APPENDIX D

Documentation of Emission Factor Development

Memorandum

Date:	October 12, 2010
То:	Jane Posey, TPB
From:	Sunil Kumar, MWAQC
Subject:	Documentation for Some MOBILE6 Inputs for 2011, 2020, 2030, and 2040 Ozone Season Day, Winter Season Day, and Annual Inventories for 2010 CLRP & 2011-2016 TIP

The purpose of this memorandum is to document the MOBILE6 inputs related to meteorology, fuel programs, Inspection & Maintenance (I&M) Programs, Anti Tempering Programs (ATP), additional state-specific emissions control programs, and NOx Rebuild Effects, which were used for developing the onroad emission inventories for calendar years 2011, 2020, 2030, and 2040 for the ozone season day, winter season day, and annual analyses for the 2010 CLRP & 2011-2016 TIP analysis. These inputs are being presented below.

Meteorology

Temperature and humidity used in the ozone SIP (May 2007), PM2.5 SIP (March 2008), and CO maintenance plan (September 1995) were used for the ozone season day, winter season day, and annual 2010 CLRP analyses respectively and are being presented below.

Hour	Temperature (°F)	Relative Humidity (%)
1	70.7	84.0
2	74.3	76.5
3	78.6	66.7
4	82.3	59.3
5	85.5	52.9
6	88.1	48.8
7	90.0	45.0
8	91.2	42.1
9	91.9	42.2
10	92.5	43.1
11	92.1	42.3
12	91.0	43.6
13	89.2	47.6
14	86.7	52.3
15	82.8	60.4
16	80.3	67.2
17	78.6	72.2
18	77.7	74.4
19	76.7	78.1
20	75.4	80.9
21	74.9	79.5
22	74.7	79.4
23	74.2	79.3
24	73.6	81.1

Ozone Season Day

Maximum Temperature ($^{\circ}$ **F**) = 33.0 **Minimum Temperature** ($^{\circ}$ **F**) = 53.0

Absolute Humidity (grains/lb) = 75

Annual

Hour	,	Temperature (°F)		Relative Humidity (%)			
	Winter/Season1 (Jan-Apr)	Summer/Season2 (May-Sep)	Fall/Season3 (Oct-Dec)	Winter/Season1 (Jan-Apr)	Summer/Season2 (May-Sep)	Fall/Season3 (Oct-Dec)	
1	36.9	65.7	42.4	72.4	85.1	78.9	
2	37.4	67.6	42.6	71.7	81.0	78.7	
3	38.9	69.9	43.9	68.2	76.0	77.1	
4	41.2	72.3	46.3	63.4	70.4	71.6	
5	43.4	74.5	48.8	58.1	65.1	65.8	
6	45.5	76.3	50.7	54.2	60.6	60.8	
7	47.2	77.9	52.4	50.7	57.6	56.6	
8	48.6	78.9	53.6	48.1	55.2	53.9	
9	49.7	79.5	54.2	46.5	53.6	52.7	
10	50.2	79.5	54.3	45.5	53.6	52.6	
11	50.2	79.1	53.7	45.5	54.5	53.9	
12	49.3	78.4	52.0	47.1	55.9	57.2	
13	47.5	76.9	50.1	49.9	59.2	61.7	
14	45.8	74.7	48.8	53.4	64.2	65.1	
15	44.3	72.5	47.7	56.9	69.8	67.5	
16	43.1	71.2	46.9	59.4	73.5	70.4	
17	42.3	69.9	46.3	60.8	76.7	71.6	
18	41.4	68.9	45.6	63.0	79.2	73.4	
19	40.6	68.0	45.0	65.0	81.1	74.9	
20	39.8	67.3	44.6	66.5	82.5	75.8	
21	39.0	66.6	44.1	68.0	83.5	76.8	
22	38.2	66.2	43.6	69.3	84.3	78.1	
23	37.6	65.8	43.2	71.0	84.7	78.1	
24	37.2	65.3	42.7	72.0	85.5	79.1	

Barometric Pressure (inches of mercury (Hg) – 29.9 (All three seasons)

Fuel Programs

Separate sets of input files were created to model emission factors corresponding to travel in the COG region for each analysis years 1) on network and local roadways, 2) during auto access to transit, and 3) by diesel transit and school buses. While network, local, and auto-access facilities were modeled on a county level, buses were modeled on a regional level. For this reason, two separate sets of fuel programs were developed and are being provided below. Ether & Ethanol oxygen content and market share data are based on the Energy Policy Act (20050 and therefore common for network, local, and auto-access facilities and buses.

Network, Local, Auto-Access

	DC - RFG ^a			MD - RFG Counties		MD - NonRFG Counties	VA - RFG Counties		VA - NonRFG Counties		
Season	Gas S ^b (ppm)	RVP	HWY Diesel S (ppm)	Gas S (ppm)	RVP	HWY Diesel S (ppm)	RVP	Gas S (ppm)	RVP	HWY Diesel S (ppm)	RVP
Winter	30.0	10.2	11.0	30.0	11.6	14.8	12.1	30.0	12.9	11.0	12.9
Summer/ Ozone Season	30.0	6.8	11.0	30.0	6.9	8.8	8.2	30.0	6.8	11.0	8.4
Fall	30.0	10.1	11.0	30.0	10.9	9.7	11.5	30.0	12.9	11.0	12.9

^a RFG = Reformulated Gasoline ^b S = Sulfur

Notes:

- Season average RVP values were developed from monthly RVP values provided by states. 1.
- 2. Gas & Highway Diesel Sulfur values are Mob6 defaults except for Maryland, which provided its own monthly Highway Diesel Sulfur values (email from M. Khan, MDE dt. 03.10.09).

Bus

Season	Gas S (ppm)	RVP	HWY Diesel S (ppm)
Winter	30.0	12.1	12.5
Summer/ Ozone Season	30.0	6.9	10.1
Fall	30.0	11.8	10.5

Network, Local, Auto-Access, & Bus

Season	Ether Oxy. Content (% by wt)	Ether Market Share (%)	Ethanol Oxy. Content (% by wt.)	Ethanol Market Share (%)		
Winter	0.0	0.0	3.5	100.0		
Summer/ Ozone Season	0.0	0.0	3.5	100.0		
Fall	0.0	0.0	3.5	100.0		
Note: Ether & Ethanol Oxygen Content and Market Share data are based on Energy Policy Act (2005).						

I/M Programs

Details of the format for the I/M programs listed here can found in the Mobile6 model user guide.

District of Columbia

* Inspection and Maintenance (I/M) Source File - DCpost2004.IM

* FEBRUARY 8, 2006

* District of Columbia's I/M input parameters for MOBILE6 for year 2004 and beyond:

* The actual start date of the IM240 was 1999

* The actual start date of the OBD testing was 2004

* The dates used below for IM240 and OBD testing are needed to obtain the appropriate I/M credit in MOBILE6.

> Exhaust I/M - LDV pre-83 MY IDLE test program #1
I/M PROGRAM : 1 1983 2050 2 T/O IDLE
I/M MODEL YEARS : 1 1972 1983
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 20.0
I/M COMPLIANCE : 1 96.0
I/M WAIVER RATES : 1 3.0 3.0
I/M EXEMPTION AGE : 1 25.0

> Exhaust I/M - LDV MY 84-95 IM240 test program #2 (DC IM240 Start:1999)
I/M PROGRAM : 2 1983 2050 2 T/O IM240
I/M MODEL YEARS : 2 1984 1995
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 20.0
I/M COMPLIANCE : 2 96.0
I/M WAIVER RATES : 2 3.0 3.0
I/M CUTPOINTS : 2 IM_ATP\DC.C02
I/M EXEMPTION AGE : 2 25.0

> Exhaust I/M - LDV post-96 MY OBD test program #4(DC OBD Start:Jan 2004)
I/M PROGRAM : 4 1983 2050 2 T/O OBD I/M
I/M MODEL YEARS : 4 1996 2050
I/M VEHICLES : 4 22222 11111111 1
I/M STRINGENCY : 4 20.0
I/M COMPLIANCE : 4 96.0
I/M WAIVER RATES : 4 3.0 3.0
I/M EXEMPTION AGE : 4 25.0

> Evap I/M - LDV post-96 OBD Evap test program #5(DC OBD Start:Jan 2004)
I/M PROGRAM : 5 1999 2050 2 T/O EVAP OBD & GC
I/M MODEL YEARS : 5 1996 2050
I/M VEHICLES : 5 22222 11111111 1
I/M STRINGENCY : 5 20.0
I/M COMPLIANCE : 5 96.0
I/M WAIVER RATES : 5 3.0 3.0
I/M EXEMPTION AGE : 5 25.0

> Exhaust I/M - HDGV IDLE program #6
I/M PROGRAM : 6 1983 2050 2 T/O IDLE
I/M MODEL YEARS : 6 1972 2050
I/M VEHICLES : 6 11111 22222111 1
I/M STRINGENCY : 6 20.0
I/M COMPLIANCE : 6 96.0
I/M WAIVER RATES : 6 3.0 3.0
I/M EXEMPTION AGE : 6 25.0

Maryland

>IM Program as described in post-2009 RFP. Idle, OBD, and Mandatory Gas Cap for Non-OBD Vehicles. >Waiver rates based on rates observed for January - June 2006 initial tests through 18 months after testing. >Gas Cap waver rate is performance standard. >Stringency based on July - December 2007

*Idle older LDGV, LDGT
I/M PROGRAM : 1 1984 2050 2 T/O Idle
I/M MODEL YEARS : 1 1977 1995
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 17.9
I/M COMPLIANCE : 1 96.0
I/M WAIVER RATES : 1 13.7 13.7
I/M GRACE PERIOD : 1 2

*Idle HDGT
I/M PROGRAM : 2 1984 2050 2 T/O Idle
I/M MODEL YEARS : 2 1977 2050
I/M VEHICLES : 2 11111 22222111 1
I/M STRINGENCY : 2 17.9
I/M COMPLIANCE : 2 96.0
I/M WAIVER RATES : 2 13.7 13.7
I/M GRACE PERIOD : 2 2

*OBD
I/M PROGRAM : 3 1984 2050 2 T/O OBD I/M
I/M MODEL YEARS : 3 1996 2050
I/M VEHICLES : 3 22222 11111111 1
I/M STRINGENCY : 3 17.9
I/M COMPLIANCE : 3 96.0
I/M WAIVER RATES : 3 6.3 6.3
I/M GRACE PERIOD : 3 2

*OBD Evap (Actual Start Year: July 2002)
I/M PROGRAM : 4 2002 2050 2 T/O EVAP OBD
I/M MODEL YEARS : 4 1996 2050
I/M VEHICLES : 4 22222 11111111 1
I/M COMPLIANCE : 4 96.0
I/M WAIVER RATES : 4 6.3 6.3
I/M GRACE PERIOD : 4 2

*Gas Cap older LDGV, LDGT
I/M PROGRAM : 5 2009 2050 2 T/O GC
I/M MODEL YEARS : 5 1977 1995
I/M VEHICLES : 5 22222 11111111 1
I/M COMPLIANCE : 5 96.0
I/M WAIVER RATES : 5 3.0 3.0
I/M GRACE PERIOD : 5 2

*Gas Cap HDGT
I/M PROGRAM : 6 2009 2050 2 T/O GC
I/M MODEL YEARS : 6 1977 2050
I/M VEHICLES : 6 11111 22222111 1
I/M COMPLIANCE : 6 96.0
I/M WAIVER RATES : 6 3.0 3.0
I/M GRACE PERIOD : 6 2

<u>Virginia</u>

Alexandria, Arlington County, Fairfax County, and Prince William

* Virginia's 2009 I/M programs for Alexandria, Arlington County, Fairfax County, and Prince William County.
* I/M Effectiveness reported in Program #3 applies to all exhaust programs modeled as TRC.
* First 4 years exempt.

> Exhaust I/M - IDLE test program #1
I/M PROGRAM : 1 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 1 1968 1980
I/M VEHICLES : 1 22222 21111111 1
I/M STRINGENCY : 1 35
I/M COMPLIANCE : 1 98.0
I/M WAIVER RATES : 1 2.5 2.5
I/M EXEMPTION AGE : 1 24

> Exhaust I/M - ASM final program #2
I/M PROGRAM : 2 1983 2050 2 TRC ASM 2525/5015 FINAL
I/M MODEL YEARS : 2 1981 1995
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 35
I/M COMPLIANCE : 2 98.0
I/M WAIVER RATES : 2 2.5 2.5
I/M EXEMPTION AGE : 2 24

> Exhaust I/M - OBD test program #3
I/M PROGRAM : 3 1983 2050 2 TRC OBD I/M
I/M MODEL YEARS : 3 1996 2050
I/M VEHICLES : 3 22222 11111111 1
I/M STRINGENCY : 3 35
I/M COMPLIANCE : 3 98.0
I/M WAIVER RATES : 3 2.5 2.5
I/M EXEMPTION AGE : 3 24
I/M EFFECTIVENESS : 0.94 0.94 0.94
I/M GRACE PERIOD : 3 4

> Evap I/M - Evap OBD test program #4
I/M PROGRAM : 4 1998 2050 2 TRC EVAP OBD & GC
I/M MODEL YEARS : 4 1996 2050
I/M VEHICLES : 4 22222 11111111 1
I/M COMPLIANCE : 4 98.0
I/M WAIVER RATES : 4 2.5 2.5
I/M EXEMPTION AGE : 4 24
I/M GRACE PERIOD : 4 4

> Evap I/M - Gas Cap test program #5
I/M PROGRAM : 5 1998 2050 2 TRC GC
I/M MODEL YEARS : 5 1973 1995
I/M VEHICLES : 5 22222 11111111 1
I/M COMPLIANCE : 5 98.0
I/M WAIVER RATES : 5 2.5 2.5
I/M EXEMPTION AGE : 5 24

> Exhaust I/M - IDLE test program #6
I/M PROGRAM : 6 1983 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 6 1981 2050
I/M VEHICLES : 6 11111 21111111 1
I/M STRINGENCY : 6 35
I/M COMPLIANCE : 6 98.0
I/M WAIVER RATES : 6 2.5 2.5
I/M EXEMPTION AGE : 6 24
I/M GRACE PERIOD : 64

> Evap I/M - Gas Cap test program #7
I/M PROGRAM : 7 1998 2050 2 TRC GC
I/M MODEL YEARS : 7 1973 2050
I/M VEHICLES : 7 11111 21111111 1
I/M COMPLIANCE : 7 98.0
I/M WAIVER RATES : 7 2.5 2.5
I/M EXEMPTION AGE : 7 24
I/M GRACE PERIOD : 7 4

Loudoun and Stafford

* Virginia's 2009 I/M programs for Loudoun and Stafford Counties.
* I/M Effectiveness reported in Program #3 applies to all exhaust programs modeled as TRC.
* First 4 years exempt.

> Exhaust I/M - IDLE test program #1
I/M PROGRAM : 1 1998 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 1 1968 1980
I/M VEHICLES : 1 22222 21111111 1
I/M STRINGENCY : 1 35
I/M COMPLIANCE : 1 98.0
I/M WAIVER RATES : 1 2.5 2.5
I/M EXEMPTION AGE : 1 24

> Exhaust I/M - ASM final program #2
I/M PROGRAM : 2 1998 2050 2 TRC ASM 2525/5015 FINAL
I/M MODEL YEARS : 2 1981 1995
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 35
I/M COMPLIANCE : 2 98.0
I/M WAIVER RATES : 2 2.5 2.5
I/M EXEMPTION AGE : 2 24

> Exhaust I/M - OBD test program #3
I/M PROGRAM : 3 1998 2050 2 TRC OBD I/M
I/M MODEL YEARS : 3 1996 2050
I/M VEHICLES : 3 22222 11111111 1
I/M STRINGENCY : 3 35
I/M COMPLIANCE : 3 98.0
I/M WAIVER RATES : 3 2.5 2.5
I/M EXEMPTION AGE : 3 24
I/M EFFECTIVENESS : 0.94 0.94 0.94
I/M GRACE PERIOD : 3 4

> Evap I/M - Evap OBD test program #4
I/M PROGRAM : 4 1998 2050 2 TRC EVAP OBD & GC
I/M MODEL YEARS : 4 1996 2050
I/M VEHICLES : 4 22222 11111111 1
I/M COMPLIANCE : 4 98.0
I/M WAIVER RATES : 4 2.5 2.5
I/M EXEMPTION AGE : 4 24
I/M GRACE PERIOD : 4 4

> Evap I/M - Gas Cap test program #5
I/M PROGRAM : 5 1998 2050 2 TRC GC
I/M MODEL YEARS : 5 1973 1995
I/M VEHICLES : 5 22222 11111111 1
I/M COMPLIANCE : 5 98.0
I/M WAIVER RATES : 5 2.5 2.5
I/M EXEMPTION AGE : 5 24

> Exhaust I/M - IDLE test program #6
I/M PROGRAM : 6 1998 2050 2 TRC 2500/IDLE
I/M MODEL YEARS : 6 1981 2050
I/M VEHICLES : 6 11111 21111111 1
I/M STRINGENCY : 6 35
I/M COMPLIANCE : 6 98.0
I/M WAIVER RATES : 6 2.5 2.5
I/M EXEMPTION AGE : 6 24
I/M GRACE PERIOD : 6 4

> Evap I/M - Gas Cap test program #7
I/M PROGRAM : 7 1998 2050 2 TRC GC
I/M MODEL YEARS : 7 1973 2050
I/M VEHICLES : 7 11111 21111111 1
I/M COMPLIANCE : 7 98.0
I/M WAIVER RATES : 7 2.5 2.5
I/M EXEMPTION AGE : 7 24
I/M GRACE PERIOD : 7 4

<u>Cut-Points</u>

District of Columbia

Details of the format for the cut-points listed here can found in the Mobile6 model user guide.

