp <= 100	0.0080	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	75 < hp <= 100	0.0026	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	75 < hp <= 100	0.0085	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	75 < hp <= 100	17.8801	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	75 < hp <= 100	2.0435	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	75 < hp <= 100	0.0104	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	75 < hp <= 100	702.8866	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	75 < hp <= 100	220.9385	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	75 < hp <= 100	0.0695	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	75 < hp <= 100	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	75 < hp <= 100	0.2527	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	75 < hp <= 100	0.0040	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	75 < hp <= 100	2.5920	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	75 < hp <= 100	2.8205	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	75 < hp <= 100	595.3512	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	75 < hp <= 100	0.3337	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	75 < hp <= 100	0.3237	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	1 < hp <= 3	45.0800	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	1 < hp <= 3	0.3584	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	1 < hp <= 3	0.4825	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.0723	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.0033	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	2.4406	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	1 < hp <= 3	0.5392	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	1 < hp <= 3	244.0346	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	1 < hp <= 3	2.1067	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	1 < hp <= 3	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	1 < hp <= 3	1050.5618	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	1 < hp <= 3	375.1204	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	1 < hp <= 3	7.6888	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	1 < hp <= 3	7.0737	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2366	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	100 < hp <= 175	0.0039	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	100 < hp <= 175	1.0838	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	100 < hp <= 175	2.7484	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	100 < hp <= 175	536.0762	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	100 < hp <= 175	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2333	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	100 < hp <= 175	0.2263	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	11 < hp <= 16	5.6342	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	11 < hp <= 16	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	11 < hp <= 16	0.0635	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.0811	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.0177	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.3355	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	11 < hp <= 16	0.1504	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	11 < hp <= 16	272.1087	g/hp-hr



2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	11 < hp <= 16	2.8270	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	11 < hp <= 16	1046.2643	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	11 < hp <= 16	333.7178	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	11 < hp <= 16	0.1146	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	11 < hp <= 16	0.1055	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	11 < hp <= 16	0.4532	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	11 < hp <= 16	0.0008	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	11 < hp <= 16	2.4626	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	11 < hp <= 16	4.4566	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	11 < hp <= 16	594.7115	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	11 < hp <= 16	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	11 < hp <= 16	0.3517	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	11 < hp <= 16	0.3412	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	16 < hp <= 25	6.4366	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	16 < hp <= 25	0.3199	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	16 < hp <= 25	0.0422	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.1397	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.0749	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.2225	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	16 < hp <= 25	0.2012	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	16 < hp <= 25	281.3328	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	16 < hp <= 25	3.6881	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	16 < hp <= 25	1047.0655	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	16 < hp <= 25	334.7867	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	16 < hp <= 25	0.1117	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	16 < hp <= 25	0.1028	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	16 < hp <= 25	0.4532	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	16 < hp <= 25	0.0008	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	16 < hp <= 25	2.4626	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	16 < hp <= 25	4.4566	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	16 < hp <= 25	594.7118	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	16 < hp <= 25	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	16 < hp <= 25	0.3517	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	16 < hp <= 25	0.3412	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	175 < hp <= 300	0.2124	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	175 < hp <= 300	0.8407	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	175 < hp <= 300	2.5471	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	175 < hp <= 300	536.1531	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	175 < hp <= 300	0.1576	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	175 < hp <= 300	0.1529	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	25 < hp <= 40	2.0481	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Paving Equipment	25 < hp <= 40	0.5447	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	25 < hp <= 40	0.2236	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	25 < hp <= 40	0.0161	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	25 < hp <= 40	0.0169	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	25 < hp <= 40	0.0544	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	25 < hp <= 40	57.2576	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	25 < hp <= 40	5.9595	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0109	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	25 < hp <= 40	739.7271	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	25 < hp <= 40	233.9724	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0690	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0634	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	25 < hp <= 40	0.2243	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	25 < hp <= 40	0.0005	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	25 < hp <= 40	1.1693	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	25 < hp <= 40	4.0043	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	25 < hp <= 40	595.4414	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	25 < hp <= 40	0.1851	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	25 < hp <= 40	0.1796	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	3 < hp <= 6	7.0490	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.0205	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.0053	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.8663	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	3 < hp <= 6	0.1102	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	3 < hp <= 6	200.2991	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	3 < hp <= 6	2.9786	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	3 < hp <= 6	1228.7266	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	3 < hp <= 6	392.3568	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3247	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	3 < hp <= 6	0.2987	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	3 < hp <= 6	0.5681	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	3 < hp <= 6	0.0011	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	3 < hp <= 6	4.6606	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	3 < hp <= 6	4.3339	g/hp-hr



2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	3 < hp <= 6	594.3450	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	3 < hp <= 6	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3818	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	3 < hp <= 6	0.3704	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	300 < hp <= 600	0.2220	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	300 < hp <= 600	0.0037	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	300 < hp <= 600	1.5150	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Paving Equipment	300 < hp <= 600	3.5166	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Paving Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Paving Equipment	300 < hp <= 600	536.1225	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Paving Equipment	300 < hp <= 600	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Paving Equipment	300 < hp <= 600	0.2035	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Paving Equipment	300 < hp <= 600	0.1974	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Paving Equipment	50 < hp <= 75	3.4232	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Paving Equipment	50 < hp <= 75	1.0681	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Paving Equipment	50 < hp <= 75	0.2378	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Paving Equipment	50 < hp <= 75	0.0095	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	50 < hp <= 75	0.0162	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Paving Equipment	50 < hp <= 75	0.0422	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Paving Equipment	50 < hp <= 75	91.9130	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Paving Equipment	50 < hp <= 75	9.8686	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0115	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Paving Equipment	50 < hp <= 75	782.7194	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Paving Equipment	50 < hp <= 75	248.8505	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0686	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Paving Equipment	50 < hp <= 75	0.0631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Paving Equipment	50 < hp <= 75	0.3006	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Paving Equipment	50 < hp <= 75	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Paving Equipment	50 < hp <= 75	2.6187	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Plate Compactors	6 < hp <= 11	4.4747	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Plate Compactors	6 < hp <= 11	4.8073	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Plate Compactors	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	6 < hp <= 11	588.3029	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Plate Compactors	6 < hp <= 11	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Plate Compactors	6 < hp <= 11	0.4682	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Plate Compactors	6 < hp <= 11	0.4541	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	100 < hp <= 175	0.2097	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	100 < hp <= 175	0.9610	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	100 < hp <= 175	2.3763	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	100 < hp <= 175	536.1619	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	100 < hp <= 175	0.2192	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	100 < hp <= 175	0.2126	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	11 < hp <= 16	6.0590	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	11 < hp <= 16	0.0568	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.0120	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.0042	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.2857	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	11 < hp <= 16	0.1003	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	11 < hp <= 16	275.4210	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	11 < hp <= 16	2.6888	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	11 < hp <= 16	1044.0432	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	11 < hp <= 16	333.4544	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	11 < hp <= 16	0.1353	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	11 < hp <= 16	0.1245	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	11 < hp <= 16	0.4492	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	11 < hp <= 16	0.0004	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	11 < hp <= 16	2.4090	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	11 < hp <= 16	4.4565	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	11 < hp <= 16	594.7243	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	11 < hp <= 16	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	11 < hp <= 16	0.3521	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	11 < hp <= 16	0.3415	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	16 < hp <= 25	5.5760	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	16 < hp <= 25	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	16 < hp <= 25	0.0441	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0132	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0050	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.2219	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	16 < hp <= 25	0.0779	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	16 < hp <= 25	271.6046	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	16 < hp <= 25	2.6131	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	16 < hp <= 25	1045.7265	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	16 < hp <= 25	333.4897	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	16 < hp <= 25	0.1216	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	16 < hp <= 25	0.1118	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	16 < hp <= 25	0.4492	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	16 < hp <= 25	0.0004	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	16 < hp <= 25	2.4090	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	16 < hp <= 25	4.4565	g/hp-hr



2015	12	Diesel	SO2	Running Exhaust	Rollers	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	16 < hp <= 25	594.7240	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	16 < hp <= 25	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	16 < hp <= 25	0.3521	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	16 < hp <= 25	0.3415	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	175 < hp <= 300	0.1885	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	175 < hp <= 300	0.0025	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	175 < hp <= 300	0.7233	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	175 < hp <= 300	2.1732	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	175 < hp <= 300	536.2301	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	175 < hp <= 300	0.1391	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	175 < hp <= 300	0.1349	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	25 < hp <= 40	0.3789	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	25 < hp <= 40	0.0150	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	25 < hp <= 40	0.0047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	25 < hp <= 40	0.0106	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	25 < hp <= 40	11.5895	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	25 < hp <= 40	1.4654	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	25 < hp <= 40	699.1082	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	25 < hp <= 40	219.5385	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	25 < hp <= 40	0.0705	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	25 < hp <= 40	0.0648	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	25 < hp <= 40	0.2102	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	25 < hp <= 40	0.0002	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	25 < hp <= 40	1.0252	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	25 < hp <= 40	3.8844	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	25 < hp <= 40	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	25 < hp <= 40	595.4871	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	25 < hp <= 40	186.8801	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	25 < hp <= 40	0.1577	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	25 < hp <= 40	0.1530	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	3 < hp <= 6	0.5613	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	3 < hp <= 6	0.0005	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	3 < hp <= 6	4.5782	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	3 < hp <= 6	4.3173	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	3 < hp <= 6	594.3671	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	3 < hp <= 6	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	3 < hp <= 6	0.3669	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	3 < hp <= 6	0.3559	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	300 < hp <= 600	0.1883	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	300 < hp <= 600	0.0029	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	300 < hp <= 600	1.2098	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	300 < hp <= 600	2.9875	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	300 < hp <= 600	536.2299	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	300 < hp <= 600	168.2825	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	300 < hp <= 600	0.1637	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	300 < hp <= 600	0.1587	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	40 < hp <= 50	0.2102	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	40 < hp <= 50	0.0002	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	40 < hp <= 50	1.0252	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	40 < hp <= 50	3.8844	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	40 < hp <= 50	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	40 < hp <= 50	595.4877	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	40 < hp <= 50	186.8801	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	40 < hp <= 50	0.1577	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	40 < hp <= 50	0.1530	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	50 < hp <= 75	0.5904	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rollers	50 < hp <= 75	0.0531	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	50 < hp <= 75	0.2111	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	50 < hp <= 75	0.0080	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	50 < hp <= 75	0.0035	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	50 < hp <= 75	0.0116	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	50 < hp <= 75	17.8801	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	50 < hp <= 75	2.0435	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	50 < hp <= 75	0.0104	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	50 < hp <= 75	702.8868	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	50 < hp <= 75	220.9387	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	50 < hp <= 75	0.0695	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	50 < hp <= 75	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	50 < hp <= 75	0.2542	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	50 < hp <= 75	0.0028	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	50 < hp <= 75	2.3625	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	50 < hp <= 75	3.5777	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	50 < hp <= 75	595.3464	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	50 < hp <= 75	0.2605	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	50 < hp <= 75	0.2527	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rollers	6 < hp <= 11	6.0590	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rollers	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rollers	6 < hp <= 11	0.0945	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.0133	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.0015	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.4757	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rollers	6 < hp <= 11	0.1671	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rollers	6 < hp <= 11	275.4212	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rollers	6 < hp <= 11	2.6888	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rollers	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rollers	6 < hp <= 11	1044.0453	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rollers	6 < hp <= 11	333.4550	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rollers	6 < hp <= 11	0.1353	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rollers	6 < hp <= 11	0.1245	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rollers	6 < hp <= 11	0.5613	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rollers	6 < hp <= 11	0.0005	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rollers	6 < hp <= 11	4.5782	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rollers	6 < hp <= 11	4.3173	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rollers	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rollers	6 < hp <= 11	594.3667	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rollers	6 < hp <= 11	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rollers	6 < hp <= 11	0.3669	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rollers	6 < hp <= 11	0.3559	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	300 < hp <= 600	536.2575	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	300 < hp <= 600	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	300 < hp <= 600	0.1536	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	300 < hp <= 600	0.1490	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	40 < hp <= 50	0.2065	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	40 < hp <= 50	0.0001	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	40 < hp <= 50	0.9846	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	40 < hp <= 50	3.8477	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	40 < hp <= 50	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	40 < hp <= 50	595.4983	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	40 < hp <= 50	186.8797	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	40 < hp <= 50	0.1501	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	40 < hp <= 50	0.1456	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	50 < hp <= 75	1.2730	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Pavers	50 < hp <= 75	0.2519	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	50 < hp <= 75	0.2161	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	50 < hp <= 75	0.0091	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	50 < hp <= 75	0.0055	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	50 < hp <= 75	0.0220	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	50 < hp <= 75	37.0982	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	50 < hp <= 75	3.8679	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Pavers	50 < hp <= 75	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	50 < hp <= 75	177.3172	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	50 < hp <= 75	226.1748	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	50 < hp <= 75	0.0691	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	50 < hp <= 75	0.0636	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	50 < hp <= 75	0.2381	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	50 < hp <= 75	0.0024	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	50 < hp <= 75	2.2533	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	50 < hp <= 75	3.4872	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	50 < hp <= 75	595.3981	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	50 < hp <= 75	0.2428	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	50 < hp <= 75	0.2356	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Pavers	6 < hp <= 11	5.7042	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Pavers	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Pavers	6 < hp <= 11	0.4290	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.0073	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.0021	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.4264	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Pavers	6 < hp <= 11	0.1498	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Pavers	6 < hp <= 11	272.6151	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Pavers	6 < hp <= 11	2.6260	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Pavers	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Pavers	6 < hp <= 11	1045.2529	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Pavers	6 < hp <= 11	333.4720	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Pavers	6 < hp <= 11	0.1255	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Pavers	6 < hp <= 11	0.1155	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Pavers	75 < hp <= 100	0.2365	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Pavers	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Pavers	75 < hp <= 100	2.4953	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Pavers	75 < hp <= 100	2.6757	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Pavers	75 < hp <= 100	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Pavers	75 < hp <= 100	595.4036	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Pavers	75 < hp <= 100	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Pavers	75 < hp <= 100	0.3213	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Pavers	75 < hp <= 100	0.3117	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	56.8521	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tampers/Rammers	3 < hp <= 6	0.2635	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tampers/Rammers	3 < hp <= 6	0.3942	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.0417	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.0031	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	1.2727	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	3 < hp <= 6	0.2812	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tampers/Rammers	3 < hp <= 6	276.9394	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tampers/Rammers	3 < hp <= 6	1.3520	g/hp-hr



2015	12	Gasoline	SO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0102	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	695.5218	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	275.7840	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tampers/Rammers	3 < hp <= 6	9.2690	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tampers/Rammers	3 < hp <= 6	8.5275	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.6611	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0064	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Tampers/Rammers	3 < hp <= 6	4.4827	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Tampers/Rammers	3 < hp <= 6	4.8822	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Tampers/Rammers	3 < hp <= 6	588.2603	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Tampers/Rammers	3 < hp <= 6	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.4778	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Tampers/Rammers	3 < hp <= 6	0.4635	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Tampers/Rammers	6 < hp <= 11	5.7452	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Tampers/Rammers	6 < hp <= 11	0.3190	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Tampers/Rammers	6 < hp <= 11	0.4771	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.0474	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.0104	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.6348	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Tampers/Rammers	6 < hp <= 11	0.3234	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Tampers/Rammers	6 < hp <= 11	273.0790	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Tampers/Rammers	6 < hp <= 11	2.9527	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Tampers/Rammers	6 < hp <= 11	1046.2490	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Tampers/Rammers	6 < hp <= 11	333.8258	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.1138	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Tampers/Rammers	6 < hp <= 11	0.1047	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Plate Compactors	1 < hp <= 3	44.5110	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	1 < hp <= 3	0.3584	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	1 < hp <= 3	0.5361	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.0849	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.0042	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	2.8943	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	1 < hp <= 3	0.6395	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Plate Compactors	1 < hp <= 3	242.1963	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Plate Compactors	1 < hp <= 3	2.1067	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Plate Compactors	1 < hp <= 3	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	1 < hp <= 3	1052.4043	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Plate Compactors	1 < hp <= 3	375.1207	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Plate Compactors	1 < hp <= 3	7.6375	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Plate Compactors	1 < hp <= 3	7.0265	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Plate Compactors	11 < hp <= 16	5.7286	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	11 < hp <= 16	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	11 < hp <= 16	0.4771	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.0263	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.0256	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.3767	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	11 < hp <= 16	0.1853	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Plate Compactors	11 < hp <= 16	272.9212	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Plate Compactors	11 < hp <= 16	2.9239	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Plate Compactors	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	11 < hp <= 16	1046.2190	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Plate Compactors	11 < hp <= 16	333.8000	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Plate Compactors	11 < hp <= 16	0.1142	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Plate Compactors	11 < hp <= 16	0.1051	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Plate Compactors	11 < hp <= 16	0.5290	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	11 < hp <= 16	0.0049	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Plate Compactors	11 < hp <= 16	2.5239	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Plate Compactors	11 < hp <= 16	4.7286	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Plate Compactors	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	11 < hp <= 16	588.6819	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Plate Compactors	11 < hp <= 16	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Plate Compactors	11 < hp <= 16	0.3693	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Plate Compactors	11 < hp <= 16	0.3583	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Plate Compactors	16 < hp <= 25	0.5290	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	16 < hp <= 25	0.0049	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Plate Compactors	16 < hp <= 25	2.5239	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Plate Compactors	16 < hp <= 25	4.7286	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Plate Compactors	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	16 < hp <= 25	588.6814	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Plate Compactors	16 < hp <= 25	185.0654	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Plate Compactors	16 < hp <= 25	0.3693	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Plate Compactors	16 < hp <= 25	0.3583	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Plate Compactors	3 < hp <= 6	7.3239	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	3 < hp <= 6	0.5608	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.0276	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.0070	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	1.0825	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	3 < hp <= 6	0.1530	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Plate Compactors	3 < hp <= 6	201.0680	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Plate Compactors	3 < hp <= 6	3.0118	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Plate Compactors	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	3 < hp <= 6	1227.8335	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Plate Compactors	3 < hp <= 6	392.3570	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Plate Compactors	3 < hp <= 6	0.3274	g/hp-hr



2015	12	Gasoline	PM2.5	Running Exhaust	Plate Compactors	3 < hp <= 6	0.3012	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Plate Compactors	3 < hp <= 6	0.6478	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	3 < hp <= 6	0.0059	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Plate Compactors	3 < hp <= 6	4.4747	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Plate Compactors	3 < hp <= 6	4.8073	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Plate Compactors	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Plate Compactors	3 < hp <= 6	588.3029	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Plate Compactors	3 < hp <= 6	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Plate Compactors	3 < hp <= 6	0.4682	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Plate Compactors	3 < hp <= 6	0.4541	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Plate Compactors	6 < hp <= 11	5.7286	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Plate Compactors	6 < hp <= 11	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Plate Compactors	6 < hp <= 11	0.4771	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.0406	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.0085	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.5803	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Plate Compactors	6 < hp <= 11	0.2855	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Plate Compactors	6 < hp <= 11	272.9211	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Plate Compactors	6 < hp <= 11	2.9239	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Plate Compactors	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Plate Compactors	6 < hp <= 11	1046.2192	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Plate Compactors	6 < hp <= 11	333.8000	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Plate Compactors	6 < hp <= 11	0.1142	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Plate Compactors	6 < hp <= 11	0.1051	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Plate Compactors	6 < hp <= 11	0.6478	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Plate Compactors	6 < hp <= 11	0.0059	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	25 < hp <= 40	1.2163	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	25 < hp <= 40	4.0446	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	25 < hp <= 40	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	25 < hp <= 40	595.4265	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	25 < hp <= 40	0.1940	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	25 < hp <= 40	0.1882	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	3 < hp <= 6	7.6953	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	3 < hp <= 6	0.5047	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0079	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0020	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.7632	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	3 < hp <= 6	0.0971	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	3 < hp <= 6	203.1782	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	3 < hp <= 6	3.1353	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	3 < hp <= 6	1226.6280	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	3 < hp <= 6	392.3572	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	3 < hp <= 6	0.3767	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	3 < hp <= 6	0.3465	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	300 < hp <= 600	0.2381	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	300 < hp <= 600	0.0040	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	300 < hp <= 600	1.6152	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	300 < hp <= 600	3.6366	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	300 < hp <= 600	536.0713	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	300 < hp <= 600	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	300 < hp <= 600	0.2178	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	300 < hp <= 600	0.2113	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	40 < hp <= 50	0.2291	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	40 < hp <= 50	0.0006	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	40 < hp <= 50	1.2163	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	40 < hp <= 50	4.0446	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	40 < hp <= 50	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	40 < hp <= 50	595.4262	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	40 < hp <= 50	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	40 < hp <= 50	0.1940	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	40 < hp <= 50	0.1882	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	50 < hp <= 75	1.2216	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Trenchers	50 < hp <= 75	0.2333	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	50 < hp <= 75	0.2156	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	50 < hp <= 75	0.0082	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	50 < hp <= 75	0.0053	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	50 < hp <= 75	0.0217	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	50 < hp <= 75	35.7205	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	50 < hp <= 75	3.7286	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	50 < hp <= 75	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	50 < hp <= 75	715.9796	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	50 < hp <= 75	225.6858	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	50 < hp <= 75	0.0692	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	50 < hp <= 75	0.0636	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	50 < hp <= 75	0.3149	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	50 < hp <= 75	0.0044	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	50 < hp <= 75	2.6892	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	50 < hp <= 75	3.8930	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	50 < hp <= 75	595.1533	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	50 < hp <= 75	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	50 < hp <= 75	0.3338	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	50 < hp <= 75	0.3238	g/hp-hr



2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	6 < hp <= 11	5.7220	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	6 < hp <= 11	0.0947	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.0206	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.0022	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.4477	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	6 < hp <= 11	0.1573	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	6 < hp <= 11	272.7571	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	6 < hp <= 11	2.6282	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	6 < hp <= 11	1045.1901	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	6 < hp <= 11	333.4711	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	6 < hp <= 11	0.1260	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	6 < hp <= 11	0.1160	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	6 < hp <= 11	0.5707	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	6 < hp <= 11	0.0012	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	6 < hp <= 11	4.6889	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	6 < hp <= 11	4.3415	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	6 < hp <= 11	594.3367	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	6 < hp <= 11	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	6 < hp <= 11	0.3870	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	6 < hp <= 11	0.3754	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	600 < hp <= 750	0.2252	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	600 < hp <= 750	0.0038	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	600 < hp <= 750	1.9718	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	600 < hp <= 750	3.6329	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	600 < hp <= 750	536.1127	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	600 < hp <= 750	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	600 < hp <= 750	0.2274	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	600 < hp <= 750	0.2206	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Trenchers	75 < hp <= 100	1.2216	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Trenchers	75 < hp <= 100	0.2333	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Trenchers	75 < hp <= 100	0.2156	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Trenchers	75 < hp <= 100	0.0082	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	75 < hp <= 100	0.0041	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Trenchers	75 < hp <= 100	0.0167	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Trenchers	75 < hp <= 100	35.7205	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Trenchers	75 < hp <= 100	3.7286	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Trenchers	75 < hp <= 100	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Trenchers	75 < hp <= 100	715.9793	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Trenchers	75 < hp <= 100	225.6857	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Trenchers	75 < hp <= 100	0.0692	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Trenchers	75 < hp <= 100	0.0636	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Trenchers	75 < hp <= 100	0.3137	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Trenchers	75 < hp <= 100	0.0055	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Trenchers	75 < hp <= 100	2.8814	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Trenchers	75 < hp <= 100	3.2766	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Trenchers	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Trenchers	75 < hp <= 100	595.1565	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Trenchers	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Trenchers	75 < hp <= 100	0.3925	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Trenchers	75 < hp <= 100	0.3807	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	7.3881	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	0 < hp <= 1	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	0 < hp <= 1	1.0996	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.1043	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.0369	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	1.1392	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	0 < hp <= 1	0.5557	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	201.1507	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	3.0126	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	1227.6261	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	392.3570	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.3241	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	0 < hp <= 1	0.2982	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	7.3881	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	1 < hp <= 3	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	1 < hp <= 3	0.4480	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.0714	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.0150	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.4642	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	1 < hp <= 3	0.2264	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	201.1508	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	3.0126	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	1227.6260	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	392.3571	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.3241	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	1 < hp <= 3	0.2982	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	3.4222	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	1.0677	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	100 < hp <= 175	0.2378	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	100 < hp <= 175	0.0053	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	100 < hp <= 175	0.0067	g/hp-hr



