

Appendix 3

MOBILE5a (3/29/97) Sample Input Files
Composite Emission Factor Tables,
and Total On-Road Inventory Tables
for
FMVCP and RVP Impacts

Sample Input File - I/M Program

Note: To calculate impacts of RVP and FMVCOP for 1997, 1998, and 1999, the same input file was used except the appropriate year (97, 98, or 99) was substituted for 1996. Except for the year, this input file is identical to the 1990 base year no-I/M input file.

```
1
96base 1996 1990 I/M MOBILE5a CAA Disabled O3 1/5/98
1    TAMFLG  tampering effects rates: 1 is nat
1    SPDFLG  speed by veh type: 1 is one for all
1    VMFLAG  VMT by veh type: 1 is nat default
3    MYMFLG  reg dist local but mi accum national
5    NEWFLG  basic emission rates: 5 is national/CAA disabled
2    IMFLAG  I/M program: 2 is one program
1    ALHFLG  corr. factors: 1 is no corrections
2    ATPFLG  anti-tampering program: 2 is yes
5    RLFFLG  refueling losses: 5 is no refueling calculated
1    LOCFLG  local area param.: 1 is 1 for each scenario
2    TEMFLG  temp flag: 1 is default
3    OUTFMT  format of output: 3 is 112 col
4    PRTFLG  pollutants: 4 is all
1    IDLFLG  idle emissions: 1 is no
3    NMHFLG  hydrocarbons: 3 is VOC
1    HCFLAG  HC by component: 1 is composite only
.071 .070 .078 .077 .079 .080 .077 .067 .045 .038
.037 .036 .044 .039 .032 .021 .012 .014 .014 .011
.008 .007 .006 .005 .032
.048 .058 .069 .068 .070 .104 .077 .061 .037 .033
.031 .028 .039 .037 .032 .023 .013 .019 .021 .019
.013 .013 .012 .009 .066
.082 .077 .092 .081 .067 .078 .070 .055 .032 .026
.026 .023 .042 .042 .038 .026 .017 .021 .022 .017
.011 .010 .010 .006 .029
.028 .045 .073 .062 .048 .072 .077 .058 .030 .030
.031 .040 .070 .047 .035 .025 .030 .030 .031 .028
.015 .019 .015 .009 .052
.071 .070 .078 .077 .079 .080 .077 .067 .045 .038
.037 .036 .044 .039 .032 .021 .012 .014 .014 .011
.008 .007 .006 .005 .032
.048 .058 .069 .068 .070 .104 .077 .061 .037 .033
.031 .028 .039 .037 .032 .023 .013 .019 .021 .019
.013 .013 .012 .009 .066
.047 .083 .076 .083 .082 .099 .087 .074 .031 .036
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.040 .041 .054 .036 .024 .013 .013 .018 .017 .012
.008 .006 .005 .002 .013
.030 .036 .047 .049 .069 .097 .088 .063 .073 .105
.076 .267 .000 .000 .000 .000 .000 .000 .000 .000
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77 28 67 20 10 04 097 1 1 2222 2111
87 75 20 2222 11 97.0 22211112
1 **96** 20.0 98.8 20.6 27.3 20.6 7
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.001.045.001.045.001.045.001.049.000.024.001.032.000.024.000.023.000.017.002.021
.002.033.007.050.010.071.018.108.037.104.028.052.021.028.014.016.007.006.004.003
.009.002.012.009.005.008.005.006.005.002
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.002.033.007.050.010.071.018.108.037.104.028.052.021.028.014.016.007.006.004.003
.009.002.012.009.005.008.005.006.005.002

Sample Input File - No I/M Program

Note: To calculate impacts of RVP and FMVCOP for 1997, 1998, and 1999, the same input file was used except the appropriate year (97, 98, or 99) was substituted for 1996. Except for the year, this input file is identical to the 1990 base year no-I/M input file.

