

MOBILE6 Input Parameters

Table 1: Summary of Traffic Data Used for VMT/Speed Estimates*

Input Parameter	2005	2007
PENNDOT Roadway Management System (RMS) Source Data Year	2002	2002
HPMS VMT Adjustment Year	2002	2002
PENNDOT Seasonal Factor Data	2002	2002
PENNDOT Hourly Pattern Data	2001	2001
PENNDOT RMS Truck Percentages Used for Vehicle Mixes	2002	2002
MOBILE6 Defaults Used to Disaggregate Auto and Truck Vehicle Mix Categories	2005	2007
Traffic Volume Growth Based on historic PENNDOT Global Update Factors	Based on Extrapolation of Yearly Factors from 1996-2002	Based on Extrapolation of Yearly Factors from 1996-2002

** Traffic Data obtained from PENNDOT's Bureau of Planning and Research*

Table 2: Summary of MOBILE6 Input Parameters*

Input Parameter	2005	2007
Emissions Calendar Year	2005	2007
Evaluation Month	July	July
CAAA Standards	Enabled	Enabled
Tier2 Standards	Enabled	Enabled
NLEV Vehicles	Northeast NLEV phase in schedule (NLEVNE.D)	Northeast NLEV phase in schedule (NLEVNE.D)
Refueling Emissions	Not Included	Not Included
I/M Programs**	Pittsburgh (Low Enhanced Perfstd) (OBD PA97)	Philadelphia (High Enhanced Perfstd) (OBD PA97 w/ASM)
Gas Cap Check**	Included	Included
Reformulated Gasoline (RFG)	Pittsburgh – None Philadelphia - Included	Pittsburgh – None Philadelphia - Included
Reid Vapor Pressure (RVP)	Pittsburgh – 7.8 Philadelphia - 8.7	Pittsburgh – 7.8 Philadelphia - 8.7
Min/Max Temperatures	Pittsburgh - 65.1/89.4 Philadelphia – 70.7/93.4	Pittsburgh - 65.1/89.4 Philadelphia – 70.7/93.4
Absolute Humidity	Pittsburgh – 78.0 Philadelphia – 72.6	Pittsburgh – 78.0 Philadelphia – 72.6
Cloud Cover	0% - Default	0% - Default
Altitude	Low	Low
Peak Sun	10am – 4 pm (Default)	10am – 4 pm (Default)
Registration Data	02 Local Data + National Truck	02 Local Data + National Truck
Diesel Sales Fractions	National Default	National Default
VMT By Facility	Each facility run as separate scenario	Each facility run as separate scenario
VMT by Speed	Calculated by PPSUITE (version 5.07)	Calculated by PPSUITE (version 5.07)

**All other input parameter options use national default.*

*** I/M performance standard options use relevant I/M and Gascap options;
all other parameters are the same as above*

Table 3: Pittsburgh Inspection/Maintenance Program Input Parameters

	Low Enhanced Perf Std I/M Program			OBD PA97 I/M Program				
MOBILE6 I/M Test Types:	IDLE	OBD I/M	EVAP OBD	OBD I/M	2500/ IDLE	EVAP OBD & GC	GC	IDLE
Program Start Year	95	02	02	04	97	04	97	84
Stringency Level	20	20	20	20	20			20
First Model Year	68	96	96	96	81	96	75	75
Last Model Year	95	50	50	50	95	50	95	80
Waiver Rate Pre-81 Vehicles (%)	3	3	3	3	3	3	3	3
Waiver Rate, Post-81 Vehicles (%)	3	3	3	3	3	3	3	3
Compliance Rate (%)	96	96	96	96	96	96	96	96
Program Type 1 = Test Only 2 = Test & Repair	1	1	1	2	2	2	2	2
Inspection Frequency 1 = Annual 2 = Biennial	1	1	1	1	1	1	1	1
Vehicle Types Subject to Inspection								
LDGV	2	2	2	2	2	2	2	2
LDGT1	2	2	2	2	2	2	2	2
LDGT2	2	2	2	2	2	2	2	2
LDGT3	2	2	2	2	2	2	2	2
LDGT4	2	2	2	2	2	2	2	2
HDGV2B	1	1	1	1	1	1	1	1
HDGV3	1	1	1	1	1	1	1	1
HDGV4	1	1	1	1	1	1	1	1
HDGV5	1	1	1	1	1	1	1	1
HDGV6	1	1	1	1	1	1	1	1
HDGV7	1	1	1	1	1	1	1	1
HDGV8A	1	1	1	1	1	1	1	1
HDGV8B	1	1	1	1	1	1	1	1
GAS BUS	1	1	1	1	1	1	1	1