Calendar Year: 2011

- * District of Columbia IM cutpoints applies to calendar year 2011
 * Air Quality Division, District Department of the Environment

I/M CU	JTPO	INTS								
* Mod	el Yea	ırs								
* 11	10	09	08	07	06	05	04	03	02	
* 01	00	99	98	97	96	95	94	93	92	
* 91	90	89	88	87						

* Block 1 (LDGV, Light LDGT1(EPA LD1))
0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800
0.800 0.800 0.800 0.800 0.800 0.800 1.200 1.200 1.200 1.200
1.200 2.000 2.000 2.000 2.000
15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000
15.000 15.000 15.000 15.000 15.000 15.000 20.000 20.000 20.000 20.000
20.000 30.000 30.000 30.000 30.000
2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000
2.000 2.000 2.000 2.000 2.000 2.000 2.500 2.500 2.500 2.500
2.500 3.000 3.000 3.000 3.000

* Block 2 (Heavy LDGT1, Light LDGT2 (EPA LD2&3))
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 2.400 2.400 2.400 2.400
2.400 3.200 3.200 3.200 3.200
20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000
20.000 20.000 20.000 20.000 20.000 20.000 60.000 60.000 60.000 60.000
60.000 80.000 80.000 80.000 80.000
2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500
2.500 2.500 2.500 2.500 2.500 2.500 3.000 3.000 3.000 3.000
3.000 3.500 3.500 3.500 7.000

* Block 3 (Heavy LDGT2(EPA LD4))
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 3.200 3.200 3.200 3.200
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 80.000 80.000 80.000 80.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 4.000 4.000 4.000 4.500 4.500 4.500 4.500
4.500 5.000 5.000 5.000 7.000

* Block 4 (HDGV)
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 2.400 3.000 3.000 3.000 3.000 3.000 3.000
3.000 3.200 3.200 3.200 3.200
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 80.000 80.000 80.000 80.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 4.000 6.000 6.000 6.000 6.000 6.000 6.000
6.000 8.000 8.000 8.000 8.000

Calendar Year: 2020

- * District of Columbia IM cutpoints applies to calendar year 2020
 * Air Quality Division, District Department of the Environment
- >

I/M CUTPOINTS * Model Years * 20 * 10 * 00

* Block 1 (LDGV, Light LDGT1(EPA LD1))
0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800
0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800
0.800 0.800 0.800 0.800 0.800
15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000
15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000
15.000 15.000 15.000 15.000 15.000
2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000
2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000
2.000 2.000 2.000 2.000 2.000

* Block 2 (Heavy LDGT1, Light LDGT2 (EPA LD2&3))
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
1.000 1.000 1.000 1.000 1.000
20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000
20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000 20.000
20.000 20.000 20.000 20.000 20.000
2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500
2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500 2.500
2.500 2.500 2.500 2.500 2.500

* Block 3 (Heavy LDGT2(EPA LD4))
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 2.400 2.400
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000 60.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 4.000 4.000

* Block 4 (HDGV)
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400 2.400
2.400 2.400 2.400 3.000 3.000
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000 60.000
60.000 60.000 60.000 60.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000 4.000
4.000 4.000 4.000 6.000 6.000

Calendar Year: 2030

* District of Columbia IM cutpoints - applies to calendar year 2030
 * Air Quality Division, District Department of the Environment

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I/M CU	JTPO	INTS									
* Mode	el Yea	rs									
* 30	29	28	27	26	25	24	23	22	21		
* 20	19	18	17	16	15	14	13	12	11		
* 10	09	08	07	06							

* Block 1 (LDGV, Light LDGT1(EPA LD1))
0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800
0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800 0.800
0.800 0.800 0.800 0.800 0.800
15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000 15.000
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* Block 2 (Heavy LDGT1, Light LDGT2 (EPA LD2&3))
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* Block 3 (Heavy LDGT2(EPA LD4))
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* Block 4 (HDGV)
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Calendar Year: 2040

* District of Columbia IM cutpoints - applies to calendar year 2040
 * Air Quality Division, District Department of the Environment

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I/M CU	JTPO	INTS								 	
* Mod	el Yea	ırs									
* 40	39	38	37	36	35	34	33	32	31		
* 30	29	28	27	26	25	24	23	22	21		
* 20	19	18	17	16							

* Block 1 (LDGV, Light LDGT1(EPA LD1))
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* Block 2 (Heavy LDGT1, Light LDGT2 (EPA LD2&3))
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* Block 3 (Heavy LDGT2(EPA LD4))
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* Block 4 (HDGV)
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Anti-Tempering Programs (ATP)

Anti-tampering	Program	Parameters	for DC
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Program Parameters	Recent Update
Program Start Year	1983
First Model Year	1968
Last Model Year	2050
Program Type	Test Only
Inspection Frequency	Biennial
Compliance Rate (%)	96
LDGV	Yes
LDGT1	Yes
LDGT2	Yes
LDGT3	Yes
LDGT4	Yes
HDGV2B	Yes
HDGV3	Yes
HDGV4	Yes
HDGV5	Yes
HDGV6	Yes
HDGV7	No
HDGV8A	No
HDGV8B	No
GAS BUS	No
Inspections Performed	
Air pump system disablement	No
Catalyst removal	Yes
Fuel inlet restrictor disablement	Yes
Tailpipe lead deposit test	No
EGR disablement	No
Evaporative system disablement	No
PCV system disablement	No
Missing gas cap	Yes

Program Parameters	Recent Update ^{**}
Program Start Year	1989
First Model Year	1977
Last Model Year	2050
Program Type	Test Only
Inspection Frequency	Biennial
Compliance Rate (%)	96
Vehicle Types	
LDGV	Yes
LDGT1	Yes
LDGT2	Yes
LDGT3	Yes
LDGT4	Yes
HDGV2B	Yes
HDGV3	Yes
HDGV4	Yes
HDGV5	Yes
HDGV6	Yes
HDGV7	No
HDGV8A	No
HDGV8B	No
GAS BUS	No
Inspections Performed	
Air pump system disablement	No
Catalyst removal	Yes
Fuel inlet restrictor disablement	Yes
Tailpipe lead deposit test	No
EGR disablement	No
Evaporative system disablement	No
PCV system disablement	No
Missing gas cap	Yes

Anti-tampering Program Parameters for Maryland

Program Parameters	Recent Update
Program Start Year	1989**
First Model Year	1968
Last Model Year	2050
Program Type	Test and Repair
	Computerized
Inspection Frequency	Biennial
Compliance Rate (%)	98
Vehicle Types	
LDGV	Yes
LDGT1	Yes
LDGT2	Yes
LDGT3	Yes
LDGT4	Yes
HDGV2B	Yes
HDGV3	No
HDGV4	No
HDGV5	No
HDGV6	No
HDGV7	No
HDGV8A	No
HDGV8B	No
GAS BUS	No
Inspections Performed	
Air pump system disablement	Yes
Catalyst removal	Yes
Fuel inlet restrictor disablement	No
Tailpipe lead deposit test	No
EGR disablement	Yes
Evaporative system disablement	Yes
PCV system disablement	Yes
Missing gas cap	Yes
Virginia's ATP applies to all jurisdic Spotsylvania counties.	tions except Clark an
* ATP start year is 1998 for Loudoun	and Stafford Countion
** Modeled as Test Only (T/O). Per Mo Section 2.8.9.3), EPA no longer suppo enefit discount.	bile6 User's Guide rt test and repair

Anti-tampering Program Parameters for Virginia*

Additional State-Specific Control Programs

Maryland adopted CAL-LEV II program and it is applicable for any evaluation year beginning 2011. Therefore, this program was modeled for all four conformity analysis years. Following auxiliary files provided by the Maryland Department of the Environment (MDE) staff were used to model the above program for Maryland jurisdictions. Details of the format for these auxiliary files can be found in the Mobile6 model user guide.

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LevIIExh.S11 (T2 EXH PHASE-IN)

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0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000

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0.000,0.000,0.000,0.000,0.740,0.740,0.740,1.000,1.000,1.000,1.000,1.000
0.370,0.740,1.000,1.000,0.260,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.630,0.260,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.260,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.260,0.000,0.000,0.000,0.000,0.000
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0.000,0.000,0.000,0.000,0.740,0.740,0.740,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,1.000,1.000,1.000,1.000,1.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.370,0.740,1.000,1.000,0.260,0.260,0.260,0.000,0.000,0.000,0.000,0.000,0.000
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0.630,0.260,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
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0.000,0.000,0.000,0.000,0.740,0.740,0.740,0.000,0.000,0.000,0.000,0.000
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0.370,0.740,1.000,1.000,0.260,0.260,0.260,0.000,0.000,0.000,0.000,0.000,0.000
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0.630,0.260,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
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0.000,0.000,0.000,0.000,0.000,0.000,1.000,1.000,1.000,1.000,1.000
0.000,0.000,0.220,1.000,1.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
1.000,1.000,0.780,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,1.000,1.000,0.000,0.000,0.000,0.000,0.000
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0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.220,1.000,1.000,1.000,1.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
1.000, 1.000, 0.780, 0.000, 0.0
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
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0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,1.000,1.000,1.000,1.000,1.000
0.000,0.000,0.220,1.000,1.000,1.000,1.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
1.000,1.000,0.780,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000
0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000,0.000

LevIIEvp.S11 (T2 EVAP PHASE-IN)

T2 EVAP PHASE-IN
0.25,0.50,0.75,1.00,1.00,1.00,1.00,1.00,1.00,1.00,1.0
0.25,0.50,0.75,1.00,1.00,1.00,1.00,1.00,1.00,1.00,1.0
0.25,0.50,0.75,1.00,1.00,1.00,1.00,1.00,1.00,1.00,1.0
0.00,0.00,0.00,0.00,0.50,1.00,1.00,1.00,
0.00,0.00,0.00,0.00,0.50,1.00,1.00,1.00,

LevIIStd.d (T2 CERT)

	-	T2 CERT		
0.000	0.000	0.000	0.000	0.000
0.007	0.007	0.007	0.007	0.007
0.040	0.040	0.040	0.040	0.040
0.051	0.051	0.051	0.051	0.051
0.040	0.040	0.040	0.040	0.040
0.075	0.075	0.075	0.075	0.075
0.100	0.100	0.100	0.125	0.125
0.075	0.075	0.100	0.140	0.140
0.125	0.125	0.125	0.160	0.195
0.040	0.040	0.050	0.100	0.117
0.075	0.075	0.100	0.160	0.195
0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000
1.700	1.700	1.700	1.700	1.700
1.700	1.700	1.700	1.700	1.700
1.700	1.700	1.700	1.700	1.700
1.700	1.700	1.700	1.700	1.700
3.400	3.400	3.400	3.400	3.400
3.400	3.400	3.400	3.400	3.400
3.400	3.400	3.400	3.400	3.400
3.400	3.400	3.400	3.400	3.400
1.700	1.700	2.200	4.400	5.000
3.400	3.400	4.400	4.400	5.000
0.000	0.000	0.000	0.000	0.000

0.000	0.000	0.000	0.000	0.000
0.014	0.014	0.014	0.014	0.014
0.021	0.021	0.021	0.021	0.021
0.029	0.029	0.029	0.029	0.029
0.050	0.050	0.050	0.050	0.050
0.050	0.050	0.050	0.050	0.050
0.140	0.140	0.140	0.140	0.140
0.200	0.200	0.200	0.200	0.200
0.400	0.400	0.400	0.400	0.400
0.200	0.200	0.400	0.400	0.600
0.200	0.200	0.400	0.400	0.600
0.000	0.000	0.000	0.000	0.000/

LevII94.S11 (94+ LDG IMP)

94+ LDG IMPLEMENTATION

* The data is divided into 5 blocks, one each for LDGV, LDGT1, LDGT2,

* LDGT3, and LDGT4. In each data block there is one data line for each

* calendar year from 1994 to 2025. Each line contains the phase-in

* values for that year for 11 different vehicle standards categories.

* The first column is Tier0 the second is intermediate Tier1, the third

* is Tier1, and the fourth column is Tier2. The remaining columns are

* intermediate TLEV, TLEV, intermediate LEV, LEV, intermediate ULEV, ULEV,

* and ZEV. These are the standards categories defined by the California

* LEV program.

* LDGV
* T0 T1 T1 T2 TLEV TLEV LEV LEV ULEV ULEV ZEV
* (int) (int) (int) (int)
0.6 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.2 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.6 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.2 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.3 0.0 0.0 0.4 0.0 0.3 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.0 0.4 0.0 0.6 0.0 0.0 0.0
0.0 0.0 0.0 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 1.0 0.0 0.0
0.0 0.0 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 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.99 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.0 0.986 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.014
0.0 0.0 0.0 0.986 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.014

0.0 0.0 0.0 0.770 0.0 0.0 0.0 0.0 0.0 0.
* LDGT1
0.0 0.0 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 1.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 0.976 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.024
0.0 0.0 0.0 0.976 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.024
0.0 0.0 0.0 0.976 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.024
0.0 0.0 0.976 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.024
0.0 0.0 0.0 0.976 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.024

* LDGT2
0.6 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.2 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.6 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.2 0.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.3 0.0 0.0 0.4 0.0 0.3 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
* LDGT3
1.0 0.0 0.0 0.0 0.0 0.0 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
0.5 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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 1.0 0.0 0.0 0.0 0.0 0.0 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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
* LD	GT4									
1.0	0.0	0.0	0.0	0.0	0.0	0.0	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
0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

NOx Rebuild Effects

Following NOx rebuild effects percentages were used for all 2010 CLRP analysis years:

Jurisdiction	NOx Rebuild Effects (%)
District of Columbia	0.11
Maryland	0.90
Virginia	0.25
Regional (Average of above three jurisdictions)	0.50
Note: Regional average NOx rebuild effect data modeled on a regional level.	was used for modeling buses, which are

Memo

To:	Air Quality Conformity Files
From:	Eulalie G. Lucas
Date:	10/8/2010
Re:	Inputs to MOBILE6 Emissions Factor Development: Ozone season, Wintertime CO and PM _{2.5} Annual.

Introduction

This memo documents updates to the preparation of mobile emission rates associated with the air quality analysis of the 2010 Constrained Long Range Plan (CLRP) and the FY 2011-2016 Transportation Improvement Plan (TIP). Inputs for this analysis are for typical ozone, winter day and for annual conditions.

Procedures used in the development of MOBILE6.2 inputs decks have not changed and detailed information is available in a January 27, 2003 memo to the Council of Governments (COG) staff from Maureen Mullen of EH Pechan staff. This memo is contained in previous air quality conformity determination reports, e.g., the October 19, 2005 report for the 2005 CLRP and the FY 2006-2011 TIP

Process and Inputs

Development of MOBILE6È input decks is an inter-departmental work task. COG's Department of Environmental Programs (DEP) staff requests non- travel related inputs from the states and the District of Columbia air agency staff. DTP staff incorporates these inputs into MOBILE input decks and the decks are returned to DEP staff for review and approval. Once input files are approved the MOBILE model is executed and emission rates are generated. Rates are then applied along with travel data using COG's post-processor, for all milestone years.

The following tables describe and list either Mobile default values or a reference to a local data source. Table 1 shows command line information specific to the current analysis as well as input requirement with a description of these inputs. Table 2 shows trip length distributions and Table 3 shows LEV implementation schedules for COG's non-attainment areas as described in the one-hour and eight-hour ozone day State Implementation Plans. Table 4 is summary of scenarios by analysis type along with a brief description. Table 5 contains values for the distribution of engine starts for three modes stabilized, cold and hot for each hour of the day, separately for weekdays and weekends. Included in this appendix is a memo from Daivamani Sivasailam documenting 2008 vehicle registration and diesel sales fractions, these two inputs vary by jurisdiction and contribute significantly to emission rates development.

Results

Tables 6, 7 and 8 show Vehicle Miles of Travel (VMT) fractions for the three traffic streams modeled: network, local roads and auto access to transit. MOBILE6.2 default heavy duty truck VMT percents are replaced to represent local conditions for network and local roads. The network traffic stream includes all vehicle types and all facility types. Local roads traffic stream accounts for VMT on facility types that are not represented on our network and has a significantly lower heavy duty truck percent. Auto-access to transit traffic stream represents VMT associated with trips made to access transit and does not include heavy duty trucks. Table 9 shows the percent VMT mix associated with school and transit bus operation. Year 2011 is illustrated here but all milestone years are available upon request.

Updates

Updates specified by the District of Columbia, Maryland and Virginia air management agencies are covered in more detail in Sunil Kumar's memo dated 10/12/2010 included in this Appendix.

Table 1

MOBIL	E62 Run Infor	mation Com	mon to All C	OG Counties				
	For Ozone day, Annual Runs and Winter CO							
-	-		_					

Command	Input	Description
MOBILE6 INPUT FILE	No input required.	Specific to Jurisdiction
REPORT FILE	No input required.	Specifies name for descriptive output file(s).
EMISSIONS TABLE	User-supplied	Specifies a file name for the database output file.
SPREADSHEET	User-supplied	Instructs MOBILE6 to output the average calendar year emission factors in a form suitable for direct input into a spreadsheet program.
POLLUTANTS*	Specific to seasonal runs	Controls which HC, CO, and NOx pollutants will be calculated and output to the database report and descriptive output.
PARTICULATE EF [*]	PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV	Used for seasonal runs particulate matter (PM _{2.5}) and NOx as a precursor for PM _{2.5} .
EXPRESS HC AS VOC	No input required.	Directs MOBILE6 to output exhaust HC as volatile organic compounds.
EXPAND EVAPORATIVE⁺	No input required.	Six evaporative emission types in descriptive output.
EXPAND EXHAUST ⁺	No input required.	Start, running and total exhaust EFs displayed in descriptive output.
NO REFUELING ⁺	No input required.	"zero " for refueling (Stage 2) emissions.
WE DA TRI LEN DI	Varies.	Table 2 Varies by time range
94+ LDG IMP	User-supplied	1994 and later fleet penetration fractions for light- duty gasoline vehicles under the Tier 1, NLEV (or California LEV 1), and Tier 2 standards. Table 3
REBUILD EFFECTS	Values supplied by state air agency staff.	Rebuild program effectiveness rate used to reduce heavy-duty diesel vehicle NOx off-cycle emissions for years 2009 and beyond Vary by state: DC 11%,MD 90%, VA 25%
REG DIST	Vary by jurisdiction	2008 Vehicle Registration specific to jurisdiction for 16 composite vehicles types. Updated every three years. See D. Sivasailam memo attached.
ANTI-TAMP PROG	Vary by state	See S. Kumar memo of 10/12/2010
I/M DESC FILE#	User-supplied	See S. Kumar memo of 10/12/2010
FUEL PROGRAM	Vary by state	See S. Kumar memo of 10/12/2010
OXYGENATED FUELS	Regional Values	See S. Kumar memo of 10/12/2010
TEMPERATURE	Ozone season	See S. Kumar memo of 10/12/2010
	Seasonal	See S. Kumar memo of 10/12/2010
	Winter	See S. Kumar memo of 10/12/2010
DIESEL FRACTIONS	Vary by jurisdiction	See D. Sivasailam memo attached
FUEL RVP	Vary by jurisdiction Ozone season	See S. Kumar memo of 9/12/2010
	Seasonal	See S. Kumar memo of 10/12/2010
HUMIDITY	Ozone season	See S. Kumar memo of 10/12/2010
	Winter CO	See S. Kumar memo of 10/12/2010
	Seasonal	See S. Kumar memo of 10/12/2010
SCENARIO RECORD	Automatically generated.	Allows user to label individual scenario results. Marks start of new scenario. Table 4

CALENDAR YEAR	Varies.	Calendar year of scenario evaluated.	
EVALUATION MONTH	Varies.	Specifies January 1 (1) or July 1 (7) for calendar	
		year of interest.	
ALTITUDE	1	High or low altitude of area evaluated.	
BAROMETRIC PRES*	User-supplied	See S. Kumar memo of 10/12/2010	
AVERAGE SPEED	Varies.	Table 4 Varies by scenario	
SOAK DISTRIBUTION	Regional	Table 5 Varies by operating mode	
VMT FRACTIONS	Varies by jurisdiction.	See Tables 6,7,8,9	
VMT BY FACILITY	FV4.FV for freeway	Values represent MOBILE6 defaults for each	
	ramp; FV3.FV for local	scenario.	
	roads		
DIESEL SULFUR [*]	Varies. by jurisdiction.	See S. Kumar memo of 10/12/2010	
PARTICLE SIZE [*]	Regional	2.5	

+ - Does not apply to PM_{2.5} analysis (Annual runs).
* - Applies only when modeling PM_{2.5}.
- Used when an ATP or I/M control programs are in effect.