2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	100 < hp <= 175	0.0176	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	91.8872	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	9.8661	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0115	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	782.6932	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	248.8413	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0686	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.3564	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0066	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	1.3115	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	4.5066	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	529.9061	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.2684	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	100 < hp <= 175	0.2604	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.4154	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.0071	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	1.6142	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	5.8306	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	529.7182	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.2507	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	1000 < hp <= 1200	0.2432	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	5.7773	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	1.7665	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	3.0347	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	589.5283	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2581	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2504	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.3167	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.0047	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	1.1197	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	4.8910	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	530.0328	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.1765	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	750 < hp <= 1000	0.1712	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	1.2653	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.2492	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	100 < hp <= 175	0.2160	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	100 < hp <= 175	0.0050	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	100 < hp <= 175	0.0031	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	100 < hp <= 175	0.0126	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	36.8845	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	3.8465	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	717.1718	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	226.1041	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0691	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	100 < hp <= 175	0.0636	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	5.5123	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	16 < hp <= 25	0.3187	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	16 < hp <= 25	0.0366	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0229	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0061	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.1812	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	16 < hp <= 25	0.0675	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	271.1078	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	2.6641	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	1046.1706	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	333.5644	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.1171	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	16 < hp <= 25	0.1078	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.4015	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	25 < hp <= 40	0.0191	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	25 < hp <= 40	0.0059	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	25 < hp <= 40	0.0162	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	12.4864	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	1.5365	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	699.0347	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	219.5386	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0698	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	25 < hp <= 40	0.0642	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	1.2653	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.2492	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	50 < hp <= 75	0.2160	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	50 < hp <= 75	0.0086	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	50 < hp <= 75	0.0054	g/hp-hr



2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	50 < hp <= 75	0.0217	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	36.8845	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	3.8465	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	717.1720	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	226.1044	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0691	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	50 < hp <= 75	0.0636	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	1.2653	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.2492	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rough Terrain Forklift	75 < hp <= 100	0.2160	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rough Terrain Forklift	75 < hp <= 100	0.0086	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	75 < hp <= 100	0.0045	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rough Terrain Forklift	75 < hp <= 100	0.0179	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	36.8845	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	3.8465	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0106	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	717.1721	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	226.1041	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0691	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rough Terrain Forklift	75 < hp <= 100	0.0636	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.6528	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0726	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	100 < hp <= 175	0.2116	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	100 < hp <= 175	0.0049	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	100 < hp <= 175	0.0018	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	100 < hp <= 175	0.0059	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	19.5894	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	2.2083	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0104	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	704.3239	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	221.4525	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0695	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2097	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.9608	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	2.3751	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	536.1623	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2191	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	100 < hp <= 175	0.2126	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.2964	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.0042	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	1.5046	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	4.4349	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	535.8856	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	168.2827	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.1981	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	1000 < hp <= 1200	0.1922	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.2964	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.0042	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	1.5046	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	4.4349	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	535.8855	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.1981	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	1200 < hp <= 2000	0.1922	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.4491	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.0004	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	2.4082	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	4.4566	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	594.7245	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	186.8797	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.3521	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	16 < hp <= 25	0.3415	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1884	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.0025	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.7232	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	2.1720	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	536.2297	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1390	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	175 < hp <= 300	0.1349	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.2964	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.0042	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	1.5046	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	4.4349	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	535.8856	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.1981	g/hp-hr



2015	12	Diesel	PM2.5	Running Exhaust	Rubber Tire Loaders	2000 < hp <= 3000	0.1922	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.3799	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Rubber Tire Loaders	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Rubber Tire Loaders	25 < hp <= 40	0.0150	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	25 < hp <= 40	0.0041	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Rubber Tire Loaders	25 < hp <= 40	0.0092	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	11.6093	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	1.4666	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	699.1051	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	219.5387	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0706	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0649	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.2101	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0002	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	1.0241	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	3.8840	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	595.4870	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Rubber Tire Loaders	25 < hp <= 40	186.8799	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	600 < hp <= 750	3.2202	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	600 < hp <= 750	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	600 < hp <= 750	530.4558	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	600 < hp <= 750	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	600 < hp <= 750	0.1317	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	600 < hp <= 750	0.1278	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	75 < hp <= 100	0.2546	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	75 < hp <= 100	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	75 < hp <= 100	1.7327	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	75 < hp <= 100	2.9511	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	75 < hp <= 100	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	75 < hp <= 100	589.5570	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	75 < hp <= 100	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	75 < hp <= 100	0.2515	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	75 < hp <= 100	0.2439	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	750 < hp <= 1000	0.3052	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	750 < hp <= 1000	0.0045	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	750 < hp <= 1000	1.0451	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	750 < hp <= 1000	4.7798	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	750 < hp <= 1000	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	750 < hp <= 1000	530.0696	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	750 < hp <= 1000	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	750 < hp <= 1000	0.1671	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	750 < hp <= 1000	0.1621	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	48.1304	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	1 < hp <= 3	0.3584	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	1 < hp <= 3	0.5256	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.0351	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.0034	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	1.7157	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	1 < hp <= 3	0.3791	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	253.1649	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	2.1067	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	0.0153	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	1040.6734	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	375.1198	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	7.9716	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	1 < hp <= 3	7.3339	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.2149	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.0034	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.6642	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	2.5732	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	530.3576	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	166.4684	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.1592	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	100 < hp <= 175	0.1544	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	5.5751	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	11 < hp <= 16	0.0526	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0254	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0072	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.1930	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	11 < hp <= 16	0.0678	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	271.5975	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	2.6131	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	1045.7274	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	333.4897	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.1215	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	11 < hp <= 16	0.1118	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.4494	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.0005	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	2.3622	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	4.4686	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	588.9365	g/hp-hr



2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	185.0659	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.3477	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	16 < hp <= 25	0.3373	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.1931	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0027	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.5069	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	2.3599	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	530.4271	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.1011	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	175 < hp <= 300	0.0981	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.2167	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.0003	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	1.0131	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	3.9655	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	589.6780	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	185.0654	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.1653	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	25 < hp <= 40	0.1603	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	7.4760	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	3 < hp <= 6	0.2290	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0203	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0032	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.7147	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	3 < hp <= 6	0.0909	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	202.2641	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	3.0868	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	1227.3392	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	392.3569	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.3618	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	3 < hp <= 6	0.3328	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1987	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.0031	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.8763	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	3.3249	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	530.4090	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1296	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	300 < hp <= 600	0.1257	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.2167	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.0003	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	1.0131	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	3.9655	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.0035	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	589.6780	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.1653	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	40 < hp <= 50	0.1603	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	2.0697	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.5530	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	50 < hp <= 75	0.2238	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	50 < hp <= 75	0.0094	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	50 < hp <= 75	0.0069	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	50 < hp <= 75	0.0222	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	57.8136	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	6.0195	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0109	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	740.3798	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	234.1989	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0689	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0634	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2678	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0033	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	1.9576	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	3.7762	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	589.5149	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2429	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	50 < hp <= 75	0.2356	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	5.5751	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Crushing/Proc. Equipment	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Crushing/Proc. Equipment	6 < hp <= 11	0.0942	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.0286	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.0028	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.3458	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Crushing/Proc. Equipment	6 < hp <= 11	0.1215	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	271.5978	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	2.6131	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	1045.7304	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	333.4899	g/hp-hr



2015	12	Gasoline	PM10	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.1215	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Crushing/Proc. Equipment	6 < hp <= 11	0.1118	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1895	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.0030	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	1.1388	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	3.3297	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	530.4389	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1380	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Crushing/Proc. Equipment	600 < hp <= 750	0.1338	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.2635	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Crushing/Proc. Equipment	75 < hp <= 100	0.0043	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.2853	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.0051	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	1.5097	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	4.4686	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	530.1329	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.1897	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	600 < hp <= 750	0.1840	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.5049	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.0096	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	2.4771	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	4.7621	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	588.7587	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.4285	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	75 < hp <= 100	0.4157	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	100 < hp <= 175	2.2293	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	100 < hp <= 175	0.6138	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	100 < hp <= 175	0.2254	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	100 < hp <= 175	0.0052	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	100 < hp <= 175	0.0074	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	100 < hp <= 175	0.0228	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	100 < hp <= 175	61.9037	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	100 < hp <= 175	6.4591	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	100 < hp <= 175	0.0110	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	100 < hp <= 175	745.1647	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cranes	100 < hp <= 175	235.8615	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	100 < hp <= 175	0.0689	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	100 < hp <= 175	0.0634	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	100 < hp <= 175	0.2091	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	100 < hp <= 175	0.6473	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	100 < hp <= 175	2.4847	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	100 < hp <= 175	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	100 < hp <= 175	530.3757	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	100 < hp <= 175	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	100 < hp <= 175	0.1562	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	100 < hp <= 175	0.1515	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	1000 < hp <= 1200	0.3052	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	1000 < hp <= 1200	0.0045	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	1000 < hp <= 1200	1.0451	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	1000 < hp <= 1200	4.7798	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	1000 < hp <= 1200	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	1000 < hp <= 1200	530.0696	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	1000 < hp <= 1200	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	1000 < hp <= 1200	0.1671	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	1000 < hp <= 1200	0.1621	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	11 < hp <= 16	5.6277	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	11 < hp <= 16	0.0600	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.0282	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.0087	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.3984	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	11 < hp <= 16	0.1399	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	11 < hp <= 16	272.0229	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	11 < hp <= 16	2.6338	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	11 < hp <= 16	1045.5917	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cranes	11 < hp <= 16	333.5003	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	11 < hp <= 16	0.1226	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	11 < hp <= 16	0.1127	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	16 < hp <= 25	5.6348	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	16 < hp <= 25	0.3189	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	16 < hp <= 25	0.0463	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.0406	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.0105	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.3075	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	16 < hp <= 25	0.1375	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	16 < hp <= 25	272.1096	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	16 < hp <= 25	2.8248	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	16 < hp <= 25	1046.2545	g/hp-hr



2015	12	Gasoline	BSFC	Running Exhaust	Cranes	16 < hp <= 25	333.7154	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	16 < hp <= 25	0.1147	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	16 < hp <= 25	0.1056	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	175 < hp <= 300	0.1880	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	175 < hp <= 300	0.0026	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	175 < hp <= 300	0.4908	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	175 < hp <= 300	2.2711	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	175 < hp <= 300	0.0031	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	175 < hp <= 300	530.4431	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	175 < hp <= 300	166.4682	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	175 < hp <= 300	0.0978	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	175 < hp <= 300	0.0949	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	25 < hp <= 40	0.5765	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	25 < hp <= 40	0.0487	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	25 < hp <= 40	0.2110	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	25 < hp <= 40	0.0151	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	25 < hp <= 40	0.0075	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	25 < hp <= 40	0.0246	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	25 < hp <= 40	17.4942	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	25 < hp <= 40	2.0062	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	25 < hp <= 40	0.0104	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	25 < hp <= 40	702.5624	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cranes	25 < hp <= 40	220.8225	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	25 < hp <= 40	0.0695	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	25 < hp <= 40	0.0639	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	25 < hp <= 40	0.2127	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	25 < hp <= 40	0.0003	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	25 < hp <= 40	0.9750	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	25 < hp <= 40	3.9223	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	25 < hp <= 40	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	25 < hp <= 40	589.6912	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	25 < hp <= 40	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	25 < hp <= 40	0.1585	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	25 < hp <= 40	0.1537	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	300 < hp <= 600	0.1926	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	300 < hp <= 600	0.0030	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	300 < hp <= 600	0.8226	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	300 < hp <= 600	3.2125	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	300 < hp <= 600	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	300 < hp <= 600	530.4289	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	300 < hp <= 600	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	300 < hp <= 600	0.1237	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	300 < hp <= 600	0.1200	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	40 < hp <= 50	0.2127	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	40 < hp <= 50	0.0003	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	40 < hp <= 50	0.9750	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	40 < hp <= 50	3.9223	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	40 < hp <= 50	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	40 < hp <= 50	589.6907	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	40 < hp <= 50	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	40 < hp <= 50	0.1585	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	40 < hp <= 50	0.1537	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	50 < hp <= 75	2.2293	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Cranes	50 < hp <= 75	0.6138	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	50 < hp <= 75	0.2254	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	50 < hp <= 75	0.0086	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	50 < hp <= 75	0.0123	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	50 < hp <= 75	0.0381	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	50 < hp <= 75	61.9037	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	50 < hp <= 75	6.4591	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	50 < hp <= 75	0.0110	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	50 < hp <= 75	745.1645	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cranes	50 < hp <= 75	235.8614	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	50 < hp <= 75	0.0689	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	50 < hp <= 75	0.0634	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	50 < hp <= 75	0.2591	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	50 < hp <= 75	0.0030	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	50 < hp <= 75	1.9305	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cranes	50 < hp <= 75	3.7203	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cranes	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cranes	50 < hp <= 75	589.5429	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cranes	50 < hp <= 75	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cranes	50 < hp <= 75	0.2357	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cranes	50 < hp <= 75	0.2286	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cranes	6 < hp <= 11	5.6276	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cranes	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cranes	6 < hp <= 11	0.1051	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.0318	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.0033	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.6981	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cranes	6 < hp <= 11	0.2452	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cranes	6 < hp <= 11	272.0226	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cranes	6 < hp <= 11	2.6338	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cranes	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cranes	6 < hp <= 11	1045.5907	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cranes	6 < hp <= 11	333.4996	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cranes	6 < hp <= 11	0.1225	g/hp-hr



2015	12	Gasoline	PM2.5	Running Exhaust	Cranes	6 < hp <= 11	0.1127	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cranes	600 < hp <= 750	0.1841	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cranes	600 < hp <= 750	0.0028	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cranes	600 < hp <= 750	1.0914	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	4.7002	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	4.3441	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	594.3333	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.3891	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.3774	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3187	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.0056	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	2.9025	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	3.3090	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	595.1403	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3972	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	75 < hp <= 100	0.3853	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	9.7121	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	1 < hp <= 3	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	1 < hp <= 3	0.3424	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.2329	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.0205	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	1.5395	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	1 < hp <= 3	0.5586	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	208.3647	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	3.3069	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.0180	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	1220.1002	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	392.3661	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.3354	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	1 < hp <= 3	0.3086	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.3726	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.0069	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	1.3694	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	4.6987	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.0034	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	529.8547	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.2591	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	100 < hp <= 175	0.2513	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	6.6138	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	11 < hp <= 16	0.3204	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	11 < hp <= 16	0.0626	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.3319	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.2158	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.3291	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	11 < hp <= 16	0.3221	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	285.2686	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	3.8529	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	1048.3247	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	335.3619	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.1118	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.1028	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.8250	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0128	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	3.2778	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	5.6720	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	587.7378	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.5416	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	11 < hp <= 16	0.5254	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	8.7520	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.4135	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	16 < hp <= 25	0.3330	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	16 < hp <= 25	0.0492	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.4103	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.6566	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.2490	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	16 < hp <= 25	0.3277	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	349.5716	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	4.8676	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0160	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	1083.3833	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	348.5308	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.1191	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.1096	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.8250	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0128	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	3.2778	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	5.6720	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	587.7378	g/hp-hr



2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.5416	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	16 < hp <= 25	0.5254	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.3437	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.0063	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	1.2017	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	4.4831	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	529.9466	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.2187	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	175 < hp <= 300	0.2121	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.6584	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.0113	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	2.4326	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	5.0442	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.0038	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	588.2688	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.4408	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	25 < hp <= 40	0.4275	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	9.7121	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	3 < hp <= 6	0.1896	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.1912	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.0114	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.8523	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	3 < hp <= 6	0.3093	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	208.3645	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	3.3069	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0180	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	1220.0992	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	392.3662	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.3354	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.3086	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.8808	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0130	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	4.7286	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	6.1684	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	587.5600	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.6584	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	3 < hp <= 6	0.6386	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.2954	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.0053	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	1.3109	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	4.4755	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	530.1010	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.1832	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	300 < hp <= 600	0.1777	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.5073	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.0090	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	2.5782	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	5.1606	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.0038	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	588.7517	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.4212	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	50 < hp <= 75	0.4086	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	6.6138	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Cement & Mortar Mixers	6 < hp <= 11	0.3204	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Cement & Mortar Mixers	6 < hp <= 11	0.1010	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.3674	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.0752	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.5314	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Cement & Mortar Mixers	6 < hp <= 11	0.5201	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	285.2686	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	3.8529	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	1048.3251	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	335.3621	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.1118	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.1028	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.8808	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0130	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	4.7286	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	6.1684	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	587.5600	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.6584	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Cement & Mortar Mixers	6 < hp <= 11	0.6386	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	530.1240	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	166.4683	g/hp-hr



2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2131	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2067	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4858	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.0092	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	2.4695	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	4.6170	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	588.8197	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4511	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	75 < hp <= 100	0.4376	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.4154	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.0071	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	1.6142	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	5.8306	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	529.7180	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	166.4684	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.2507	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	750 < hp <= 1000	0.2432	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	48.1305	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	1 < hp <= 3	0.3584	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	1 < hp <= 3	0.4988	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.0148	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.0007	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	1.7741	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	1 < hp <= 3	0.3920	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	253.1656	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	2.1067	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	0.0153	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	1040.6759	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	375.1206	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	7.9716	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	1 < hp <= 3	7.3339	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2470	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.0041	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	1.1373	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	2.9121	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	536.0429	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	168.2826	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2415	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	100 < hp <= 175	0.2342	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	6.0034	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	11 < hp <= 16	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	11 < hp <= 16	0.0573	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0083	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0034	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.2292	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	11 < hp <= 16	0.0805	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	275.0235	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	2.6480	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	1044.1073	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	333.4181	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.1354	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	11 < hp <= 16	0.1246	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	5.6902	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	16 < hp <= 25	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	16 < hp <= 25	0.0433	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0100	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.1734	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	16 < hp <= 25	0.0609	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	272.5044	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	2.6240	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	1045.3033	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	333.4739	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.1251	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.1151	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.4553	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0010	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	2.4888	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	4.4580	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	594.7051	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	186.8800	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.3528	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	16 < hp <= 25	0.3422	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.2221	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.0034	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.8928	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	2.7126	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.0032	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	536.1225	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	168.2826	g/hp-hr



## MOVES2014 NonRoad Emissions Factors

2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.1681	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	175 < hp <= 300	0.1630	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.3863	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	25 < hp <= 40	0.2098	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	25 < hp <= 40	0.0159	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	25 < hp <= 40	0.0040	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	25 < hp <= 40	0.0089	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	11.7365	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	1.4742	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	699.0841	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	219.5386	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0712	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0655	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.2304	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0007	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	1.2297	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	4.0531	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	595.4223	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	186.8798	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.1967	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	25 < hp <= 40	0.1908	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	59.7910	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	3 < hp <= 6	0.2635	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	3 < hp <= 6	0.1535	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.0108	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.0003	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.7426	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	3 < hp <= 6	0.1641	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	289.6551	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	1.3520	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	0.0100	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	685.9969	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	275.7840	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	9.7482	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	3 < hp <= 6	8.9683	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.2304	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.0007	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	1.2297	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	4.0531	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.0036	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	595.4220	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.1967	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	40 < hp <= 50	0.1908	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.4315	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0059	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	50 < hp <= 75	0.2099	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	50 < hp <= 75	0.0084	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	50 < hp <= 75	0.0021	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	50 < hp <= 75	0.0064	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	13.3995	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	1.6169	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0103	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	699.4346	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	219.6944	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0698	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0642	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3198	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0046	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	2.7134	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	3.9165	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	595.1373	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	186.8799	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3395	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Concrete/Industrial Saws	50 < hp <= 75	0.3293	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	6.0035	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Concrete/Industrial Saws	6 < hp <= 11	0.3186	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Concrete/Industrial Saws	6 < hp <= 11	0.0985	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.0093	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.0013	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.3943	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Concrete/Industrial Saws	6 < hp <= 11	0.1385	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	275.0247	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	2.6480	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	1044.1099	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	333.4186	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.1354	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.1246	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.5717	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Concrete/Industrial Saws	6 < hp <= 11	0.0013	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	11 < hp <= 16	0.3190	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	11 < hp <= 16	0.0526	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.1141	g/hp-hr



2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.0263	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.0641	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	11 < hp <= 16	0.1108	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	273.3650	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	2.9934	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	1046.2606	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	333.8627	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.1133	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.1043	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.5394	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0053	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	2.5490	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	4.7622	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	588.6487	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.3743	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	11 < hp <= 16	0.3630	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.4154	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.0071	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	1.6142	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	5.8306	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	529.7181	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.2507	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	1200 < hp <= 2000	0.2432	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	6.7678	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	16 < hp <= 25	0.3212	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	16 < hp <= 25	0.0398	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.1890	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.1504	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.0481	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	16 < hp <= 25	0.1604	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	290.1311	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	3.9856	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0155	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	1050.3467	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	336.1527	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.1119	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.1029	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.5394	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0053	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	2.5490	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	4.7622	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	588.6488	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.3743	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	16 < hp <= 25	0.3630	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.3264	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.0059	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	1.1328	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	4.2837	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	530.0015	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	166.4683	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.2231	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	175 < hp <= 300	0.2164	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	2.6240	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.7645	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	25 < hp <= 40	0.2294	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	25 < hp <= 40	0.0193	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	25 < hp <= 40	0.0191	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	25 < hp <= 40	0.0552	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	71.9283	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	7.5672	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0112	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	757.3116	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	240.0714	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0688	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0633	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.3312	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0039	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	1.4977	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	4.4408	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	589.3125	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.2822	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	25 < hp <= 40	0.2737	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	7.3881	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	3 < hp <= 6	0.3749	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	3 < hp <= 6	0.2058	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.0543	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.0069	g/hp-hr