Table 4: Philadelphia Inspection/Maintenance Program Input Parameters

MOBILE6 I/M Test Types:	OBD PA97 with ASM I/M Program				High Enhanced Perf Std I/M Program					
	OBD I/M	ASM 5015 FINAL	EVAP OBD & GC	GC	IDLE	2500/IDLE	IM240	FP & GC	OBD I/M	EVAP OBD
Program Start Year	04	97	04	97	83	83	83	83	02	02
Stringency Level	20	20			20	20	20		20	
First Model Year	96	81	96	75	68	81	86	83	96	96
Last Model Year	50	95	50	95	80	85	95	95	50	50
Waiver Rate Pre-81 Vehicles (%)	3	3	3	3	3	3	3	3	3	3
Waiver Rate, Post-81 Vehicles (%)	3	3	3	3	3	3	3	3	3	3
Compliance Rate (%)	96	96	96	96	96	96	96	96	96	96
Program Type 1 = Test Only 2 = Test & Repair	2	2	2	2	1	1	1	1	1	1
Inspection Frequency 1 = Annual 2 = Biennial	1	1	1	1	1	1	1	1	1	1
Vehicle Types Subject to Inspection										
LDGV	2	2	2	2	2	2	2	2	2	2
LDGT1	2	2	2	2	2	2	2	2	2	2
LDGT2	2	2	2	2	2	2	2	2	2	2
LDGT3	2	2	2	2	2	2	2	2	2	2
LDGT4	2	2	2	2	2	2	2	2	2	2
HDGV2B	1	1	1	1	1	1	1	1	1	1
HDGV3	1	1	1	1	1	1	1	1	1	1
HDGV4	1	1	1	1	1	1	1	1	1	1
HDGV5	1	1	1	1	1	1	1	1	1	1
HDGV6	1	1	1	1	1	1	1	1	1	1
HDGV7	1	1	1	1	1	1	1	1	1	1
HDGV8A	1	1	1	1	1	1	1	1	1	1
HDGV8B	1	1	1	1	1	1	1	1	1	1
GAS BUS	1	1	1	1	1	1	1	1	1	1

Anti-Tampering Program Input Parameters

	Pittsburgh		Philadelphia	
	Low Enhanced Perf Std	Planned Program	High Enhanced Perfstd	Planned Program
ATP Input Record	Included	Included	Included	Included
Program Start Year	95	97	83	97
First Model Year	72	75	72	75
Last Model Year	50	50	50	50
Vehicle Types Subject to Inspection: (1 = No, 2 = Yes)				
LDGV	2	2	2	2
LDGT1	2	2	2	2
LDGT2	2	2	2	2
LDGT3	2	2	2	2
LDGT4	2	2	2	2
HDGV2B	1	1	1	1
HDGV3	1	1	1	1
HDGV4	1	1	1	1
HDGV5	1	1	1	1
HDGV6	1	1	1	1
HDGV7	1	1	1	1
HDGV8A	1	1	1	1
HDGV8B	1	1	1	1
GAS BUS	1	1	1	1
Inspection Frequency: (1 = Annual, 2 = Biennial)	1	1	1	1
Compliance Rate (%)	96	96	96	96
Inspections Performed:				
Air Pump System	1	2	1	2
Catalyst Removal	1	2	2	2
Fuel Inlet Restrictor	1	2	2	2
Tailpipe Lead Deposit Test	1	1	1	1
EGR System	2	2	2	2
Evaporative Control System	1	2	1	2
PCV System	1	2	1	2
Gas Cap	1	2	1	2