Length of Trip	MWCOG Regional Percentage of VMT (%)	MOBILE6 Default Percentage of VMT (%)
< 10 Minutes	10.86	6.74
11 - 20 Minutes	24.98	18.51
21 - 30 Minutes	19.71	16.78
31 - 40 Minutes	13.44	13.11
41 - 50 Minutes	9.29	8.33
> 50 Minutes	21.72	36.53

Table 2Trip Length Distributions

Table 3LEV Implementation Schedule for MWCOG Region

Percentage of New Vehicle Sales							
Model Year	Tier 1	Transitional LEV	LEV	Tier 2			
1999	30	40	30	0			
2000	0	40	60	0			
2001	0	0	100	0			
2002	0	0	100	0			
2003	0	0	100	0			
2004+	0	0	0	100			

Table 4

Summary of Scenarios Modeled in MOBILE6.2 Network, Local roads and Auto Access to Transit, School and Transit bus Analysis: Ozone and winter day and annual runs

Scenario Number	Operating Mode	Facility Type	Average Speed	VMT Fractions	Month\Season Sequence				
Ozone\Winter Analysis									
1-65	Stabilized	Arterial\Collectors	1-65 mph	Network or Auto Access					
66-130	Stabilized	Freeways excluding Ramps	1-65 mph	Network or Auto Access					
131	Stabilized	Freeway Ramps	34.6 mph	Network or Auto Access					
132	Cold	Local Roadways	12.9 mph	Network or Auto Access					
133	Hot	Local Roadways	12.9 mph	Network or Auto Access					
134	Stabilized	Local Roadways	12.9 mph	Network or Auto Access					
135-179*	Stabilized	Local Roadways as Arterial	1-45 mph	Local					
		Season	al Analysis						
1-195	Stabilized	Arterial\Collectors	1-65 mph	Network or Auto Access	I-3				
196-390	Stabilized	Freeways excluding Ramps	1-65 mph	Network or Auto Access	I-4				
391-393	Stabilized	Freeway Ramps	34.6 mph	Network or Auto Access	I-3				
394-402	Cold	Local Roadways	12.9 mph	Network or Auto Access	I-3 (for each season, data				
	Hot	Local Roadways	12.9 mph	Network or Auto Access	sequence is as follow: cold,				
	Stabilized	Local Roadways	12.9 mph	Local or Auto Access	hot, then stabilized)				
403-537*	Stabilized	Local Roadways as Arterial	I-45 mph	Local					
		Transit ar	nd School Bus						
1-65	Stabilized	Arterial/Collectors	1-65 mph	100%	Ozone, winter, annual				
66	Stabilized	Freeway Ramps	34.6 mph	100%	Ozone, winter, annual				
67	Stabilized	Local Road	12.9 mph	100%	Ozone, winter, annual				
Notes: 1. Seaso	n: I – January th	ı ru April; 2 – May thru Sept	ember: 3 – Octob	er thru December					

Season: 1 – January thru April; 2 – May thru Sept
 * - Applies to network and local road types only.

Table 5 Soak Distributions

Stabilized Operating Mode

SOAK DISTR	RIBUTIC	DN							
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*1.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00 24	4*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*1.00

Cold Start Operating Mode

SOAK DISTRIBUTION				
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	24*0.00 24*0.00	24*1.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	0 24*0.00 24*0.00	24*0.00 24*0.00	24*0.00
24*0.00 24*0.00 24*0.0	0 24*0.00 24*0.0	24*0.00 24*0.00	24*1.00 24*0.00	24*0.00

Hot Start Operating Mode

SOAK DIS	STRIBUTIO	NC							
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*1.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*1.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00
24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00	24*0.00

					2011	LSummer	VMT Mix Fra	ctions				
Vehicle Type	DC		M	aryland Co	unties				Virgini	a Counties	6	
	DC	Calvert	Charles	Frederick	Montgomery	Prince Ge	Alexandria	Arlington	Fairfax	Loudon	Prince William	Stafford
LDGV	0.3367	0.3425	0.3436	0.3439	0.3334	0.3403	0.3325	0.3349	0.3336	0.3335	0.3367	0.3389
LDGT1	0.0873	0.0889	0.0850	0.0855	0.0875	0.0854	0.0825	0.0867	0.0884	0.0887	0.0892	0.0934
LDGT2	0.3237	0.3153	0.3166	0.3198	0.3247	0.3191	0.3277	0.3238	0.3231	0.3229	0.3200	0.3110
LDGT3	0.1085	0.1076	0.1092	0.1065	0.1112	0.1098	0.1127	0.1107	0.1108	0.1105	0.1094	0.1039
LDGT4	0.0531	0.0554	0.0552	0.0541	0.0532	0.0549	0.0543	0.0534	0.0535	0.0540	0.0540	0.0478
HDGV2B	0.0211	0.0202	0.0192	0.0198	0.0195	0.0184	0.0200	0.0198	0.0197	0.0197	0.0194	0.0196
HDGV3	0.0012	0.0009	0.0008	0.0009	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0007
HDGV4	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0002
HDGV5	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007
HDGV6	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0016
HDGV7	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0007
HDGV8A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV8B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDDV	0.0007	0.0009	0.0009	0.0009	0.0009	0.0009	0.0006	0.0008	0.0008	0.0008	0.0008	0.0033
LDDT12	0.0004	0.0003	0.0004	0.0004	0.0004	0.0004	0.0005	0.0004	0.0005	0.0005	0.0004	0.0111
HDDV2B	0.0060	0.0087	0.0083	0.0084	0.0084	0.0078	0.0074	0.0072	0.0073	0.0072	0.0071	0.0059
HDDV3	0.0016	0.0021	0.0020	0.0021	0.0019	0.0018	0.0017	0.0016	0.0017	0.0018	0.0018	0.0018
HDDV4	0.0018	0.0018	0.0018	0.0019	0.0019	0.0018	0.0019	0.0018	0.0019	0.0019	0.0018	0.0021
HDDV5	0.0026	0.0020	0.0020	0.0020	0.0020	0.0019	0.0017	0.0018	0.0019	0.0020	0.0019	0.0010
HDDV6	0.0059	0.0066	0.0059	0.0066	0.0064	0.0067	0.0072	0.0060	0.0061	0.0061	0.0064	0.0048
HDDV7	0.0061	0.0045	0.0057	0.0054	0.0058	0.0059	0.0049	0.0044	0.0056	0.0055	0.0063	0.0069
HDDV8A	0.0080	0.0078	0.0079	0.0078	0.0079	0.0083	0.0078	0.0082	0.0082	0.0082	0.0081	0.0084
HDDV8B	0.0285	0.0280	0.0291	0.0278	0.0280	0.0294	0.0290	0.0308	0.0293	0.0292	0.0288	0.0293
MC	0.0049	0.0047	0.0047	0.0046	0.0044	0.0048	0.0043	0.0045	0.0045	0.0044	0.0047	0.0047
HDGB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
DDT34	0.0008	0.0006	0.0006	0.0006	0.0006	0.0005	0.0011	0.0009	0.0009	0.0009	0.0008	0.0022

Table 62011 Summer VMT Mix Fractions for Network Analysis

	2011 Summer VMT Mix Fractions											
Vehicle Type	DC			Maryland	l Counties				Virgini	a Counties	5	
	DC	Calvert	Charles	Frederick	Montgomery	Prince George's	Alexandria	Arlington	Fairfax	Loudon	Prince William	Stafford
LDGV	0.3608	0.3671	0.3681	0.3684	0.3573	0.3646	0.3563	0.3589	0.3575	0.3574	0.3609	0.3632
LDGT1	0.0936	0.0953	0.0911	0.0916	0.0937	0.0915	0.0884	0.0930	0.0947	0.0950	0.0956	0.1001
LDGT2	0.3469	0.3378	0.3393	0.3427	0.3479	0.3419	0.3511	0.3470	0.3463	0.3460	0.3429	0.3332
LDGT3	0.1163	0.1152	0.1170	0.1140	0.1191	0.1175	0.1207	0.1185	0.1188	0.1184	0.1172	0.1113
LDGT4	0.0569	0.0594	0.0592	0.0580	0.0570	0.0589	0.0582	0.0572	0.0574	0.0579	0.0579	0.0511
HDGV2B	0.0046	0.0044	0.0042	0.0043	0.0043	0.0040	0.0044	0.0043	0.0043	0.0043	0.0042	0.0043
HDGV3	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
HDGV4	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0000
HDGV5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002
HDGV6	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0004
HDGV7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001
HDGV8A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV8B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDDV	0.0008	0.0009	0.0010	0.0010	0.0009	0.0010	0.0007	0.0008	0.0008	0.0008	0.0008	0.0035
LDDT12	0.0004	0.0004	0.0004	0.0004	0.0005	0.0004	0.0005	0.0005	0.0005	0.0005	0.0005	0.0119
HDDV2B	0.0013	0.0019	0.0018	0.0018	0.0018	0.0017	0.0016	0.0016	0.0016	0.0016	0.0016	0.0013
HDDV3	0.0003	0.0004	0.0004	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
HDDV4	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0005
HDDV5	0.0006	0.0005	0.0005	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0005	0.0004	0.0002
HDDV6	0.0013	0.0015	0.0013	0.0014	0.0014	0.0015	0.0016	0.0013	0.0013	0.0013	0.0014	0.0010
HDDV7	0.0014	0.0010	0.0013	0.0012	0.0013	0.0013	0.0011	0.0010	0.0012	0.0012	0.0014	0.0016
HDDV8A	0.0017	0.0017	0.0017	0.0017	0.0017	0.0018	0.0017	0.0018	0.0018	0.0018	0.0018	0.0018
HDDV8B	0.0062	0.0061	0.0063	0.0062	0.0061	0.0065	0.0063	0.0066	0.0064	0.0064	0.0063	0.0063
MC	0.0052	0.0050	0.0050	0.0049	0.0047	0.0052	0.0046	0.0049	0.0048	0.0047	0.0050	0.0050
HDGB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDDT34	0.0008	0.0006	0.0006	0.0006	0.0007	0.0006	0.0012	0.0009	0.0009	0.0010	0.0009	0.0024

 Table 7

 2011 Summer VMT Mix Fractions for Local Analysis

Table 8
2011 Summer VMT Mix Fractions for Auto Access to Transit Analysis

					201	1 Summer	VMT Mix Fra	actions				
Vehicle Type	DC		Μ	aryland Co	unties		Virginia Counties					
	DC	Calvert	Charles	Frederick	Montgomery	Prince Ge	Alexandria	Arlington	Fairfax	Loudon	Prince William	Stafford
LDGV	0.3675	0.3738	0.3750	0.3753	0.3640	0.3715	0.3699	0.3655	0.3642	0.3641	0.3641	0.3699
LDGT1	0.0953	0.0971	0.0928	0.0933	0.0954	0.0931	0.1020	0.0947	0.0965	0.0968	0.0968	0.1020
LDGT2	0.3534	0.3441	0.3456	0.3491	0.3544	0.3483	0.3394	0.3534	0.3527	0.3524	0.3524	0.3394
LDGT3	0.1185	0.1174	0.1192	0.1162	0.1214	0.1197	0.1133	0.1207	0.1209	0.1206	0.1206	0.1133
LDGT4	0.0580	0.0605	0.0603	0.0591	0.0580	0.0600	0.0521	0.0583	0.0584	0.0590	0.0590	0.0521
HDGV2B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV8A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDGV8B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDDV	0.0008	0.0010	0.0010	0.0010	0.0009	0.0010	0.0036	0.0009	0.0009	0.0008	0.0008	0.0036
LDDT12	0.0004	0.0004	0.0004	0.0004	0.0005	, 0.0004	0.0121	0.0005	0.0005	0.0005	0.0005	0.0121
HDDV2B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV3	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV4	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV6	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV7	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV8A	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDV8B	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
MC	0.0053	0.0051	0.0051	0.0050	0.0048	0.0053	0.0051	0.0050	0.0049	0.0048	0.0048	0.0051
HDGB	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
HDDBS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
LDDT34	0.0008	0.0006	0.0006	0.0006	0.0007	0.0006	0.0024	0.0010	0.0010	0.0010	0.0010	0.0024

Table 92011 VMT Mix FractionsFor School Bus and Transit Bus Analysis

Vahiala	VMT Mix F	ractions
Туре	School Bus	Transit Bus
LDV	0.0000	0.0000
LDT1	0.0000	0.0000
LDT2	0.0000	0.0000
LDT3	0.0000	0.0000
LDT4	0.0000	0.0000
HDV2B	0.0000	0.0000
HDV3	0.0000	0.0000
HDV4	0.0000	0.0000
HDV5	0.0000	0.0000
HDV6	0.0000	0.0000
HDV7	0.0000	0.0000
HDV8A	0.0000	0.0000
HDV8B	0.0000	0.0000
HDBS	1.0000	0.0000
HDBT	0.0000	1.0000
MC	0.0000	0.0000

National Capital Region Transportation Planning Board

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October 12, 2010

To:	Air Quality Conformity Files
From:	Daivamani Sivasailam Principal Transportation Engineer
Subject:	Development of vehicle age distributions and diesel vehicle percentages for Mobile 6.2 model using VIN decoder software – 2008 Registration Data

Introduction

This memorandum summarizes the methodology used, and the results obtained, in developing Mobile 6 input files of vehicle characteristics data summarized from 2008 District of Columbia, Maryland and Virginia vehicle registration data. EPA's Mobile 6 model requires age distribution (1-25+ years) and diesel fueled vehicle percentages for 16 separate vehicle types (passenger cars, motorcycles, light trucks, and heavy trucks in ascending weight categories). The model then generates 28 vehicle types by applying the diesel percentages to the relevant vehicle types. This work continues the cycle of obtaining consistent vehicle registrations on a 3 year basis. These results will be used in the development of the mobile source emissions inventories for the air quality conformity assessment of 2009 Constrained Long Range Plan (CLRP) and FY 2010-2015 Transportation Improvement Program.

Background

In 2005, Department of Transportation Planning staff embarked on the use of VIN decoder software to develop registration and diesel sales percentages. Similarly during the Summer of 2008 the newest version of the software was purchased and registration data were obtained from the three state air agencies as of July 1, 2008. Using an approach similar to the 2005 exercise staff successfully decoded the VIN numbers and developed jurisdictional level vehicle age distribution and diesel sales fraction files.

Committee Review

Several conference calls and meetings were held with air and transportation department representatives to discuss the results, and a number of changes were suggested to improve the vehicle age distributions and diesel vehicle percentages. Changes to the procedures as compared to the 2005 exercise are listed below.

1) Vehicles Aged 25 Years and Older:

Since the VIN decoder software could not fully decode vehicles manufactured prior to 1981, staff used the registration data base (which contained control totals of total number of vehicle registrations by model year) to identify the total number of vehicles that were 25 years and older. These vehicles were then distributed among the 16 vehicle types using the vehicle type distribution of vehicles aged 25 through 27 that were decoded using the software.

2) Aggregation of Diesel Fractions by Jurisdiction

In Maryland and Northern Virginia, age distributions by vehicle type were developed at the county level. However, diesel percentages by vehicle type were aggregated to represent all counties in Maryland, and all jurisdictions in Northern Virginia. The District's data, due to an under-representation of vehicles for some types, were combined with the urban jurisdictions of Montgomery, Prince George's, Alexandria, Arlington and Fairfax to develop diesel vehicle percentages for the District of Columbia. For school bus and transit bus there is a single regional diesel fraction file.

Detailed Documentation

Three individual detailed memoranda, one each for the District of Columbia, Maryland, and Virginia, have been prepared and are available upon request. These memos detail the work activities including control totals, data tables, and charts of the age distribution and diesel vehicle fractions for each vehicle type.

Final Input Files

Attached are the final input files (XX.RDT) and (XX.DSF) for the Mobile 6.2 model prepared using the vehicle registration data. Attachments

* LDV									
0.1468	0.1295	0.0726	0.0577	0.0572	0.0633	0.0595	0.0567	0.0568	0.0469
0.0409	0.0382	0.0292	0.0300	0.0228	0.0186	0.0140	0.0109	0.0100	0.0064
0.0046	0.0036	0.0026	0.0021	0.0189					
* LDT1									
0.0251	0.0689	0.0589	0.0562	0.0328	0.1214	0.1104	0.0962	0.0536	0.0645
0.0711	0.0787	0.0483	0.0120	0.0077	0.0055	0.0066	0.0087	0.0044	0.0077
0.0068	0.0066	0.0077	0.0000	0.0403					
* LDT2									
0.1637	0.1608	0.0731	0.0731	0.0766	0.0630	0.0620	0.0556	0.0503	0.0414
0.0376	0.0301	0.0229	0.0220	0.0169	0.0110	0.0069	0.0058	0.0040	0.0037
0.0031	0.0017	0.0018	0.0009	0.0120					
* LDT3	58(7 - 512-72-9)	1125 - 30 SUBARI		OF UNCARENTS	100 80 33 740	12. 22.02.01	St. Comment	co interne	
0.1798	0.1351	0.1007	0.0783	0.0772	0.0729	0.0605	0.0526	0.0511	0.0435
0.0263	0.0195	0.0166	0.0158	0.0147	0.0078	0.0068	0.0046	0.0043	0.0051
0.0036	0.0021	0.0017	0.0017	0.0176					
* LDT4		10.000		2 22 22	100 100 1				
0.2031	0.2115	0.0685	0.0785	0.0862	0.0714	0.0352	0.0379	0.0454	0.0479
0.0337	0.0282	0.0077	0.0073	0.0128	0.0042	0.0031	0.0005	0.0031	0.0026
0.0026	0.0020	0.0020	0.0000	0.0048					
* HDV21	0 0005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0100		0.0001
0.1247	0.0906	0.0787	0.0861	0.0705	0.0732	0.0656	0.0489	0.0615	0.0391
0.0226	0.0342	0.0225	0.0330	0.0181	0.0133	0.0108	0.0045	0.0054	0.0060
U.U143	0.0104	0.0102	0.0058	0.0500					
- HDV3	0 0745	0 0000	0 0000	0 0515	0.0004	0.0475	0 0200	0.0505	0.0465
0.1174	0.0741	0.0969	0.0896	0.0515	0.0804	0.0477	0.0398	0.0695	0.0465
0.0256	0.0277	0.0109	0.0532	0.0239	0.0068	0.0051	0.0138	0.0088	0.0084
* UDVA	0.0101	0.0127	0.0042	0.048/					
n 0200	0 0006	0 1707	0 0461	0 0200	0 0576	0 0622	0 0622	0.0064	0 0001
0.0200	0.0604	0.1/2/	0.0461	0.0200	0.0576	0.0033	0.0033	0.0864	0.0921
0.0374	0.0004	0.0201	0.0401	0.0201	0.0115	0.0000	0.0115	0.0056	0.0144
* HDV5	0,0000	0.0025	0.0025	0.0213					
0 0326	0 0762	0 0653	0 0435	0 1850	0 1088	0 0000	0 0435	0 0544	0 1197
0.0218	0.0762	0.0544	0.0109	0.0109	0.0109	0.0000	0 0000	0.0109	0.0109
0.0000	0.0326	0.0109	0.0109	0.0098	0.0105	0.0000	0.0000	0.0105	0.0105
* HDV6									
0.1140	0.1374	0.1268	0.1672	0.0484	0.0375	0.0349	0.0433	0.0426	0.0273
0.0245	0.0375	0.0219	0.0304	0.0115	0.0063	0.0112	0.0030	0.0030	0.0002
0.0046	0.0074	0.0118	0.0031	0.0441					
* HDV7									
0.0000	0.0366	0.0366	0.0183	0.0366	0.0275	0.0275	0.0183	0.1465	0.0183
0.0458	0.0366	0.0550	0.0916	0.0000	0.0366	0.0458	0.0641	0.0366	0.0366
0.0092	0.0366	0.0092	0.0092	0.1208					
* HDV87	<i>F</i>								
0.0622	0.0957	0.0335	0.0813	0.0478	0.0478	0.0526	0.0526	0.0718	0.0813
0.0383	0.0191	0.0478	0.0431	0.0526	0.0191	0.0191	0.0191	0.0048	0.0191
0.0144	0.0048	0.0144	0.0048	0.0526					
* HDV81	3								
0.0769	0.1154	0.0385	0.0769	0.0385	0.0385	0.0769	0.0385	0.0769	0.0769
0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0385	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0385					
* HDBS						1.05 Storman	on 9200 - 7		
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618					
* HDBT				1 1222			2 22.00		
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC									
0.0528	0.1196	0.1366	0.0838	0.0880	0.0813	0.0686	0.0546	0.0461	0.0285
0.0297	0.0206	0.0182	0.0219	0.0140	0.0079	0.0073	0.0055	0.0067	0.0030
0.0042	0.0055	0.0091	0.0085	0.0779					