2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.2132	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	3 < hp <= 6	0.1040	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	201.1506	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	3.0126	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.0181	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	1227.6248	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	392.3573	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.3241	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	3 < hp <= 6	0.2982	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.2982	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.0053	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	1.3584	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	4.4960	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.0033	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	530.0921	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	166.4684	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.2060	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	300 < hp <= 600	0.1998	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.3312	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.0039	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	1.4977	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	4.4408	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.0037	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	589.3125	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.2822	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	40 < hp <= 50	0.2737	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	3.4222	g/hp-hr
2015	12	Gasoline	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	1.0677	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	50 < hp <= 75	0.2378	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	50 < hp <= 75	0.0102	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	50 < hp <= 75	0.0130	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	50 < hp <= 75	0.0339	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	91.8872	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	9.8661	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0115	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	782.6931	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	248.8412	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0686	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0631	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4883	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0085	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	2.5771	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	5.0371	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.0038	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	588.8120	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	185.0656	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4429	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	50 < hp <= 75	0.4296	g/hp-hr
2015	12	Gasoline	Total HC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	5.7773	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Displacement Loss	Bore/Drill Rigs	6 < hp <= 11	0.3190	g/hp-hr
2015	12	Gasoline	Total HC	Refueling Spillage Loss	Bore/Drill Rigs	6 < hp <= 11	0.0962	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.1287	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.0104	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.1171	g/hp-hr
2015	12	Gasoline	Total HC	HC losses	Bore/Drill Rigs	6 < hp <= 11	0.2024	g/hp-hr
2015	12	Gasoline	CO	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	273.3646	g/hp-hr
2015	12	Gasoline	Nox	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	2.9934	g/hp-hr
2015	12	Gasoline	SO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0154	g/hp-hr
2015	12	Gasoline	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	1046.2588	g/hp-hr
2015	12	Gasoline	BSFC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	333.8622	g/hp-hr
2015	12	Gasoline	PM10	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.1133	g/hp-hr
2015	12	Gasoline	PM2.5	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.1043	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.6579	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0063	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	4.4807	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	4.8641	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.0040	g/hp-hr
2015	12	Diesel	Atmos. CO2	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	588.2705	g/hp-hr
2015	12	Diesel	BSFC	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	185.0655	g/hp-hr
2015	12	Diesel	PM10	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.4755	g/hp-hr
2015	12	Diesel	PM2.5	Running Exhaust	Bore/Drill Rigs	6 < hp <= 11	0.4612	g/hp-hr
2015	12	Diesel	Total HC	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.2881	g/hp-hr
2015	12	Diesel	Total HC	Crankcase Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.0051	g/hp-hr
2015	12	Diesel	CO	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	1.5599	g/hp-hr
2015	12	Diesel	Nox	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	4.4895	g/hp-hr
2015	12	Diesel	SO2	Running Exhaust	Bore/Drill Rigs	600 < hp <= 750	0.0033	g/hp-hr