```
1
96base/NO 1996 no I/M MOBILE5a CAA Disabled O3 1/5/98
1    TAMFLG  tampering effects rates: 1 is nat
1    SPDFLG  speed by veh type: 1 is one for all
1    VMFLAG  VMT by veh type: 1 is nat default
3    MYMFLG  reg dist local but mi accum national
5    NEWFLG  basic emission rates: 5 is national/CAA disabled
1    IMFLAG  I/M program: 1 is no
1    ALHFLG  corr. factors: 1 is no corrections
1    ATPFLG  anti-tampering program: 1 is no
5    RLFFLG  refueling losses: 5 is no refueling calculated
1    LOCFLG  local area param.: 1 is 1 for each scenario
2    TEMFLG  temp flag: 2 is local input
6    OUTFMT  format of output: 3 is 112 col
4    PRTFLG  pollutants: 4 is all
1    IDLFLG  idle emissions: 1 is no
3    NMHFLG  hydrocarbons: 3 is VOC
1    HCFLAG  HC by component: 1 is composite only
.071 .070 .078 .077 .079 .080 .077 .067 .045 .038
.037 .036 .044 .039 .032 .021 .012 .014 .014 .011
.008 .007 .006 .005 .032
.048 .058 .069 .068 .070 .104 .077 .061 .037 .033
.031 .028 .039 .037 .032 .023 .013 .019 .021 .019
.013 .013 .012 .009 .066
.082 .077 .092 .081 .067 .078 .070 .055 .032 .026
.026 .023 .042 .042 .038 .026 .017 .021 .022 .017
.011 .010 .010 .006 .029
.028 .045 .073 .062 .048 .072 .077 .058 .030 .030
.031 .040 .070 .047 .035 .025 .030 .030 .031 .028
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.048 .058 .069 .068 .070 .104 .077 .061 .037 .033
.031 .028 .039 .037 .032 .023 .013 .019 .021 .019
.013 .013 .012 .009 .066
.047 .083 .076 .083 .082 .099 .087 .074 .031 .036
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.040 .041 .054 .036 .024 .013 .013 .018 .017 .012
.008 .006 .005 .002 .013
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.002.033.007.050.010.071.018.108.037.104.028.052.021.028.014.016.007.006.004.003
.009.002.012.009.005.008.005.006.005.002

1996 Composite Emission Factors

MOBILE5a Run: 96base/96baseno 1/5/98

I/M splits: 88% I/M and 12% Non-I/M

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDGV	Urban					LDGT2	Urban						
	Fwys & Expwys	55.7	1.356	1.590	1.384		Fwys & Expwys	55.7	1.900	2.365	1.956		
	Principal art.	30.3	1.920	2.247	1.959		Principal art.	30.3	2.556	3.164	2.629		
	Minor art.	30.3	1.920	2.247	1.959		Minor art.	30.3	2.556	3.164	2.629		
	Collectors	25	2.189	2.575	2.235		Collectors	25	2.899	3.602	2.983		
	Local roads	20	2.546	3.016	2.602		Local roads	20	3.364	4.200	3.464		
	Rural						Rural						
	Fwys & Expwys	59.3	1.451	1.734	1.485		Fwys & Expwys	59.3	2.083	2.651	2.151		
	Principal art.	30.3	1.419	1.958	1.484		Principal art.	30.3	2.027	2.789	2.118		
	Minor art.	30.3	1.419	1.958	1.484		Minor art.	30.3	2.027	2.789	2.118		
	Collectors	30	1.933	2.263	1.973		Collectors	30	2.572	3.185	2.646		
	Local roads	20	2.546	3.016	2.602		Local roads	20	3.364	4.200	3.464		
LDGT1	Urban					HDGV	Urban						
	Fwys & Expwys	55.7	1.751	2.186	1.803		Fwys & Expwys	55.7	3.756	3.893	3.772		
	Principal art.	30.3	2.321	2.902	2.391		Principal art.	30.3	5.061	5.317	5.092		
	Minor art.	30.3	2.321	2.902	2.391		Minor art.	30.3	5.061	5.317	5.092		
	Collectors	25	2.620	3.302	2.702		Collectors	25	5.782	6.115	5.822		
	Local roads	20	3.019	3.835	3.117		Local roads	20	6.815	7.261	6.869		
	Rural						Rural						
	Fwys & Expwys	59.3	1.896	2.429	1.960		Fwys & Expwys	59.3	3.715	3.851	3.731		
	Principal art.	30.3	1.829	2.559	1.917		Principal art.	30.3	3.963	4.693	4.051		
	Minor art.	30.3	1.829	2.559	1.917		Minor art.	30.3	3.963	4.693	4.051		
	Collectors	30	2.336	2.921	2.406		Collectors	30	5.094	5.354	5.125		
	Local roads	20	3.019	3.835	3.117		Local roads	20	6.815	7.261	6.869		