Alexandria, VA--2008 Registration Data

* LDV									
0.0468	0.0743	0.0737	0.0708	0.0731	0.0752	0.0771	0.0720	0.0694	0.0606
0.0522	0.0460	0.0356	0.0353	0.0275	0.0220	0.0177	0.0150	0.0118	0.0081
0.0058	0.0048	0.0036	0.0026	0.0189					
* LDT1									
0.0278	0.0722	0.0559	0.0673	0.0183	0.0861	0.1052	0.1035	0.0618	0.0618
0.0687	0.0644	0.0644	0.0132	0.0061	0.0096	0.0113	0.0070	0.0061	0.0122
0.0104	0.0165	0.0073	0.0026	0.0403					
* LDT2									
0.0521	0.0825	0.0847	0.0907	0.1026	0.0855	0.0820	0.0733	0.0688	0.0515
0.0483	0.0382	0.0299	0.0269	0.0201	0.0140	0.0086	0.0083	0.0057	0.0045
0.0034	0.0026	0.0024	0.0016	0.0120					
* LDT3									
0.0682	0.0772	0.1126	0.0932	0.0947	0.0868	0.0740	0.0703	0.0585	0.0588
0.0305	0.0294	0.0246	0.0219	0.0208	0.0109	0.0083	0.0049	0.0078	0.0105
0.0074	0.0041	0.0040	0.0028	0.0176					
* LDT4		_	_						
0.0660	0.1687	0.0687	0.0872	0.1167	0.0959	0.0498	0.0554	0.0567	0.0675
0.0561	0.0305	0.0199	0.0125	0.0125	0.0025	0.0044	0.0033	0.0056	0.0044
0.0037	0.0052	0.0019	0.0002	0.0048					
* HDV2E	3	April 1997 Marcal Marca	The Garrene	- 2	and the second second second		the second s	We construct the	Con Souther Hank
0.0269	0.0454	0.1217	0.0613	0.0725	0.0888	0.0690	0.0787	0.0731	0.0554
0.0241	0.0407	0.0299	0.0368	0.0294	0.0202	0.0107	0.0085	0.0096	0.0138
0.0141	0.0083	0.0056	0.0057	0.0500					
* HDV3			our presented	and and the					
0.0265	0.0329	0.1241	0.1021	0.0874	0.0833	0.0279	0.0478	0.0619	0.0742
0.0232	0.0501	0.0171	0.0326	0.0227	0.0114	0.0062	0.0066	0.0095	0.0175
0.0379	0.0156	0.0208	0.0118	0.0487					
* HDV4									
0.0087	0.0173	0.0996	0.0779	0.0390	0.0563	0.0779	0.0693	0.0953	0.0563
0.0779	0.0779	0.0173	0.0476	0.0433	0.0303	0.0303	0.0173	0.0043	0.0130
0.0130	0.0043	0.0043	0.0000	0.0213					
* HDV5									
0.0183	0.0550	0.0733	0.1467	0.1100	0.0550	0.0367	0.1284	0.0917	0.1100
0.0000	0.0183	0.0183	0.0183	0.0000	0.0183	0.0183	0.0183	0.0183	0.0000
0.0000	0.0367	0.0000	0.0000	0.0098					
* HDV6						and the second second	ter contentence term		
0.0105	0.0879	0.0910	0.0574	0.1047	0.0441	0.0412	0.0352	0.0729	0.0974
0.0419	0.0726	0.0276	0.0247	0.0178	0.0098	0.0022	0.0165	0.0165	0.0162
0.0025	0.0327	0.0086	0.0241	0.0441					
* HDV7	No Chatyloredan	2041 1 (B) 001-6 (1) 00		1011 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 - 1017 -	The second stage		n. Virola nicelar	INTEL SERVICE HE MAD	Match - Search States
0.0000	0.0412	0.0412	0.0000	0.0000	0.0000	0.0137	0.0687	0.0137	0.0412
0.1236	0.0550	0.0137	0.0412	0.0412	0.0412	0.0412	0.0137	0.0137	0.0687
0.0687	0.0275	0.0412	0.0687	0.1208					
* HDV82	ł								
0.0136	0.0543	0.0950	0.0407	0.0633	0.1131	0.0317	0.0724	0.1629	0.0452
0.0317	0.0136	0.0226	0.0226	0.0317	0.0362	0.0136	0.0226	0.0181	0.0226
0.0226	0.0000	0.0045	0.0045	0.0407					
* HDV8H	3								
0.0000	0.0588	0.1176	0.0588	0.0588	0.1176	0.0588	0.0588	0.1765	0.0588
0.0588	0.0000	0.0000	0.0000	0.0588	0.0588	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0588					
* HDBS									
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618					
* HDBT		-		+					
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC		211	121 - 270 - 200	narit (Carendone)	121	1721 3220000000000000000000000000000000000	121 (1 <u>1</u>)(121)(1-1)		And the second second second
0.0459	0.1028	0.1014	0.1097	0.0854	0.0959	0.0615	0.0643	0.0473	0.0317
0.0271	0.0193	0.0216	0.0165	0.0211	0.0142	0.0096	0.0073	0.0092	0.0055
0.0037	0.0028	0.0110	0.0073	0.0779					

Arlington County, VA-2008 Registration Data

* LDV									
0.0521	0.0741	0.0730	0.0784	0.0721	0.0753	0.0746	0.0657	0.0677	0.0564
0.0496	0.0435	0.0328	0.0347	0.0272	0.0223	0.0167	0.0148	0.0120	0.0085
0.0073	0.0067	0.0059	0.0045	0.0241					
* LDT1									
0.0459	0.0879	0.1116	0.0953	0.0342	0.0798	0.0684	0.0667	0.0293	0.0358
0.0326	0.0277	0.0342	0.0065	0.0033	0.0147	0.0130	0.0065	0.0081	0.0231
0.0442	0.0293	0.0247	0.0114	0.0660					
* LDT2									
0.0396	0.0684	0.0750	0.0926	0.0925	0.0845	0.0819	0.0649	0.0686	0.0538
0.0456	0.0410	0.0303	0.0275	0.0244	0.0190	0.0129	0.0122	0.0096	0.0107
0.0087	0.0069	0.0068	0.0037	0.0190					
* LDT3									
0.0420	0.0684	0.0790	0.0880	0.0998	0.0985	0.0832	0.0685	0.0566	0.0521
0.0346	0.0316	0.0310	0.0326	0.0277	0.0166	0.0129	0.0079	0.0120	0.0082
0.0080	0.0063	0.0055	0.0028	0.0264					
* LDT4									
0.0488	0.1431	0.0981	0.1133	0.1437	0.1018	0.0559	0.0470	0.0437	0.0578
0.0406	0.0289	0.0115	0.0155	0.0115	0.0063	0.0031	0.0044	0.0050	0.0045
0.0045	0.0008	0.0015	0.0012	0.0074					
* HDV2I	3								
0.0320	0.0471	0.0951	0.0806	0.0929	0.1043	0.0812	0.0616	0.0642	0.0430
0.0223	0.0450	0.0279	0.0317	0.0160	0.0150	0.0132	0.0057	0.0111	0.0148
0.0105	0.0072	0.0098	0.0070	0.0608					
* HDV3									
0.0526	0.0568	0.1295	0.1088	0.0768	0.0866	0.0652	0.0544	0.0470	0.0498
0.0224	0.0292	0.0059	0.0206	0.0109	0.0104	0.0124	0.0047	0.0096	0.0225
0.0211	0.0132	0.0139	0.0049	0.0709					
* HDV4									
0.0379	0.0379	0.0730	0.0433	0.0352	0.1055	0.0595	0.0379	0.0703	0.0703
0.0270	0.0460	0.0406	0.0514	0.0433	0.0243	0.0135	0.0189	0.0270	0.0298
0.0243	0.0162	0.0081	0.0162	0.0425					
* HDV5									
0.0253	0.0505	0.1178	0.1263	0.1263	0.0926	0.0842	0.0253	0.0421	0.0505
0.0253	0.0842	0.0084	0.0505	0.0421	0.0000	0.0084	0.0000	0.0084	0.0000
0.0000	0.0084	0.0000	0.0084	0.0152	0.0000	0.0001	0.0000	0.0004	0.0000
* HDV6	010001	010000	010004	010100					
0.0302	0.0692	0.0693	0.0521	0.1250	0.0778	0.0649	0.0648	0.0908	0.0777
0.0217	0.0131	0.0216	0.0348	0 0217	0 0133	0 0218	0 0044	0.0131	0.0218
0.0174	0.0088	0.0130	0.0044	0 0474	0.0400	0.0640	0.0011	010404	0.0210
* HDV7	0.0000	0.0100	0.0011	0.01/1					
0.0000	0.0000	0.0150	0.0450	0.0674	0.0375	0.0150	0.0300	0.0375	0.0225
0.0150	0.0375	0.0075	0.0450	0.0075	0.0225	0.0450	0.0599	0.0749	0.0824
0.0749	0.0300	0.0375	0.0525	0.1382			* • • • • • • •		
* HDV8	A								
0.0294	0.0490	0.0588	0.0621	0.0817	0.0490	0.0294	0.0686	0.0621	0.0458
0.0458	0.0392	0.0359	0.0490	0.0425	0.0229	0.0098	0.0392	0.0131	0.0229
0.0229	0.0196	0.0131	0.0163	0.0719			*	v i Vani Vali	5 . 6 m 4 5
* HDVAL	3	310404	310203	3.0/122					
0.0268	0.0535	0.0536	0.0625	0.0804	0.0446	0.0268	0.0714	0.0625	0.0446
0.0446	0.0445	0.0357	0.0536	0 0446	0.0268	0.0089	0.0357	0.0089	0.0179
0.0269	0.0179	0 0179	0.0179	0 0714	0.0200	0.0009	0.0007	0.0000	0.0210
* HDRC	0.0113	0.0113	0.0112	V. V/11					
0.0876	0.0537	0.0407	0.0002	0 0860	0.0416	0.0644	0.0658	0.0619	0.0723
0.0604	0.0450	0 0107	0.0325	0 0241	0 0120	0 0117	0.0236	0.0415	0.0404
0.0111	0.0170	0.0197	0.0042	0.041	0.0123	0.011/	0.0230	0.0410	0.0101
* 1000	0.01/9	0.0009	0.0042	0.0010					
0 0EGA	0.0210	0 0020	0 1056	0.0504	0.0545	0 0651	0 0641	0 0047	0 0426
0.0504	0.0312	0.0150	0.1056	0.0170	0.0000	0.0166	0.0091	0.0094/	0.0920
0.0034	0.0756	0.0150	0.0208	0.01/9	0.0096	0.0100	0.0096	0.0085	0.0209
4 MG	0.0216	0.0015	0.0063	0.0306					
· MC	0 1100	0 1050	0.0000	0 0701	0 0005	0 0595	0 0514	0.0455	0 0252
0.0473	0.1172	0.1052	0.0999	0.0784	0.0905	0.0676	0.0514	0.0455	0.0353
0.0247	0.0191	0.0206	0.0153	0.0109	0.0118	0.0100	0.0050	0.0082	0.0065
0.0071	0.0050	0.0109	0.0088	0.0981					

Calvert County, MD-2008 Registration Data

* LDV									
0.0463	0.0722	0.0745	0.0774	0.0730	0.0800	0.0764	0.0666	0.0703	0.0565
0.0478	0.0451	0.0352	0.0361	0.0269	0.0217	0.0172	0.0131	0.0105	0.0083
0.0066	0.0057	0.0047	0.0035	0.0241					
* LDT1									
0.0425	0.0744	0.0600	0.0906	0.0319	0.0853	0.0794	0.0683	0.0410	0.0440
0.0304	0.0364	0.0486	0.0167	0.0076	0.0094	0.0091	0.0137	0.0139	0.0182
0.0519	0.0258	0.0182	0.0170	0.0660					
* LDT2			200 200 200	1027 - 12782-120	5	112 T 121 2012 122	17241 National 44		Val. interaction
0.0352	0.0707	0.0732	0.0950	0.0937	0.0865	0.0840	0.0671	0.0655	0.0483
0.0490	0.0421	0.0301	0.0275	0.0278	0.0185	0.0115	0.0122	0.0089	0.0086
0.0094	0.0067	0.0058	0.0039	0.0190					
* LDT3	0.0000	0 0010	0.0014	0 1101	0 2004	0.0010	0.0010		
0.0358	0.06/1	0.0910	0.0914	0.1101	0.1024	0.0848	0.0641	0.0537	0.0571
0.0333	0.0298	0.02/9	0.0301	0.0255	0.0142	0.0108	0.0064	0.0097	0.0078
* TDT4	0.0050	0.0053	0.0034	0.0264					
0 0443	0 1350	0 0000	0 1166	0 1502	0 1020	0 0522	0 0561	0 0520	0 0612
0.0443	0.1350	0.0300	0.1100	0.1502	0.0049	0.0019	0.0001	0.0550	0.0012
0 0082	0 0043	0 0015	0 0015	0 0074	0.0049	0.0019	0.0026	0.0050	0.0050
* HDV21	0.0045 R	0.0010	0.0010	0.0014					
0.0309	0.0455	0.0894	0.0751	0.0978	0.0989	0.0751	0.0650	0.0556	0.0488
0.0210	0.0419	0.0306	0.0348	0.0201	0.0169	0.0128	0.0096	0.0140	0.0143
0.0121	0.0076	0.0141	0.0074	0.0608	2.0102		5.0000	3.02.10	
* HDV3	,								
0.0347	0.0569	0.1080	0.1027	0.0756	0.0921	0.0925	0.0796	0.0536	0.0469
0.0176	0.0188	0.0184	0.0177	0.0184	0.0152	0.0015	0.0036	0.0099	0.0146
0.0110	0.0120	0.0164	0.0114	0.0709	2.1.2.10.2.10				
* HDV4									
0.0417	0.0636	0.0894	0.0457	0.0556	0.0576	0.0715	0.0477	0.0556	0.0556
0.0258	0.0377	0.0199	0.0338	0.0656	0.0358	0.0219	0.0219	0.0258	0.0417
0.0278	0.0040	0.0040	0.0079	0.0425					
* HDV5									
0.0556	0.0556	0.1892	0.0779	0.0779	0.0779	0.0779	0.0389	0.0445	0.0779
0.0278	0.0389	0.0278	0.0334	0.0056	0.0056	0.0167	0.0167	0.0056	0.0000
0.0167	0.0167	0.0000	0.0000	0.0152					
* HDV6			-						
0.0080	0.0565	0.0701	0.0565	0.0778	0.0725	0.0590	0.0644	0.0804	0.0725
0.0404	0.0456	0.0431	0.0379	0.0243	0.0083	0.0189	0.0109	0.0243	0.0164
0.0135	0.0082	0.0323	0.0107	0.0474					
* HDV7									
0.0270	0.0270	0.0338	0.0575	0.0304	0.0372	0.0406	0.0575	0.0575	0.0270
0.0439	0.0304	0.0372	0.0642	0.0304	0.0270	0.0237	0.0304	0.0304	0.0338
0.0203	0.0541	0.0237	0.0169	0.1382				1 m	
* HDV87	A 0005	0.0050	0.0000	0 0111	0 0000	0 0005	0 0000	0.0000	0 0540
0.0306	0.0881	0.0252	0.0773	0.0414	0.0791	0.0396	0.0629	0.0953	0.0540
0.0486	0.0252	0.0360	0.0414	0.0198	0.0288	0.0054	0.0198	0.0180	0.0180
0.0216	0.0252	0.0162	0.0144	0.0683					
* HDV81	0 0050	0 0000	0 0022	0 0476	0 0000	0 0357	0.0505	0.0050	0 0476
0.0357	0.0952	0.0238	0.0833	0.0476	0.0000	0.0357	0.0595	0.0952	0.04/6
0.0476	0.0238	0.0357	0.035/	0.0238	0.0238	0.0119	0.0438	0.0119	0.0119
* HDBC	0.0238	0.0113	0.0119	0.0714					
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0130	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0 0089	0.0042	0.0618	0.0102	0.011/	0.0200	0.0410	0.0101
* HDBT	0.0112	0.0005	0.0012	0.0010					
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306	2.0000	2.0100	2.2020	2.2000	
* MC	3.0210	310043	5.0005	310300					
0.0495	0.1138	0.1112	0.0993	0.0769	0.0896	0.0678	0.0596	0.0460	0.0335
0.0251	0.0209	0.0181	0.0153	0.0132	0.0097	0.0091	0.0071	0.0056	0.0065
0.0039	0.0048	0.0078	0.0076	0.0981					
and the second sec									