## MOVES2014 NonRoad Emission Factors

yearID	monthID	Fuel Type	Pollutant	Process Type	description	hpBin	emissionRate	emissionRateUnits
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	0 < hp <= 1	41.484	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	0 < hp <= 1	0.560	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	0 < hp <= 1	2.831	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	0 < hp <= 1	0.890	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	0 < hp <= 1	0.037	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	0 < hp <= 1	4.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	0 < hp <= 1	1.489	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	0 < hp <= 1	26.158	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	0 < hp <= 1	139.942	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	0 < hp <= 1	2.215	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	0 < hp <= 1	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	0 < hp <= 1	1054.984	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	0 < hp <= 1	9.159	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	0 < hp <= 1	8.426	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	1 < hp <= 3	44.017	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	1 < hp <= 3	0.564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	1 < hp <= 3	2.848	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	1 < hp <= 3	0.428	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	1 < hp <= 3	0.023	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	1 < hp <= 3	1.927	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	1 < hp <= 3	0.716	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	1 < hp <= 3	12.584	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	1 < hp <= 3	240.509	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	1 < hp <= 3	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	1 < hp <= 3	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	1 < hp <= 3	1054.007	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	1 < hp <= 3	7.594	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	1 < hp <= 3	6.986	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	100 < hp <= 175	0.371	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	100 < hp <= 175	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	100 < hp <= 175	1.350	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	100 < hp <= 175	4.428	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	100 < hp <= 175	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	100 < hp <= 175	529.859	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	100 < hp <= 175	0.265	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	100 < hp <= 175	0.257	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	11 < hp <= 16	5.315	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	11 < hp <= 16	0.502	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	11 < hp <= 16	0.277	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	11 < hp <= 16	0.655	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	11 < hp <= 16	0.168	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	11 < hp <= 16	2.219	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	11 < hp <= 16	0.083	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	11 < hp <= 16	0.511	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	11 < hp <= 16	294.888	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	11 < hp <= 16	2.104	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	11 < hp <= 16	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	11 < hp <= 16	1046.217	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	11 < hp <= 16	0.113	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	11 < hp <= 16	0.104	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	11 < hp <= 16	0.678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	11 < hp <= 16	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	11 < hp <= 16	2.900	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	11 < hp <= 16	5.204	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	11 < hp <= 16	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	11 < hp <= 16	588.207	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	11 < hp <= 16	0.453	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	11 < hp <= 16	0.439	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	16 < hp <= 25	6.053	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Generator Sets	16 < hp <= 25	0.001	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	16 < hp <= 25	0.465	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	16 < hp <= 25	0.041	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	16 < hp <= 25	0.962	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	16 < hp <= 25	0.854	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	16 < hp <= 25	2.501	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	16 < hp <= 25	0.057	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	HC losses	Generator Sets	16 < hp <= 25	0.596	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	16 < hp <= 25	313.137	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	16 < hp <= 25	2.688	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	16 < hp <= 25	1051.092	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	16 < hp <= 25	0.111	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	16 < hp <= 25	0.102	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	16 < hp <= 25	0.678	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	16 < hp <= 25	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	16 < hp <= 25	2.900	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	16 < hp <= 25	5.204	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	16 < hp <= 25	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	16 < hp <= 25	588.207	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	16 < hp <= 25	0.453	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	16 < hp <= 25	0.439	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	175 < hp <= 300	0.342	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	175 < hp <= 300	0.006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	175 < hp <= 300	1.179	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	175 < hp <= 300	4.211	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	175 < hp <= 300	529.951	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	175 < hp <= 300	0.223	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	175 < hp <= 300	0.216	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	25 < hp <= 40	0.475	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	25 < hp <= 40	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	25 < hp <= 40	1.921	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	25 < hp <= 40	4.730	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	25 < hp <= 40	588.854	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	25 < hp <= 40	0.356	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	25 < hp <= 40	0.345	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	3 < hp <= 6	6.722	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	3 < hp <= 6	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	3 < hp <= 6	2.979	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	3 < hp <= 6	0.151	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	3 < hp <= 6	0.037	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	3 < hp <= 6	0.712	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	3 < hp <= 6	0.261	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	3 < hp <= 6	0.584	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	3 < hp <= 6	216.215	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	3 < hp <= 6	2.024	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	3 < hp <= 6	1227.358	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	3 < hp <= 6	0.321	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	3 < hp <= 6	0.295	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	3 < hp <= 6	0.773	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	3 < hp <= 6	0.010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	3 < hp <= 6	4.593	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	3 < hp <= 6	5.527	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	3 < hp <= 6	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	3 < hp <= 6	587.905	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	3 < hp <= 6	0.566	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	3 < hp <= 6	0.549	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	300 < hp <= 600	0.294	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	300 < hp <= 600	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	300 < hp <= 600	1.287	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	300 < hp <= 600	4.202	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	300 < hp <= 600	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	300 < hp <= 600	530.106	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	300 < hp <= 600	0.185	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	300 < hp <= 600	0.180	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	40 < hp <= 50	0.475	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	40 < hp <= 50	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	40 < hp <= 50	1.921	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	40 < hp <= 50	4.730	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	40 < hp <= 50	588.854	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	PM10	Running Exhaust	Generator Sets	40 < hp <= 50	0.356	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	40 < hp <= 50	0.345	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	50 < hp <= 75	0.504	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	50 < hp <= 75	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	50 < hp <= 75	2.579	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	50 < hp <= 75	4.928	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	50 < hp <= 75	588.762	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	50 < hp <= 75	0.431	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	50 < hp <= 75	0.418	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Generator Sets	6 < hp <= 11	5.315	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Generator Sets	6 < hp <= 11	0.502	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Generator Sets	6 < hp <= 11	0.451	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	6 < hp <= 11	0.723	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	6 < hp <= 11	0.059	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	6 < hp <= 11	2.219	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	6 < hp <= 11	0.135	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Generator Sets	6 < hp <= 11	0.831	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Generator Sets	6 < hp <= 11	294.889	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Generator Sets	6 < hp <= 11	2.104	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Generator Sets	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Generator Sets	6 < hp <= 11	1046.216	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Generator Sets	6 < hp <= 11	0.113	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Generator Sets	6 < hp <= 11	0.104	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	6 < hp <= 11	0.773	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	6 < hp <= 11	0.010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	6 < hp <= 11	4.593	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	6 < hp <= 11	5.527	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	6 < hp <= 11	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	6 < hp <= 11	587.905	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	6 < hp <= 11	0.566	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	6 < hp <= 11	0.549	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Generator Sets	75 < hp <= 100	0.502	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Generator Sets	75 < hp <= 100	0.010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Generator Sets	75 < hp <= 100	2.474	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	6 < hp <= 11	4.369	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	75 < hp <= 100	1.884	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	75 < hp <= 100	3.367	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	75 < hp <= 100	589.396	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	75 < hp <= 100	0.294	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	6 < hp <= 11	588.556	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.373	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.361	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	75 < hp <= 100	0.305	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	75 < hp <= 100	0.005	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	75 < hp <= 100	0.286	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.237	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	100 < hp <= 175	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.738	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	100 < hp <= 175	2.946	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	100 < hp <= 175	530.286	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.172	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.167	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	11 < hp <= 16	5.107	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	11 < hp <= 16	0.461	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	11 < hp <= 16	0.095	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	11 < hp <= 16	0.069	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	11 < hp <= 16	0.034	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	11 < hp <= 16	0.427	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	11 < hp <= 16	0.110	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	11 < hp <= 16	0.388	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	11 < hp <= 16	292.602	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	11 < hp <= 16	1.758	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.015	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	11 < hp <= 16	1045.348	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.125	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.115	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.453	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	11 < hp <= 16	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	11 < hp <= 16	2.359	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	11 < hp <= 16	4.481	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	11 < hp <= 16	588.924	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.343	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	11 < hp <= 16	0.333	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	16 < hp <= 25	4.950	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	16 < hp <= 25	0.461	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	16 < hp <= 25	0.046	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	16 < hp <= 25	0.116	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	16 < hp <= 25	0.037	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	16 < hp <= 25	0.639	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	16 < hp <= 25	0.079	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	16 < hp <= 25	0.296	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	16 < hp <= 25	291.133	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	16 < hp <= 25	1.791	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	16 < hp <= 25	1046.234	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.117	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.107	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.453	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	16 < hp <= 25	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	16 < hp <= 25	2.359	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	16 < hp <= 25	4.481	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	16 < hp <= 25	588.924	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.343	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	16 < hp <= 25	0.333	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	175 < hp <= 300	0.214	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	175 < hp <= 300	0.579	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	175 < hp <= 300	2.737	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	175 < hp <= 300	530.361	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	175 < hp <= 300	0.117	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	175 < hp <= 300	0.114	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.344	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	25 < hp <= 40	0.304	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	25 < hp <= 40	0.016	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	25 < hp <= 40	0.086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	25 < hp <= 40	0.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	25 < hp <= 40	0.016	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	25 < hp <= 40	12.765	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	25 < hp <= 40	1.007	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	25 < hp <= 40	699.098	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.070	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.064	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.229	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	25 < hp <= 40	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	25 < hp <= 40	1.101	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	25 < hp <= 40	4.071	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	25 < hp <= 40	589.639	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.184	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	25 < hp <= 40	0.179	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	3 < hp <= 6	6.866	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	3 < hp <= 6	0.543	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	3 < hp <= 6	1.009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	3 < hp <= 6	0.028	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	3 < hp <= 6	0.011	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	3 < hp <= 6	0.129	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	3 < hp <= 6	0.299	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	3 < hp <= 6	0.526	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	3 < hp <= 6	217.963	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	3 < hp <= 6	2.095	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	3 < hp <= 6	1226.838	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.372	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.342	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.568	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	3 < hp <= 6	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	3 < hp <= 6	4.466	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	3 < hp <= 6	4.369	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	3 < hp <= 6	588.556	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.373	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	3 < hp <= 6	0.361	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	300 < hp <= 600	0.235	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	300 < hp <= 600	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	300 < hp <= 600	1.062	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	300 < hp <= 600	3.699	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	300 < hp <= 600	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	300 < hp <= 600	530.292	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	300 < hp <= 600	0.162	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	300 < hp <= 600	0.157	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.344	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	40 < hp <= 50	0.304	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	40 < hp <= 50	0.012	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	40 < hp <= 50	0.086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	40 < hp <= 50	0.004	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	40 < hp <= 50	0.012	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	40 < hp <= 50	12.765	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	40 < hp <= 50	1.007	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	40 < hp <= 50	699.098	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.070	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.064	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.229	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	40 < hp <= 50	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	40 < hp <= 50	1.101	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	40 < hp <= 50	4.071	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	40 < hp <= 50	589.640	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.184	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	40 < hp <= 50	0.179	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.827	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Hydro Power Units	50 < hp <= 75	0.176	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	50 < hp <= 75	0.312	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	50 < hp <= 75	0.009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	50 < hp <= 75	0.307	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	50 < hp <= 75	0.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	50 < hp <= 75	0.023	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	50 < hp <= 75	27.311	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	50 < hp <= 75	2.298	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	50 < hp <= 75	716.580	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.309	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	50 < hp <= 75	2.052	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Hydro Power Units	50 < hp <= 75	4.021	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Hydro Power Units	50 < hp <= 75	589.383	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.282	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Hydro Power Units	50 < hp <= 75	0.273	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	6 < hp <= 11	5.107	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	6 < hp <= 11	0.461	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	6 < hp <= 11	0.095	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	6 < hp <= 11	0.091	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	6 < hp <= 11	0.010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	6 < hp <= 11	0.568	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	6 < hp <= 11	0.147	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	6 < hp <= 11	0.516	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	6 < hp <= 11	292.602	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	6 < hp <= 11	1.758	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	6 < hp <= 11	1045.350	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.125	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.115	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Hydro Power Units	6 < hp <= 11	0.568	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Hydro Power Units	6 < hp <= 11	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Hydro Power Units	6 < hp <= 11	4.466	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	16 < hp <= 25	3.342	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	16 < hp <= 25	5.879	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	16 < hp <= 25	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	16 < hp <= 25	587.534	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	16 < hp <= 25	0.528	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	16 < hp <= 25	0.512	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	175 < hp <= 300	0.338	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	175 < hp <= 300	0.006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	175 < hp <= 300	1.115	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	175 < hp <= 300	4.183	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	175 < hp <= 300	529.965	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	175 < hp <= 300	0.188	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	175 < hp <= 300	0.182	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	25 < hp <= 40	1.759	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pressure Washers	25 < hp <= 40	0.518	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	25 < hp <= 40	0.323	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	25 < hp <= 40	0.016	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	25 < hp <= 40	1.086	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	25 < hp <= 40	0.011	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	25 < hp <= 40	0.036	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	25 < hp <= 40	58.755	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	25 < hp <= 40	3.851	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	25 < hp <= 40	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	25 < hp <= 40	737.993	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	25 < hp <= 40	0.068	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	25 < hp <= 40	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	25 < hp <= 40	0.744	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	25 < hp <= 40	0.013	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	25 < hp <= 40	2.580	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	25 < hp <= 40	5.175	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	25 < hp <= 40	587.996	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	25 < hp <= 40	0.431	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	25 < hp <= 40	0.418	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	3 < hp <= 6	6.478	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	3 < hp <= 6	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	3 < hp <= 6	2.979	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	3 < hp <= 6	0.097	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	3 < hp <= 6	0.028	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	3 < hp <= 6	0.532	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	3 < hp <= 6	0.197	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	3 < hp <= 6	0.358	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	3 < hp <= 6	215.674	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	3 < hp <= 6	2.014	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	3 < hp <= 6	1228.237	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	3 < hp <= 6	0.328	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	3 < hp <= 6	0.302	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	3 < hp <= 6	0.924	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	3 < hp <= 6	0.014	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	3 < hp <= 6	4.652	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	3 < hp <= 6	6.452	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	3 < hp <= 6	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	3 < hp <= 6	587.422	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	3 < hp <= 6	0.634	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	3 < hp <= 6	0.615	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	300 < hp <= 600	0.291	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	300 < hp <= 600	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	300 < hp <= 600	1.239	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	300 < hp <= 600	4.183	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	300 < hp <= 600	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	300 < hp <= 600	530.116	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	300 < hp <= 600	0.162	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	300 < hp <= 600	0.157	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	40 < hp <= 50	0.744	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	40 < hp <= 50	0.013	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	40 < hp <= 50	2.580	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	40 < hp <= 50	5.175	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	40 < hp <= 50	587.996	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	40 < hp <= 50	0.431	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	40 < hp <= 50	0.418	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	50 < hp <= 75	2.669	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pressure Washers	50 < hp <= 75	0.903	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	50 < hp <= 75	0.338	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	50 < hp <= 75	0.017	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	50 < hp <= 75	0.810	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	50 < hp <= 75	0.010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	50 < hp <= 75	0.027	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	50 < hp <= 75	86.029	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	50 < hp <= 75	5.820	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	50 < hp <= 75	0.011	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	50 < hp <= 75	770.246	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	50 < hp <= 75	0.068	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	50 < hp <= 75	0.062	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	50 < hp <= 75	0.497	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	50 < hp <= 75	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	50 < hp <= 75	2.475	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	50 < hp <= 75	4.900	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	50 < hp <= 75	588.783	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	50 < hp <= 75	0.372	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	50 < hp <= 75	0.361	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	6 < hp <= 11	5.086	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	6 < hp <= 11	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	6 < hp <= 11	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	6 < hp <= 11	0.437	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	6 < hp <= 11	0.029	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	6 < hp <= 11	1.638	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	6 < hp <= 11	0.105	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	6 < hp <= 11	0.477	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	6 < hp <= 11	292.493	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	6 < hp <= 11	1.914	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	6 < hp <= 11	1046.270	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	6 < hp <= 11	0.114	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	6 < hp <= 11	0.105	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	6 < hp <= 11	0.924	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	6 < hp <= 11	0.014	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	6 < hp <= 11	4.652	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	6 < hp <= 11	6.452	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	6 < hp <= 11	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	6 < hp <= 11	587.422	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	6 < hp <= 11	0.634	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	6 < hp <= 11	0.615	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	600 < hp <= 750	0.281	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	600 < hp <= 750	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	600 < hp <= 750	1.440	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	600 < hp <= 750	4.175	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	600 < hp <= 750	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	600 < hp <= 750	530.148	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	600 < hp <= 750	0.168	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	600 < hp <= 750	0.163	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	75 < hp <= 100	2.669	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pressure Washers	75 < hp <= 100	0.903	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	75 < hp <= 100	0.338	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	75 < hp <= 100	0.017	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	75 < hp <= 100	0.622	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	75 < hp <= 100	0.008	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	75 < hp <= 100	0.020	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	75 < hp <= 100	86.029	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	75 < hp <= 100	5.820	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	75 < hp <= 100	0.011	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	75 < hp <= 100	770.246	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	75 < hp <= 100	0.068	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	75 < hp <= 100	0.062	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	75 < hp <= 100	0.495	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	75 < hp <= 100	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	75 < hp <= 100	2.370	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	75 < hp <= 100	4.483	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	75 < hp <= 100	588.791	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	75 < hp <= 100	0.380	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	75 < hp <= 100	0.368	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	1 < hp <= 3	48.130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	1 < hp <= 3	0.519	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	1 < hp <= 3	2.098	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	1 < hp <= 3	0.065	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	1 < hp <= 3	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	1 < hp <= 3	0.167	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	1 < hp <= 3	0.846	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	1 < hp <= 3	14.869	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	1 < hp <= 3	253.165	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	1 < hp <= 3	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	1 < hp <= 3	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	1 < hp <= 3	1040.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	1 < hp <= 3	7.972	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	1 < hp <= 3	7.334	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.827	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Hydro Power Units	100 < hp <= 175	0.176	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Hydro Power Units	100 < hp <= 175	0.312	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Hydro Power Units	100 < hp <= 175	0.005	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	100 < hp <= 175	0.307	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	100 < hp <= 175	0.003	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Hydro Power Units	100 < hp <= 175	0.013	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Hydro Power Units	100 < hp <= 175	27.311	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Hydro Power Units	100 < hp <= 175	2.298	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Hydro Power Units	100 < hp <= 175	716.580	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Hydro Power Units	100 < hp <= 175	0.063	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	16 < hp <= 25	1.772	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	16 < hp <= 25	1046.148	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	16 < hp <= 25	0.118	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	16 < hp <= 25	0.108	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	16 < hp <= 25	1.381	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	16 < hp <= 25	0.023	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	16 < hp <= 25	6.077	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	16 < hp <= 25	5.679	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	16 < hp <= 25	0.005	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	16 < hp <= 25	691.594	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	16 < hp <= 25	0.843	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	16 < hp <= 25	0.817	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	25 < hp <= 40	1.078	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	25 < hp <= 40	0.019	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	25 < hp <= 40	4.619	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	25 < hp <= 40	5.123	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	25 < hp <= 40	692.559	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	25 < hp <= 40	0.721	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	25 < hp <= 40	0.700	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	3 < hp <= 6	6.976	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	3 < hp <= 6	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	3 < hp <= 6	1.589	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	3 < hp <= 6	0.039	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	3 < hp <= 6	0.008	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	3 < hp <= 6	0.284	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	3 < hp <= 6	0.199	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	3 < hp <= 6	0.350	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	3 < hp <= 6	218.514	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	3 < hp <= 6	2.113	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	3 < hp <= 6	1226.436	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	3 < hp <= 6	0.381	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	3 < hp <= 6	0.350	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	300 < hp <= 600	0.627	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	300 < hp <= 600	0.012	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	300 < hp <= 600	3.298	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	300 < hp <= 600	4.667	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	300 < hp <= 600	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	300 < hp <= 600	624.544	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	300 < hp <= 600	0.415	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	300 < hp <= 600	0.403	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	40 < hp <= 50	1.078	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	40 < hp <= 50	0.019	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	40 < hp <= 50	4.619	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	40 < hp <= 50	5.123	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	40 < hp <= 50	692.559	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	40 < hp <= 50	0.721	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	40 < hp <= 50	0.700	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	50 < hp <= 75	0.898	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Welders	50 < hp <= 75	0.167	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	50 < hp <= 75	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	50 < hp <= 75	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	50 < hp <= 75	0.309	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	50 < hp <= 75	0.004	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	50 < hp <= 75	0.017	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	50 < hp <= 75	31.726	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	50 < hp <= 75	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	50 < hp <= 75	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	50 < hp <= 75	711.131	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	50 < hp <= 75	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	50 < hp <= 75	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	50 < hp <= 75	1.077	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	50 < hp <= 75	0.020	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	50 < hp <= 75	5.748	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	50 < hp <= 75	5.318	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	50 < hp <= 75	692.564	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	50 < hp <= 75	0.832	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	50 < hp <= 75	0.808	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	6 < hp <= 11	5.173	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	6 < hp <= 11	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	6 < hp <= 11	1.350	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	6 < hp <= 11	0.040	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	6 < hp <= 11	0.009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	6 < hp <= 11	0.182	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	6 < hp <= 11	0.128	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	6 < hp <= 11	0.449	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	6 < hp <= 11	293.228	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Nox	Running Exhaust	Welders	6 < hp <= 11	1.766	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	6 < hp <= 11	1045.092	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	6 < hp <= 11	0.127	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	6 < hp <= 11	0.117	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	6 < hp <= 11	1.508	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	6 < hp <= 11	0.025	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	6 < hp <= 11	8.740	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	6 < hp <= 11	6.096	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	6 < hp <= 11	0.005	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	6 < hp <= 11	691.190	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	6 < hp <= 11	1.065	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	6 < hp <= 11	1.033	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	75 < hp <= 100	0.898	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Welders	75 < hp <= 100	0.167	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	75 < hp <= 100	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	75 < hp <= 100	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	75 < hp <= 100	0.246	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	75 < hp <= 100	0.003	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	75 < hp <= 100	0.014	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	75 < hp <= 100	31.726	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	75 < hp <= 100	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	75 < hp <= 100	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	75 < hp <= 100	711.130	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	75 < hp <= 100	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	75 < hp <= 100	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	75 < hp <= 100	1.116	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	75 < hp <= 100	0.022	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	75 < hp <= 100	6.320	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	75 < hp <= 100	5.012	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	75 < hp <= 100	692.439	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	75 < hp <= 100	0.917	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	75 < hp <= 100	0.890	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	1 < hp <= 3	6.441	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	1 < hp <= 3	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	1 < hp <= 3	2.979	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	1 < hp <= 3	0.152	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	1 < hp <= 3	0.045	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	1 < hp <= 3	0.855	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	1 < hp <= 3	0.318	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	1 < hp <= 3	0.558	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	1 < hp <= 3	215.743	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	1 < hp <= 3	2.020	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	1 < hp <= 3	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	1 < hp <= 3	1228.374	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	1 < hp <= 3	0.336	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	1 < hp <= 3	0.309	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	100 < hp <= 175	0.366	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	100 < hp <= 175	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	100 < hp <= 175	1.280	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	100 < hp <= 175	4.399	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	100 < hp <= 175	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	100 < hp <= 175	529.874	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	100 < hp <= 175	0.226	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	100 < hp <= 175	0.220	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	11 < hp <= 16	5.086	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	11 < hp <= 16	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	11 < hp <= 16	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	11 < hp <= 16	0.281	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	11 < hp <= 16	0.087	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	11 < hp <= 16	1.055	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	11 < hp <= 16	0.067	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	11 < hp <= 16	0.307	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	11 < hp <= 16	292.494	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	11 < hp <= 16	1.914	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	11 < hp <= 16	0.015	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	11 < hp <= 16	1046.270	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	11 < hp <= 16	0.114	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	11 < hp <= 16	0.105	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	11 < hp <= 16	0.889	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	11 < hp <= 16	0.014	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pressure Washers	11 < hp <= 16	3.342	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pressure Washers	11 < hp <= 16	5.879	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pressure Washers	11 < hp <= 16	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pressure Washers	11 < hp <= 16	587.534	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pressure Washers	11 < hp <= 16	0.528	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pressure Washers	11 < hp <= 16	0.512	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pressure Washers	16 < hp <= 25	5.730	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pressure Washers	16 < hp <= 25	0.463	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pressure Washers	16 < hp <= 25	0.047	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	16 < hp <= 25	0.666	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	16 < hp <= 25	0.411	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	16 < hp <= 25	1.850	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	16 < hp <= 25	0.051	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pressure Washers	16 < hp <= 25	0.456	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pressure Washers	16 < hp <= 25	302.363	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pressure Washers	16 < hp <= 25	2.467	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pressure Washers	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pressure Washers	16 < hp <= 25	1047.639	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pressure Washers	16 < hp <= 25	0.110	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pressure Washers	16 < hp <= 25	0.102	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pressure Washers	16 < hp <= 25	0.889	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pressure Washers	16 < hp <= 25	0.014	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	3 < hp <= 6	6.948	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	3 < hp <= 6	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	3 < hp <= 6	2.167	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	3 < hp <= 6	0.038	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	3 < hp <= 6	0.009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	3 < hp <= 6	0.245	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	3 < hp <= 6	0.279	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	3 < hp <= 6	0.490	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	3 < hp <= 6	218.372	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	3 < hp <= 6	2.108	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	3 < hp <= 6	1226.542	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	3 < hp <= 6	0.378	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	3 < hp <= 6	0.348	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	3 < hp <= 6	0.567	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	3 < hp <= 6	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	3 < hp <= 6	4.471	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	3 < hp <= 6	4.362	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	3 < hp <= 6	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	3 < hp <= 6	588.561	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	3 < hp <= 6	0.371	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	3 < hp <= 6	0.360	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	300 < hp <= 600	0.225	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	300 < hp <= 600	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	300 < hp <= 600	1.015	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	300 < hp <= 600	3.607	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	300 < hp <= 600	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	300 < hp <= 600	530.324	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	300 < hp <= 600	0.154	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	300 < hp <= 600	0.149	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	40 < hp <= 50	0.227	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	40 < hp <= 50	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	40 < hp <= 50	1.090	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	40 < hp <= 50	4.058	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	40 < hp <= 50	589.645	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	40 < hp <= 50	0.181	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	40 < hp <= 50	0.176	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	50 < hp <= 75	0.733	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Air Compressors	50 < hp <= 75	0.137	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	50 < hp <= 75	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	50 < hp <= 75	0.010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	50 < hp <= 75	0.236	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	50 < hp <= 75	0.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	50 < hp <= 75	0.023	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	50 < hp <= 75	24.647	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	50 < hp <= 75	2.045	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	50 < hp <= 75	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	50 < hp <= 75	712.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	50 < hp <= 75	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	50 < hp <= 75	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	50 < hp <= 75	0.302	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	50 < hp <= 75	2.035	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	50 < hp <= 75	3.984	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	50 < hp <= 75	589.405	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	50 < hp <= 75	0.276	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	50 < hp <= 75	0.267	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	6 < hp <= 11	5.155	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	6 < hp <= 11	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	6 < hp <= 11	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	6 < hp <= 11	0.083	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	6 < hp <= 11	0.009	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	6 < hp <= 11	0.524	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	6 < hp <= 11	0.146	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	6 < hp <= 11	0.512	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	6 < hp <= 11	293.056	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	6 < hp <= 11	1.764	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	6 < hp <= 11	1045.160	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	6 < hp <= 11	0.126	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	6 < hp <= 11	0.116	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	6 < hp <= 11	0.567	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	6 < hp <= 11	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	6 < hp <= 11	4.471	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	6 < hp <= 11	4.362	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	6 < hp <= 11	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	6 < hp <= 11	588.561	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	6 < hp <= 11	0.371	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	6 < hp <= 11	0.360	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	75 < hp <= 100	0.733	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Air Compressors	75 < hp <= 100	0.137	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	75 < hp <= 100	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	75 < hp <= 100	0.010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	75 < hp <= 100	0.175	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	75 < hp <= 100	0.004	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	75 < hp <= 100	0.017	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	75 < hp <= 100	24.647	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	75 < hp <= 100	2.045	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	75 < hp <= 100	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	75 < hp <= 100	712.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	75 < hp <= 100	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	75 < hp <= 100	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	75 < hp <= 100	0.298	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	75 < hp <= 100	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	75 < hp <= 100	1.864	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	75 < hp <= 100	3.316	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	75 < hp <= 100	589.418	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	75 < hp <= 100	0.289	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	75 < hp <= 100	0.280	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Gas Compressors	50 < hp <= 75	0.133	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Gas Compressors	50 < hp <= 75	0.272	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Gas Compressors	50 < hp <= 75	3.021	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Gas Compressors	50 < hp <= 75	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Gas Compressors	50 < hp <= 75	589.944	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	PM10	Running Exhaust	Gas Compressors	50 < hp <= 75	0.025	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Gas Compressors	50 < hp <= 75	0.024	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Gas Compressors	75 < hp <= 100	0.133	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Gas Compressors	75 < hp <= 100	0.272	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Gas Compressors	75 < hp <= 100	0.345	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Gas Compressors	75 < hp <= 100	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Gas Compressors	75 < hp <= 100	589.945	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Gas Compressors	75 < hp <= 100	0.011	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Gas Compressors	75 < hp <= 100	0.011	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	100 < hp <= 175	0.898	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Welders	100 < hp <= 175	0.167	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	100 < hp <= 175	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	100 < hp <= 175	0.005	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	100 < hp <= 175	0.209	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	100 < hp <= 175	0.002	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	100 < hp <= 175	0.008	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	100 < hp <= 175	31.726	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	100 < hp <= 175	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	100 < hp <= 175	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	100 < hp <= 175	711.131	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	100 < hp <= 175	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	100 < hp <= 175	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	100 < hp <= 175	0.818	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	100 < hp <= 175	0.016	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	100 < hp <= 175	3.444	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	100 < hp <= 175	4.925	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	100 < hp <= 175	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	100 < hp <= 175	623.935	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	100 < hp <= 175	0.578	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	100 < hp <= 175	0.561	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	11 < hp <= 16	5.173	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	11 < hp <= 16	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	11 < hp <= 16	1.350	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	11 < hp <= 16	0.024	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	11 < hp <= 16	0.025	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	11 < hp <= 16	0.108	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	11 < hp <= 16	0.076	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	11 < hp <= 16	0.266	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	11 < hp <= 16	293.228	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Welders	11 < hp <= 16	1.766	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Welders	11 < hp <= 16	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Welders	11 < hp <= 16	1045.091	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Welders	11 < hp <= 16	0.127	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Welders	11 < hp <= 16	0.117	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Welders	11 < hp <= 16	1.381	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Welders	11 < hp <= 16	0.023	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Welders	11 < hp <= 16	6.077	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Welders	11 < hp <= 16	5.679	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Welders	11 < hp <= 16	0.005	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Welders	11 < hp <= 16	691.593	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Welders	11 < hp <= 16	0.843	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Welders	11 < hp <= 16	0.817	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Welders	16 < hp <= 25	4.946	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Welders	16 < hp <= 25	0.461	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Welders	16 < hp <= 25	0.043	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	16 < hp <= 25	0.105	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	16 < hp <= 25	0.034	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	16 < hp <= 25	0.623	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	16 < hp <= 25	0.065	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Welders	16 < hp <= 25	0.238	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Welders	16 < hp <= 25	291.097	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	40 < hp <= 50	1.638	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	40 < hp <= 50	4.544	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	40 < hp <= 50	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	40 < hp <= 50	589.165	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	40 < hp <= 50	0.307	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	40 < hp <= 50	0.298	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	Running Exhaust	Pumps	50 < hp <= 75	2.361	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pumps	50 < hp <= 75	0.561	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	50 < hp <= 75	0.332	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	50 < hp <= 75	0.011	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	50 < hp <= 75	0.742	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	50 < hp <= 75	0.011	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	50 < hp <= 75	0.032	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	50 < hp <= 75	53.248	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	50 < hp <= 75	4.798	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	50 < hp <= 75	0.011	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	50 < hp <= 75	757.580	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	50 < hp <= 75	0.115	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	50 < hp <= 75	0.106	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	50 < hp <= 75	0.506	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	50 < hp <= 75	0.009	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	50 < hp <= 75	2.608	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	50 < hp <= 75	4.936	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	50 < hp <= 75	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	50 < hp <= 75	588.756	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	50 < hp <= 75	0.447	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	50 < hp <= 75	0.433	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	6 < hp <= 11	4.950	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	6 < hp <= 11	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	6 < hp <= 11	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	6 < hp <= 11	0.214	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	6 < hp <= 11	0.019	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	6 < hp <= 11	1.112	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	6 < hp <= 11	0.141	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	6 < hp <= 11	0.506	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	6 < hp <= 11	291.136	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	6 < hp <= 11	1.768	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	6 < hp <= 11	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	6 < hp <= 11	1046.107	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	6 < hp <= 11	0.118	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	6 < hp <= 11	0.109	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	6 < hp <= 11	0.697	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	6 < hp <= 11	0.008	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	6 < hp <= 11	4.507	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	6 < hp <= 11	5.085	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	6 < hp <= 11	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	6 < hp <= 11	588.145	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	6 < hp <= 11	0.503	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	6 < hp <= 11	0.488	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	75 < hp <= 100	1.745	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pumps	75 < hp <= 100	0.564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	75 < hp <= 100	0.331	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	75 < hp <= 100	0.011	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	75 < hp <= 100	0.553	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	75 < hp <= 100	0.008	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	75 < hp <= 100	0.024	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	75 < hp <= 100	52.102	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	75 < hp <= 100	4.819	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	75 < hp <= 100	0.011	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	75 < hp <= 100	757.565	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	75 < hp <= 100	0.068	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	75 < hp <= 100	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	75 < hp <= 100	0.503	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	75 < hp <= 100	0.010	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	75 < hp <= 100	2.502	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	75 < hp <= 100	4.519	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	75 < hp <= 100	588.763	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	75 < hp <= 100	0.455	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	75 < hp <= 100	0.441	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	1 < hp <= 3	48.130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	1 < hp <= 3	0.564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	1 < hp <= 3	2.071	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Total HC	HC losses	Air Compressors	1 < hp <= 3	0.112	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	1 < hp <= 3	0.005	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	1 < hp <= 3	0.576	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	1 < hp <= 3	0.655	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	1 < hp <= 3	11.503	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	1 < hp <= 3	253.165	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	1 < hp <= 3	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	1 < hp <= 3	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	1 < hp <= 3	1040.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	1 < hp <= 3	7.972	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	1 < hp <= 3	7.334	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	100 < hp <= 175	0.733	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Air Compressors	100 < hp <= 175	0.137	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	100 < hp <= 175	0.310	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	100 < hp <= 175	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	100 < hp <= 175	0.163	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	100 < hp <= 175	0.003	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	100 < hp <= 175	0.011	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	100 < hp <= 175	24.647	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	100 < hp <= 175	2.045	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	100 < hp <= 175	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	100 < hp <= 175	712.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	100 < hp <= 175	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	100 < hp <= 175	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	100 < hp <= 175	0.234	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	100 < hp <= 175	0.004	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	100 < hp <= 175	0.724	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	100 < hp <= 175	2.884	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	100 < hp <= 175	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	100 < hp <= 175	530.297	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	100 < hp <= 175	0.170	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	100 < hp <= 175	0.165	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	11 < hp <= 16	5.155	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	11 < hp <= 16	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	11 < hp <= 16	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	11 < hp <= 16	0.060	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	11 < hp <= 16	0.030	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	11 < hp <= 16	0.382	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	11 < hp <= 16	0.106	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	11 < hp <= 16	0.373	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	11 < hp <= 16	293.055	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	11 < hp <= 16	1.764	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	11 < hp <= 16	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	11 < hp <= 16	1045.160	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	11 < hp <= 16	0.126	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	11 < hp <= 16	0.116	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	11 < hp <= 16	0.452	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	11 < hp <= 16	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	11 < hp <= 16	2.360	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	11 < hp <= 16	4.478	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	11 < hp <= 16	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	11 < hp <= 16	588.927	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	11 < hp <= 16	0.344	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	11 < hp <= 16	0.334	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	16 < hp <= 25	4.940	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	16 < hp <= 25	0.461	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	16 < hp <= 25	0.049	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	16 < hp <= 25	0.094	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	16 < hp <= 25	0.034	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	16 < hp <= 25	0.541	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	16 < hp <= 25	0.077	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	16 < hp <= 25	0.283	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	16 < hp <= 25	291.045	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	16 < hp <= 25	1.775	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	16 < hp <= 25	1046.185	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	16 < hp <= 25	0.117	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	16 < hp <= 25	0.108	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	16 < hp <= 25	0.452	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	16 < hp <= 25	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	16 < hp <= 25	2.360	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	16 < hp <= 25	4.478	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	16 < hp <= 25	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	16 < hp <= 25	588.927	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	16 < hp <= 25	0.344	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	16 < hp <= 25	0.334	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	175 < hp <= 300	0.210	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	175 < hp <= 300	0.565	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	175 < hp <= 300	2.675	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	175 < hp <= 300	530.372	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	175 < hp <= 300	0.114	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	175 < hp <= 300	0.111	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Air Compressors	25 < hp <= 40	0.341	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Air Compressors	25 < hp <= 40	0.304	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Air Compressors	25 < hp <= 40	0.014	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	25 < hp <= 40	0.091	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	25 < hp <= 40	0.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Air Compressors	25 < hp <= 40	0.016	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Air Compressors	25 < hp <= 40	12.603	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Air Compressors	25 < hp <= 40	0.997	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Air Compressors	25 < hp <= 40	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Air Compressors	25 < hp <= 40	699.109	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Air Compressors	25 < hp <= 40	0.070	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Air Compressors	25 < hp <= 40	0.064	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Air Compressors	25 < hp <= 40	0.227	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Air Compressors	25 < hp <= 40	0.001	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Air Compressors	25 < hp <= 40	1.090	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Air Compressors	25 < hp <= 40	4.058	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Air Compressors	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Air Compressors	25 < hp <= 40	589.645	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Air Compressors	25 < hp <= 40	0.181	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Air Compressors	25 < hp <= 40	0.176	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Generator Sets	75 < hp <= 100	4.511	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Generator Sets	75 < hp <= 100	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Generator Sets	75 < hp <= 100	588.769	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Generator Sets	75 < hp <= 100	0.438	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Generator Sets	75 < hp <= 100	0.425	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	0 < hp <= 1	45.492	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	0 < hp <= 1	0.560	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	0 < hp <= 1	2.831	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	0 < hp <= 1	0.368	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	0 < hp <= 1	0.015	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	0 < hp <= 1	1.658	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	0 < hp <= 1	1.185	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	0 < hp <= 1	20.810	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	0 < hp <= 1	145.886	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	0 < hp <= 1	2.215	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	0 < hp <= 1	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	0 < hp <= 1	1041.989	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	0 < hp <= 1	9.548	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	0 < hp <= 1	8.784	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	1 < hp <= 3	48.130	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	1 < hp <= 3	0.564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	1 < hp <= 3	2.848	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	1 < hp <= 3	0.183	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	1 < hp <= 3	0.010	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	1 < hp <= 3	0.823	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	1 < hp <= 3	0.588	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	1 < hp <= 3	10.322	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	1 < hp <= 3	253.165	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	1 < hp <= 3	2.107	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	1 < hp <= 3	0.015	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	1 < hp <= 3	1040.675	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	1 < hp <= 3	7.972	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	1 < hp <= 3	7.334	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	1 < hp <= 3	0.697	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	1 < hp <= 3	0.008	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	1 < hp <= 3	4.507	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	1 < hp <= 3	5.085	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	1 < hp <= 3	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	1 < hp <= 3	588.146	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	1 < hp <= 3	0.503	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	1 < hp <= 3	0.488	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	100 < hp <= 175	1.745	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pumps	100 < hp <= 175	0.564	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	100 < hp <= 175	0.331	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	100 < hp <= 175	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	100 < hp <= 175	0.585	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	100 < hp <= 175	0.006	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	100 < hp <= 175	0.017	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	100 < hp <= 175	52.102	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	100 < hp <= 175	4.819	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	100 < hp <= 175	0.011	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	100 < hp <= 175	757.566	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	100 < hp <= 175	0.068	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	100 < hp <= 175	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	100 < hp <= 175	0.373	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	100 < hp <= 175	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	100 < hp <= 175	1.367	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	100 < hp <= 175	4.437	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	100 < hp <= 175	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	100 < hp <= 175	529.855	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	100 < hp <= 175	0.274	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	100 < hp <= 175	0.266	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	11 < hp <= 16	4.949	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	11 < hp <= 16	0.501	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	11 < hp <= 16	0.450	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	11 < hp <= 16	0.120	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	11 < hp <= 16	0.049	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	11 < hp <= 16	0.626	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	11 < hp <= 16	0.079	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	11 < hp <= 16	0.285	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	11 < hp <= 16	291.136	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	11 < hp <= 16	1.768	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	11 < hp <= 16	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	11 < hp <= 16	1046.107	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	11 < hp <= 16	0.118	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	11 < hp <= 16	0.109	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	11 < hp <= 16	0.581	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	11 < hp <= 16	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	11 < hp <= 16	2.650	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	11 < hp <= 16	4.896	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	11 < hp <= 16	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	11 < hp <= 16	588.517	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	11 < hp <= 16	0.395	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	11 < hp <= 16	0.383	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	16 < hp <= 25	5.182	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	16 < hp <= 25	0.462	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	16 < hp <= 25	0.046	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	16 < hp <= 25	0.293	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	16 < hp <= 25	0.096	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	16 < hp <= 25	1.115	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	16 < hp <= 25	0.064	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	16 < hp <= 25	0.350	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	16 < hp <= 25	293.538	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	16 < hp <= 25	2.018	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	16 < hp <= 25	0.015	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	16 < hp <= 25	1046.375	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	16 < hp <= 25	0.112	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	16 < hp <= 25	0.103	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	16 < hp <= 25	0.581	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	16 < hp <= 25	0.007	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	16 < hp <= 25	2.650	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	16 < hp <= 25	4.896	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	16 < hp <= 25	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	16 < hp <= 25	588.517	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	16 < hp <= 25	0.395	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	16 < hp <= 25	0.383	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	175 < hp <= 300	0.344	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	175 < hp <= 300	0.006	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	175 < hp <= 300	1.194	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	175 < hp <= 300	4.219	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	175 < hp <= 300	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	175 < hp <= 300	529.947	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	175 < hp <= 300	0.231	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	175 < hp <= 300	0.224	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	25 < hp <= 40	0.916	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pumps	25 < hp <= 40	0.093	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	25 < hp <= 40	0.309	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	25 < hp <= 40	0.018	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	25 < hp <= 40	0.357	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	25 < hp <= 40	0.007	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	25 < hp <= 40	0.028	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	25 < hp <= 40	21.477	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	25 < hp <= 40	1.714	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	25 < hp <= 40	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	25 < hp <= 40	708.492	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	25 < hp <= 40	0.210	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	25 < hp <= 40	0.193	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	25 < hp <= 40	0.378	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	25 < hp <= 40	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	25 < hp <= 40	1.638	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	25 < hp <= 40	4.544	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	25 < hp <= 40	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	25 < hp <= 40	589.165	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	25 < hp <= 40	0.307	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	25 < hp <= 40	0.298	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	3 < hp <= 6	6.577	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	3 < hp <= 6	0.590	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	3 < hp <= 6	2.979	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	3 < hp <= 6	0.063	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	3 < hp <= 6	0.019	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	3 < hp <= 6	0.355	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	3 < hp <= 6	0.253	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	3 < hp <= 6	0.445	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	3 < hp <= 6	216.460	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	3 < hp <= 6	2.044	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	3 < hp <= 6	0.017	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	3 < hp <= 6	1227.883	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	3 < hp <= 6	0.348	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	3 < hp <= 6	0.320	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	3 < hp <= 6	0.697	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	3 < hp <= 6	0.008	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	3 < hp <= 6	4.507	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	3 < hp <= 6	5.085	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	3 < hp <= 6	0.004	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	3 < hp <= 6	588.146	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	3 < hp <= 6	0.503	g/hp-hr
2015	6	Diesel	PM2.5	Running Exhaust	Pumps	3 < hp <= 6	0.488	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	300 < hp <= 600	0.295	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	300 < hp <= 600	0.005	g/hp-hr
2015	6	Diesel	CO	Running Exhaust	Pumps	300 < hp <= 600	1.302	g/hp-hr
2015	6	Diesel	Nox	Running Exhaust	Pumps	300 < hp <= 600	4.208	g/hp-hr
2015	6	Diesel	SO2	Running Exhaust	Pumps	300 < hp <= 600	0.003	g/hp-hr
2015	6	Diesel	Atmos. CO2	Running Exhaust	Pumps	300 < hp <= 600	530.104	g/hp-hr
2015	6	Diesel	PM10	Running Exhaust	Pumps	300 < hp <= 600	0.193	g/hp-hr



## MOVES2014 NonRoad Emission Factors

2015	6	Diesel	PM2.5	Running Exhaust	Pumps	300 < hp <= 600	0.187	g/hp-hr
2015	6	Gasoline	Total HC	Running Exhaust	Pumps	40 < hp <= 50	0.610	g/hp-hr
2015	6	Gasoline	Total HC	Crankcase Running Exhaust	Pumps	40 < hp <= 50	0.095	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Displacement Loss	Pumps	40 < hp <= 50	0.308	g/hp-hr
2015	6	Gasoline	Total HC	Refueling Spillage Loss	Pumps	40 < hp <= 50	0.012	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	40 < hp <= 50	0.357	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	40 < hp <= 50	0.005	g/hp-hr
2015	6	Gasoline	Total HC	HC losses	Pumps	40 < hp <= 50	0.020	g/hp-hr
2015	6	Gasoline	CO	Running Exhaust	Pumps	40 < hp <= 50	20.882	g/hp-hr
2015	6	Gasoline	Nox	Running Exhaust	Pumps	40 < hp <= 50	1.719	g/hp-hr
2015	6	Gasoline	SO2	Running Exhaust	Pumps	40 < hp <= 50	0.010	g/hp-hr
2015	6	Gasoline	Atmos. CO2	Running Exhaust	Pumps	40 < hp <= 50	708.516	g/hp-hr
2015	6	Gasoline	PM10	Running Exhaust	Pumps	40 < hp <= 50	0.069	g/hp-hr
2015	6	Gasoline	PM2.5	Running Exhaust	Pumps	40 < hp <= 50	0.063	g/hp-hr
2015	6	Diesel	Total HC	Running Exhaust	Pumps	40 < hp <= 50	0.378	g/hp-hr
2015	6	Diesel	Total HC	Crankcase Running Exhaust	Pumps	40 < hp <= 50	0.005	g/hp-hr



# Memorandum

**Environmental  
Resources  
Management**

**To:** Jaymie Archer, Williams

**cc:** Jeannie Woodruff, Tree Raine, ERM

**From:** Mark Garrison, ERM

**Date:** 06 December, 2016

**Subject:** Justification for the use of ERCs from Howard County, Maryland

75 Valley Stream Parkway  
Suite 200  
Malvern, PA 19355  
Author's direct phone:  
(484) 913-0369



At the request of Williams, Environmental Resources Management (ERM) has prepared this document which provides a justification for the use of NO<sub>x</sub> emission reduction credits (ERCs) available from source(s) located near Baltimore, MD in Howard County, MD, to satisfy general conformity requirements for a source located in Lancaster County, PA.