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDDV	Urban					HDDV	Urban						
	Fwys & Expwys	55.7	0.366	0.366	0.366		Fwys & Expwys	55.7	1.058	1.058	1.058		
	Principal art.	30.3	0.566	0.566	0.566		Principal art.	30.3	1.636	1.636	1.636		
	Minor art.	30.3	0.566	0.566	0.566		Minor art.	30.3	1.636	1.636	1.636		
	Collectors	25	0.666	0.666	0.666		Collectors	25	1.924	1.924	1.924		
	Local roads	20	0.794	0.794	0.794		Local roads	20	2.295	2.295	2.295		
	Rural						Rural						
	Fwys & Expwys	59.3	0.360	0.360	0.360		Fwys & Expwys	59.3	1.041	1.041	1.041		
	Principal art.	30.3	0.481	0.481	0.481		Principal art.	30.3	1.389	1.389	1.389		
	Minor art.	30.3	0.481	0.481	0.481		Minor art.	30.3	1.389	1.389	1.389		
	Collectors	30	0.571	0.571	0.571		Collectors	30	1.650	1.650	1.650		
	Local roads	20	0.794	0.794	0.794		Local roads	20	2.295	2.295	2.295		
LDDT	Urban					MC	Urban						
	Fwys & Expwys	55.7	0.359	0.359	0.359		Fwys & Expwys	55.7	8.063	8.063	8.063		
	Principal art.	30.3	0.555	0.555	0.555		Principal art.	30.3	8.451	8.451	8.451		
	Minor art.	30.3	0.555	0.555	0.555		Minor art.	30.3	8.451	8.451	8.451		
	Collectors	25	0.653	0.653	0.653		Collectors	25	8.739	8.739	8.739		
	Local roads	20	0.779	0.779	0.779		Local roads	20	9.103	9.103	9.103		
	Rural						Rural						
	Fwys & Expwys	59.3	0.353	0.353	0.353		Fwys & Expwys	59.3	8.433	8.433	8.433		
	Principal art.	30.3	0.472	0.472	0.472		Principal art.	30.3	7.388	8.196	7.485		
	Minor art.	30.3	0.472	0.472	0.472		Minor art.	30.3	7.388	8.196	7.485		
	Collectors	30	0.560	0.560	0.560		Collectors	30	8.466	8.466	8.466		
	Local roads	20	0.779	0.779	0.779		Local roads	20	9.103	9.103	9.103		