Charles County, MD-2008 Registration Data

* LDV									
0.0392	0.0695	0.0668	0.0653	0.0679	0.0724	0.0691	0.0718	0.0731	0.0629
0.0534	0.0521	0.0400	0.0412	0.0313	0.0250	0.0210	0.0157	0.0143	0.0103
0.0088	0.0068	0.0047	0.0033	0.0142					
* LDT1	5								
0.0460	0.0272	0.0763	0.0590	0.0201	0.0862	0.1030	0.0888	0.0602	0.0648
0.0732	0.0726	0.0654	0.0143	0.0091	0.0039	0.0084	0.0026	0.0026	0.0494
0.0207	0.0138	0.0078	0.0032	0.0215					
* LDT2	i								
0.0434	0.0763	0.0833	0.0904	0.0959	0.0787	0.0828	0.0695	0.0630	0.0553
0.0491	0.0429	0.0335	0.0303	0.0236	0.0194	0.0115	0.0100	0.0070	0.0072
0.0072	0.0056	0.0027	0.0024	0.0090					
* LDT3		12	22.47	10460 - Set 1893-Merch	694 C-47040724723	1294 III 22012580 DOM	THAT TO PROVIDE THE	ALL DAUGHNA-THE	Selfer Matterson
0.0527	0.0673	0.0970	0.0829	0.1017	0.0856	0.0744	0.0623	0.0565	0.0591
0.0339	0.0312	0.0294	0.0318	0.0273	0.0165	0.0129	0.0085	0.0128	0.0102
0.0116	0.0074	0.0050	0.0049	0.0173					
* LDT4	0.1100	0 0001				121 121212			
0.0537	0.1422	0.0664	0.0793	0.1236	0.0957	0.0505	0.0606	0.0661	0.0674
0.0576	0.0444	0.0167	0.0141	0.0102	0.0056	0.0046	0.0042	0.0055	0.0096
0.0088	0.0033	0.0025	0.0018	0.0055					
* HDV21	B	0 0000	0 0000	0.0000	0.0000				
0.0368	0.0621	0.0694	0.0603	0.0580	0.0628	0.0634	0.0721	0.0712	0.0617
0.0530	0.0469	0.0320	0.0297	0.0254	0.0210	0.0131	0.0165	0.0157	0.0181
0.0226	0.0243	0.0073	0.0117	0.0451					
* HDV3	0 0245	0.0505	0.0000	0.0505	0 1000	0.0505	0 0000	0.0541	0 0 1 6 -
0.0/16	0.0341	0.0585	0.0738	0.0589	0.1298	0.0595	0.0777	0.0544	0.0463
0.0598	0.0326	0.0134	0.0211	0.0451	0.0197	0.0072	0.0129	0.0191	0.0285
0.0148	0.0213	0.0076	0.0047	0.0276					
- HDV4	0 0141	0 0000	0.0000	0.0100	0.0005	0.0000	0.0010	0 1335	0.055
0.0141	0.0141	0.2322	0.0264	0.0180	0.0225	0.0663	0.0619	0.1136	0.0574
0.0888	0.0551	0.0259	0.0219	0.0365	0.0141	0.0214	0.0129	0.0219	0.0202
* UDUE	0.0090	0.0051	0.0062	0.0239					
0 1745	0 0020	0 1966	0 0916	0 1007	0 0450	0 0562	0 0201	0.0760	0 0070
0.1/40	0.0929	0.1200	0.0010	0.1097	0.0450	0.0003	0.0281	0.0000	0.0872
0 0160	0.0113	0.0028	0.0084	0.0056	0.0028	0.0113	0.0028	0.0028	0.0056
* 1000	0.0113	0.0440	0.0004	0.0489					
0.0149	0.0664	0 0582	0 0371	0 0332	0 0235	0 0905	0 0712	0 0455	0 0340
0.0386	0.0158	0.0243	0 0489	0.0357	0 0374	0.0209	0.0528	0.0177	0 0349
0.0527	0.0475	0.0076	0.0232	0.0674	3.00/1	0.0209	0.0020	0.02//	0.0010
* HDV7	2.0110	3.0070	3.9494	3.00/1					
0.0282	0.0377	0.0282	0.0126	0.0188	0.0628	0.0879	0.0471	0.0534	0.0188
0.0220	0.0094	0.0094	0.0847	0.0628	0.0471	0.0910	0.0220	0.0471	0.0314
0.0282	0.0659	0.0157	0.0157	0.0522	2 C C C C C	210240	2. 1 4 BJ BJ BJ V	a rear a	010041
* HDV87	A	210401	219491						
0.0431	0.0254	0.0626	0.0450	0.0117	0.0587	0.1037	0.2035	0.0372	0.0548
0.0215	0.0489	0.0078	0.0196	0.0274	0.0313	0.0059	0.0235	0.0431	0.0000
0.0587	0.0391	0.0117	0.0000	0.0157					
* HDV81	В								
0.0435	0.0290	0.0580	0.0435	0.0145	0.0580	0.1014	0.2029	0.0435	0.0580
0.0290	0.0435	0.0000	0.0145	0.0290	0.0290	0.0000	0.0290	0.0435	0.0000
0.0580	0.0435	0.0145	0.0000	0.0145					
* HDBS									
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618				and the second sec	
* HDBT									
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC			tion of the second						
0.0479	0.1423	0.1180	0.0978	0.0853	0.0833	0.0752	0.0614	0.0310	0.0368
0.0179	0.0651	0.0125	0.0118	0.0317	0.0185	0.0074	0.0047	0.0037	0.0051
0.0047	0.0013	0.0051	0.0040	0.0274					

District of Columbia -- 2008 Registration Data

Frederick	County,	MD2008	Registration	Data

* LDV									
0.0464	0.0683	0.0744	0.0777	0.0740	0.0778	0.0795	0.0704	0.0715	0.0590
0.0492	0.0443	0.0358	0.0346	0.0257	0.0205	0.0156	0.0138	0.0108	0.0081
0.0060	0.0055	0.0040	0.0030	0.0241					
* LDT1		0.1.00000.000	No. Diversion	an annaiche	a 1 6865-172	1-5 - 50-4 TZ - 1			
0.0462	0.0676	0.0637	0.0733	0.0256	0.0816	0.0882	0.0866	0.0495	0.0422
0.0396	0.0388	0.0552	0.0157	0.0109	0.0051	0.0091	0.0074	0.0115	0.0183
0.0412	0.0308	0.0194	0.0067	0.0660					
* LDT2									
0.0358	0.0682	0.0758	0.0955	0.0965	0.0882	0.0860	0.0707	0.0693	0.0530
0.0487	0.0394	0.0285	0.0272	0.0241	0.0155	0.0114	0.0103	0.0089	0.0077
0.0074	0.0057	0.0044	0.0027	0.0190					
* LDT3									
0.0405	0.0578	0.0793	0.0840	0.0991	0.1001	0.0845	0.0661	0.0604	0.0549
0.0361	0.0309	0.0295	0.0352	0.0275	0.0166	0.0135	0.0077	0.0091	0.0102
0.0087	0.0093	0.0085	0.0044	0.0264					
* LDT4			2 2 2 2 2 2				0.0000		121 202210
0.0442	0.1264	0.0839	0.1140	0.1429	0.0926	0.0623	0.0536	0.0472	0.0681
0.0378	0.0352	0.0115	0.0102	0.0108	0.0064	0.0058	0.0027	0.0069	0.0081
0.0112	0.0085	0.0011	0.0010	0.0074					
- HDV2	B	0.0000	0.0010	0 1010	0.0000	0.0750	0.0751	0.0000	0.0755
0.0267	0.0441	0.0768	0.0742	0.1017	0.0938	0.0758	0.0754	0.0613	0.0557
0.0243	0.0526	0.0315	0.0336	0.0178	0.0141	0.0102	0.0075	0.0126	0.0152
+ 10092	0.0072	0.0102	0.0079	0.0608					
0 0500	0.0614	0 1041	0 1000	0 0746	0 0701	0.0503	0.0504	0.0550	0.0407
0.0588	0.0014	0.1241	0.1098	0.0120	0.0721	0.0693	0.0584	0.0552	0.0491
0.0135	0.0295	0.0190	0.0256	0.0139	0.0125	0.0087	0.0091	0.0121	0.0109
+ UDV4	0.0085	0.0109	0.0076	0.0709					
0 0201	0 0201	0 0760	0 0673	0 0622	0 0600	0 0622	0 0722	0 0712	0 0722
0.0291	0.0501	0.0762	0.0361	0.0032	0.0002	0.0032	0.0732	0.0712	0.0722
0 0180	0.0080	0.0050	0.0050	0.0401	0.0221	0.0211	0.0201	0.0100	0.0291
* HDV5	0.0000	0.0000	0.0050	0.0125					
0 0313	0 0797	0 1309	0 1053	0 0911	0 0882	0 0712	0 0598	0 0712	0 0911
0 0085	0.0455	0 0199	0.0370	0 0171	0.0114	0 0028	0.0028	0 0085	0.0057
0.0000	0.0028	0.0000	0.0028	0 0152	0.0111	0.0020	0.0020	0.0000	0.000/
* HDV6	0.0020	0.0000	0.0020	0.0152					
0.0162	0.0981	0.0797	0.0721	0.0734	0.0436	0.0621	0.0658	0.0832	0.0746
0.0646	0.0300	0.0152	0.0523	0.0150	0.0213	0.0089	0.0137	0.0126	0.0100
0.0113	0.0139	0.0087	0.0063	0.0474					
* HDV7)								
0.0234	0.0371	0.0234	0.0567	0.0293	0.0430	0.0215	0.0293	0.0547	0.0313
0.0293	0.0313	0.0176	0.0391	0.0313	0.0215	0.0313	0.0469	0.0489	0.0293
0.0508	0.0528	0.0469	0.0352	0.1382					
* HDV8.	A								
0.0217	0.0462	0.0774	0.0943	0.0491	0.0462	0.0283	0.0481	0.0689	0.0745
0.0302	0.0358	0.0396	0.0481	0.0292	0.0226	0.0151	0.0113	0.0217	0.0170
0.0349	0.0283	0.0151	0.0142	0.0821					
* HDV8	В								
0.0223	0.0446	0.0764	0.0955	0.0478	0.0446	0.0287	0.0478	0.0701	0.0732
0.0318	0.0350	0.0382	0.0478	0.0287	0.0223	0.0159	0.0127	0.0223	0.0159
0.0350	0.0287	0.0159	0.0159	0.0828					
* HDBS									
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618					
* HDBT									
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0100							-		
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC	0.0216	0.0015	0.0063	0.0306					
* MC 0.0497	0.0216	0.0015	0.0063	0.0306	0.0866	0.0681	0.0530	0.0469	0.0315
* MC 0.0497 0.0292	0.0216	0.0015	0.0063	0.0306	0.0866	0.0681	0.0530	0.0469	0.0315

V LL V									
0.0499	0.0776	0.0744	0.0721	0.0723	0.0770	0.0737	0.0699	0.0728	0.0607
0.0518	0.0454	0.0358	0.0355	0.0274	0.0213	0.0167	0.0132	0.0108	0.0077
0.0053	0.0042	0.0031	0.0024	0.0189					
* LDT1									
0 0357	0 0954	0 0593	0 0593	0 0220	0 0006	0 1221	0 0051	0 OFFE	0 0622
0.0557	0.0640	0.0505	0.0003	0.0230	0.0996	0.1251	0.0951	0.0010	0.0633
0.0550	0.0640	0.0519	0.0091	0.0075	0.0075	0.0069	0.0080	0.0048	0.0089
0.0134	0.0116	0.0094	0.0035	0.0403					
* LDT2	CRON CHELEDOSMIC	24 00225-00525-0		NAME CONTRACTO	197 - 1972 NAMES AN	251 2000 3725	Net Sectors	96 - DAG BER GROAD (* 1	174.) - 196.a. 41.0000
0.0494	0.0824	0.0886	0.0967	0.1041	0.0861	0.0835	0.0719	0.0689	0.0530
0.0467	0.0380	0.0278	0.0245	0.0193	0.0131	0.0081	0.0075	0.0049	0.0044
0.0034	0.0026	0.0020	0.0012	0.0120					
* LDT3									
0.0635	0.0789	0.1102	0.0936	0.1095	0.0966	0.0796	0.0684	0.0620	0.0514
0.0296	0.0253	0.0211	0.0237	0.0188	0.0098	0.0069	0.0053	0.0068	0.0070
0.0056	0 0037	0 0030	0 0019	0 0176				0.0000	010070
* 1074	0.0007	0.0000	0.0015	0.0110					
~ DD14	0 1450	0.0000	0 1100	0 1000	0 1000	0 0547	0.0577	0 0500	0.0681
0.0553	0.1456	0.0862	0.1128	0.1332	0.1003	0.0547	0.0577	0.0530	0.0671
0.0416	0.0321	0.0130	0.0098	0.0099	0.0051	0.0018	0.0016	0.0031	0.0037
0.0041	0.0018	0.0007	0.0008	0.0048					
* HDV21	В								
0.0316	0.0527	0.0903	0.0757	0.1019	0.1013	0.0762	0.0740	0.0656	0.0569
0.0266	0.0396	0.0262	0.0335	0.0203	0.0131	0.0107	0.0066	0.0101	0.0104
0.0086	0.0055	0.0070	0.0056	0.0500					
* HDV3									
0.0444	0.0502	0.1242	0.1006	0.0844	0.0754	0.0632	0 0651	0 0656	0 0550
0.0282	0.0333	0.0159	0.0265	0 0219	0 0116	0 0091	0 0069	0 0128	0 0122
0.0202	0.0127	0.0001	0.0205	0.0219	0.0110	0.0001	0.0005	0.0120	0.0122
0.0190	0.0127	0.0081	0.0061	0.0487					
* HDV4									1 2 1 1 1
0.0237	0.0608	0.0773	0.0762	0.0691	0.0638	0.0758	0.0608	0.0845	0.0848
0.0285	0.0777	0.0267	0.0372	0.0357	0.0165	0.0161	0.0135	0.0109	0.0139
0 0101									
U. UIUI	0.0064	0.0049	0.0038	0.0213					
* HDV5	0.0064	0.0049	0.0038	0.0213					
* HDV5 0.0432	0.0064	0.0049	0.0038	0.0213	0.0949	0.0738	0.0569	0.0960	0.0833
* HDV5 0.0432 0.0148	0.0064	0.0049	0.0038	0.0213	0.0949	0.0738	0.0569	0.0960	0.0833
* HDV5 0.0432 0.0148 0.0084	0.0064 0.0833 0.0390 0.0042	0.0049	0.0038	0.0213 0.1023 0.0127 0.0098	0.0949	0.0738	0.0569	0.0960	0.0833
* HDV5 0.0432 0.0148 0.0084 * HDV6	0.0064 0.0833 0.0390 0.0042	0.0049 0.1160 0.0169 0.0021	0.0038 0.0917 0.0285 0.0011	0.0213 0.1023 0.0127 0.0098	0.0949 0.0032	0.0738	0.0569 0.0042	0.0960 0.0063	0.0833
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213	0.0064 0.0833 0.0390 0.0042	0.0049	0.0038 0.0917 0.0285 0.0011	0.0213 0.1023 0.0127 0.0098	0.0949	0.0738	0.0569	0.0960	0.0833
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144	0.0949 0.0032	0.0738 0.0042 0.0523	0.0569 0.0042	0.0960 0.0063	0.0833 0.0032
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144	0.0949 0.0032 0.0353 0.0145	0.0738 0.0042 0.0523 0.0105	0.0569 0.0042 0.0732 0.0081	0.0960 0.0063 0.0764 0.0152	0.0833 0.0032 0.0628 0.0115
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV2	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441	0.0949 0.0032 0.0353 0.0145	0.0738 0.0042 0.0523 0.0105	0.0569 0.0042 0.0732 0.0081	0.0960 0.0063 0.0764 0.0152	0.0833 0.0032 0.0628 0.0115
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441	0.0949 0.0032 0.0353 0.0145	0.0738 0.0042 0.0523 0.0105	0.0569 0.0042 0.0732 0.0081	0.0960 0.0063 0.0764 0.0152	0.0833 0.0032 0.0628 0.0115
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510	0.0949 0.0032 0.0353 0.0145	0.0738 0.0042 0.0523 0.0105	0.0569 0.0042 0.0732 0.0081	0.0960 0.0063 0.0764 0.0152	0.0833 0.0032 0.0628 0.0115
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0429 0.0197	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0452 0.0090 0.0429 0.0197 0.0382	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0441 0.0510 0.0336 0.1208	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8/	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0452 0.0090 0.0429 0.0197 0.0382 A	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0441 0.0510 0.0336 0.1208	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0067 0.0324 0.0266 0.0209	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430	0.0569 0.0042 0.0732 0.0081 0.00718 0.0127 0.0787	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0921	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475
<pre>HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV82 0.0201 0.0480</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0336
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV82 0.0201 0.0201 0.0480 0.0145	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0084	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0089	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0336
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0487 0.0359 * HDV87 0.0201 0.0480 0.0201 0.0480 0.0245	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0726 0.0084 B	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0352 0.0089	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0201 0.0480 0.0201 0.0480 0.0201 0.0485 * HDV8 0.0201 0.0485 * HDV8 0.0201 0.0485 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0201 * HDV8 0.0097 * HDV8 * HDV8 0.0097 * HDV8 *	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0084 B 0.0740	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0352 0.0857 0.0857	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.028 0.0932	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127 0.0787 0.0151	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0921 0.0128	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140
<pre>* HDV5 * HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0193 0.0493</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0084 B 0.0740 0.0418	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0932	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0804	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127 0.0787 0.0151	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0921 0.0128 0.0932	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0120
* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0480 0.0201 0.0480 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0145	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0740 0.0740 0.0436	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0266 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0932 0.0322	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.08804 0.08804 0.08804 0.0289	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0648 0.0179 0.0643 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129	0.0569 0.0042 0.0032 0.0081 0.0718 0.0127 0.0127 0.0151 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0193 0.0482 0.0129</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0740 0.0418 0.0096	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0266 0.0209 0.0352 0.0352 0.0089 0.0675 0.0354 0.0096	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0322 0.0032 0.0032	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0289 0.0450	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0648 0.0179 0.0643 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129	0.0569 0.0042 0.0732 0.0081 0.0127 0.0127 0.0151 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0193 0.0482 0.0193 0.0482 0.0129 * HDBS</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0436 0.0084 B 0.0740 0.0418 0.0096	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0266 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0932 0.0322 0.0032	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0289 0.0450	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0648 0.0179 0.0643 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127 0.0151 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0336 0.0475 0.0140 0.0482 0.0129
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV81 0.0201 0.0480 0.0201 0.0480 0.0145 * HDV81 0.0193 0.0482 0.0129 * HDBS 0.0876</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0740 0.0740 0.0418 0.0096 0.0537	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096 0.0096	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0498 0.0440 0.0185 0.0944 0.0324 0.00932 0.00932 0.00932 0.0093	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.084 0.0289 0.0450 0.0860	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644	0.0569 0.0042 0.0732 0.0081 0.0127 0.0127 0.0151 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0336 0.0475 0.0140 0.0482 0.0129 0.0129
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0487 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0148 * HDV8 0.0151 0.0148 * HDV8 0.0151 * HDV8 0.0145 * HDV8 0.0151 * HDV8 0.0145 * HDV8 0.0201 * HDV8 0.00480 * HDV8 * HDV8 0.00480 * HDV8 * HDV8 * HDV8 0.00480 * HDV8 * HDV8 * HDV8 * HDV8 *</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0418 0.0096 0.0537 0.0450	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0265 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096 0.0096	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0422 0.0012 0.0022 0.0012 0.0022 0.00322 0.00322 0.00322 0.0032 0.00325	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.08450 0.0804 0.0889 0.0450 0.0860 0.0241	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0648 0.0179 0.0643 0.0161 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0151 0.0151 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0140 0.0482 0.0129 0.0723 0.0404
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0480 0.0145 * HDV8 0.0201 0.0482 0.0193 0.0482 0.0193 0.0482 0.0129 * HDBS 0.0876 0.0876 0.0604 0.0111</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0740 0.0740 0.0418 0.0096 0.0537 0.0450 0.0179	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0267 0.0269 0.0209 0.0659 0.0659 0.0659 0.0675 0.0354 0.0096 0.0096 0.0096	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0452 0.00000 0.0000 0.000000 0.000000 0.000000 0.000000 0.00000000	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0477 0.0804 0.0289 0.0450 0.0450 0.0860 0.0241 0.0618	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117	0.0569 0.0042 0.0032 0.0081 0.0718 0.0127 0.0151 0.0151 0.0804 0.0161 0.0658 0.0236	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0128 0.0128 0.0129 0.0129 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0140 0.0140 0.0129 0.0129
<pre></pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0438 0.0740 0.0418 0.09537 0.0450 0.0179	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0067 0.0324 0.0266 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0354 0.0354 0.0354 0.0097 0.0407 0.0197 0.0089	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0322 0.0322 0.0032 0.0093 0.0093 0.0093 0.0093 0.0093	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0450 0.0804 0.0804 0.0804 0.085 0.0289 0.0450 0.085 0.0289 0.0450 0.085 0.0289 0.0450 0.085 0.0289 0.085 0.0289 0.085 0.0289 0.0289 0.085 0.0289 0.0289 0.0285 0.0289 0.0285 0.028	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0648 0.0179 0.0643 0.0161 0.0161	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127 0.0151 0.0804 0.0161 0.0804 0.0161	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0128 0.0128 0.0129 0.0129 0.0129	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0140 0.0482 0.0129 0.0129
<pre></pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0426 0.0426 0.0436 0.0740 0.0418 0.0096 0.0537 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0450 0.0537 0.0450 0.0	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0266 0.0209 0.0352 0.0352 0.0089 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096 0.0096 0.0097 0.0407 0.0197 0.0197 0.00839	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0932 0.0932 0.0093 0.0093 0.0093 0.0093 0.0093 0.0093 0.0093 0.0095 0.0095 0.0095 0.0055	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0289 0.0450 0.0860 0.0860 0.0241 0.0594	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0161 0.0139	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0651	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0151 0.0804 0.0161 0.0658 0.0236	0.0960 0.0063 0.0764 0.0152 0.0765 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129 0.0618 0.0415	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129 0.0723 0.0404 0.0426
<pre></pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0426 0.0436 0.0436 0.0740 0.0418 0.0096 0.0537 0.0453 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0537 0.0450 0.0557 0.0450 0.0557 0.0450 0.0557 0.0450 0.0557 0.0450 0.0557 0.0455 0.0557 0.0455 0.0557 0.0455 0.0557 0.0455 0.0557 0.0455 0.0557 0.0455 0.0557 0.0455 0.0455 0.0557 0.0455 0.0455 0.0557 0.0455 0.0455 0.0557 0.0455 0.0455 0.0455 0.0557 0.0455 0.0455 0.0455 0.0557 0.0455 0.0455 0.0455 0.0557 0.0455 0.0455 0.0455 0.0557 0.0455 0.0557 0.0455 0.0557 0.0	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0266 0.0209 0.0352 0.0352 0.0352 0.0354 0.0055 0.0354 0.0096 0.0096 0.0407 0.0197 0.00839 0.0156	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0032 0.0032 0.0093 0.0009 0.00000 0.00000 0.00000 0.00000 0.00000000	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0289 0.0450 0.0860 0.0450 0.0860 0.0241 0.0594 0.0594 0.0179	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0161 0.0139 0.0416 0.0139	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0151 0.0804 0.0161 0.0658 0.0236	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129 0.0618 0.0415	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129 0.0723 0.0404 0.0426 0.0259
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0487 0.0201 0.0487 0.0201 0.0480 0.0145 * HDV8 0.0145 * HDV8 0.0148 * HDV8 0.0145 * HDV8 0.0148 * HDV8 0.0145 * HDV8 0.0145 * HDV8 0.0145 * HDV8 0.0148 * HDV8 * HDV8 0.0148 * HDV8 * HD8 * HDV8 * HD8 * HD8</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0418 0.0096 0.0537 0.0450 0.0537 0.0450 0.0179 0.0312 0.0312 0.0312	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0248 0.0266 0.0209 0.0352 0.0352 0.0352 0.0354 0.0055 0.0354 0.0096 0.0407 0.0407 0.0197 0.0839 0.0156 0.0015	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.0042 0.0042	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0815 0.0296 0.0447 0.0804 0.0289 0.0450 0.0450 0.0860 0.0241 0.0594 0.0594 0.0594 0.0594	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0161 0.0416 0.0139 0.0545 0.0096	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117 0.0651 0.01651	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0127 0.0151 0.0804 0.0161 0.0658 0.0236	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129 0.0618 0.0415 0.0947 0.0085	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129 0.0723 0.0404 0.0426 0.0259
<pre></pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0436 0.0436 0.0436 0.0084 B 0.0740 0.0418 0.0096 0.0537 0.0450 0.0179 0.0312 0.0756 0.0216	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.026 0.0269 0.0269 0.0352 0.0352 0.0059 0.0659 0.0354 0.0055 0.0354 0.0096 0.0407 0.0407 0.0197 0.00839 0.0156 0.0015	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0185 0.0944 0.0324 0.0028 0.0932 0.00322 0.003	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0316 0.1208 0.0815 0.0296 0.0447 0.0847 0.0844 0.0289 0.0450 0.0450 0.0860 0.0241 0.0618 0.0594 0.0306	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0161 0.0416 0.0139 0.0545 0.0096	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117	0.0569 0.0042 0.0732 0.0081 0.0127 0.0127 0.0151 0.0804 0.0161 0.0658 0.0236	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129 0.0618 0.0415 0.0947 0.0085	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0336 0.0475 0.0140 0.0482 0.0129 0.0723 0.0404 0.0426 0.0259
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0359 * HDV8 0.0201 0.0487 0.0201 0.0480 0.0145 * HDV8 0.0201 0.0480 0.0145 * HDV8 0.0201 0.0482 0.0145 * HDV8 0.0482 0.0129 * HD8 0.0876 0.0604 0.0611 * HDBT 0.0564 0.0634 0.0190 * MC 0.0452</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0418 0.0740 0.0418 0.0096 0.0537 0.0450 0.0179 0.0312 0.0756 0.0216 0.0216	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.026 0.026 0.026 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096 0.0096 0.0407 0.0197 0.0089 0.0839 0.0156 0.0156 0.0156	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0498 0.0440 0.0185 0.0944 0.0324 0.00932 0.00932 0.00932 0.00932 0.00932 0.0093 0.00932 0.0093 0.0093 0.0093 0.0025 0.0042 0.1056 0.0208 0.0063	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.1208 0.0296 0.0296 0.0447 0.0815 0.0296 0.0450 0.0804 0.0289 0.0450 0.0860 0.0241 0.0618 0.0594 0.0594 0.0179 0.0306	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0179 0.0643 0.0179 0.0643 0.0179 0.0643 0.0179 0.0643 0.0179	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0418 0.0129 0.0644 0.0117 0.0651 0.0166	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0151 0.0151 0.0804 0.0161 0.0658 0.0236 0.0641 0.0096	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0932 0.0129 0.0129 0.0618 0.0415 0.0947 0.0085	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129 0.0723 0.0404 0.0426 0.0259
<pre>* HDV5 0.0432 0.0148 0.0084 * HDV6 0.0213 0.0425 0.0097 * HDV7 0.0151 0.0487 0.0359 * HDV8 0.0201 0.0487 0.0201 0.0482 0.0201 0.0482 0.0129 * HDV8 0.0482 0.0129 * HDV8 0.0482 0.0129 * HDBS 0.0876 0.0634 0.0634 0.0634 0.0634 0.0190 * MC</pre>	0.0064 0.0833 0.0390 0.0042 0.0977 0.0452 0.0090 0.0429 0.0197 0.0382 A 0.0726 0.0436 0.0740 0.0418 0.0096 0.00418 0.0096 0.0537 0.0450 0.0179 0.0312 0.0756 0.0216 0.1023	0.0049 0.1160 0.0169 0.0021 0.0786 0.0248 0.0248 0.0260 0.0209 0.0659 0.0352 0.0089 0.0675 0.0354 0.0096 0.00197 0.0089 0.0839 0.0839 0.0156 0.0015 0.0215	0.0038 0.0917 0.0285 0.0011 0.0816 0.0692 0.0101 0.0498 0.0440 0.0440 0.0185 0.0944 0.0324 0.0932 0.0028 0.0093 0.0093 0.0025 0.0042	0.0213 0.1023 0.0127 0.0098 0.0852 0.0144 0.0441 0.0510 0.0336 0.0336 0.0336 0.0296 0.0296 0.0447 0.0804 0.0289 0.0450 0.0804 0.0289 0.0450 0.0241 0.0618 0.0594 0.0594 0.0179 0.0306 0.0306	0.0949 0.0032 0.0353 0.0145 0.0266 0.0185 0.0185 0.0648 0.0179 0.0643 0.0179 0.0643 0.0161 0.0139 0.0545 0.0096	0.0738 0.0042 0.0523 0.0105 0.0348 0.0290 0.0430 0.0117 0.0644 0.0117 0.0651 0.0166 0.0166	0.0569 0.0042 0.0732 0.0081 0.0718 0.0127 0.0151 0.0151 0.0804 0.0161 0.0658 0.0236 0.0641 0.0096	0.0960 0.0063 0.0764 0.0152 0.0452 0.0452 0.0921 0.0128 0.0128 0.0129 0.0129 0.0129 0.0129 0.0129 0.0129 0.0129 0.0415 0.0947 0.0085	0.0833 0.0032 0.0628 0.0115 0.0533 0.0336 0.0475 0.0140 0.0482 0.0129 0.0482 0.0129 0.0426 0.0426 0.0259

