

MOBILE6 Input Parameters for the Philadelphia 5-County Area

Table 1a: Summary of MOBILE6 Input Parameters

INPUT PARAMETER	1990 Baseline	2005 Uncontrolled Baseline	2005 Adjusted Baseline	2005 Control Strategy
<i>Year and Seasonal Parameters</i>				
Emissions Calendar Year	1990	2005	2005	2005
Evaluation Month	July	July	July	July
<i>Control Programs</i>				
94+ LDG IMP	NLEVNE	NLEVNE	NLEVNE	NLEVNE
CAAA Standards	Enabled	Disabled	Disabled	Enabled
Tier2 Standards	Disabled	Disabled	Disabled	Enabled
Refueling Emissions	Not Included	Not Included	Not Included	Not Included
Defeat Device	Included	Included	Included	Included
I/M Programs	Basic I/M	Basic I/M	Basic I/M	OBDII/ASM
Gas Cap Check	None	None	None	YES
ATP Programs	None	None	None	7-Inspections
<i>Fuel Characteristics</i>				
Reformulated Gasoline (RFG)	None	None	None	MOBILE6 Fuel Program 2N
Reid Vapor Pressure (RVP)	8.4	9.0	9.0	8.7
<i>Environmental Variables</i>				
Min/Max Temperatures	70.7 / 93.4	70.7 / 93.4	70.7 / 93.4	70.7 / 93.4
Absolute Humidity	72.6	72.6	72.6	72.6
Cloud Cover	0% - Default	0% - Default	0% - Default	0% - Default
Altitude	Low	Low	Low	Low
Peak Sun	10am – 4 pm (Default)	10am – 4 pm (Default)	10am – 4 pm (Default)	10am – 4 pm (Default)
Sunrise/Sunset	6am – 9pm (Default)	6am – 9pm (Default)	6am – 9pm (Default)	6am – 9pm (Default)
<i>Fleet Data</i>				
Registration Data	93 Local Data + National Trk	99 Local Data + National Trk	99 Local Data + National Trk	99 Local Data + National Trk
Diesel Sales Fractions	National Default	99 Local Data + National Trk	99 Local Data + National Trk	99 Local Data + National Trk

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<i>Other Scenario Data</i>				
VMT by Vehicle Type	90 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)
VMT by Hour	90 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)	99 Local Data (varies by cty, fc)
VMT by Facility	Each facility run as separate scenario	Each facility run as separate scenario	Each facility run as separate scenario	Each facility run as separate scenario
VMT by Speed	Calculated by PPSUITE	Calculated by PPSUITE	Calculated by PPSUITE	Calculated by PPSUITE

**All other input parameter option used national defaults.*

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Table 1b: Inspection/Maintenance Program Input Parameters

I/M Parameters	1990 Baseline	2005 Uncontrolled Baseline	2005 Adjusted Baseline	2005 Control Strategy			
MOBILE6 I/M Test Types:	IDLE	IDLE	IDLE	OBD I/M	ASM 5015 FINAL	EVAP OBD & GC	GC
Program Start Year	84	84	84	03	97	03	97
Stringency Level	17.8	17.8	17.8	20	20		
First Model Year	68	68	68	96	81	96	75
Last Model Year	50	50	50	50	95	50	95
Waiver Rate Pre-81 Vehicles (%)	2.0	2.0	2.0	3.0	3.0	3.0	3.0
Waiver Rate, Post-81 Vehicles (%)	1.1	1.1	1.1	3.0	3.0	3.0	3.0
Compliance Rate (%)	94.0	94.0	94.0	96.0	96.0	96.0	96.0
Program Type 1 = Test Only 2 = Test & Repair	2	2	2	2	2	2	2
Inspection Frequency 1 = Annual 2 = Biennial	1	1	1	1	1	1	1
Vehicle Types Subject to Inspection							
LDGV	2	2	2	2	2	2	2
LDGT1	2	2	2	2	2	2	2
LDGT2	2	2	2	2	2	2	2
LDGT3	2	2	2	2	2	2	2
LDGT4	2	2	2	2	2	2	2
HDGV2B	1	1	1	1	1	1	1
HDGV3	1	1	1	1	1	1	1
HDGV4	1	1	1	1	1	1	1
HDGV5	1	1	1	1	1	1	1
HDGV6	1	1	1	1	1	1	1
HDGV7	1	1	1	1	1	1	1
HDGV8A	1	1	1	1	1	1	1
HDGV8B	1	1	1	1	1	1	1
GAS BUS	1	1	1	1	1	1	1

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Table 1c: Anti-Tampering Program Input Parameters

ATP Parameters	1990 Baseline	2005 Uncontrolled Baseline	2005 Adjusted Baseline	2005 Control Strategy
ATP Input Record	None	None	None	Included
Program Start Year				97
First Model Year				75
Last Model Year				50
Vehicle Types Subject to Inspection: (1 = No, 2 = Yes)				
LDGV				2
LDGT1				2
LDGT2				2
LDGT3				2
LDGT4				2
HDGV2B				1
HDGV3				1
HDGV4				1
HDGV5				1
HDGV6				1
HDGV7				1
HDGV8A				1
HDGV8B				1
GAS BUS				1
Program Type: (1 = Test Only, 2 = Test and Repair)				1
Inspection Frequency: (1 = Annual, 2 = Biennial)				1
Compliance Rate (%)				96
Inspections Performed:				
Air Pump System				2
Catalyst Removal				2
Fuel Inlet Restrictor				2
Tailpipe Lead Deposit Test				1
EGR System				2
Evaporative Control System				2
PCV System				2
Gas Cap				2