1996 Total On-Road Inventory

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDGV VMT fraction: 0.649	Urban					LDGT2 VMT fraction: 0.085	Urban					
	Fwys & Expwys	55.7	1.38	6,231,162	5597		Fwys & Expwys	55.7	1.96	6,231,162	1036	
	Principal art.	30.3	1.96	12,674,890	16117		Principal art.	30.3	2.63	12,674,890	2832	
	Minor art.	30.3	1.96	3,492,062	4440		Minor art.	30.3	2.63	3,492,062	780	
	Collectors	25	2.24	1,408,728	2044		Collectors	25	2.98	1,408,728	357	
	Local roads	20	2.60	4,378,342	7395		Local roads	20	3.46	4,378,342	1289	
	Rural						Rural					
	Fwys & Expwys	59.3	1.48	2,094,702	2019		Fwys & Expwys	59.3	2.15	2,094,702	383	
	Principal art.	36.7	1.48	6,695,709	6447		Principal art.	36.7	2.12	6,695,709	1206	
	Minor art.	36.7	1.48	1,844,736	1776		Minor art.	36.7	2.12	1,844,736	332	
	Collectors	30	1.97	904,098	1157		Collectors	30	2.65	904,098	203	
	Local roads	20	2.60	2,821,554	4765		Local roads	20	3.46	2,821,554	831	
LDGT1 VMT fraction: 0.158	Urban					HDGV VMT fraction: 0.035	Urban					
	Fwys & Expwys	55.7	1.80	6,231,162	1775		Fwys & Expwys	55.7	3.77	6,231,162	823	
	Principal art.	30.3	2.39	12,674,890	4788		Principal art.	30.3	5.09	12,674,890	2259	
	Minor art.	30.3	2.39	3,492,062	1319		Minor art.	30.3	5.09	3,492,062	622	
	Collectors	25	2.70	1,408,728	601		Collectors	25	5.82	1,408,728	287	
	Local roads	20	3.12	4,378,342	2156		Local roads	20	6.87	4,378,342	1053	
	Rural						Rural					
	Fwys & Expwys	59.3	1.96	2,094,702	649		Fwys & Expwys	59.3	3.73	2,094,702	274	
	Principal art.	36.7	1.92	6,695,709	2028		Principal art.	36.7	4.05	6,695,709	949	
	Minor art.	36.7	1.92	1,844,736	559		Minor art.	36.7	4.05	1,844,736	262	
	Collectors	30	2.41	904,098	344		Collectors	30	5.13	904,098	162	
	Local roads	20	3.12	2,821,554	1390		Local roads	20	6.87	2,821,554	678	
Total:					67366	Total:					16618	

1996 Total On-Road Inventory - Continued

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDDV VMT fraction: 0.007	Urban					HDDV VMT fraction: 0.057	Urban					
	Fwys & Expwys	55.7	0.37	6,231,162	16		Fwys & Expwys	55.7	1.06	6,231,162	376	
	Principal art.	30.3	0.57	12,674,890	50		Principal art.	30.3	1.64	12,674,890	1182	
	Minor art.	30.3	0.57	3,492,062	14		Minor art.	30.3	1.64	3,492,062	326	
	Collectors	25	0.67	1,408,728	7		Collectors	25	1.92	1,408,728	154	
	Local roads	20	0.79	4,378,342	24		Local roads	20	2.30	4,378,342	573	
	Rural						Rural					
	Fwys & Expwys	59.3	0.36	2,094,702	5		Fwys & Expwys	59.3	1.04	2,094,702	124	
	Principal art.	30.3	0.48	6,695,709	23		Principal art.	30.3	1.39	6,695,709	530	
	Minor art.	30.3	0.48	1,844,736	6		Minor art.	30.3	1.39	1,844,736	146	
	Collectors	30	0.57	904,098	4		Collectors	30	1.65	904,098	85	
	Local roads	20	0.79	2,821,554	16		Local roads	20	2.30	2,821,554	369	
LDDT VMT fraction: 0.002	Urban					MC VMT fraction: 0.006	Urban					
	Fwys & Expwys	55.7	0.36	6,231,162	4		Fwys & Expwys	55.7	8.06	6,231,162	301	
	Principal art.	30.3	0.56	12,674,890	14		Principal art.	30.3	8.45	12,674,890	643	
	Minor art.	30.3	0.56	3,492,062	4		Minor art.	30.3	8.45	3,492,062	177	
	Collectors	25	0.65	1,408,728	2		Collectors	25	8.74	1,408,728	74	
	Local roads	20	0.78	4,378,342	7		Local roads	20	9.10	4,378,342	239	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	1		Fwys & Expwys	59.3	8.43	2,094,702	106	
	Principal art.	30.3	0.47	6,695,709	6		Principal art.	30.3	7.48	6,695,709	301	
	Minor art.	30.3	0.47	1,844,736	2		Minor art.	30.3	7.48	1,844,736	83	
	Collectors	30	0.56	904,098	1		Collectors	30	8.47	904,098	46	
	Local roads	20	0.78	2,821,554	4		Local roads	20	9.10	2,821,554	154	
				Total:	210					Total:	5989	
										Grand total:	90184	