The justification consists of three parts. For the first part, the HYSPLIT model was used to calculate back trajectories (identifying locations traversed by an air parcel) from the ozone monitor in Lancaster County (i.d. 42-71-0007), on days when this monitor recorded a maximum daily 8-hour ozone concentration greater than or equal to the National Ambient Air Quality Standard (NAAQS) of 70 ppb. For the second part, CMAQ modeling provided by the Virginia Department of Environmental Quality (VADEQ) was used to determine the ozone contribution from Maryland sources to the Lancaster monitor. Based on discussions with EPA Region III, a demonstration that Maryland sources would contribute more than 1 ppb of ozone on days with recorded maximum 8-hour ozone concentrations equal to or greater than 70 ppb would be sufficient to justify using the Maryland NO<sub>x</sub> ERCs. For part 3, a qualitative discussion is included to address a potential need to obtain ERCs to offset secondary PM<sub>2.5</sub> formation due to NO<sub>x</sub> emissions.

## Part 1: HYSPLIT Analysis

For the time period 2010-2015, ozone concentrations at the Lancaster monitor exceeded the NAAQS on 60 days. Out of these 60 days, 14 days were identified by HYSPLIT as days where air quality at the Lancaster monitor was affected by air parcels that passed through the Baltimore area. Table 1 provides a list of the 14 days and corresponding recorded ozone concentrations at the Lancaster monitor. Figure 1 provides an illustration of HYSPLIT back-trajectories for the days when Lancaster County recorded a maximum 8-hour ozone concentration 70 ppb or higher; trajectories coded in purple on this figure correspond to the 14 days.



# Memorandum

Jaymie Archer  
06 December, 2016

Environmental  
Resources  
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Table 1

Date	Maximum 8-hour Ozone Concentration (ppb)
6/19/2010	75
6/22/2010	77
7/28/2010	75
8/10/2010	95
9/2/2010	86
9/7/2010	71
9/24/2010	74
7/21/2011	70
7/29/2011	72
5/31/2013	77
5/26/2015	70
8/16/2015	70
9/17/2015	76
9/18/2015	71

## Part 2: CMAQ Modeling

The modeling performed by VADEQ identified state/source sector contributions from NO<sub>x</sub> and VOC emissions for 68 different source tags. The source tags were defined by state and source sector (e.g. point emissions sources, onroad emissions sources) to allow for the identification of state/source sector contributions to the total predicted concentration. The state/source sectors identified by VADEQ included sources in Maryland (the majority of which are located in and around Baltimore), and the impacts of NO<sub>x</sub> emissions from all Maryland sources on ozone concentrations at the Lancaster monitor were identified.

The following summarizes the platform used by VADEQ for this analysis:

Model: CMAQ5.02 with the Integrated Source Apportionment Method (ISAM) incorporating feedback from Kirk Baker of EPA

Meteorology: updated WRF-MCIP (v4.2) developed by Winston Hao of NYSDEC

Emissions: MARAMA beta inventory developed by Eric Zalewsky of NYSDEC



# Memorandum

Jaymie Archer  
06 December, 2016

Environmental  
Resources  
Management

Episode dates (ozone episodes in the Northeast): June 7-11, 2011; July 20-24, 2011

Of the 10 episode days modeled by VADEQ, Maryland NO<sub>x</sub> sources contributed more than 1 ppb to Lancaster County on 3 days, summarized in Table 2.

Table 2

Date	Maximum Daily 8-hour Ozone Concentration (ppb) at the Lancaster County measurement station	
	Observed	CMAQ ISAM - MD sources
June 7, 2011	68.3	3.3
July 20, 2011	69.5	8.0
July 21, 2011	70.3	6.4

On these 3 days, ozone concentrations recorded at Lancaster County were very near or above the 8-hour ozone NAAQS, and the modeled contribution from Maryland sources was 3 to 8 times higher than the 1 ppb criterion specified by EPA Region 3.

One of the 3 days modeled by VADEQ corresponds to one of the 14 days identified by the HYSPLIT model where the trajectory of air passing over the Baltimore area intersected the air quality monitoring location in Lancaster County. For that day (July 21, 2011), the ozone concentration at Lancaster was 70.3 ppb, of which the projected contribution from the Baltimore area sources was 6.4 ppb. Considering the magnitude of Maryland NO<sub>x</sub> impacts shown in Table 2, it is likely that a greater than 1.0 ppb impact would occur on one or more of the 13 days that were not modeled.

The attached Figures 2 and 3 were provided by VADEQ to illustrate the CMAQ – ISAM predictions, measurements, and source contributions for the two episodes. For each day of each episode, hourly measured concentrations at the Lancaster monitor are shown with black data points and connecting lines. The original CMAQ (i.e., CMAQ without ISAM) predictions are shown with dotted red lines, and CMAQ with ISAM predictions are illustrated by the stacked different colored bars. Each bar represents the contribution of the source/sector noted in the legend – contributions from Maryland NO<sub>x</sub> sources are represented by yellow bars. A comparison of the CMAQ with ISAM predictions to the CMAQ without ISAM predictions, and comparison of model



# Memorandum

Jaymie Archer  
06 December, 2016

Environmental  
Resources  
Management

predictions to the measurement data, reveals reasonably good agreement between model predictions and measurements over the two episode periods.

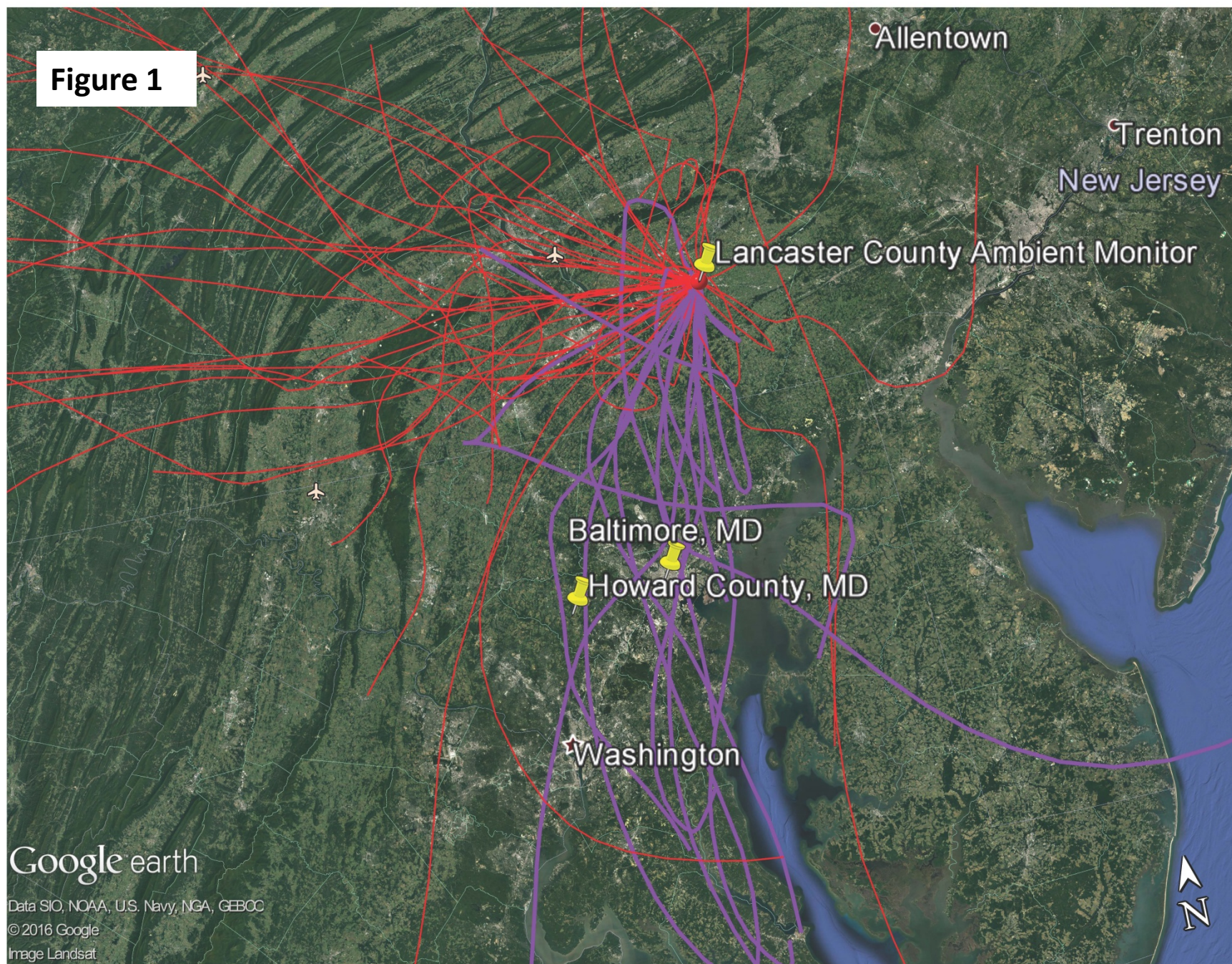
## Part 3: PM<sub>2.5</sub> Analysis

Another issue associated with emissions of NO<sub>x</sub> is the formation of secondary PM<sub>2.5</sub> from NO<sub>x</sub> in the atmosphere. The formation of secondary PM<sub>2.5</sub> from NO<sub>x</sub> emissions occurs in the atmosphere based on a number of factors – including atmospheric stability, temperature, and solar radiation. The process is generally slow, on the order of many hours. Secondary PM<sub>2.5</sub> due to project emissions would therefore not have an impact in the immediate vicinity of the project, and perhaps not even within Lancaster County. However, NO<sub>x</sub> emissions transported from the Baltimore area would have sufficient time for secondary PM<sub>2.5</sub> to form, and would contribute to measured PM<sub>2.5</sub> concentrations in Lancaster County. Consequently, a reduction of NO<sub>x</sub> emissions in the Baltimore area would reduce the secondary PM<sub>2.5</sub> contribution in Lancaster County. On this basis, it is reasonable to conclude that the Baltimore area NO<sub>x</sub> ERCs would provide a secondary PM<sub>2.5</sub> benefit in Lancaster County of the same magnitude as secondary PM<sub>2.5</sub> impacts due to the project.

EPA's draft guidance on modeled emission rates for precursors (MERPs) was issued on December 2, 2016. Although not directly relevant to the justification of ERCs for the Lancaster County source (the MERPs guidance is intended to be used for PSD sources), it is worth noting that the NO<sub>x</sub> emission levels that trigger conformity are significantly less than the levels which, according to the guidance, would result in a significant impact of secondary PM<sub>2.5</sub>.



**Figure 1**



Google earth

Data SIO, NOAA, U.S. Navy, NGA, GEBCO

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Image Landsat



Figure 2 O3 Source Contributions (in ppb) at ABRAHAM LINCOLN JR HIGH GROFFTOWN RD, Lancaster, PA (420710007)

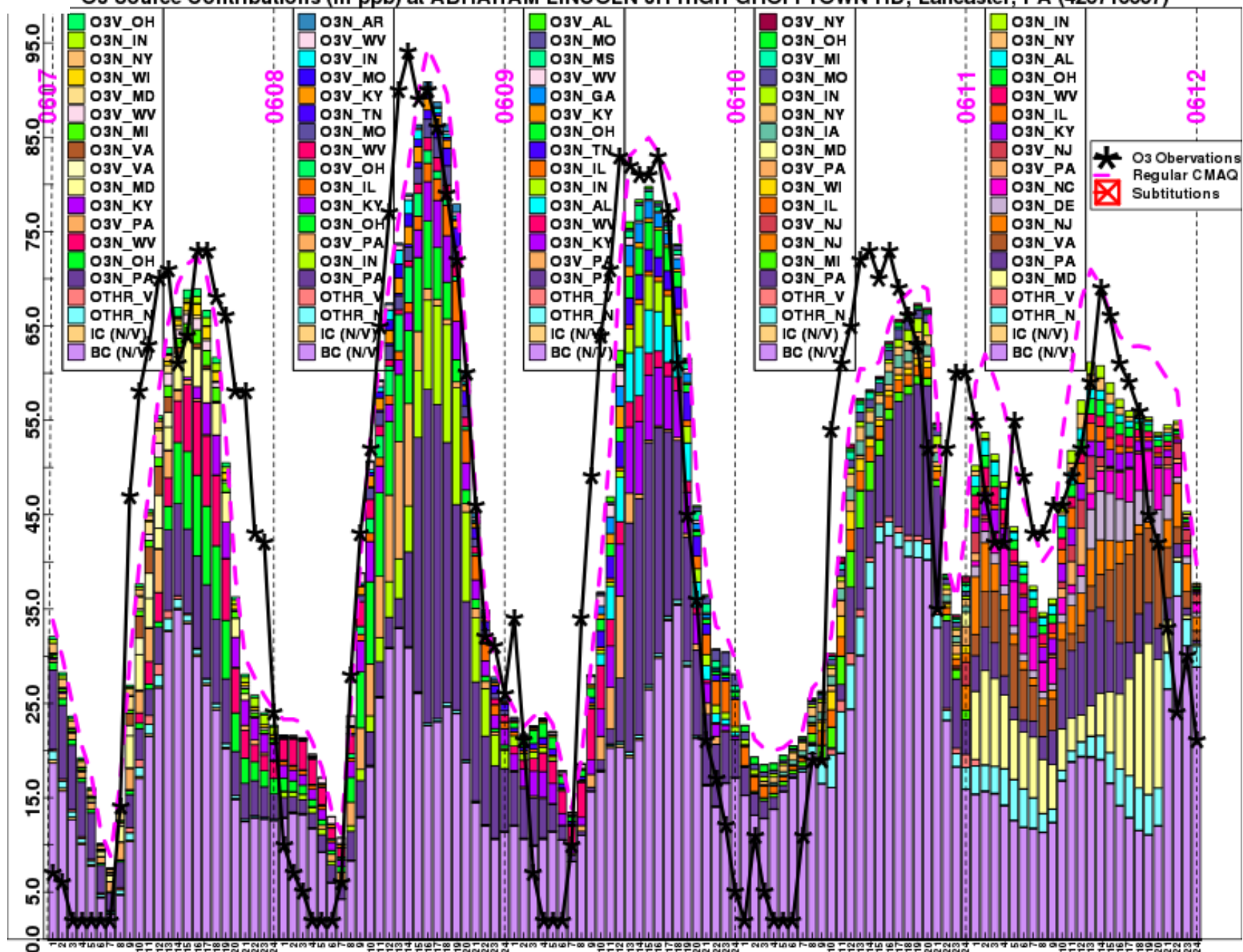
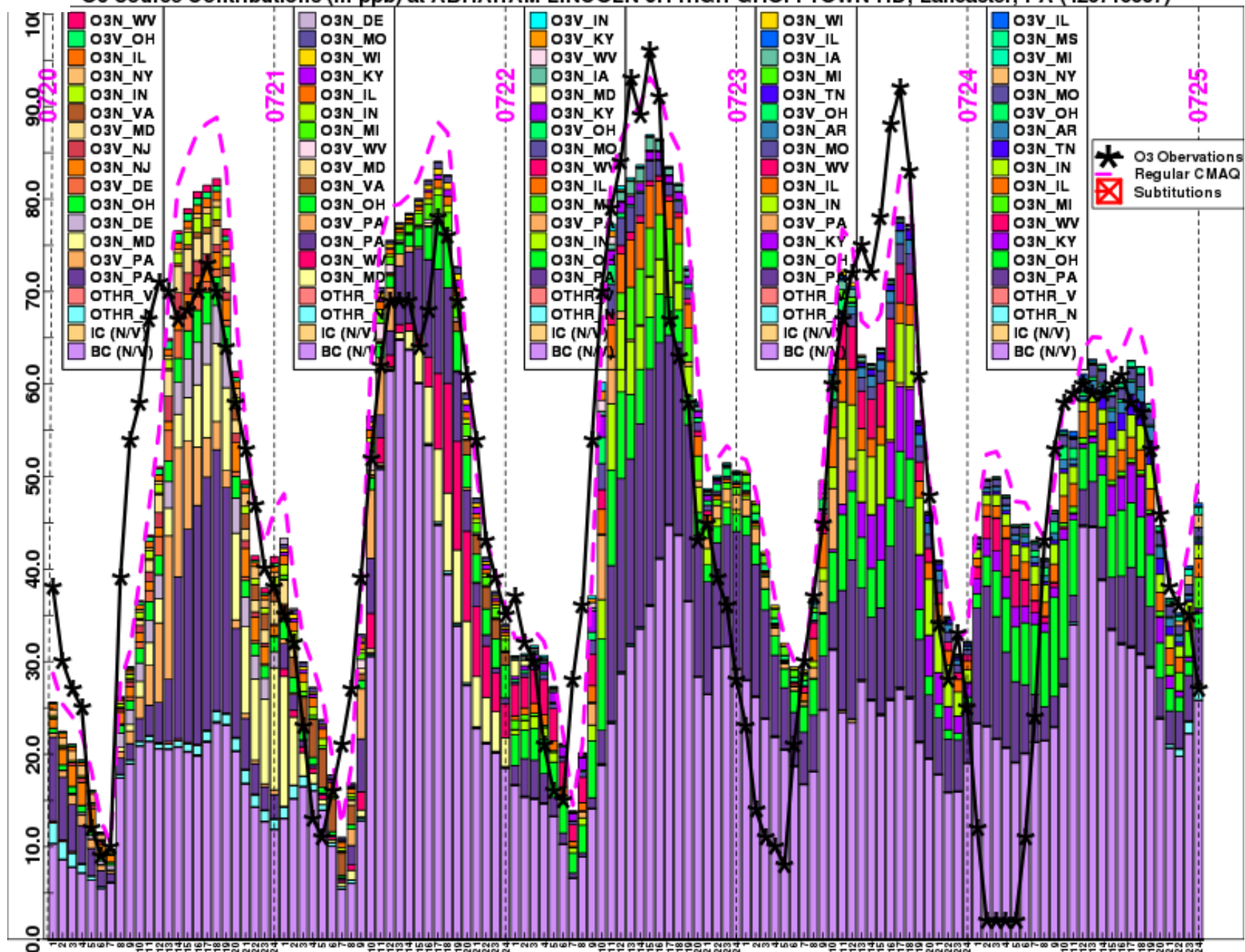




Figure 3 O3 Source Contributions (in ppb) at ABRAHAM LINCOLN JR HIGH GROFFTOWN RD, Lancaster, PA (420710007)





October 28, 2016

Ms. Kandilarya Barakat  
Chemical Engineer  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, DC 20426

Dear Ms. Barakat:

Through this letter, I wanted to follow up on our October 26, 2016 phone conversation in which you clarified that FERC is seeking confirmation from PADEP that ERCs may be used as emission offsets that will mitigate oxides of nitrogen (NOx) emissions produced by the proposed Atlantic Sunrise pipeline project (Project) construction activities and that there are sufficient ERCs available to mitigate the full impacts of the Project. The purchase of ERCs that will be used as emission offsets would mitigate NOx emissions produced by construction of the Project that are preliminarily estimated to exceed the *de minimis* threshold in Lancaster County for NOx, denoted in the General Conformity regulation. Lancaster County is designated as a 'maintenance area' for ozone and fine particulate matter.

Several calls have taken place with Williams, ERM and PADEP concerning general conformity, appropriateness of using ERCs as a mitigation measure, the supply of ERCs, and how best to purchase ERCs. The most recent call was held on October 27, 2016 with Williams, ERM, PADEP and EPA. During that call, the use and availability of ERCs were discussed. PA DEP believes that it is appropriate to use ERCs to mitigate the impacts of construction of the Project. PADEP however would need to review the inputs used to generate emission estimates to verify the exact amount of NOx emissions generated by the Project. ERM/Williams plan to provide the inputs and outputs that ERM used to generate emission estimates so that PADEP can confirm that the emission estimates were developed correctly.

As it relates to the question if there are sufficient ERCs available to purchase, PADEP can generally say that there are sufficient ERCs available for purchase.<sup>1</sup> DEP will need to see that there is a valid purchase and that the credits will be retired and ensure the ERCs are applied through the appropriate mechanism.

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<sup>1</sup> We however will not comment on the purchase location. During the call that took place on October 27, 2016, EPA indicated that the ERCs from a nearby Maryland nonattainment area may be nearby but that an analysis of additional modeling may be needed to determine if the area where the ERCs were generated contributes to a violation of the applicable National Ambient Air Quality Standards in Lancaster County. It was noted during the call that the HYSPLIT back trajectory analysis and atmospheric modeling are two tools that can be used to prove that the area contributes to an ozone violation in Lancaster County. Points of contact in Virginia and Maryland state environmental departments, which are sources for potential relevant modeling that has already been developed, were provided to ERM in case they chose to do additional modeling. Williams will need to make the determination and justification on the purchase location in order to fully mitigate emissions from this project.



PADEP believes that ERCs would be appropriate to mitigate for general conformity and that there are sufficient ERCs available for purchase. PADEP will continue to work with Williams and ERM to review the general conformity, ensure that proper ERCs are purchased and that they are applied through an appropriate mechanism.

Should you have any questions on the above information please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Ann Roda', written in a cursive style.

Ann Roda  
Director



**Transcontinental Gas Pipe Line Company, LLC  
Atlantic Sunrise Project**

**Draft General Conformity Determination**

**Docket No. CP15-138-000**



Federal Energy Regulatory Commission  
Division of Gas – Environment and Engineering  
888 First Street, NE, Washington, DC 20426

November 2016



**TABLE OF CONTENTS**  
**Atlantic Sunrise Project**  
**General Conformity Determination**

	<u>Page</u>
<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>2.0 GENERAL CONFORMITY – REGULATORY BACKGROUND .....</b>	<b>2</b>
2.1 General Conformity Requirements .....	3
2.2 General Conformity Process .....	4
<b>3.0 GENERAL CONFORMITY APPLICABILITY .....</b>	<b>4</b>
<b>4.0 GENERAL CONFORMITY .....</b>	<b>7</b>
4.1 Consistency with Relevant Pennsylvania State Implementation Plan Requirements .....	8
4.2 Pennsylvania Emission Offsets .....	9

**LIST OF TABLES**

Table 1	General Conformity Applicability Thresholds .....	5
Table 2	Construction Project Emissions Summary (2017) for the Atlantic Sunrise Project .....	7
Table 3	Control Measures in the Pennsylvania State Implementation Plan .....	8

**ATTACHMENTS**

Attachment 1	Pennsylvania Department of Environmental Protection Correspondence
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## 1.0 INTRODUCTION

In accordance with the National Environmental Policy Act of 1969, the Clean Air Act (CAA), and the Federal Energy Regulatory Commission's (FERC or Commission) regulations, the FERC staff has prepared this draft General Conformity Determination to ensure that the Atlantic Sunrise Project (Project) conforms with the Pennsylvania State Implementation Plan (SIP) triggered by construction activities proposed by Transcontinental Gas Pipe Line Company, LLC (Transco). Any person wishing to comment on this document may do so. To ensure that your comments are properly recorded and considered prior to issuance of the final General Conformity Determination, it is important that we receive your comments in Washington, DC on or before **December 5, 2016**.

