

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**	South Central Counties: (OBD/GC/ATP) Northern Counties: (GC/ATP) Other 42 Counties: (ATP Only)	South Central Counties: (OBD/GC/ATP) Northern Counties: (GC/ATP) Other 42 Counties: (ATP Only)
Gas Cap Check**	Included	Included
Reformulated Gasoline (RFG)	None	None
Reid Vapor Pressure (RVP)	8.7	8.7
Min/Max Temperatures	68.8/94.4	68.8/94.4
Absolute Humidity	75.0	75.0
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: 2005 & 2007 Inspection/Maintenance Program Input Parameters

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

Table 4: 2005 & 2007 Anti-Tampering Program Input Parameters

ATP Parameters				
	OTR Lite Perfstd	Low Enhanced Perfstd	South Central County Program	Northern County Program
ATP Input Record	Included	Included	Included	Included
Program Start Year	99	95	04	04
First Model Year	75	72	75	75
Last Model Year	50	50	95	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	1	2	2
Catalyst Removal	2	1	2	2
Fuel Inlet Restrictor	1	1	2	2
Tailpipe Lead Deposit Test	1	1	1	1
EGR System	1	2	2	2
Evaporative Control System	1	1	2	2
PCV System	1	1	2	2
Gas Cap	1	1	2	2