Fairfax County, VA-2008 Registration Data

Loudoun Cou	nty, VA-2	2008 Regi	stration	Data
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0.0808	0.0796	0.0797	0.0781	0.0791	0.0756	0.0706	0.0716	0.0596
0.0414	0.0327	0.0316	0.0240	0.0186	0.0143	0.0108	0.0088	0.0056
0.0034	0.0026	0.0018	0.0189					
0 0001	0 0000	0.0040	0 0015					
0.0901	0.0736	0.0840	0.0317	0.0977	0.1097	0.0824	0.0514	0.0590
0.0425	0.0520	0.0089	0.0082	0.0051	0.0095	0.0108	0.0089	0.0120
0.0146	0.0054	0.0038	0.0403					
0 0871	0 0929	0 1090	0 1100	0 0886	0 0860	0 0726	0 0660	0 0482
0.0352	0.0245	0.0192	0.0170	0.0105	0.0068	0.0063	0.0040	0.0042
0.0027	0.0018	0.0013	0.0120			0.0000	0.0010	0.0012
0.0814	0.1124	0.1060	0.1237	0.1032	0.0795	0.0668	0.0568	0.0460
0.0206	0.0185	0.0204	0.0151	0.0099	0.0067	0.0032	0.0058	0.0055
0.0033	0.0033	0.0019	0.0176					
005 XXX0000		AC SOLUTION OF STREET	Web area and	ALLES - HEALLES MARKED		talle Maarbaat	nas oouneren	
0.1720	0.0817	0.1237	0.1514	0.1078	0.0579	0.0526	0.0427	0.0486
0.0232	0.0081	0.0088	0.0088	0.0042	0.0029	0.0007	0.0028	0.0020
0.0017	0.0003	0.0007	0.0048					
0 0499	0 0969	0 0771	0 1000	0 0000	0 0731	0 0760	0 0700	0 0524
0.0431	0.0316	0.0296	0.0192	0.0142	0 0091	0.0769	0.0798	0 0110
0.0056	0.0074	0.0074	0.0500	0.0143	0.0091	0.0059	0.0002	0.0113
3.0000	5.00/1	3.00/1	0.0000					
0.0540	0.1275	0.1196	0.0930	0.0721	0.0617	0.0663	0.0632	0.0634
0.0305	0.0200	0.0182	0.0178	0.0107	0.0073	0.0061	0.0069	0.0142
0.0106	0.0056	0.0028	0.0487					
0.0659	0.1047	0.0605	0.0831	0.0686	0.0596	0.0524	0.0876	0.0921
0.0722	0.0289	0.0334	0.0370	0.0117	0.0108	0.0108	0.0090	0.0099
0.0036	0.0018	0.0000	0.0213					
0.0511	0 1 6 0 0	0 1111		0 0000		0.000	0 0 5 1 1	
0.0644	0.1693	0.1141	0.1307	0.0939	0.0718	0.0626	0.0644	0.0736
0.0129	0.0000	0.0147	0.0129	0.0129	0.0037	0.0018	0.0110	0.0018
0.00/4	0.0010	0.0010	0.0098					
0.0868	0.0649	0.1084	0.0926	0.0358	0.0489	0.0640	0.0940	0.0565
0.0372	0.0282	0.0441	0.0148	0.0199	0.0145	0.0073	0.0145	0.0108
0.0039	0.0073	0.0046	0.0441					
0.0258	0.0331	0.0497	0 0478					
0 0470	101		0.0110	0.0294	0.0166	0.0533	0.0920	0.0515
0.0470	0.0294	0.0405	0.0497	0.0294	0.0166 0.0313	0.0533	0.0920	0.0515
0.0386	0.0294 0.0166	0.0405	0.0497	0.0294	0.0166 0.0313	0.0533 0.0184	0.0920 0.0349	0.0515 0.0129
0.0386	0.0294	0.0405	0.0497	0.0294	0.0166	0.0533	0.0920	0.0515
0.0386	0.0294 0.0166	0.0405 0.0166	0.0497 0.1208	0.0294 0.0239	0.0166 0.0313	0.0533 0.0184	0.0920 0.0349	0.0515 0.0129
0.0386 0.1001 0.0415	0.0294 0.0166 0.0784 0.0189	0.0405 0.0166 0.0784 0.0463	0.0497 0.1208 0.0557 0.0434	0.0294 0.0239 0.0642 0.0198	0.0166 0.0313 0.0491 0.0085	0.0533 0.0184 0.0746 0.0066	0.0920 0.0349 0.0689 0.0161	0.0515 0.0129 0.0548 0.0189
0.0478 0.0386 0.1001 0.0415 0.0094	0.0294 0.0166 0.0784 0.0189 0.0170	0.0405 0.0166 0.0784 0.0463 0.0057	0.0497 0.1208 0.0557 0.0434 0.0425	0.0294 0.0239 0.0642 0.0198	0.0166 0.0313 0.0491 0.0085	0.0533 0.0184 0.0746 0.0066	0.0920 0.0349 0.0689 0.0161	0.0515 0.0129 0.0548 0.0189
0.0478 0.0386 A 0.1001 0.0415 0.0094 B 0.1007	0.0294 0.0166 0.0784 0.0189 0.0170	0.0405 0.0166 0.0784 0.0463 0.0057	0.0497 0.1208 0.0557 0.0434 0.0425	0.0294 0.0239 0.0642 0.0198	0.0166 0.0313 0.0491 0.0085	0.0533 0.0184 0.0746 0.0066	0.0920 0.0349 0.0689 0.0161	0.0515 0.0129 0.0548 0.0189
0.0478 0.0386 A 0.1001 0.0415 0.0094 3 0.1007 0.0432	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0540 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144	0.0515 0.0129 0.0548 0.0189 0.0540 0.0540 0.0180
0.0386 0.1001 0.0415 0.0094 3 0.1007 0.0432 0.0108	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0540 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144	0.0515 0.0129 0.0548 0.0189 0.0540 0.0540 0.0180
0.0386 0.1001 0.0415 0.0094 3 0.1007 0.0432 0.0108	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0540 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144	0.0515 0.0129 0.0548 0.0189 0.0540 0.0540 0.0180
0.0386 0.1001 0.0415 0.0094 3 0.1007 0.0432 0.0108 0.0537	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0180	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0072	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0180
0.0386 0.1001 0.0415 0.0094 3 0.1007 0.0432 0.0108 0.0537 0.0450	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0058 0.0236	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618 0.0415	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0180 0.0723 0.0404
0.0386 0.1001 0.0415 0.0094 3 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618 0.0415	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0180 0.0723 0.0404
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042	0.0497 0.1208 0.0557 0.0434 0.0425 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618 0.0415	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179 0.0312 0.0312	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0197 0.0089	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042 0.1056	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139 0.0545	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618 0.0415	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179 0.0312 0.0312 0.0756	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089 0.0839 0.0839	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042 0.1056 0.0208	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0497	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0180 0.0416 0.0139 0.0545 0.0096	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117 0.0651 0.0166	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236 0.0236	0.0920 0.0349 0.0161 0.0683 0.0144 0.0618 0.0415 0.0947 0.0085	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404 0.0426 0.0259
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179 0.0312 0.0312 0.0756 0.0216	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089 0.0839 0.0839 0.0156 0.0015	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042 0.1056 0.0208 0.0063	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0497	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139 0.0545 0.0096	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117 0.0651 0.0166	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236 0.0236	0.0920 0.0349 0.0161 0.0683 0.0144 0.0618 0.0415 0.0947 0.0085	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404 0.0426 0.0259
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179 0.0312 0.0312 0.0756 0.0216	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089 0.0839 0.0839 0.0156 0.0015	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042 0.1056 0.0208 0.0063	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0306 0.0497 0.0497 0.0306 0.0497	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139 0.0545 0.0096	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117 0.0651 0.0166	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236 0.0641 0.0096	0.0920 0.0349 0.0689 0.0161 0.0683 0.0144 0.0618 0.0415 0.0947 0.0085	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404 0.0426 0.0259
0.0386 0.1001 0.0415 0.0094 0.1007 0.0432 0.0108 0.0537 0.0450 0.0179 0.0312 0.0312 0.0756 0.0216 0.1071 0.0240	0.0294 0.0166 0.0784 0.0189 0.0170 0.0791 0.0180 0.0180 0.0180 0.0407 0.0197 0.0089 0.0839 0.0056 0.0015 0.0015	0.0405 0.0166 0.0784 0.0463 0.0057 0.0791 0.0468 0.0072 0.0093 0.0325 0.0042 0.1056 0.0208 0.0208 0.0063	0.0497 0.1208 0.0557 0.0434 0.0425 0.0540 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0432 0.0497 0.0434 0.0425 0.04425 0.0432 0.0497 0.0432 0.0497 0.0432 0.0497 0.0432 0.0497 0.0432 0.0497 0.0497 0.0497 0.0425 0.0497 0.0425 0.0497 0.0432 0.0432 0.0432 0.0432 0.0497 0.0432 0.0497 0.0432 0.0497 0.0432 0.0497 0.0306 0.0594 0.0710 0.0179 0.0170 0.017	0.0294 0.0239 0.0642 0.0198 0.0647 0.0180 0.0416 0.0139 0.0545 0.0096 0.0995 0.0122	0.0166 0.0313 0.0491 0.0085 0.0504 0.0072 0.0644 0.0117 0.0651 0.0166	0.0533 0.0184 0.0746 0.0066 0.0719 0.0072 0.0658 0.0236 0.0641 0.0096 0.0606 0.0065	0.0920 0.0349 0.0161 0.0683 0.0144 0.0618 0.0415 0.0947 0.0085	0.0515 0.0129 0.0548 0.0189 0.0540 0.0180 0.0723 0.0404 0.0426 0.0259 0.0388 0.0076
	0.0808 0.0414 0.0034 0.0901 0.0425 0.0146 0.0871 0.0352 0.0027 0.0814 0.0206 0.0033 0.1720 0.0232 0.0017 B 0.0439 0.0499 0.0499 0.0431 0.0540 0.0540 0.0540 0.0550 0.0106 0.0559 0.0722 0.0036 0.0659 0.0722 0.0036 0.0644 0.0129 0.0074 0.0868 0.0372 0.0039 0.0258	0.0808 0.0796 0.0414 0.0327 0.0034 0.0026 0.0901 0.0736 0.0425 0.0520 0.0425 0.0520 0.0871 0.0929 0.0352 0.0245 0.0027 0.0018 0.0814 0.1124 0.0206 0.0185 0.0033 0.0033 0.1720 0.0817 0.0232 0.0817 0.0431 0.0316 0.0431 0.0316 0.0431 0.0316 0.0431 0.0316 0.0431 0.0316 0.0431 0.0316 0.0550 0.1047 0.0559 0.1047 0.0559 0.1047 0.0259 0.0008 0.00129 0.0008 0.0074 0.0018 0.0868 0.0649 0.0372 0.0282 0.0372 0.0282 0.0372 0.0282	0.0808 0.0796 0.0797 0.0414 0.0327 0.0316 0.0034 0.0026 0.0018 0.0901 0.0736 0.0840 0.0425 0.0520 0.0089 0.046 0.0054 0.0038 0.0871 0.0929 0.1090 0.0352 0.0245 0.0192 0.0027 0.0018 0.0013 0.0814 0.1124 0.1060 0.0206 0.0185 0.0204 0.0033 0.0033 0.0019 0.1720 0.0817 0.1237 0.0232 0.0081 0.1237 0.0232 0.0081 0.0088 0.0017 0.0003 0.0007 B 0.0499 0.0869 0.0771 0.0431 0.0316 0.0296 0.0056 0.0074 0.0074 0.0540 0.1275 0.1196 0.0305 0.0200 0.0182 0.01659 0.1047 0.0605 0.0722 0.0289 0.0334 0.0056 0.0018 0.0008 0.0659 0.1047 0.0605 0.0722 0.0289 0.0344 0.0036 0.0018 0.0018 0.0659 0.1047 0.0605 0.0722 0.0289 0.0344 0.0036 0.0018 0.0018 0.00540 0.1275 0.1141 0.0129 0.0000 0.0147 0.0644 0.1693 0.1141 0.0129 0.0000 0.0147 0.0868 0.0649 0.1084 0.0372 0.0282 0.0441 0.0372 0.0282 0.0441 0.0372 0.0282 0.0441 0.0372 0.0282 0.0441 0.0372 0.0282 0.0441	0.0808 0.0796 0.0797 0.0781 0.0414 0.0327 0.0316 0.0240 0.0034 0.0026 0.0018 0.0189 0.0901 0.0736 0.0840 0.0317 0.0425 0.0520 0.0089 0.0082 0.0146 0.0054 0.0038 0.0403 0.0871 0.0929 0.1090 0.1100 0.0352 0.0245 0.0192 0.0170 0.0352 0.0245 0.0192 0.0170 0.027 0.0018 0.0013 0.1237 0.0206 0.0185 0.0204 0.0151 0.0033 0.0033 0.0019 0.0176 0.1720 0.0817 0.1237 0.1514 0.0232 0.0081 0.0088 0.0088 0.0017 0.0003 0.0007 0.0048 B 0.0499 0.0869 0.0771 0.1000 0.0431 0.0316 0.0296 0.0193 0.0056 0.0074 0.0074 0.0500 0.0540 0.1275 0.1196 0.0930 0.0305 0.0200 0.0182 0.0178 0.0106 0.0056 0.0074 0.0500 0.0540 0.1275 0.1196 0.0930 0.0540 0.1275 0.1196 0.0930 0.0305 0.0200 0.0182 0.0178 0.0106 0.0056 0.0028 0.0487 0.0659 0.1047 0.0605 0.0831 0.0722 0.0289 0.0334 0.0370 0.0364 0.1693 0.1141 0.1307 0.0129 0.0000 0.0147 0.0129 0.0074 0.0018 0.0018 0.0098 0.0868 0.0649 0.1084 0.0926 0.0372 0.0282 0.0441 0.0148 0.0039 0.0073 0.0046 0.041	0.0808 0.0796 0.0797 0.0781 0.0791 0.0414 0.0327 0.0316 0.0240 0.0186 0.0034 0.0026 0.0018 0.0189 0.0901 0.0736 0.0840 0.0317 0.0977 0.0425 0.0520 0.0089 0.0082 0.0051 0.0146 0.0054 0.0038 0.0403 0.0151 0.0871 0.0929 0.1090 0.1100 0.0886 0.0352 0.0245 0.0192 0.0170 0.0105 0.0027 0.0018 0.0013 0.0120 0.0032 0.0814 0.1124 0.1060 0.1237 0.1032 0.0206 0.0185 0.0204 0.0151 0.0099 0.033 0.0033 0.0017 0.0176 0.0176 0.1720 0.0817 0.1237 0.1514 0.1078 0.0133 0.0013 0.0017 0.0048 0.0042 0.0170 0.0003 0.00771 0.1000 0.099	0.0808 0.0796 0.0797 0.0781 0.0791 0.0756 0.0414 0.0327 0.0316 0.0240 0.0186 0.0143 0.0034 0.0026 0.0018 0.0189 0.0901 0.0736 0.0840 0.0317 0.0977 0.1097 0.0425 0.0520 0.0089 0.0082 0.0051 0.0095 0.0146 0.0054 0.0038 0.0403 0.0871 0.0929 0.1090 0.1100 0.0886 0.0860 0.0352 0.0245 0.0192 0.0170 0.0105 0.0068 0.0027 0.0018 0.0013 0.0120 0.0814 0.1124 0.1060 0.1237 0.1032 0.0795 0.0226 0.0185 0.0204 0.0151 0.0099 0.0067 0.0033 0.0033 0.0019 0.0176 0.1720 0.0817 0.1237 0.1514 0.1078 0.0579 0.0232 0.0081 0.0088 0.0088 0.0042 0.0029 0.0017 0.0003 0.0007 0.0048 B 0.0499 0.0869 0.0771 0.1000 0.0990 0.0731 0.0431 0.0316 0.0296 0.0193 0.0143 0.0091 0.0056 0.0074 0.0074 0.0500 0.0540 0.1275 0.1196 0.0930 0.0721 0.0617 0.0305 0.0200 0.0182 0.0178 0.0107 0.0073 0.0160 0.0056 0.0028 0.0487 0.0659 0.1047 0.0605 0.0831 0.0686 0.0596 0.0722 0.0289 0.0334 0.0370 0.0117 0.0108 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0036 0.0018 0.0000 0.213 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0036 0.0018 0.0019 0.0213 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0036 0.0018 0.0000 0.0213 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0037 0.0282 0.0441 0.0148 0.0199 0.0145 0.0372 0.0282 0.0441 0.0148 0.0199 0.0145 0.039 0.0073 0.0046 0.0441	0.0808 0.0796 0.0797 0.0781 0.0791 0.0756 0.0706 0.0414 0.0327 0.0316 0.0240 0.0186 0.0143 0.0108 0.0034 0.0026 0.0018 0.0189 0.0901 0.0736 0.0840 0.0317 0.0977 0.1097 0.0824 0.0425 0.0520 0.0089 0.0082 0.0051 0.0095 0.0108 0.0146 0.0054 0.0038 0.0403 0.0871 0.0929 0.1090 0.1100 0.0886 0.0860 0.0726 0.0352 0.0245 0.0192 0.0170 0.0105 0.0068 0.0063 0.0027 0.0018 0.0013 0.0120 0.0814 0.1124 0.1060 0.1237 0.1032 0.0795 0.0668 0.0206 0.0185 0.0204 0.0151 0.0099 0.0067 0.0032 0.0033 0.0019 0.0176 0.1720 0.0817 0.1237 0.1514 0.1078 0.0579 0.0526 0.0232 0.0081 0.0088 0.0088 0.0042 0.0029 0.0007 0.0017 0.0003 0.0007 0.0048 B 0.0499 0.0869 0.0771 0.1000 0.0990 0.0731 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0.1100 0.0886 0.0860 0.0726 0.0660 0.0352 0.0245 0.0192 0.0170 0.0105 0.0068 0.0063 0.0040 0.0027 0.0018 0.0013 0.0120 0.0814 0.1124 0.1060 0.1237 0.1032 0.0795 0.0668 0.0568 0.0206 0.0185 0.0204 0.0151 0.0099 0.0067 0.0032 0.0058 0.0033 0.0033 0.0019 0.0176 0.1720 0.0817 0.1237 0.1514 0.1078 0.0579 0.0526 0.0427 0.0232 0.0081 0.0088 0.0088 0.0042 0.0029 0.0007 0.0028 0.0017 0.0003 0.0007 0.0048 B 0.0499 0.0869 0.0771 0.1000 0.0990 0.0731 0.0769 0.0798 0.0431 0.0316 0.0296 0.0193 0.0143 0.0091 0.0059 0.0082 0.0056 0.0074 0.0074 0.0500 0.0550 0.0074 0.0074 0.0500 0.0550 0.0074 0.0082 0.0487 0.0559 0.1047 0.0605 0.0831 0.0686 0.0596 0.0524 0.0876 0.0055 0.0074 0.0028 0.0487 0.0659 0.1047 0.0605 0.0831 0.0686 0.0596 0.0524 0.0876 0.0056 0.0018 0.0017 0.0117 0.0108 0.0108 0.0090 0.0016 0.0056 0.0028 0.0487 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0626 0.0644 0.0029 0.0018 0.0014 0.0213 0.0644 0.1693 0.1141 0.1307 0.0939 0.0718 0.0626 0.0644 0.0029 0.0018 0.0018 0.0098 0.0036 0.0018 0.0018 0.0098