1997 Composite Emission Factors

MOBILE5a Run: 97base/97baseno 1/5/98

I/M splits: 88% I/M and 12% Non-I/M

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDGV	Urban					LDGT2	Urban						
	Fwys & Expwys	55.7	1.310	1.529	1.336		Fwys & Expwys	55.7	1.805	2.262	1.860		
	Principal art.	30.3	1.874	2.181	1.911		Principal art.	30.3	2.442	3.041	2.514		
	Minor art.	30.3	1.874	2.181	1.911		Minor art.	30.3	2.442	3.041	2.514		
	Collectors	25	2.141	2.505	2.185		Collectors	25	2.773	3.465	2.856		
	Local roads	20	2.497	2.940	2.550		Local roads	20	3.223	4.046	3.322		
	Rural						Rural						
	Fwys & Expwys	59.3	1.396	1.658	1.427		Fwys & Expwys	59.3	1.971	2.527	2.038		
	Principal art.	30.3	1.376	1.896	1.438		Principal art.	30.3	1.930	2.679	2.020		
	Minor art.	30.3	1.376	1.896	1.438		Minor art.	30.3	1.930	2.679	2.020		
	Collectors	30	1.887	2.197	1.924		Collectors	30	2.458	3.061	2.530		
	Local roads	20	2.497	2.940	2.550		Local roads	20	3.223	4.046	3.322		
	LDGT1	Urban					HDGV	Urban					
		Fwys & Expwys	55.7	1.697	2.113			1.747	Fwys & Expwys	55.7	3.429	3.556	3.444
Principal art.		30.3	2.266	2.823	2.333	Principal art.		30.3	4.614	4.849	4.642		
Minor art.		30.3	2.266	2.823	2.333	Minor art.		30.3	4.614	4.849	4.642		
Collectors		25	2.562	3.215	2.640	Collectors		25	5.262	5.567	5.299		
Local roads		20	2.959	3.742	3.053	Local roads		20	6.186	6.595	6.235		
Rural					Rural								
Fwys & Expwys		59.3	1.830	2.337	1.891	Fwys & Expwys		59.3	3.392	3.518	3.407		
Principal art.		30.3	1.781	2.488	1.866	Principal art.		30.3	3.574	4.285	3.659		
Minor art.		30.3	1.781	2.488	1.866	Minor art.		30.3	3.574	4.285	3.659		
Collectors		30	2.280	2.842	2.347	Collectors		30	4.644	4.882	4.673		
Local roads		20	2.959	3.742	3.053	Local roads		20	6.186	6.595	6.235		