Transco's Project would consist of pipeline installation and construction of new facilities and modification to existing facilities in Maryland, North Carolina, Pennsylvania, South Carolina, and Virginia. For further information on the environmental impacts of the Project, including air quality impacts, see the draft environmental impact statement (EIS) issued on May 5, 2016.

The public can view the draft environmental impact statement on our website at <https://www.ferc.gov/industries/gas/enviro/eis/2016/05-05-16-eis.asp>. The Commission staff plans on incorporating the final general conformity analysis into the upcoming final EIS.

### Pipeline Facilities

The Project would involve the construction and operation of about 199.4 miles of pipeline facilities, including:

- 185.9 miles of new, greenfield<sup>1</sup> natural gas pipeline in Columbia, Lancaster, Lebanon, Luzerne, Northumberland, Schuylkill, Susquehanna, and Wyoming Counties, Pennsylvania (58.7 miles of 30-inch-diameter and 127.3 miles of 42-inch-diameter pipeline);

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<sup>1</sup> A "greenfield" pipeline crosses land previously untouched by natural gas infrastructure rather than using existing rights-of-way.



- 11.0 miles of new pipeline looping<sup>2</sup> in Clinton and Lycoming Counties, Pennsylvania (2.5 miles of 36-inch-diameter and 8.5 miles of 42-inch-diameter pipeline);
- 2.5 miles of 30-inch-diameter pipeline replacements in Prince William County, Virginia; and
- associated equipment and facilities.

### **Appurtenant Aboveground Facilities**

Two new compressor stations (Compressor Station 605 and 610) would be constructed and operated in Pennsylvania. Compressor Station 517 and 520 in Pennsylvania and Compressor Station 190 in Maryland would have additional compression added to the stations along with other related modifications. Other modifications would take place at Compressor Stations 145, 150, 155, 160, 170, 185, and 190 across Maryland, North Carolina, and Virginia.

In Pennsylvania, two new meter stations and three new regulator stations would be constructed and operated. There would also be modifications at an existing meter station, and the construction and operation of additional ancillary facilities would occur in Pennsylvania.

In North Carolina and South Carolina, supplemental odorization, odor detection, and/or odor masking/deodorization equipment would be installed at 56 meter stations, regulator stations, and ancillary facilities.

The general conformity analysis detailed herein, outlines whether portions of the Project are applicable to general conformity. Where general conformity is applicable, we have determined whether construction and operation would conform to the applicable state SIP.

## **2.0 GENERAL CONFORMITY – REGULATORY BACKGROUND**

The U.S. Environmental Protection Agency (EPA) promulgated the General Conformity Rule on November 30, 1993, to implement the conformity provision of Title I, section 176(c)(1) of the CAA. Section 176(c)(1) states that “any department, agency, or instrumentality of the federal government shall not engage in, support in any way or provide financial assistance for, license or permit, or approve, any activity that

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<sup>2</sup> “Looping” is the practice of installing a pipeline in parallel to another pipeline to increase the capacity along an existing stretch of right-of-way, often beyond what can be achieved by one pipeline or pipeline expansion.



does not conform to an approved CAA implementation plan.” The General Conformity Rule is codified in Title 40 Code of Federal Regulations (CFR) Part 93, Subpart B, *“Determining Conformity of General Federal Actions to State or Federal Implementation Plans.”*

The General Conformity Rule applies to all federal actions occurring in nonattainment or maintenance areas. However, the General Conformity Rule excludes programs and projects that require funds or approval from the U.S. Department of Transportation, the Federal Highway Administration, the Federal Transit Administration, or the Metropolitan Planning Organization.

The CAA sets out specific permitting requirements for a group of 13 northeast states that make up the Ozone Transport Region (OTR)<sup>3</sup> This also affects the applicability threshold for nonattainment areas; however, general conformity rules only apply to areas specifically listed as nonattainment in 40 CFR 81, Subpart C within the OTR. Of the states through which the Project would be constructed, Virginia, Maryland, and Pennsylvania are within the OTR.

## **2.1 General Conformity Requirements**

Conformity under Title I, section 176(c)(1) of the CAA, means to conform to an implementation plan’s purpose of eliminating or reducing the severity and number of violations of the National Ambient Air Quality Standards (NAAQS) and achieving expeditious attainment of such standards. A proposed action or activity cannot:

- cause or contribute to new violations of any NAAQS in any area;
- increase the frequency or severity of any existing violation of any NAAQS in the area; or
- delay timely attainment of any NAAQS, interim emission reductions, or other milestones in the area.

The General Conformity Rule applies to air pollutant emissions (direct and indirect) associated with federal actions as defined in 40 CFR 93.152 and ensures that the emissions do not contribute to air quality degradation or prevent the achievement of state and federal air quality goals. General Conformity, if applicable to the action, refers to the process to evaluate the action to determine and demonstrate that it satisfies the requirements of the approved state SIP. The purpose of the General Conformity Rule is

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<sup>3</sup> OTR states are Virginia, the District of Columbia, Maryland, Delaware, New Jersey, Pennsylvania, New York, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, and Maine.



to encourage federal agencies to consult with state and local air quality districts so that these regulatory entities are aware of the expected impacts of the federal action and ensure the action meets the state SIP.

## **2.2 General Conformity Process**

The General Conformity process for a proposed action involves two distinct steps: applicability analysis and conformity determination.

1. The applicability analysis is an assessment of whether a proposed action is subject to the General Conformity Rule. If the General Conformity Rule is applicable for the proposed action, then a General Conformity Determination may be required.
2. A General Conformity Determination is an assessment of how the proposed action conforms to the applicable SIP.

An applicability analysis is required for any federal action that is in a nonattainment or maintenance area and the emissions associated with the project may have the potential to exceed the applicability threshold specified in 40 CFR 93.153(b)(1) and (2). If emissions exceed these rates, then a General Conformity Determination is required.

The General Conformity process does not include a review of new sources or existing source modifications that are subject to state or federal New Source Review permitting. Under the General Conformity Rule, these sources are presumed to comply with the SIP by completing the applicable air permitting process with the jurisdictional agency.

If a General Conformity Determination is required for the proposed action, then an evaluation must be performed to determine if the action conforms to the SIP. The Project is considered a federal action, and FERC is the lead agency responsible for making the General Conformity Determination. As required under General Conformity, an applicability analysis was performed for the Project to determine if the total direct and indirect emissions for criteria pollutants in nonattainment or maintenance areas exceeded the rates specified in 40 CFR 93.153(b)(1) and (2). The results are presented in section 3.0 below. The Project would exceed applicability thresholds, and a General Conformity Determination is presented in section 4.0.

## **3.0 GENERAL CONFORMITY APPLICABILITY**

The General Conformity Rule applies only to actions in a nonattainment or maintenance area, and the applicability thresholds apply for those portions of the Project within that nonattainment area. The General Conformity applicability thresholds are based on the attainment classification for each pollutant. Table 1 provides a summary of



the applicable nonattainment counties, the pollutants/precursor for which they are listed, and the applicability thresholds for each pollutant/precursor. The Project area contains nonattainment and maintenance areas for the following pollutants: particulate matter less than or equal to 2.5 microns in aerodynamic diameter (PM<sub>2.5</sub>) and ozone.

PM<sub>2.5</sub> is formed during the burning of materials or any dust-generating activities. Chemical reactions of oxides of nitrogen (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>) can also form PM<sub>2.5</sub>.

TABLE 1			
General Conformity Applicability Thresholds			
Pollutant	Nonattainment/ Maintenance Area	Pollutant or Precursor	Applicability Threshold (tons/year)
PM <sub>2.5</sub>	Lancaster County, PA	PM <sub>2.5</sub>	100
		NO <sub>x</sub>	100
		SO <sub>2</sub>	100
PM <sub>2.5</sub>	Lebanon County, PA	PM <sub>2.5</sub>	100
		NO <sub>x</sub>	100
		SO <sub>2</sub>	100
Ozone	Lancaster County, PA	VOC	50 <sup>a</sup>
		NO <sub>x</sub>	100
Ozone	Howard County, MD	VOC	50
		NO <sub>x</sub>	100
Ozone	Prince William County, VA	VOC	50
		NO <sub>x</sub>	100
Ozone	Gaston County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	Lincoln County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	Mecklenburg County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	Iredell County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	Rowan County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	Carabus County, NC	VOC	100
		NO <sub>x</sub>	100
Ozone	York County, SC	VOC	100
		NO <sub>x</sub>	100
<sup>a</sup> Nonattainment areas within the Ozone Transport Region have an applicability threshold of 50 tons per year of volatile organic compounds.			



Ozone is photochemically formed when precursor pollutants are mixed together in the presence of sunlight. NO<sub>x</sub>, which is a combination of nitric oxide and nitrogen dioxide, reacts with volatile organic compounds (VOC) in the presence of sunlight. NO<sub>x</sub> may also react with water and ammonia in the atmosphere to form nitric acid, which is a significant component of smog and acid rain. VOCs are organic compounds that have a high vapor pressure at ambient temperatures. VOCs are ubiquitous and some examples are alcohols, solvents, methane, and ammonia.

On September 16, 2016, Transco filed a revised construction schedule, which estimated that all the construction emissions for the Project would be in calendar year 2017. This updated information subsequently requires changes to the General Conformity analysis included in the draft EIS for the Project. With the updated schedule, construction emissions in the Lancaster County, Pennsylvania, Ozone nonattainment area are estimated to exceed the General Conformity threshold of 100 tpy for NO<sub>x</sub>. Emissions sources that are subject to the General Conformity Applicability Analysis include the construction emissions that are all planned to occur in 2017 for the Project. This includes construction equipment, on-road vehicles, off-road construction vehicle traffic, earthmoving activities, and construction storage piles.

The emissions from these sources were calculated using the EPA's MOVES 2014 modeling software.<sup>4</sup> These emissions are summarized in table 2.

The Project construction emissions in Lebanon County, Pennsylvania, would not exceed the applicability threshold for NO<sub>x</sub> or VOC under the current emission estimations; however, they are very close to the NO<sub>x</sub> applicability threshold that would trigger general conformity. To ensure that the emissions do not exceed the threshold, we recommended within the draft EIS that Transco file a *Construction Emission Plan* for work within Lebanon County, Pennsylvania to track its construction schedule and activities for each component of the Project within the Lebanon County, Pennsylvania PM<sub>2.5</sub> nonattainment area to ensure that actual emissions do not exceed the General Conformity threshold.

If a change in the construction schedule or Project results in emissions greater than 100 tons per year of NO<sub>x</sub>, Transco should provide and document all mitigation measures under 40 CFR 93.158 it would implement to comply with the General Conformity Regulations. The General Conformity Rule provides for a reassessment if the final General Conformity Determination becomes outdated or if emissions are significantly greater than originally anticipated.

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<sup>4</sup> Detailed information on calculation methodology for each emission source is available on the FERC website, <http://www.ferc.gov>, using the "eLibrary" link and the project docket number CP15-138-000. The majority of the methodology was filed by Transco on September 19, 2016.



TABLE 2			
Construction Emissions Summary (2017) for the Atlantic Sunrise Project			
Nonattainment Area	Emissions (tons/year)		
	PM <sub>2.5</sub>	NO <sub>x</sub>	VOC
Lancaster County, PA	10.1	133.5	19.3
Lebanon County, PA	7.5	98.9	14.2 <sup>a</sup>
Howard County, MD	N/A	15.2	2.1
Prince William County, VA	N/A	33.2	4.1
Gaston County, NC	N/A	0.2	0.1
Lincoln County, NC	N/A	0.2	0.1
Mecklenburg County, NC	N/A	0.2	0.1
Iredell County, NC	N/A	0.2	0.1
Rowan County, NC	N/A	0.2	0.1
Carabus County, NC	N/A	0.2	0.1
York County, SC	N/A	0.2	0.1
<sup>a</sup> VOC emissions in Lebanon County, PA are not subject to review under general conformity.			

Based on the emission estimates in table 2, the NO<sub>x</sub> emissions for Lancaster County in 2017 will exceed the identified threshold value in table 1 of 100 tons per year. Because the emissions from the Project in Lancaster County, Pennsylvania would exceed the applicability threshold for NO<sub>x</sub>, a General Conformity Determination must be completed to assess the conformance of the Project's NO<sub>x</sub> emissions in Lancaster County, Pennsylvania to the approved requirements and emission budgets for the South Central Pennsylvania Intrastate Air Quality Control Region within the Pennsylvania SIP for 2017. These emissions are referred to within this determination as the "General Conformity Project emissions."

#### 4.0 GENERAL CONFORMITY

Under 40 CFR 93, Subpart B, "Determining Conformity of General Federal Actions to State or Federal Implementation Plans," a Federal action required to have a conformity determination for a specific pollutant would be determined to conform to the SIP if it meets one of several requirements in 40 CFR 93.158, "Criteria for Determining Conformity of General Federal Actions."

The General Conformity Determination is based on the 8-hour ozone and the corresponding attainment dates. For Lancaster County, Pennsylvania, the most recently approved SIP revision is the *2012 Lancaster Ozone Nonattainment Area SIP Revision*. These revisions were approved by the EPA on November 19, 2012. In this SIP revision, the emissions budgets for NO<sub>x</sub> and VOC were updated in accordance with EPA guidance regarding mobile source emissions.



All of the Project construction emissions above the General Conformity Applicability thresholds in Lancaster County, Pennsylvania are expected to occur in the South Central Pennsylvania Intrastate Air Quality Control Region (AQCR). The criteria for determining conformity are provided in 40 CFR 93.158. An action would be determined to conform for a specific pollutant if it meets the requirements of 40 CFR 93.158(c) and any of the applicable requirements in 40 CFR 93.158(a)(1) through (5). Section 40 CFR 93.158(c) requires the total of direct and indirect emissions from the action be in compliance with all relevant requirements and milestones contained in the applicable SIP. Section 40 CFR 93.158(a)(1) through (5) provide a number of pollutant- and state-specific options for demonstrating conformity. Transco has indicated that it would demonstrate compliance with the Pennsylvania SIP requirements, in accordance with 40 CFR 93.158(c), and the method is provided in section 4.2.

#### **4.1 Consistency with Relevant Pennsylvania State Implementation Plan Requirements**

The NO<sub>x</sub> emission control measures and regulations included in the Pennsylvania SIP that may potentially apply to the Project are listed in table 3.

TABLE 3 Control Measures in the Pennsylvania State Implementation Plan		
Emission Control Measures	Type	Potential Applicability to the Liquefaction Facilities and Related Activities
EPA Non-road Diesel Engines Rule	Federal	Diesel-powered construction equipment greater than 50 horsepower
Emissions Standards for Large Spark Ignition Engines	Federal	Industrial spark-ignition engines rated over 19 kilowatts
Enhanced Inspections/Maintenance	Federal	Delivery and commuter vehicles
Federal Tier 1 and 2 Vehicle Standards	Federal	Delivery and commuter vehicles
National Low Emission Vehicle Standards	Federal	Delivery and commuter vehicles
Heavy Duty Diesel Engine Rule	Federal	Construction and heavy duty on-road vehicles
Diesel-Powered Motor Vehicle Idling Act (Act 124)	State	State standard that restricts most diesel-powered motor vehicles over 10,000 pounds from idling more than 5 minutes in any continuous 60-minute period
Vehicle Inspections	State	Required annual inspections

Several of the regulations identified in table 3 would indirectly affect the emissions from the proposed Project through implementation of new standards for manufacturers (such as reformulated fuel and engines). These regulations include the heavy duty non-road diesel engine rule. During construction of the proposed facilities, Transco would use construction equipment powered by diesel engines, which are subject to these federal programs. Implementation and compliance with these programs would be required by the manufacturers, not Transco. Therefore, it is assumed that the Project would be in compliance with these regulations. As such, the Project meets the



requirements of 40 CFR 93.158(c) for complying with all relevant requirements and milestones contained in the Pennsylvania SIP.

## **4.2 Pennsylvania Emission Offsets**

To demonstrate conformity with the South Central Pennsylvania Intrastate AQCR SIP in Lancaster County, Transco must develop an air mitigation plan that includes strategies to completely offset the proposed Project NO<sub>x</sub> emissions every year they are predicted to exceed the applicable General Conformity thresholds. The air mitigation plan must identify reduction measures to generate emissions offsets that are contemporaneous with applicable Project emissions. Emissions offsets, as defined in 40 CFR 51.852, are quantifiable reductions, consistent with the applicable SIP attainment and reasonable further progress demonstrations, surplus to reductions required by, and credited to, other applicable SIP provisions, enforceable at both the state and federal levels, and permanent within the timeframe specified by the program. Transco would be required to offset 133.5 tons of NO<sub>x</sub> for construction activities in Lancaster County, Pennsylvania during 2017.

Transco is currently working with the Pennsylvania Department of Environmental Protection (PADEP) and the EPA to discuss the amount of NO<sub>x</sub> Emission Reduction Credits (ERC) needed to appropriately offset the estimated emissions and the location from which the ERCs may be purchased. On September 29, 2016, Transco filed a letter from the Pennsylvania Department of Environmental Protection (PADEP) stating that Transco has 370.4 tons of NO<sub>x</sub> Emission Reduction Credits (ERC) banked from a previous Transco project at Compressor Station 195 located in York County through Pennsylvania's emission trading program. Transco plans to use these credits to completely offset the 133.5 tons of NO<sub>x</sub> required for the construction of the Project in Lancaster County. On November 1, 2016, PADEP filed a letter stating that there are sufficient ERCs available to purchase. PADEP did not comment on the purchase location. On October 27, 2016, EPA stated in a call that the ERCs from a nearby Maryland non-attainment area may be nearby but that an analysis of additional modeling may be needed to determine if the area where the ERCs were generated contributes to a violation of the application NAAQS in Lancaster County. PADEP also stated that they believe the ERCs would be appropriate to mitigate for general conformity and that there are sufficient ERCs available for purchase. PADEP will continue to work with Transco to review the general conformity, ensure that proper ERCs are purchased, and that they are applied through an appropriate mechanism. (see attachment 1). The ERCs must be confirmed prior to our issuance of our final General Conformity Determination. We deem this approach acceptable, and these ERCs will allow the Project to conform to the Pennsylvania SIP as allowed in 40 CFR 51.858



**ATTACHMENT 1**

**PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CORRESPONDENCE**





October 28, 2016

Ms. Kandilarya Barakat  
 Chemical Engineer  
 Federal Energy Regulatory Commission  
 888 First Street, N.E.  
 Washington, DC 20426

Dear Ms. Barakat:

Through this letter, I wanted to follow up on our October 26, 2016 phone conversation in which you clarified that FERC is seeking confirmation from PADEP that ERCs may be used as emission offsets that will mitigate oxides of nitrogen (NOx) emissions produced by the proposed Atlantic Sunrise pipeline project (Project) construction activities and that there are sufficient ERCs available to mitigate the full impacts of the Project. The purchase of ERCs that will be used as emission offsets would mitigate NOx emissions produced by construction of the Project that are preliminarily estimated to exceed the *de minimis* threshold in Lancaster County for NOx, denoted in the General Conformity regulation. Lancaster County is designated as a 'maintenance area' for ozone and fine particulate matter.

Several calls have taken place with Williams, ERM and PADEP concerning general conformity, appropriateness of using ERCs as a mitigation measure, the supply of ERCs, and how best to purchase ERCs. The most recent call was held on October 27, 2016 with Williams, ERM, PADEP and EPA. During that call, the use and availability of ERCs were discussed. PA DEP believes that it is appropriate to use ERCs to mitigate the impacts of construction of the Project. PADEP however would need to review the inputs used to generate emission estimates to verify the exact amount of NOx emissions generated by the Project. ERM/Williams plan to provide the inputs and outputs that ERM used to generate emission estimates so that PADEP can confirm that the emission estimates were developed correctly.

As it relates to the question if there are sufficient ERCs available to purchase, PADEP can generally say that there are sufficient ERCs available for purchase.<sup>1</sup> DEP will need to see that there is a valid purchase and that the credits will be retired and ensure the ERCs are applied through the appropriate mechanism.

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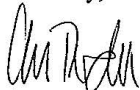
<sup>1</sup> We however will not comment on the purchase location. During the call that took place on October 27, 2016, EPA indicated that the ERCs from a nearby Maryland nonattainment area may be nearby but that an analysis of additional modeling may be needed to determine if the area where the ERCs were generated contributes to a violation of the applicable National Ambient Air Quality Standards in Lancaster County. It was noted during the call that the HYSPLIT back trajectory analysis and atmospheric modeling are two tools that can be used to prove that the area contributes to an ozone violation in Lancaster County. Points of contact in Virginia and Maryland state environmental departments, which are sources for potential relevant modeling that has already been developed, were provided to ERM in case they chose to do additional modeling. Williams will need to make the determination and justification on the purchase location in order to fully mitigate emissions from this project.



PADEP believes that ERCs would be appropriate to mitigate for general conformity and that there are sufficient ERCs available for purchase. PADEP will continue to work with Williams and ERM to review the general conformity, ensure that proper ERCs are purchased and that they are applied through an appropriate mechanism.

Should you have any questions on the above information please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ann Roda", written in a cursive style.

Ann Roda  
Director





Transcontinental Gas Pipe Line Company, LLC  
Land, Permits & GIS Department  
2800 Post Oak Boulevard (77056)  
P.O. Box 1396  
Houston, Texas 77251-1396  
713/215-2000

September 29, 2016

Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

Attention: Kimberly D. Bose, Secretary

Reference: OEP/DG2E/Gas Branch 2  
Transcontinental Gas Pipe Line Company, LLC  
Atlantic Sunrise Project  
Docket No. CP15-138-000  
Agency Correspondence

Ladies and Gentlemen:

Transcontinental Gas Pipe Line Company, LLC. (Transco) hereby submits a copy of its correspondence with the Pennsylvania Department of Environmental Protection (PADEP) documenting the availability of NOx emission reduction credits (ERCs) for the Atlantic Sunrise Project. Transco has 370.4 tons of NOx ERCs banked with PADEP from a previous project at Compressor Station 195. These NOx ERCs will be used to offset construction emissions as well as source emissions as part of the Project at Compressor Stations 517 and 520 as follows:

- 133.5 tons NOx for construction emissions in Lancaster County;
- 69.67 tons of NOx for project emissions increases at Compressor Station 517; and
- 84.92 tons of NOx for project emissions increases at Compressor Station 520.

PADEP will transfer ERCs from Station 195 to the Project sources prior to December 31, 2016.

Consistent with § 385.2010 of the Commission's regulations, Transco is serving copies of this filing to each person whose name appears on the official service list for this proceeding. If you have any questions regarding this filing, please contact Joe Dean at 713-215-3427 or [joseph.dean@williams.com](mailto:joseph.dean@williams.com).

Respectfully,

Transcontinental Gas Pipe Line Company, LLC.