* LDV									
0.0646	0.0753	0.0684	0.0702	0.0709	0.0768	0.0754	0.0702	0.0714	0.0596
0.0514	0.0455	0.0360	0.0358	0.0264	0.0196	0.0154	0.0117	0.0100	0.0066
0.0050	0.0043	0.0030	0.0023	0.0241					
* LDT1									
0.0434	0.0716	0.0603	0.0529	0.0193	0.1035	0.1246	0.1091	0.0563	0.0621
0.0527	0.0625	0.0496	0.0090	0.0054	0.0042	0.0092	0.0052	0.0054	0.0044
0.0080	0.0077	0.0060	0.0016	0.0660					
* LDT2		121111212102001	021 101202101	teres and the second		10.04 - 10.00 (ALCO)	1000 (MCM)217 MCF	10 00-00-00	and the second
0.0650	0.0857	0.0862	0.0953	0.1028	0.0861	0.0841	0.0712	0.0674	0.0516
0.0440	0.0355	0.0266	0.0231	0.0168	0.0117	0.0066	0.0057	0.0042	0.0031
0.0030	0.0024	0.0017	0.0010	0.0190					
* LD13	0 0743	0.0005	0.0000	0 1075	0.0001	0.0014	0.000		
0.0941	0.0743	0.0985	0.0867	0.1075	0.0931	0.0814	0.0685	0.0596	0.0515
0.0277	0.0243	0.0205	0.0214	0.0179	0.0094	0.0068	0.0050	0.0065	0.0060
* LDT4	0.0030	0.0023	0.0010	0.0204					
0.0650	0 1398	0 0837	0 1020	0 1293	0 0980	0 0608	0 0611	0 0515	0 0664
0.0386	0.0333	0.0131	0.0125	0 0098	0.0046	0.0032	0.0020	0 0049	0.0038
0.0052	0.0023	0.0011	0.0006	0.0074	0.0040	0.0052	0.0020	0.0042	0.0000
* HDV21	B	217VAA	310000	3.00/1					
0.0485	0.0596	0.0958	0.0799	0.0916	0.0935	0.0766	0.0755	0.0674	0.0527
0.0262	0.0383	0.0266	0.0284	0.0156	0.0112	0.0080	0.0065	0.0080	0.0088
0.0063	0.0045	0.0055	0.0044	0.0608					
* HDV3									
0.0386	0.0579	0.1198	0.0996	0.0815	0.0716	0.0727	0.0626	0.0574	0.0637
0.0206	0.0263	0.0162	0.0293	0.0182	0.0144	0.0069	0.0091	0.0138	0.0095
0.0126	0.0087	0.0125	0.0056	0.0709					
* HDV4									
0.0370	0.0441	0.0957	0.0542	0.0714	0.0644	0.0683	0.0741	0.0793	0.0723
0.0309	0.0688	0.0216	0.0397	0.0384	0.0176	0.0119	0.0119	0.0194	0.0132
0.0115	0.0053	0.0026	0.0040	0.0425					
* HDV5	0.0761	0.1077	0.1000	0. 3300	0 1077	0.0753	0.0535	0.0550	0.000
0.0679	0.0761	0.1077	0.1288	0.1382	0.1077	0.0761	0.0515	0.0550	0.0621
0.0199	0.0035	0.0000	0.0129	0.0141	0.0105	0.0055	0.0047	0.0047	0.0025
* HDV6	0.0035	0.0000	0.0000	0.0102					
0.0202	0.1068	0.0672	0.0860	0.0830	0.0462	0.0604	0.0686	0.0760	0.0698
0.0479	0.0530	0.0247	0.0354	0.0134	0.0216	0.0108	0.0089	0.0183	0.0095
0.0082	0.0095	0.0032	0.0038	0.0474	0 TODAO	010200	010002	010400	010000
* HDV7									
0.0393	0.0328	0.0508	0.0524	0.0393	0.0311	0.0229	0.0590	0.0508	0.0475
0.0393	0.0393	0.0377	0.0311	0.0131	0.0295	0.0344	0.0279	0.0524	0.0279
0.0377	0.0279	0.0197	0.0180	0.1382					
* HDV87	Ą								
0.0376	0.0716	0.0615	0.0781	0.0701	0.0441	0.0542	0.0463	0.0875	0.0557
0.0499	0.0347	0.0275	0.0304	0.0202	0.0217	0.0123	0.0275	0.0181	0.0210
0.0130	0.0217	0.0123	0.0116	0.0716					
* HDV81	B								
0.0387	0.0718	0.0608	0.0773	0.0691	0.0442	0.0552	0.0470	0.0884	0.0552
0.0497	0.0359	0.0276	0.0304	0.0193	0.0221	0.0110	0.0276	0.0166	0.0221
* 1000	0.0221	0.0110	0.0110	0.0/18					
0 0976	0 0537	0 0407	0 0003	0 0860	0 0416	0 0644	0 0659	0 0618	0 0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0130	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618	0.0133	0.011/	5.5250	0.0210	010101
* HDBT	319413	510005	310012	2.0010					
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC									
0.0429	0.1078	0.1038	0.0971	0.0725	0.0888	0.0652	0.0601	0.0453	0.0326
0.0293	0.0206	0.0196	0.0176	0.0147	0.0138	0.0111	0.0083	0.0069	0.0074
0.0084	0.0081	0.0101	0.0102	0.0981					

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* LDV									
0.0363	0.0609	0.0652	0.0683	0.0661	0.0727	0.0715	0.0664	0.0733	0.0605
0.0543	0.0514	0.0431	0.0441	0.0348	0.0270	0.0209	0.0158	0.0135	0.0094
0.0071	0.0057	0.0043	0.0032	0.0241					
* LDT1									
0.0257	0.0559	0.0427	0.0518	0.0230	0.0907	0.1057	0.1137	0.0512	0.0575
0.0490	0.0575	0.0640	0.0160	0.0070	0.0102	0.0083	0.0106	0.0075	0.0186
0.0263	0.0155	0.0173	0.0081	0.0660					
* LDT2									
0.0330	0.0615	0.0697	0.0856	0.0915	0.0802	0.0819	0.0707	0.0723	0.0585
0.0547	0.0483	0.0383	0.0340	0.0282	0.0182	0.0120	0.0104	0.0080	0.0069
0.0064	0.0048	0.0039	0.0021	0.0190					
* LDT3									
0.0349	0.0572	0.0853	0.0836	0.1073	0.0979	0.0870	0.0662	0.0651	0.0641
0.0359	0.0318	0.0279	0.0303	0.0247	0.0161	0.0107	0.0078	0.0108	0.0086
0.0068	0.0055	0.0047	0.0034	0.0264					
* LDT4									
0.0454	0.1278	0.0760	0.0936	0.1278	0.1029	0.0540	0.0672	0.0640	0.0719
0.0584	0.0408	0.0135	0.0103	0.0098	0.0065	0.0023	0.0022	0.0036	0.0046
0.0055	0.0028	0.0010	0.0007	0.0074					
* HDV21	3								
0.0397	0.0494	0.0999	0.0680	0.0777	0.0863	0.0640	0.0699	0.0724	0.0495
0.0307	0.0461	0.0295	0.0349	0.0213	0.0141	0.0118	0.0084	0.0110	0.0127
0.0126	0.0083	0.0104	0.0104	0.0608					
* HDV3									
0.0550	0.0502	0.1228	0.0835	0.0705	0.0651	0.0604	0.0583	0.0615	0.0633
0.0275	0.0323	0.0155	0.0272	0.0235	0.0089	0.0089	0.0073	0.0131	0.0130
0.0179	0.0203	0.0118	0.0111	0.0709					
* HDV4									
0.0378	0.0703	0.0789	0.0546	0.0506	0.0687	0.0506	0.0595	0.0891	0.0841
0.0325	0.0516	0.0276	0.0365	0.0509	0.0171	0.0164	0.0125	0.0174	0.0174
0.0171	0.0062	0.0039	0.0059	0.0425					
* HDV5									
0.0473	0.0946	0.1164	0.0880	0.1230	0.0861	0.0473	0.0549	0.0634	0.0643
0.0161	0.0710	0.0359	0.0237	0.0170	0.0076	0.0085	0.0019	0.0028	0.0057
0.0019	0.0028	0.0019	0.0028	0.0152					
* HDV6									
0.0426	0.1203	0.1095	0.1059	0.0599	0.0489	0.0537	0.0514	0.0620	0.0520
0.0447	0.0379	0.0299	0.0457	0.0131	0.0144	0.0099	0.0114	0.0115	0.0054
0.0051	0.0063	0.0065	0.0046	0.0474					
* HDV7									
0.0318	0.0457	0.0498	0.0579	0.0318	0.0416	0.0433	0.0465	0.0579	0.0612
0.0433	0.0277	0.0228	0.0433	0.0212	0.0253	0.0188	0.0367	0.0481	0.0269
0.0318	0.0245	0.0106	0.0131	0.1382					
* HDV8/	A								
0.0500	0.0741	0.0887	0.0949	0.0470	0.0587	0.0441	0.0649	0.0587	0.0545
0.0516	0.0250	0.0304	0.0354	0.0221	0.0137	0.0125	0.0121	0.0175	0.0200
0.0158	0.0154	0.0079	0.0083	0.0766					
* HDV81	3								
0.0508	0.0733	0.0883	0.0959	0.0470	0.0583	0.0451	0.0658	0.0583	0.0545
0.0508	0.0244	0.0301	0.0357	0.0226	0.0132	0.0132	0.0132	0.0169	0.0207
0.0150	0.0150	0.0075	0.0075	0.0771				ನನ್ನು ಕಾರ್ಮ್ ಕಾರ್ಟ್	
* HDBS									
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618	5.5405	J C V de de 1			
* HDBT	5.0115	3.0000	V.VV14	3.0010					
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306	5.0000	0.0100	5.0050	5.0005	0.04000
* MC	0.0210	0.0010	0.0005	0.0000					
0 0453	0 1243	0 1154	0 0976	0 0734	0 0864	0 0691	0 0628	0 0476	0 0346
0 0210	0 0183	0 0186	0 0172	0 0112	0 0085	0 0092	0.0060	0.0058	0.0052
0.0048	0.0047	0.0085	0.0062	0.0981	0.0000	0.0092	0.0000	0.0000	0.0002
U.UUIO	JAUVII	0.0000	0.0002	J. J. J. J. J. L.					