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDDV	Urban					HDDV	Urban						
	Fwys & Expwys	55.7	0.356	0.356	0.356		Fwys & Expwys	55.7	1.032	1.032	1.032		
	Principal art.	30.3	0.550	0.550	0.550		Principal art.	30.3	1.596	1.596	1.596		
	Minor art.	30.3	0.550	0.550	0.550		Minor art.	30.3	1.596	1.596	1.596		
	Collectors	25	0.647	0.647	0.647		Collectors	25	1.877	1.877	1.877		
	Local roads	20	0.772	0.772	0.772		Local roads	20	2.239	2.239	2.239		
	Rural						Rural						
	Fwys & Expwys	59.3	0.350	0.350	0.350		Fwys & Expwys	59.3	1.016	1.016	1.016		
	Principal art.	30.3	0.467	0.467	0.467		Principal art.	30.3	1.355	1.355	1.355		
	Minor art.	30.3	0.467	0.467	0.467		Minor art.	30.3	1.355	1.355	1.355		
	Collectors	30	0.555	0.555	0.555		Collectors	30	1.609	1.609	1.609		
	Local roads	20	0.772	0.772	0.772		Local roads	20	2.239	2.239	2.239		
	LDDT	Urban					MC	Urban					
		Fwys & Expwys	55.7	0.357	0.357			0.357	Fwys & Expwys	55.7	8.052	8.052	8.052
Principal art.		30.3	0.552	0.552	0.552	Principal art.		30.3	8.437	8.437	8.437		
Minor art.		30.3	0.552	0.552	0.552	Minor art.		30.3	8.437	8.437	8.437		
Collectors		25	0.649	0.649	0.649	Collectors		25	8.722	8.722	8.722		
Local roads		20	0.774	0.774	0.774	Local roads		20	9.083	9.083	9.083		
Rural					Rural								
Fwys & Expwys		59.3	0.351	0.351	0.351	Fwys & Expwys		59.3	8.419	8.419	8.419		
Principal art.		30.3	0.469	0.469	0.469	Principal art.		30.3	7.375	8.183	7.472		
Minor art.		30.3	0.469	0.469	0.469	Minor art.		30.3	7.375	8.183	7.472		
Collectors		30	0.557	0.557	0.557	Collectors		30	8.451	8.451	8.451		
Local roads		20	0.774	0.774	0.774	Local roads		20	9.083	9.083	9.083		

1997 Total On-Road Inventory

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDGV VMT fraction: 0.649	Urban					LDGT2 VMT fraction: 0.085	Urban					
	Fwys & Expwys	55.7	1.34	6,231,162	5404		Fwys & Expwys	55.7	1.86	6,231,162	985	
	Principal art.	30.3	1.91	12,674,890	15719		Principal art.	30.3	2.51	12,674,890	2708	
	Minor art.	30.3	1.91	3,492,062	4331		Minor art.	30.3	2.51	3,492,062	746	
	Collectors	25	2.18	1,408,728	1997		Collectors	25	2.86	1,408,728	342	
	Local roads	20	2.55	4,378,342	7246		Local roads	20	3.32	4,378,342	1236	
	Rural						Rural					
	Fwys & Expwys	59.3	1.43	2,094,702	1941		Fwys & Expwys	59.3	2.04	2,094,702	363	
	Principal art.	36.7	1.44	6,695,709	6251		Principal art.	36.7	2.02	6,695,709	1150	
	Minor art.	36.7	1.44	1,844,736	1722		Minor art.	36.7	2.02	1,844,736	317	
	Collectors	30	1.92	904,098	1129		Collectors	30	2.53	904,098	194	
	Local roads	20	2.55	2,821,554	4670		Local roads	20	3.32	2,821,554	797	
LDGT1 VMT fraction: 0.158	Urban					HDGV VMT fraction: 0.035	Urban					
	Fwys & Expwys	55.7	1.75	6,231,162	1720		Fwys & Expwys	55.7	3.44	6,231,162	751	
	Principal art.	30.3	2.33	12,674,890	4672		Principal art.	30.3	4.64	12,674,890	2059	
	Minor art.	30.3	2.33	3,492,062	1287		Minor art.	30.3	4.64	3,492,062	567	
	Collectors	25	2.64	1,408,728	588		Collectors	25	5.30	1,408,728	261	
	Local roads	20	3.05	4,378,342	2112		Local roads	20	6.24	4,378,342	955	
	Rural						Rural					
	Fwys & Expwys	59.3	1.89	2,094,702	626		Fwys & Expwys	59.3	3.41	2,094,702	250	
	Principal art.	36.7	1.87	6,695,709	1974		Principal art.	36.7	3.66	6,695,709	858	
	Minor art.	36.7	1.87	1,844,736	544		Minor art.	36.7	3.66	1,844,736	236	
	Collectors	30	2.35	904,098	335		Collectors	30	4.67	904,098	148	
	Local roads	20	3.05	2,821,554	1361		Local roads	20	6.24	2,821,554	616	
				Total:	65627					Total:	15540	