A handwritten signature in black ink, appearing to read "Joseph Dean". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Joseph Dean  
Manager, Environmental Permitting

cc: Commission Staff





June 24, 2015

Mr. Michael C. Callegari  
Transcontinental Gas Pipe Line Co., LLC  
2800 Post Oak Blvd.  
Houston, TX 77056

REC'D JUN 30 2015

Re: Emission Reduction Credit Approval No. ER-67-05012A  
Peach Bottom Township, York County

Dear Mr. Callegari:

Please find enclosed an Emission Reduction Credit Approval. This Approval contains special conditions, which must be fulfilled.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa. C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, PO Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

If you have any questions, please call Ranjan Roy, Air Quality Program, at 717.705.4878.

Sincerely,

A handwritten signature in dark ink that reads "William R. Weaver".

William R. Weaver  
Regional Manager  
Air Quality Program

Enclosure

cc: Southcentral Region File ER-67-05012A  
York District  
Permits



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SOUTHCENTRAL REGION - FIELD OPERATIONS  
AIR QUALITY PROGRAM

CREDITABLE EMISSIONS DECREASE APPROVAL

Approval No: ER-67-05012A Source: Three Engines, Nordberg FSE-16,  
Source IDs 033, 034, and 035

Owner: Transcontinental Gas Pipe Line Co, LLC  
Transco Compressor Station 195

Address: 2800 Post Oak Blvd  
Houston, TX 77056 Plant: Station 195, Delta PA

Attention: Michael C. Callegari Location: Peach Bottom Twp., York County  
Manager, Environmental Services Pollutant: VOC, NOx, SOx, CO, PM<sub>2.5</sub>

Nonattainment Designation: Moderate (Ozone Transport Region)

The Department of Environmental Protection (DEP) on June 3, 2015 approves the creditable emissions decreases (CEDs) described herein, in accordance with provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and with Chapter 127 of DEP's rules and regulations.

This CED APPROVAL is subject to the special conditions attached.

This CED APPROVAL is subject to the requirements of 25 Pa. Code Chapter 127, Subchapter E.

William R. Weaver 6/24/15  
Program Manager

Southcentral Region ER-67-05012A  
York District  
Permits



CREDITABLE EMISSIONS DECREASE APPROVAL  
APPROVAL NO. ER-67-05012A  
TRANSCONTINENTAL GAS PIPE LINE CO, LLC  
STATION 195, DELTA PA

**Source, Continued**

The following sources exist in the Department's Air Information Management System (AIMS) emission inventory database:

<b>Source</b>	<b>CED Pollutant</b>	<b>Shutdown Date</b>
Source ID 033, Engine #1	VOC, NO <sub>x</sub> , SO <sub>x</sub> , PM <sub>2.5</sub> , CO	May 2014
Source ID 034, Engine #2	VOC, NO <sub>x</sub> , SO <sub>x</sub> , PM <sub>2.5</sub> , CO	May 2014
Source ID 035, Engine #3	VOC, NO <sub>x</sub> , SO <sub>x</sub> , PM <sub>2.5</sub> , CO	May 2014

**Conditions**

1. This Creditable Emissions Decrease (CED) Approval is for sources at Transcontinental Gas Pipe Line Co. LLC, Station 195 site located at 2204 Bryansville Road in Delta PA, Peach Bottom Township, York County.
2. Transcontinental Gas Pipe Line Co. LLC, Station 195 is granted 39 tons of VOC, 370.4 tons of NO<sub>x</sub>, 6.7 ton of PM<sub>2.5</sub>, 0.2 ton of SO<sub>x</sub>, and 223.6 tons of CO from the shutdown of Source IDs 033, 034, and 035.
3. These CEDs may be used after the approved entry of the CEDs by the Department in the Pennsylvania ERC Registry.
4. Pursuant to 25 Pa. Code Section 127.207(7), if the source addressed in this CED Approval has not been dismantled or removed, Transcontinental Gas Pipe Line Co. LLC, Station 195 shall on an annual basis certify in writing to the Department the continuance of the shutdown.
5. Transcontinental Gas Pipe Line Co. LLC, Station 195 and any subsequent user of this CED Approval shall comply with the requirements of 25 Pa. Code Sections 127.206 – 127.209.



Document Content(s)

CP15-138-000 DGC.DOC.....1-18





CORPORATE HEAD OFFICE  
Specialty Polymer Coatings  
#101, 20529 - 62nd Avenue, Langley, BC, CANADA V3A 8R4  
Tel: (604) 514-9711 • Fax: (604) 514-9722

U.S.A. HEAD OFFICE  
Specialty Polymer Coatings USA, Inc  
22503 FM521, Angleton, Texas, 77515, USA  
Tel: (281) 595-3530 • Fax: (281) 595-3717

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## PRODUCT DATA SHEET

## SP-2888<sup>®</sup> R.G.

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**DESCRIPTION:** SP-2888<sup>®</sup> R.G. is a range of surface coatings based on “State of the Art” epoxy / urethane chemistry. The urethane polymer is pre-bonded to the epoxy resin rendering the coating “isocyanate free”. The synergistic effect of co-polymerizing epoxy and urethane produces a coating with the superior adhesion and permeability of epoxy along with the added toughness and abrasion resistance of urethane. SP-2888<sup>®</sup> R.G. is available in Brush Grade and Spray Grade. SP-2888<sup>®</sup> R.G. is also available in Cartridges for coating repairs.

**ADVANTAGES:**

- 100% Solids – No VOCs.
- Isocyanate free.
- Excellent resistance to high temperature cathodic disbonding up to 80°C (176°F).
- Excellent adhesion to grit blasted steel surfaces, Fusion Bond Epoxy (FBE), and Fiber Reinforced Plastic (FRP).
- Excellent abrasion and impact resistance.

**USES:**

- Internal lining for pipelines.
- Exterior coating for pipelines in buried or immersed service.
- Coating of pipe, valves and fittings.
- Slip bore and directional drilling applications.
- Girth weld coatings.

**APPLICATION:**

- Spray Grade: Graco Hydra-Cat - Tip Size: .019 - .031
- Brush Grade: Brush or Roller
- Cartridge: Manual Dispenser

**CLEANING MATERIALS:**

- SP-100 Equipment Wash
- SP-110 Tool Cleaner
- SP-120 Internal Storage Lubricant





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## PRODUCT DATA SHEET

SP-2888® R.G.

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### SURFACE PREPARATION:

- Steel Substrate:**
- **Cleanliness:** Near White
  - **Standards:** NACE 2, Sa 2½ (Swedish Scale, ISO 8501-1)  
SSPC SP-10 (The Society for Protective Coatings)
  - **Profile:** 62.5 microns minimum to 125 microns maximum  
(2.5 mils to 5.0 mils)

- FBE:**
- **Profile:** 62.5 microns (2.5 mils) minimum

- MIXING RATIO:**
- Brush Grade or Spray Grade; By Volume: 3 Parts Base to 1 Part Hardener.
  - Cartridge; By Volume: 2 Parts Base to 1 Part Hardener.

**HOSE BUNDLE:** Heated hose bundle consisting of 3/8" ID base and 1/4" ID hardener line with 1/4" solvent flush line outside of the bundle. Glycol heat trace or equivalent capable of 80°C (176°F)

\* Insulated whip hoses not recommended for glycol heat trace\*

**TIP SIZE:** .019 – .033

### RECOMMENDED SPRAY PREHEAT TEMPERATURES IN DRUM / PAIL:

BASE: 70°C (158°F) to 80°C (176°F)

HARDENER: 20°C (68°F) to 30°C (86°F) (Ambient-typically not heated)

Pre-heating of the base material is required to balance the viscosity of base and hardener.

In cases of extreme weather conditions the recommended temperatures may change, please consult your SPC representative.





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## PRODUCT DATA SHEET

SP-2888<sup>®</sup> R.G.

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### RECOMMENDED FILM THICKNESS:

- **Standard Corrosion Protection:** 0.50 mm minimum to 1.25 mm (20 mils to 50 mils).
- **Directional & Mechanical Protection:** 1.00 mm minimum to 1.78 mm (40 mils to 70 mils).
- Depends upon application; consult with SPC Representative.

### BACKFILLING:

Mechanical stress including backfilling or lowering in, shall not be applied to the coating until it has reached a Shore D Hardness  $\geq 80$ .

### COMPATIBILITY WITH OTHER ANTI CORROSION COATINGS:

SP-2888<sup>®</sup> R.G. is compatible with all SPC and fusion bonded epoxy (FBE) anti-corrosion coatings.

For compatibility with other anti-corrosion coatings, please consult with SPC

### RE-COAT INTERVAL:

#### Brush Grade:

@ 25°C (77°F) Maximum: 120 Minutes  
@ 80°C (176°F) Maximum: 3 Minutes

#### Spray Grade:

@ 25°C (77°F) Maximum: 120 Minutes  
@ 80°C (176°F) Maximum: 2 Minutes





## PRODUCT DATA SHEET

**SP-2888<sup>®</sup> R.G.**

### HANDLING PROPERTIES:

#### Brush Grade

#### Spray Grade

Pot Life [100 gm (3.5 oz) mass @ 25°C (77°F)] .....	15 Minutes	
Gel time [200 gm (7.0 oz) mass, Base 70°C (158°F), Hardener 25°C (77°F)].....		1.5 Minutes
Dry Time (ASTM D1640) [0.60 mm (25 mils) coating thickness @ 25°C (77°F)]		
Touch Dry Time .....	55 Minutes	40 Minutes
Dry Hard Time.....	3.5 Hours	2.5 Hours

Ambient Temperature .... Brush Grade, Spray Grade or Cartridge: -40°C to 50°C (-40°F to 122°F)

Substrate Temperature.... The acceptable substrate (metal surface) temperature range for the application of SP-2888<sup>®</sup> R.G. is 10°C (50°F) to 100°C (212°F). Preheating of the substrate is required if the surface to be coated is below 10°C (50°F). The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating operation. Refer to the Curing Table (APPENDIX “A”).

Storage / Shelf Life ..... Store in a cool, dry, well-ventilated area at temperatures between 5°C (41°F) and 50°C (122°F). Keep in a tightly sealed container when not in use. The Shelf Life of SP-2888<sup>®</sup> R.G. is a maximum of 24 months from the date of manufacture if the materials are in unopened containers.

### LIQUID PROPERTIES:

#### BASE

#### HARDENER

Appearance.....	White Viscous Liquid	Blue Liquid
Solids Content (%) .....	100	100
Specific Gravity (ASTM D1475)....	1.55 ± 0.03 (Spray Grade)	1.03 ± 0.03 (Spray Grade)
Specific Gravity (ASTM D1475)....	1.55 ± 0.03 (Brush Grade)	1.05 ± 0.03 (Brush Grade)
Specific Gravity (ASTM D1475)....	Base & Hardener Mixed:	1.42 ± 0.03 (Spray Grade)
Specific Gravity (ASTM D1475)....	Base & Hardener Mixed:	1.42 ± 0.03 (Brush Grade)
Coverage (Theoretical).....	Base & Hardener Mixed:	39.0 m <sup>2</sup> /Litre/25 microns [1604 ft <sup>2</sup> /U.S. Gallon/mil]





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## PRODUCT DATA SHEET

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SP-2888® R.G.

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### PHYSICAL / MECHANICAL / ELECTRICAL PROPERTIES:

Taber Abrasion Resistance [Average Weight Loss (g)] (ASTM D4060-10) (CS-17 Wheel, 1000 gram load with 5000 cycles).....	0.3562
Adhesion to Steel:	
Dry Adhesion (Pull-off Strength) [MPa (psi)] (ASTM D4541-95-A4) (Self-Alignment Adhesion Tester, Type IV) [25°C (77°F)].....	> 20 (> 3000)
Wet Adhesion (Hot Water Soak) (CSA-Z245.20-10, Clause 12.14, 120 Days) [75°C ± 3°C (167°F ± 5°F)] .....	Rating #1
Cathodic Disbonding Test [Average Radius (mm)] [CSA-Z245.20-10, Clause 12.8, System 1A, 28 Days @ 65°C (149°F)] .....	6.50
Cathodic Disbonding Test [Average Radius (mm)] [CSA-Z245.20-10, Clause 12.8, System 1A, 28 Days, modified to 80°C (176°F)]....	7.00
Compressive Strength (psi) (ASTM D695) [25°C (77°F)] .....	1.56 x 10 <sup>4</sup>
Dielectric Strength (volt/10 <sup>-3</sup> in) (ASTM D149) .....	400
Dielectric Constant (60 cycles) (ASTM D150).....	4.2
Elongation at Break (%) (ASTM D882 Method A) [25°C (77°F)] [DFT 0.50-0.75 mm (20-30 mils)] .....	4.20
Hardness (Shore D) (ASTM D2240-91) [25°C (77°F)].....	85
Impact [Joules (ft-lbf)] (CSA-Z245.20-10, Clause 12.12) [-30°C ± 3°C (-22°F ± 5°F)]	
Spray Grade .....	3.0 (2.21)
Brush Grade.....	3.0 (2.21)
Impact [Joules (ft-lbf)] (CSA-Z245.20-10, Clause 12.12) [25°C ± 3°C (77°F ± 5°F)]	
Spray Grade .....	5.0 (3.69)
Brush Grade.....	5.0 (3.69)
Tensile Break Strength [MPa (psi)] (ASTM D882 Method A) [25°C (77°F)] [DFT 0.50-0.75 mm (20-30 mils)] .....	44.86 (6506.40)
Water Vapour Permeability (perm-in) (ASTM D1434).....	< 0.003
Water Absorption (% , 24 <sup>h</sup> , r.t.) (ASTM D570).....	0.1
Volume Resistivity (ohm-cm) (ASTM D257) .....	1.0 x 10 <sup>14</sup>





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## PRODUCT DATA SHEET

SP-2888<sup>®</sup> R.G.

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### CHEMICAL RESISTANCE (ASTM G20) (90 days immersion @ ambient temperatures):

Ammonium Chloride, 10% solution.....	No change observed.
Bio Diesel.....	No change observed.
Calcium Chloride, 10% solution.....	No change observed.
Chromic Acid 5% solution.....	No change observed.
Diesel.....	No change observed.
Hydrochloric Acid, 5% solution.....	No change observed.
Jet Fuel .....	No change observed.
Mineral Oil .....	No change observed.
Monoethylene Glycol.....	No change observed.
Naphtha .....	No change observed.
Nitric Acid, 5% solution.....	No change observed.
Potassium Chloride, 10% solution.....	No change observed.
Sodium Carbonate, 10% solution.....	No change observed.
Sodium Chloride, 10% solution .....	No change observed.
Sodium Silicate solution.....	No change observed.
Sodium Hydroxide, 10% solution .....	No change observed.
Sulphuric Acid, 5% solution .....	No change observed.
Zinc Sulphate, 10% solution.....	No change observed.

**SAFETY:** Read the Material Safety Data Sheets before use.

**REFER TO COLOUR CHART AT END OF PRODUCT DATA SHEET.**

**EFFECTIVE DATE:** August 28, 2015 Rev. 4
















CORPORATE HEAD OFFICE  
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## BRUSH GRADE COATING KITS

### COLOUR CHART

**Match Base & Hardener Based on Colour Coded Dots Below.**  
**Mixing Ratio By Volume: 3 Parts Base to 1 Part Hardener.**

<u>SIZE</u>	<u>COLOUR</u>	<u>VOLUME</u>	
		<u>BASE</u>	<u>HARDENER</u>
0.50 Litres	PINK 	0.3750 Litres	0.1250 Litres
0.75 Litres	FL GREEN 	0.5625 Litres	0.1875 Litres
0.90 Litres	FL YELLOW 	0.6750 Litres	0.2250 Litres
1.00 Litres	RED 	0.7500 Litres	0.2500 Litres
1.25 Litres	PURPLE 	0.9375 Litres	0.3125 Litres
1.50 Litres	YELLOW 	1.1250 Litres	0.3750 Litres
1.75 Litres	ORANGE 	1.3125 Litres	0.4375 Litres
2.00 Litres	BLACK 	1.5000 Litres	0.5000 Litres
2.25 Litres	BLUE 	1.6875 Litres	0.5625 Litres
2.50 Litres	GREEN 	1.8750 Litres	0.6250 Litres
2.75 Litres	WHITE 	2.0600 Litres	0.6900 Litres
Note: FL = Fluorescent			



# APPENDIX “A”



CORPORATE HEAD OFFICE  
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## SP-2888® R.G. CURING TABLE

SUBSTRATE TEMPERATURE	DRY HARD CURING TIME	
	Brush Grade	Spray Grade
90°C (194°F)	2 Minutes	1.6 Minutes
80°C (176°F)	3 Minutes	2 Minutes
70°C (158°F)	5 Minutes	3 Minutes
60°C (140°F)	9 Minutes	9 Minutes
50°C (122°F)	37 Minutes	16 Minutes
40°C (104°F)	1 Hour 20 Minutes	38 Minutes
30°C (86°F)	1 Hour 45 Minutes	1 Hour 40 Minutes
25°C (77°F)	3 Hours 30 Minutes	2 Hours 30 Minutes
20°C (68°F)	5 Hours 40 Minutes	4 Hours 50 Minutes
10°C (50°F)	16 Hours	14 Hours

Substrate: 12 mm (0.5 in.) Thick Steel Panels

Brush Grade Material Temperature: Base and Hardener: 25°C (77°F)

Spray Grade Material Temperature: Base: 70°C (158°F)  
Hardener: 25°C (77°F)

Dry Film Thickness: 0.50 mm (20 mils) DFT as per ASTM D1640

Note: The information above is to serve as a guide only. The test results were compiled under laboratory-controlled conditions. Field results may vary due to variable conditions such as radiant heat loss and the cooling effects of wind.

Date: August 28, 2015



TABLE O-1

## Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project

Facility/County/ Workspace Type	Agricultural Land		Upland Forest		Industrial / Commercial Land		Transportation		Residential Land		Open Land		Wetlands		Open Water		Total <sup>b</sup>	
	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper. <sup>a</sup>	Cons.	Oper.	Cons.	Oper.
<b>PENNSYLVANIA</b>																		
Central Penn Line (CPL) North																		
Columbia																		
Pipeline	2.2	0.7	28.3	8.5	0.0	0.0	0.8	0.2	0.7	0.2	18.4	5.1	3.5	1.2 (0.3)	0.8	0.2	54.6	16.1
ATWS	0.5	0.0	4.4	0.0	0.0	0.0	<0.1	0.0	0.4	0.0	0.8	0.0	<0.1	0.0	<0.1	0.0	6.1	0.0
Mainline valves and tie-in	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Access roads	0.0	0.0	0.7	0.3	0.0	0.0	0.1	<0.1	0.0	0.0	0.1	<0.1	0.0	0.0	0.0	0.0	0.8	0.3
Contractor staging areas	5.2	0.0	<0.1	0.0	<0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0
Contractor and pipe yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Luzerne																		
Pipeline	24.9	10.5	165.8	71.8	0.4	0.1	4.9	1.7	7.1	2.5	38.9	8.0	12.2	4.9 (2.6)	2.4	0.9	257.6	100.9
ATWS	8.1	0.0	17.5	0.0	0.4	0.0	0.4	0.0	1.1	0.0	3.7	0.0	0.5	0.0	<0.1	0.0	31.5	0.0
Mainline valves	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
Access roads	0.9	0.0	3.9	0.1	<0.1	0.0	2.4	0.2	0.8	0.0	1.8	0.4	0.0	0.0	<0.1	0.0	9.8	0.7
Contractor staging areas	10.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0
Contractor and pipe yards	0.0	0.0	0.0	0.0	33.8	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.3	0.0	0.0	0.0	43.5	0.0
Wyoming																		
Pipeline	69.8	39.4	129.1	70.1	<0.1	<0.1	2.5	1.4	5.2	2.9	27.8	16.7	8.4	5.5 (1.3)	2.6	1.4	245.3	137.9
ATWS	25.5	0.0	9.8	0.0	0.1	0.0	0.2	0.0	1.2	0.0	7.0	0.0	0.4	0.0	0.2	0.0	44.3	0.0
Mainline valves	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Access roads	5.0	0.3	4.0	0.0	0.3	<0.1	1.7	0.2	1.7	<0.1	2.9	0.5	<0.1	0.0	0.0	0.0	15.0	1.0
Contractor staging areas	4.8	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0
Contractor and pipe yards	0.0	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	14.5	0.0



TABLE O-1 (cont'd)
Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project

[illegible]



TABLE O-1 (cont'd)

## Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project

Facility/County/ Workspace Type	Agricultural Land		Upland Forest		Industrial / Commercial Land		Transportation		Residential Land		Open Land		Wetlands		Open Water		Total <sup>b</sup>	
	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper. <sup>a</sup>	Cons.	Oper.	Cons.	Oper.
Schuylkill																		
Pipeline	73.2	36.9	100.0	49.9	0.6	0.3	4.5	2.2	3.3	1.6	36.5	18.7	2.8	1.6 (0.2)	1.6	0.9	221.9	112.0
ATWS	22.8	0.0	16.3	0.0	0.3	0.0	0.4	0.0	1.5	0.0	5.8	0.0	0.3	0.0	<0.1	0.0	47.4	0.0
Mainline valves	0.2	0.2	<0.1	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
Access roads	5.0	0.1	14.5	1.1	0.3	0.0	5.7	1.5	0.8	0.0	28.8	1.6	0.0	0.0	0.0	0.0	55.2	4.3
Contractor staging areas	21.7	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.0
Contractor and pipe yards	0.0	0.0	0.0	0.0	45.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.8	0.0
Northumberland																		
Pipeline	7.0	3.5	86.9	43.5	1.4	0.8	2.9	1.0	3.0	1.5	7.5	3.7	0.4	0.2 (0.1)	1.8	0.8	110.0	55.0
ATWS	2.3	0.0	9.5	0.0	0.2	0.0	<0.1	0.0	1.2	0.0	1.5	0.0	0.1	0.0	0.2	0.0	15.2	0.0
Mainline valves	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Access roads	0.1	0.1	19.1	1.5	5.8	0.1	15.8	6.8	0.3	0.0	3.2	0.7	0.0	0.0	<0.1	0.0	44.3	9.2
Contractor staging areas	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
Contractor and pipe yards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Columbia																		
Pipeline	235.3	119.8	115.2	57.6	1.4	0.7	6.8	3.6	5.9	3.2	31.6	15.9	2.9	1.8 (0.5)	4.0	2.7	403.0	205.5
ATWS	77.1	0.0	14.3	0.0	0.6	0.0	0.8	0.0	3.2	0.0	7.5	0.0	0.2	0.0	0.0	0.1	94.3	0.0
Mainline valves	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1
Access roads	8.0	<0.1	2.6	0.0	<0.1	0.0	2.8	<0.1	2.3	0.0	2.1	0.1	0.0	0.0	0.0	0.0	17.9	0.1
Contractor staging areas	13.7	0.0	0.4	0.0	0.9	0.0	0.5	0.0	1.1	0.0	6.6	0.0	0.0	0.0	0.0	0.0	26.3	0.0
Contractor and pipe yards	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0
Subtotal CPL South	1,421.4	455.5	554.4	227.6	58.6	2.3	64.7	22.5	43.3	13.8	166.0	52.6	12.4	7.0 (2.0)	13.1	7.3	2,333.7	788.8



TABLE O-1 (cont'd)	
Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project	

[illegible]



TABLE O-1 (cont'd)	
Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project	

[illegible]



TABLE O-1 (cont'd)	
Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project	

Agricultural	Industrial / Commercial	Residential
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[illegible]



TABLE O-1 (cont'd)

## Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project

Facility/County/ Workspace Type	Agricultural Land		Upland Forest		Industrial / Commercial Land		Transportation		Residential Land		Open Land		Wetlands		Open Water		Total <sup>b</sup>	
	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper. <sup>a</sup>	Cons.	Oper.	Cons.	Oper.
Spencer Buck Meter Station	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	<0.1	0.0	0.0	0.0	0.0	0.5	<0.1
West Lexington M&R Station	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	<0.1	0.0	0.0	0.0	0.0	0.5	<0.1
Lexington M&R Station	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
Winston Salem M&R Station	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	<0.1	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
Kernersville Meter Station	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	<0.1	0.0	0.0	0.0	0.0	0.4	<0.1
Greensboro M&R station	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	<0.1	0.0	0.0	0.0	0.0	0.4	<0.1
Stokesdale Meter Station	<0.1	<0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	<0.1
Bethany M&R Station	0.0	0.0	<0.1	<0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
Rockingham Meter Station	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0
Timken M&R Station	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
Gaffney M&R Station	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.1	<0.1	0.0	0.0	0.0	0.0	0.2	<0.1
Cherokee Co-Gen Meter Station	0.0	0.0	<0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
Skygen Co-Gen Meter Station	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0
Deering Milliken M&R Station	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0
Blacksburg M&R Station	0.0	0.0	<0.1	<0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.2	<0.1
Broad River Meter Station	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	<0.1	0.0	0.0	0.0	0.0	0.3	<0.1
York Road Meter Station	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.8	0.0
Mill Creek Meter Station	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Subtotal	<0.1	<0.1	0.1	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.9	0.4	0.0	0.0	0.0	0.0	16.8	0.5



TABLE O-1 (cont'd)
Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project

Land Use Acreage Affected by Construction and Operation of the Atlantic Sunrise Project																		
Facility/County/ Workspace Type	Agricultural Land		Upland Forest		Industrial / Commercial Land		Transportation		Residential Land		Open Land		Wetlands		Open Water		Total <sup>b</sup>	
	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper.	Cons.	Oper. <sup>a</sup>	Cons.	Oper.	Cons.	Oper.
EXISTING MLVs																		
MLV 145-10	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.0	0.0
MLV N545	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.8	0.0
MLV 145-20	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0
MLV 145-21	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.2	0.0
MLV 150-D5	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.8	0.0
MLV 150-10	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0
MLV 150-D15	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0
MLV 150-20	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.0
MLV 155-D2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.0
MLV 155-B2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.5	0.0
MLV 155-B5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0
MLV 155-10	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0
MLV 155-20	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.9	0.0
MLV 140-D15	0.0	0.0	0.0	0.0	<0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<0.1	0.0
MLV 140-20	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.3	0.0
Subtotal	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0
ABOVEGROUND FACILITIES TOTAL	86.9	72.9	23.7	14.4	135.2	0.0	0.0	0.0	0.0	0.0	58.5	22.0	0.0	0.0	0.0	0.0	306.1	109.4
PROJECT TOTAL <sup>b</sup>	1,789.2	602.9	1,044.1	425.8	244.2	2.7	88.5	27.8	70.9	22.1	432.4	122.3	44.9	20.9 (8.3)	20.4	10.7	3,741.0	1,235.4
<sup>a</sup> Total includes all wetlands with the permanent right-of-way including palustrine emergent wetlands. Values shown in parentheses include palustrine forested and scrub-shrub wetlands within a 10-foot-wide corridor centered on the pipeline centerline that would be maintained in an herbaceous state only.																		
<sup>b</sup> Total may not match sum of addends due to rounding.																		
Notes: ATWS = additional temporary workspace, M&R = metering and regulating, MLV = mainline valve																		



## Jeannie Woodruff

---

**From:** Jeannie Woodruff <jeannie.woodruff@erm.com>  
**Sent:** Friday, May 12, 2017 2:57 PM  
**To:** Trostle, Chris  
**Cc:** Archer, Jaymie (Jaymie.Archer@williams.com); Reiley, Robert A.; Ramamurthy, Krishnan; Dalal, Kirit; Trowbridge, Brian; Wenrich, Sean  
**Subject:** RE: Williams Source of NOx ERCs

Thank you Chris! There are additional ERCs available in the event the actual emissions from construction are in excess of estimates.

Have a good weekend  
Jeannie

Jeannie Woodruff

Account Director

**ERM**  
1159 Pittsford-Victor Road, Suite 200 | Pittsford, NY 14534  
**M** 570-418-0339  
**E** [jeannie.woodruff@erm.com](mailto:jeannie.woodruff@erm.com) | **W** [www.erm.com](http://www.erm.com)



**ERM** *The business of sustainability*

---

**From:** Trostle, Chris [mailto:[dtrostle@pa.gov](mailto:dtrostle@pa.gov)]  
**Sent:** Friday, May 12, 2017 2:55 PM  
**To:** Jeannie Woodruff  
**Cc:** Archer, Jaymie (Jaymie.Archer@williams.com); Reiley, Robert A.; Ramamurthy, Krishnan; Dalal, Kirit; Trowbridge, Brian; Wenrich, Sean  
**Subject:** RE: Williams Source of NOx ERCs

Hello Jeannie,

The location of the retired emission reduction credits I believe are acceptable for the offsetting of the ASR Pipeline Project. They are closer to Lancaster County than the Howard County ERCs that were planned for retirement, and the location is within the HYSPLIT trajectories. I believe that we voiced concerns at our meeting about Williams having enough ERCs in case the project is extended and more emissions were produced. It looks like more ERCs are available from the source, if needed. I hope that more are available in case some unforeseen circumstance arises that would extend construction and elevate emissions.

**Chris Trostle** | Mobile Sources Section Chief  
Department of Environmental Protection  
Rachel Carson State Office Building  
400 Market Street | Harrisburg, PA 17101  
Phone: 717.772.3926



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**From:** Jeannie Woodruff [<mailto:Jeannie.Woodruff@erm.com>]  
**Sent:** Friday, May 12, 2017 2:30 PM  
**To:** Trostle, Chris <[dtrostle@pa.gov](mailto:dtrostle@pa.gov)>  
**Cc:** Archer, Jaymie ([Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com)) <[Jaymie.Archer@williams.com](mailto:Jaymie.Archer@williams.com)>  
**Subject:** Williams Source of NOx ERCs

Hi Chris

Per our conversation, attached is a revised Figure 1 to the HYSPLIT/VADEQ modeling analysis (also attached for your reference). The revised figure includes a pin at the source of the 106 tons of NOx ERCs that Williams intends to procure to satisfy the emissions offset requirement for the Lancaster County general conformity determination. I've also included the ERC source information copied from the MDE website below.

Identified NOx ERC Source in Harford County MD

Owner	Amount (Tons)	ERC Expiration Date	ERC Source	ERC Contact Information
Harford County Resource Recovery Facility	VOC: NO <sub>x</sub> : 273 SO <sub>2</sub> : 33 PM <sub>2.5</sub> :	3/25/2026	Permit #: 025-0212 Company Name: Harford County Resource Recovery Facility Jurisdictions: Harford	Mr. Chris Skaggs Phone: 410-333-2730 Mailing Address: 100 S. Charles Street, Tower II, Suite 403 Baltimore MD 21201-2705

We wanted to confirm with the Department that the Harford County MD ERCs are acceptable for use in Lancaster County.

Thank you for your help!  
Jeannie

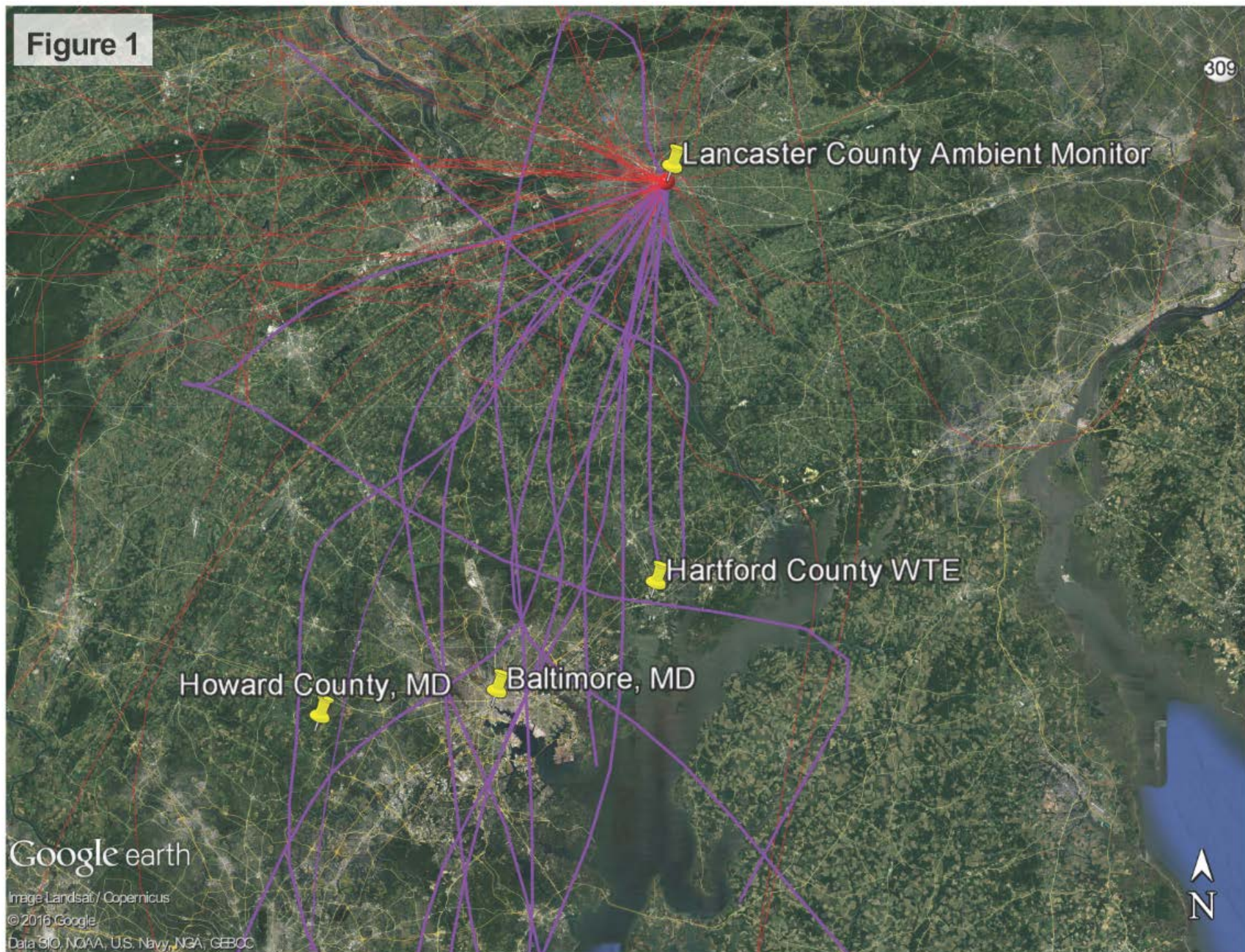
Jeannie Woodruff

Account Director

**ERM**  
1159 Pittsford-Victor Road, Suite 200 | Pittsford, NY 14534  
**M** 570-418-0339  
**E** [jeannie.woodruff@erm.com](mailto:jeannie.woodruff@erm.com) | **W** [www.erm.com](http://www.erm.com)



Figure 1





**ATTACHMENT D.**

**PADEP COMMENTS TO FERC ON DRAFT GENERAL CONFORMITY  
DETERMINATION**





December 29, 2016  
Sent by FERC eFiling

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First St, NE, Room 1A  
Washington, DC 20426

Re: PA DEP submittal of additional comments for the Draft General Conformity Determination for the Transcontinental Gas Pipeline Company, LLC (Transco) Atlantic Sunrise Project (FERC Docket No. CP15-138-000)

Dear Secretary Bose:

This letter supplements and incorporates by reference the Pennsylvania Department of Environmental Protection's (Department) December 5, 2016, comment letter to FERC on FERC's Draft General Conformity Determination for the Transcontinental Gas Pipeline Company, LLC (Transco) Atlantic Sunrise Project (FERC Docket No. CP15-138-000).

In response to the Department's December 5 letter and further discussions with the applicant, the Department received from Transco, and reviewed, an "Air Quality Technical Report, Explanatory Information for General Conformity Evaluation, Atlantic Sunrise Project," (technical report). The technical report contains air emissions estimates for the proposed Atlantic Sunrise (ASR) pipeline project proposed to be built in Lancaster and Lebanon Counties, Pennsylvania.

Lancaster County is a nonattainment area for the 2008 National Ambient Air Quality Standard (NAAQS) for ozone and is a maintenance area for the 2006 24-hour fine particulate matter (PM<sub>2.5</sub>) NAAQS. Lebanon County is a nonattainment area for the 2012 annual PM<sub>2.5</sub> NAAQS and a maintenance area for the 2006 24-hour PM<sub>2.5</sub> NAAQS. Therefore, both Lancaster and Lebanon Counties would be subject to a General Conformity determination if the emissions from a federal project exceed the emission rates (also called *de minimis* threshold rates) given in 40 C.F.R. § 93.153(b) of the General Conformity regulation. Pennsylvania adopted General Conformity requirements by reference in 25 Pa. Code Chapter 127, Subchapter J (relating to general conformity). Our review has been conducted in accordance with Section 176 of the Clean Air Act and its implementing regulations in 40 C.F.R. Part 93, Subpart B (relating to determining conformity of general Federal actions to state or Federal implementation plans) and the Department's General Conformity regulation.

Based on its review of all of the information provided to it, the Department believes that the pipeline project will exceed the *de minimis* threshold rates in 40 C.F.R. § 93.153(b) for NO<sub>x</sub> for both the ozone and PM<sub>2.5</sub> NAAQS for Lancaster County, and does not exceed any other *de minimis* threshold rate.

The technical report sufficiently addresses the Department's previous comments regarding incomplete information and a request for explanation of methodology. The Department can now verify that the ASR project construction emissions were estimated properly for the purpose of verifying the offsetting of project emissions through the retirement of emissions reduction credits (ERCs). To this end, the Department concurs with Transco's estimate that 105.4 tons of oxides of nitrogen (NO<sub>x</sub>) are estimated to be emitted in Lancaster County, Pennsylvania for the duration of construction during the single



calendar year of 2017. As previously indicated in discussions with FERC, the Department believes that the retirement of the necessary amount of ERCs (in this case, 106 tons of ERCs) from a suitably equivalent or higher-designated nearby nonattainment area that can demonstrate impact on Lancaster County is sufficient to meet the General Conformity emissions offset requirements.

Both FERC and the Department are in receipt of documentation from Transco and the U.S. EPA on the suitability of the use of ERCs generated from a source or sources in Howard County, Maryland. Part of the documentation, a December 6, 2016, memorandum titled, *Justification for the Use of ERCs from Howard County, Maryland*, shows through a HYSPLIT analysis, atmospheric ozone modeling performed by the Virginia Department of Environmental Quality, and a qualitative analysis on secondary PM<sub>2.5</sub> formation that ERC obtained in Howard County, Maryland is appropriate to offset construction emissions for the ASR project. The Department concurs that is appropriate to use of NOx ERCs generated by sources in Howard County, Maryland to offset the ASR project construction emissions that will be produced in Lancaster County, Pennsylvania.

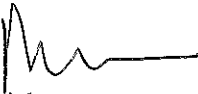
The Department concurs with the overall project construction emissions estimated in the technical report and with the assessment that these estimates satisfy the General Conformity applicability determination requirements for the estimation of reasonably foreseeable direct and indirect project construction emissions under 40 C.F.R. § 93.153(b).

It is important to note that the project emissions estimates provided by the applicant now differ from those included in FERC's previous Draft General Conformity Analysis. However, FERC's ultimate conclusion that only the General Conformity *de minimis* threshold rate of 100 tons per year NOx would be exceeded in Lancaster County has not changed.

The Department will continue to work with Transco and the U.S. EPA in order to provide an enforceable document by which the purchase or acquisition and subsequent retirement of 106 tons of NOx ERCs can be memorialized to comply with applicable General Conformity requirements. Consistent with the public notification requirements in 25 Pa. Code, Chapter 127, this enforceable document would require a thirty-day public notice and comment period in the Commonwealth.

If you have any questions or need additional clarification, please feel free to contact Chris Trostle, Mobile Sources Section Chief, or me. Mr. Trostle can be contacted at [dtrostle@pa.gov](mailto:dtrostle@pa.gov) or by phone at 717.772.3926. My e-mail is [kramamurth@pa.gov](mailto:kramamurth@pa.gov).

Sincerely,



Krishnan Ramamurthy  
Acting Director  
Bureau of Air Quality

cc: Patrick McDonnell  
Ann Roda  
George Hartenstein  
Kirit Dalal  
Chris Trostle



**ATTACHMENT E.**  
**DOCUMENTATION OF ERC TRANSFER**





# Maryland

## Department of the Environment

Larry Hogan  
Governor

Boyd Rutherford  
Lieutenant Governor

Ben Crumbles  
Secretary

JUN 29 2017

Mr. Krishnan Ramamurthy, Chief  
Division of Permits  
Bureau of Air Quality  
Rachel Carson State Office Building  
P.O. Box 8468  
Harrisburg, PA 17105-8468

Re: Interstate Transfer of Emission Reduction Credits (ERCs) from Northeast Maryland Waste Disposal Authority to Williams Companies, Inc. Lancaster County, Pennsylvania

Dear Mr. Ramamurthy:

This letter is in response to recently received letters from Northeast Maryland Waste Disposal Authority and Williams Companies, Inc. requesting transfer of nitrogen oxides (NOx) emission reduction credits (ERCs). Northeast Maryland Waste Disposal Authority has requested the Maryland Department of Environment (MDE) to transfer 106.0 tpy of NOx ERCs from Harford County Resource Recovery Facility to Williams Companies, Inc. of Lancaster County, Pennsylvania. The MDE has certified 106.0 tpy of NOx ERCs in the name of Harford County Resource Recovery Facility on July 8, 2016. These ERCs were generated by the facility shutdown of the Harford County Resource Recovery Facility in Baltimore, Maryland on March 17, 2016.

Pursuant to the "Reciprocity Agreement" for the interstate trading of ERCs between MDE and the Pennsylvania Department of Environmental Protection (PADEP), the MDE has approved the transfer of Harford County Resource Recovery Facility's 106.0 tpy of NOx ERCs from MDE's ERC registry to PADEP's ERC registry for the use in the Williams Companies, Inc facility in Lancaster County, Pennsylvania for their proposed project. Please note that these ERCs have an expiration date of March 17, 2026, therefore the credits need to be used in the Williams Companies, Inc facility's permit prior to the expiration date.

If you have any questions or require additional information, please contact Mr. Christopher Mentzer at 410 537-4417 or [christopher.mentzer@maryland.gov](mailto:christopher.mentzer@maryland.gov).

Sincerely,

Karen G. Irons, Program Manager  
Air Quality Permits Program  
Air & Radiation Management Administration

KGI/cm

cc: Christopher Skaggs, Northeast Maryland Waste Disposal Authority  
Chris Springer, Williams Companies ✓  
Angelo Bianca, MDE



June 22, 2017

Mr. Dave Mummert  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, Maryland 21230

Re: Transfer of Title of Maryland NOx ERC's and Export to Pennsylvania DEP

Dear Mr. Mummert:

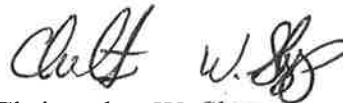
The Northeast Maryland Waste Disposal Authority has agreed to sell the following credits, governed by the Maryland Department of the Environment (MDE), to Williams Companies. Please accept this letter as authorization and proceed with transfer request.

<i>Pollutant</i>	<i>Permit#</i>	<i>Jurisdiction</i>	<i>Amount</i>	<i>Expiration</i>
NOx	025-0212	Harford	106.0	03/25/2026

Williams Companies would like to qualify these credits with the Maryland Department of the Environment. Since this project has become somewhat time sensitive, we would greatly appreciate the Department's cooperation in processing the transfer request as expeditiously as possible.

If you have any questions, please do not hesitate to call me at 410-333-2730. Thank you for your timely response to the ERC transfer request. Please notify Northeast Maryland Waste Disposal Authority and Williams when the transfer is complete.

Respectfully,



Christopher W. Skaggs  
Executive Director

cc: Mr. Krishnan Ramamurthy  
Bureau of Air Quality Control  
Pennsylvania Department of Environmental Protection  
400 Market Street, Harrisburg, PA 17105

Mr. Jeffrey T. Schoenberger, Administrator  
Harford County, Division of Environmental Services  
212 S. Bond Street, 3<sup>rd</sup> Floor, Bel Air, MD 21014

HCF11800JLU.DOCX

410.333.2730 / 410.333.2721 fax / authority@nmwda.org  
nmwda.org / Business-to-Business Recycling: mdrecycles.org  
Tower II - Suite 402, 100 S. Charles Street, Baltimore, MD 21201-2705

**Comprehensive Waste Management Through Recycling, Reuse, Resource Recovery and Landfill**

MEMBERS: Rhody R. Holthaus, Anne Arundel County / Rudolph S. Chow, Baltimore City / Steven A. Walsh, Baltimore County  
Jeffrey D. Castonguay, Carroll County / Michael G. Marschner, Frederick County / Joseph J. Siemek, Harford County / James M. Irvin, Howard County  
Lisa Feldt, Montgomery County / Roy C. McGrath, Maryland Environmental Service / Christopher Skaggs, Executive Director







Gas Pipelines – Transco  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

June 20, 2017

Dave Mummert  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, Maryland 21230

*Re: Transfer of Title if Maryland NOx ERC's and Export to Philadelphia DEP*

Dear Mr. Mummert:

Williams Companies, Inc. has agreed to purchase the following credits from Northeast Maryland Waste Disposal Authority (DBA: Harford County Resource Recovery Facility) which is governed by Maryland Department of the Environment (MDE). Please accept this letter as authorization and proceed with transfer request.

<i>Pollutant</i>	<i>Permit#</i>	<i>Jurisdiction</i>	<i>Amount</i>	<i>Expiration</i>
NOx	025-0212	Harford	106.0	03/25/2026

Furthermore, we request an export of these credits to Pennsylvania Department of Environmental Protection to offset construction emissions for the ASR project located in Lancaster County, Pennsylvania. Since this project has become time sensitive, we would greatly appreciate the Department's cooperation in processing the transfer request as expeditiously as possible.

If you have any questions, please do not hesitate to call me at 713-215-2184. Thank you for your timely response to the ERC transfer request. Please notify Northeast and Williams Companies when transfer is complete.

Respectfully,

Chris Springer  
Project Director



cc: Mr. Krishnan Ramamurthy  
Chief, Divisions of Permits  
Pennsylvania Department of Environmental Protection  
400 Market Street  
Harrisburg, PA 17101





Gas Pipelines – Transco  
2800 Post Oak Boulevard  
Houston, Texas 77056  
713.215.2000

June 20, 2017

Mr. Krishnan Ramamurthy  
Chief, Divisions of Permits  
Pennsylvania Department of Environmental Protection  
400 Market Street  
Harrisburg, PA 17101

**RE: Import Request of Maryland NOx Emission Reduction Credit**

Dear Mr. Ramamurthy:

Please accept this request to transfer 106.0 tons of NOx emission reduction credits ("ERCs") currently held by Northeast Maryland Waste Disposal Authority (DBA: Harford County Resource Recovery Facility). The subject ERCs were purchased by Williams Companies, Inc. to satisfy the requirements to offset construction emissions for the ASR project. The Williams Companies facility is in Lancaster County, Pennsylvania. These ERCs should be certified by the Pennsylvania Department of Environmental Protection ("PADEP") for Williams Companies, Inc. as listed in Pennsylvania's ERC Registry.

Please provide Williams with documentation evidencing the successful transfer of the ERCs to Williams Companies, Inc. Since this project has become time sensitive, we would greatly appreciate the Department's cooperation in processing the transfer request as expeditiously as possible.

Thank you for your assistance in the processing of this ERC transfer request. Should any questions arise, please feel free to call me at 713-215-2184.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Springer", written over a horizontal line.

Chris Springer  
Project Director