Prince George's County, MD-2008 Registration Data

* LDV									
0.0485	0.0754	0.0752	0.0782	0.0734	0.0765	0.0697	0.0648	0.0690	0.0567
0.0507	0.0461	0.0380	0.0370	0.0297	0.0236	0.0185	0.0149	0.0118	0.0078
0.0055	0.0045	0.0032	0.0024	0.0189					
* LDT1									1925 - 1425 P. F. H. P. H.
0.0486	0.0967	0.0680	0.0753	0.0224	0.0899	0.0937	0.0760	0.0541	0.0515
0.0372	0.0456	0.0532	0.0119	0.0084	0.0106	0.0097	0.0080	0.0101	0.0186
* 1.072	0.0249	0.0154	0.0044	0.0403					
0 0380	0 0754	0 0836	0 0963	0 0992	0 0847	0 0823	0 0673	0 0689	0 0522
0.0493	0.0423	0.0312	0.0296	0.0243	0.0166	0.0103	0.0093	0.0071	0.0065
0.0050	0.0038	0.0028	0.0018	0.0120			010000	0.0012	010000
* LDT3									
0.0398	0.0692	0.0968	0.0980	0.1142	0.1022	0.0879	0.0675	0.0639	0.0573
0.0318	0.0266	0.0250	0.0259	0.0197	0.0123	0.0102	0.0051	0.0072	0.0067
0.0056	0.0045	0.0027	0.0023	0.0176					
* LDT4									
0.0403	0.1263	0.0946	0.1283	0.1487	0.1001	0.0571	0.0557	0.0505	0.0688
0.0432	0.0317	0.0118	0.0090	0.0083	0.0039	0.0025	0.0013	0.0032	0.0034
U.0040	0.0018	0.0005	0.0003	0.0048					
0 0100	0 0402	0 0957	0 0794	0 1047	0 0077	0 0744	0 0704	0 0726	0 0606
0 0301	0 0432	0.0057	0.0794	0.1047	0.0977	0 0096	0.0794	0.0736	0.0107
0.0094	0.0076	0.0085	0.0076	0.0500	0.0101	0.0090	0.0000	0.0009	0.0121
* HDV3		310000		3.0000					
0.0380	0.0468	0.1215	0.1343	0.0885	0.0774	0.0684	0.0690	0.0607	0.0659
0.0191	0.0245	0.0134	0.0230	0.0162	0.0096	0.0085	0.0040	0.0110	0.0076
0.0170	0.0101	0.0093	0.0074	0.0487					
* HDV4		Aur and the second	Note a capture research			Theorem States and the			
0.0295	0.0403	0.0869	0.0915	0.0729	0.0636	0.0558	0.0574	0.0737	0.0861
0.0326	0.0512	0.0279	0.0372	0.0458	0.0209	0.0163	0.0093	0.0240	0.0302
0.0202	0.0016	0.0008	0.0031	0.0213					
* HDV5	0 0000	0 1005	0 0000	0 1407	0 0040	0.0505	0 0000	0 0700	0.0057
0.0269	0.0504	0.1225	0.0890	0.1427	0.0940	0.0587	0.0688	0.0789	0.0957
0.0034	0.0067	0.0000	0.0000	0.0098	0.0101	0.0007	0.0000	0.0134	0.0134
* HDV6	0.0007	0.0000	0.0000	0.0000					
0.0284	0.0766	0.1006	0.1021	0.0993	0.0538	0.0637	0.0566	0.0740	0.0659
0.0393	0.0229	0.0236	0.0422	0.0212	0.0159	0.0090	0.0109	0.0133	0.0113
0.0020	0.0100	0.0102	0.0032	0.0441					
* HDV7									
0.0259	0.0628	0.0499	0.0813	0.0462	0.0462	0.0351	0.0425	0.0646	0.0536
0.0277	0.0425	0.0296	0.0369	0.0166	0.0166	0.0296	0.0148	0.0388	0.0222
0.0222	0.0296	0.0240	0.0203	0.1208					
* HDV87	A DCOC	0 0000	0 0000	0 0010	0 0000	0 0500	0 0555	0 000	0.0010
0.0082	0.0686	0.0890	0.0955	0.0710	0.0620	0.0522	0.0555	0.0694	0.0718
0.0449	0.0384	0.0376	0.04/3	0.0310	0.0220	0.0106	0.0073	0.0114	0.0100
* HDV81	3	0.0002	0.0049	0.0441					
0.0067	0.0705	0.0906	0.0940	0.0705	0.0604	0.0537	0.0570	0.0705	0.0705
0.0470	0.0403	0.0369	0.0470	0.0302	0.0201	0.0101	0.0067	0.0101	0.0201
0.0201	0.0101	0.0067	0.0067	0.0436					
* HDBS									
0.0876	0.0537	0.0407	0.0093	0.0860	0.0416	0.0644	0.0658	0.0618	0.0723
0.0604	0.0450	0.0197	0.0325	0.0241	0.0139	0.0117	0.0236	0.0415	0.0404
0.0111	0.0179	0.0089	0.0042	0.0618					
* HDBT									
0.0564	0.0312	0.0839	0.1056	0.0594	0.0545	0.0651	0.0641	0.0947	0.0426
0.0634	0.0756	0.0156	0.0208	0.0179	0.0096	0.0166	0.0096	0.0085	0.0259
0.0190	0.0216	0.0015	0.0063	0.0306					
* MC	0 1100	0 1110	0 1001	0.0200	0 0001	0.0705	0 0010	0.0407	0.0000
0.0445	0.1182	0.1112	0.1094	0.0798	0.0924	0.0706	0.0615	0.0491	0.0368
0.0249	0.0202	0.0209	0.0124	0.0137	0.0096	0.0078	0.0058	0.0049	0.0056
0.0034	0.0053	0.0076	0.0065	0.0/19					

FILINCE WILLIAM, VA-2000 Registration Dat	Prince	ce William,	VA-2008	Registration	Data
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*LDV									
0.0000	0.0000	0.0057	0.0057	0.0025	0.0022	0.0031	0.0020	0.0017	0.0027
0.0021	0.0017	0.0021	0.0021	0.0004	0.0018	0.0027	0.0071	0.0014	0.0009
0.0009	0.0342	0.0197	0.1269	0.1269					
*LDT1	10. au								
0.0000	0.0000	0.0127	0.0136	0.0000	0.0000	0.0002	0.0000	0.0000	0.0000
0.0002	0.0000	0.0007	0.0011	0.0040	0.0000	0.0022	0.0013	0.0000	0.0039
0.0014	0.0054	0.0074	0.0115	0.0115					
*LDT2		100 100 1170 MAX			15				
0.0000	0.0000	0.0010	0.0009	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0002	0.0000	0.0002	0.0000	0.0003	0.0002	0.0000	0.0013
0.0006	0.0023	0.0037	0.0034	0.0034					
*LDT3									
0.0066	0.0038	0.0005	0.0000	0.0004	0.0000	0.0002	0.0002	0.0001	0.0007
0.0013	0.0024	0.0021	0.0069	0.0037	0.0034	0.0009	0.0071	0.0053	0.0058
0.0085	0.0153	0.0144	0.0302	0.0302					
*LDT4					-		1992 C 1992 P 44-90 P 44-	Inter - States was an	alasti oʻri pasatti bili
0.0092	0.0024	0.0008	0.0000	0.0005	0.0000	0.0003	0.0002	0.0002	0.0007
0.0010	0.0022	0.0044	0.0192	0.0094	0.0091	0.0040	0.0276	0.0140	0.0130
0.0129	0.0355	0.0595	0.1294	0.1294					
*HDV2B	0 1011								
0.1827	0.1813	0.2401	0.2472	0.2263	0.1824	0.1887	0.1809	0.1688	0.2256
0.2031	0.2563	0.2171	0.1831	0,1962	0.2278	0.1777	0.1917	0.2028	0.1914
0.1282	0.2577	0.2331	0.1586	0.1586					
*HDV3	0 5410	0 5400	0 5450	0 0005					
0.5873	0.5419	0.5403	0.5479	0.3985	0.5310	0.4618	0.4162	0.5045	0.5776
0.3933	0.4257	0.4710	0.3796	0.3563	0.5035	0.3854	0.4647	0.5669	0.4169
+11014	0.4/41	0.4139	0.1/61	0.1761					
*HDV4	0 7000	0.0404	0 2010	0 7710	0 000	0.0000			
0.7659	0.7298	0.8404	0.7818	0.7713	0.6388	0.5366	0.4719	0.5624	0.5561
0.0000	0.4581	0.4138	0.5246	0.3365	0.6453	0.2857	0.2803	0.3333	0.3659
*UDVE	0.0896	0.0238	0.0204	0.0204					
~ HDV5	0 0606	0 0216	0 0205	0 0262	0 0074	0 0224	0 0270	0 0004	0 0011
0.9442	0.9000	0.9510	0.5305	0.9203	0.05/4	0.9324	0.9379	0.0904	0.6420
0.2233	0.6316	0.7600	0.5294	0.0000	0.9565	0.7391	0.5000	0.7500	0.0429
*HDV6	0.0310	0.1092	0.0000	0.0000		-			
0 9309	0 8810	0 8980	0 9633	0 8973	0 8906	0 9035	0 8921	0 9134	0 9591
0.8766	0.9027	0.8965	0.9151	0 8156	0.8920	0.7168	0 7483	0 7354	0.0001
0 5872	0 6115	0 5407	0 6127	0 6127	0.0520	0.7100	0.7405	0.7554	0.1230
*HDV7	0.0110	0.0107	0.0121	0.0121					
1,0000	1.0000	1,0000	1,0000	1,0000	0,9914	0.9922	0.9887	0.9752	0.9565
0.9786	0.9070	0.9762	0.9867	1.0000	0.9770	0.9623	0.9091	0.8933	0.9082
0.8889	0.8224	0.7692	0.7963	0.7963		212440	******		1.3004
*HDV8A									
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9940	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9910
0.9833	1.0000	0.9677	1,0000	1.0000	2.0000	2.0000		2.0000	
*HDV8B									
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9900	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
*HDBS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDBT									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					

District of Columbia -- 2008 Diesel Sales Fractions

Maryland2008	Diesel	Sales	Fractions
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*LDV									
0.0001	0.0000	0.0072	0.0065	0.0030	0.0028	0.0039	0.0025	0.0023	0.0033
0.0024	0.0015	0.0022	0.0022	0.0005	0.0018	0.0025	0.0092	0.0014	0.0015
0.0011	0.0356	0.0213	0.1174	0.1174					
*LDT1									
0.0004	0.0000	0.0137	0 0113	0 0000	0 0002	0 0006	0 0000	0 0000	0 0003
0 0003	0 0000	0 0008	0 0000	0 0093	0 0043	0.0034	0 0020	0.0021	0.0074
0.0021	0.0061	0.0005	0.0106	0.0106	0.0045	0.0054	0.0020	0.0021	0.0074
*1.0021	0.0001	0.0095	0.0100	0.0100					
0.0000	0 0000	0 0013	0 0000	0 0000	0 0000	0 0001	0 0000	0 0000	0 0000
0.0000	0.0000	0.0013	0.0009	0.0000	0.0000	0.0001	0.0000	0.0000	0.0001
0.0000	0.0000	0.0002	0.0000	0.0004	0.0003	0.0004	0.0002	0.0003	0.0021
0.0011	0.0029	0.0048	0.0041	0.0041					
*LDT3					127 11272-1272		1001		(2) (2) (2) (2) (2) (2)
0.0050	0.0032	0.0005	0.0001	0.0002	0.0001	0.0001	0.0004	0.0001	0.0006
0.0021	0.0020	0.0036	0.0090	0.0034	0.0034	0.0016	0.0046	0.0062	0.0053
0.0105	0.0135	0.0142	0.0283	0.0283					
*LDT4									
0.0058	0.0017	0.0006	0.0001	0.0002	0.0001	0.0002	0.0005	0.0001	0.0006
0.0016	0.0018	0.0081	0.0254	0.0090	0.0091	0.0057	0.0146	0.0136	0.0096
0.0119	0.0239	0.0663	0.1156	0.1156					
*HDV2B									
0.2489	0.2799	0.3226	0.3024	0.3018	0.2465	0.2574	0.2273	0.2142	0.2780
0.1759	0.3466	0.3010	0.2688	0.2802	0.3135	0.2249	0.2684	0.2284	0.1576
0.1451	0.1966	0.2637	0.1867	0.1867					
*HDV3									
0.7295	0.6937	0.6385	0.6512	0.5498	0.6095	0.5424	0.5236	0.6010	0.6499
0 4335	0.4679	0.5568	0.4406	0.3695	0.5414	0.4535	0.4405	0.5072	0 4088
0.4333	0.4075	0.3360	0.1729	0.3095	0.5414	0.4555	0.4405	0.5072	0.4000
*UDV4	0.4001	0.3700	0.1/39	0.1/39					
~HDV4	0 7520	0 7501	0 7202	0 7201	0 6100	0 6000	0 5000	0 (1()	0 5000
0.7909	0.7538	0.7521	0.7392	0.7381	0.6108	0.6000	0.5000	0.6163	0.5696
0.4602	0.5439	0.4/40	0.6007	0.3858	0.6454	0.3333	0.3107	0.3704	0.4444
0.3361	0.0000	0.0000	0.0476	0.0476					
*HDV5	New Street Street	42 C 1476 MA MA		MONTON MALINE MALINE					
0.9242	0.9569	0.9126	0.9405	0.8964	0.8912	0.8476	0.9098	0.8289	0.7977
0.6000	0.5317	0.6230	0.3443	0.6429	0.9091	0.7368	0.5000	0.5833	0.8000
0.7143	0.5455	1.0000	0.2000	0.2000					
*HDV6	1.44								
0.9316	0.8757	0.8770	0.9450	0.8068	0.8317	0.8559	0.8795	0.8739	0.8325
0.8966	0.9438	0.9464	0.9586	0.8876	0.9417	0.7353	0.7612	0.8295	0.7308
0.6596	0.6667	0.6042	0.6129	0.6129					
*HDV7									
1.0000	1.0000	1.0000	0.9935	1.0000	1.0000	0.9891	0.9845	0.9868	0.9771
0.9813	0.9091	0.9722	1,0000	0.9500	0.9577	0.9315	0.9417	0.9111	0,9186
0.8942	0.8723	0.8525	0.7895	0.7895				2 1 2 4 4 4 A	
*HDV9A	0.0120	1.0343	5.7020	5.1020					
1 0000	1 0000	1 0000	0 9990	1 0000	1 0000	1 0000	1 0000	0 9975	1 0000
1 0000	1.0000	0.0000	1 0000	1 0000	1.0000	1.0000	1.0000	1 0000	1.0000
1.0000	1.0000	0.9946	1.0000	1.0000	1.0000	1.0000	1.0000	T.0000	1.0000
0.9911	1.0000	0.9846	T.0000	1.0000					
*HDV8B	1 0000		0.004.5	1 000-	1 0000	1 0000	1 0000	1 0000	1 0000
1.0000	1.0000	1.0000	0.9919	1.0000	1.0000	1.0000	1.0000	T.0000	1.0000
1.0000	1.0000	1.0000	0.9815	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
*HDBS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDBT									-
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
	3.0000	3.0000	2.0000	3.0000					

Virginia200	3 Diesel	Sales	Fractions
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*LDV			1						
0.0000	0.0000	0.0068	0.0067	0.0032	0.0024	0.0033	0.0022	0.0020	0.0027
0.0021	0.0017	0.0019	0.0019	0.0003	0.0024	0.0025	0.0055	0.0017	0.0012
0.0002	0.0324	0.0175	0.1350	0.1350					
*LDT1									
0.0000	0.0000	0.0160	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0003	0.0035	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0024	0.0012	0.0127	0.0210	0.0210					
*LDT2									
0.0000	0.0000	0.0011	0.0012	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0001	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0010	0.0006	0.0057	0.0052	0.0052					
*LDT3									
0.0069	0.0032	0.0008	0.0000	0.0005	0.0000	0.0001	0.0001	0.0001	0.0011
0.0035	0.0032	0.0037	0.0077	0.0057	0.0029	0.0016	0.0076	0.0065	0.0027
0.0102	0.0098	0.0185	0.0212	0.0212					
*LDT4									
0.0099	0.0023	0.0013	0.0000	0.0005	0.0000	0.0001	0.0001	0.0002	0.0012
0.0034	0.0035	0.0090	0.0251	0.0144	0.0090	0.0069	0.0360	0.0181	0.0074
0.0189	0.0250	0.1038	0.1000	0.1000		1.200 B. TOTA		and show the the	
*HDV2B									
0.2244	0.2015	0.2735	0.3024	0.2835	0.2364	0.2169	0.2321	0.2146	0.2567
0.1356	0.2791	0.2887	0.2108	0.2491	0.2957	0.2366	0.2623	0.2062	0.2299
0.1474	0.1680	0.2313	0,2231	0.2231		999 CENTER TOTO TO			and the second fields.
*HDV3									
0.6152	0.5965	0.6516	0.6250	0.4485	0.5224	0.5456	0.5118	0.5369	0.5917
0.3981	0.5286	0.5172	0.4000	0.4022	0.5567	0.4167	0.5614	0.5102	0.5000
0.5394	0.5000	0.4304	0.1481	0.1481					
*HDV4									
0.8280	0.7461	0.7872	0.7749	0.7892	0.6648	0.5658	0.5271	0.5501	0.5496
0.4773	0.4439	0.4667	0.5592	0.3868	0.5684	0.3837	0.3529	0.3836	0.4316
0.2500	0.0769	0.0556	0.0000	0.0000					
*HDV5									1.
0.9545	0.9758	0.9228	0.9346	0.8804	0.9095	0.9384	0.8929	0.8962	0.8653
0.7391	0.4634	0.5938	0.5349	0.6000	0.8889	0.6364	0.6667	0.7273	0.8462
0.2308	0.5882	0.0000	0.0000	0.0000					
&HDV6									
0.9108	0.8445	0.8244	0.9495	0.8416	0.8284	0.8340	0.8966	0.8782	0.8251
0.8802	0.8783	0.8651	0.8745	0.8642	0.8571	0.7593	0.8095	0.7206	0.7736
0.5500	0.6047	0.4634	0.5294	0.5294					
*HDV7									
1.0000	1.0000	0.9875	1.0000	1.0000	0.9701	0.9839	1.0000	0.9524	0.9167
0.9700	0.8784	0.9194	0.9677	0.9706	0.9778	0.9848	0.9459	0.9405	0.8596
0.8356	0.8026	0.6818	0.7143	0.7143	where control is a second s				
*HDV8A									
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9947	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9870
1.0000	1.0000	1.0000	1.0000	1.0000					
*HDV8B									
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9865	1.0000
1.0000	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000					
*HDBS									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDBT									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	- TOTATE TATOT		- AND - CORD - CO		

*LDV									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*LDT1									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 0000	0 0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0 0000	0 0000	0 0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
*1.0000	0.0000	0.0000	0.0000	0.0000					
0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*LDT3		2 1/2/2/2/2					101 100000000	ADT NEXEMBORY	100 100 100 100 100 100 100 100 100 100
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*LDT4									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV2B									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV3	3,0000								
0.0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV4									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV5									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV6		2.1.27							
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV7			2.0000	0.0000					
0.0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000	0 0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV8A							0 0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDV8B									
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
0.0000	0.0000	0.0000	0.0000	0.0000					
*HDBS									
1,0000	1.0000	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1,0000
1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1 0000	1 0000	1 0000	1 0000	1 0000	2.0000	2.0000	2.0000		
*10000	1.0000	1.0000	1.0000	2.0000					
1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000	1 0000
1.0000	1.0000	1.0000	1,0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000	T.0000	T.0000	T.0000	T.0000	T.0000
1.0000	1.0000	1.0000	1.0000	1.0000					

Region--2008 Diesel Sales Fractions for Bus