1997 Total On-Road Inventory - Continued

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDDV VMT fraction: 0.007	Urban					HDDV VMT fraction: 0.057	Urban					
	Fwys & Expwys	55.7	0.36	6,231,162	16		Fwys & Expwys	55.7	1.03	6,231,162	367	
	Principal art.	30.3	0.55	12,674,890	49		Principal art.	30.3	1.60	12,674,890	1153	
	Minor art.	30.3	0.55	3,492,062	13		Minor art.	30.3	1.60	3,492,062	318	
	Collectors	25	0.65	1,408,728	6		Collectors	25	1.88	1,408,728	151	
	Local roads	20	0.77	4,378,342	24		Local roads	20	2.24	4,378,342	559	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	5		Fwys & Expwys	59.3	1.02	2,094,702	121	
	Principal art.	30.3	0.47	6,695,709	22		Principal art.	30.3	1.36	6,695,709	517	
	Minor art.	30.3	0.47	1,844,736	6		Minor art.	30.3	1.36	1,844,736	142	
	Collectors	30	0.56	904,098	4		Collectors	30	1.61	904,098	83	
	Local roads	20	0.77	2,821,554	15		Local roads	20	2.24	2,821,554	360	
LDDT VMT fraction: 0.002	Urban					MC VMT fraction: 0.006	Urban					
	Fwys & Expwys	55.7	0.36	6,231,162	4		Fwys & Expwys	55.7	8.05	6,231,162	301	
	Principal art.	30.3	0.55	12,674,890	14		Principal art.	30.3	8.44	12,674,890	642	
	Minor art.	30.3	0.55	3,492,062	4		Minor art.	30.3	8.44	3,492,062	177	
	Collectors	25	0.65	1,408,728	2		Collectors	25	8.72	1,408,728	74	
	Local roads	20	0.77	4,378,342	7		Local roads	20	9.08	4,378,342	239	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	1		Fwys & Expwys	59.3	8.42	2,094,702	106	
	Principal art.	30.3	0.47	6,695,709	6		Principal art.	30.3	7.47	6,695,709	300	
	Minor art.	30.3	0.47	1,844,736	2		Minor art.	30.3	7.47	1,844,736	83	
	Collectors	30	0.56	904,098	1		Collectors	30	8.45	904,098	46	
	Local roads	20	0.77	2,821,554	4		Local roads	20	9.08	2,821,554	154	
				Total:	205					Total:	5891	
										Grand total:	87264	

1998 Composite Emission Factors

MOBILE5a Run: 98base/98baseno 1/5/98

I/M splits: 88% I/M and 12% Non-I/M

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDGV	Urban					LDGT2	Urban						
	Fwys & Expwys	55.7	1.283	1.493	1.308		Fwys & Expwys	55.7	1.718	2.147	1.769		
	Principal art.	30.3	1.846	2.143	1.882		Principal art.	30.3	2.340	2.902	2.407		
	Minor art.	30.3	1.846	2.143	1.882		Minor art.	30.3	2.340	2.902	2.407		
	Collectors	25	2.112	2.464	2.154		Collectors	25	2.659	3.309	2.737		
	Local roads	20	2.466	2.895	2.517		Local roads	20	3.096	3.868	3.189		
	Rural						Rural						
	Fwys & Expwys	59.3	1.363	1.614	1.393		Fwys & Expwys	59.3	1.865	2.383	1.927		
	Principal art.	30.3	1.609	1.600	1.608		Principal art.	30.3	2.066	2.330	2.098		
	Minor art.	30.3	1.609	1.600	1.608		Minor art.	30.3	2.066	2.330	2.098		
	Collectors	30	1.859	2.158	1.895		Collectors	30	2.355	2.921	2.423		
	Local roads	20	2.466	2.895	2.517		Local roads	20	3.096	3.868	3.189		
	LDGT1	Urban					HDGV	Urban					
		Fwys & Expwys	55.7	1.663	2.069			1.712	Fwys & Expwys	55.7	3.204	3.323	3.218
Principal art.		30.3	2.228	2.771	2.293	Principal art.		30.3	4.297	4.518	4.324		
Minor art.		30.3	2.228	2.771	2.293	Minor art.		30.3	4.297	4.518	4.324		
Collectors		25	2.520	3.157	2.596	Collectors		25	4.889	5.176	4.923		
Local roads		20	2.912	3.675	3.004	Local roads		20	5.732	6.115	5.778		
Rural					Rural								
Fwys & Expwys		59.3	1.788	2.279	1.847	Fwys & Expwys		59.3	3.169	3.287	3.183		
Principal art.		30.3	1.976	2.213	2.004	Principal art.		30.3	3.828	3.471	3.785		
Minor art.		30.3	1.976	2.213	2.004	Minor art.		30.3	3.828	3.471	3.785		
Collectors		30	2.242	2.789	2.308	Collectors		30	4.325	4.549	4.352		
Local roads		20	2.912	3.675	3.004	Local roads		20	5.732	6.115	5.778		

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)		
LDDV	Urban					HDDV	Urban						
	Fwys & Expwys	55.7	0.358	0.347	0.357		Fwys & Expwys	55.7	1.012	1.012	1.012		
	Principal art.	30.3	0.553	0.537	0.551		Principal art.	30.3	1.565	1.565	1.565		
	Minor art.	30.3	0.553	0.537	0.551		Minor art.	30.3	1.565	1.565	1.565		
	Collectors	25	0.651	0.632	0.649		Collectors	25	1.842	1.842	1.842		
	Local roads	20	0.776	0.754	0.773		Local roads	20	2.196	2.196	2.196		
	Rural						Rural						
	Fwys & Expwys	59.3	0.352	0.342	0.351		Fwys & Expwys	59.3	0.996	0.996	0.996		
	Principal art.	30.3	0.470	0.456	0.468		Principal art.	30.3	1.329	1.329	1.329		
	Minor art.	30.3	0.470	0.456	0.468		Minor art.	30.3	1.329	1.329	1.329		
	Collectors	30	0.558	0.542	0.556		Collectors	30	1.579	1.579	1.579		
	Local roads	20	0.776	0.754	0.773		Local roads	20	2.196	2.196	2.196		
	LDDT	Urban					MC	Urban					
		Fwys & Expwys	55.7	0.355	0.356			0.355	Fwys & Expwys	55.7	8.033	8.033	8.033
Principal art.		30.3	0.549	0.550	0.549	Principal art.		30.3	8.414	8.414	8.414		
Minor art.		30.3	0.549	0.550	0.549	Minor art.		30.3	8.414	8.414	8.414		
Collectors		25	0.646	0.647	0.646	Collectors		25	8.696	8.696	8.696		
Local roads		20	0.771	0.772	0.771	Local roads		20	9.052	9.052	9.052		
Rural					Rural								
Fwys & Expwys		59.3	0.350	0.350	0.350	Fwys & Expwys		59.3	8.396	8.396	8.396		
Principal art.		30.3	0.467	0.467	0.467	Principal art.		30.3	8.163	7.355	8.066		
Minor art.		30.3	0.467	0.467	0.467	Minor art.		30.3	8.163	7.355	8.066		
Collectors		30	0.554	0.555	0.554	Collectors		30	8.428	8.428	8.428		
Local roads		20	0.771	0.772	0.771	Local roads		20	9.052	9.052	9.052		

1996 Total On-Road Inventory

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDGV VMT fraction: 0.649	Urban					LDGT2 VMT fraction: 0.085	Urban					
	Fwys & Expwys	55.7	1.31	6,231,162	5290		Fwys & Expwys	55.7	1.77	6,231,162	937	
	Principal art.	30.3	1.88	12,674,890	15478		Principal art.	30.3	2.41	12,674,890	2594	
	Minor art.	30.3	1.88	3,492,062	4264		Minor art.	30.3	2.41	3,492,062	715	
	Collectors	25	2.15	1,408,728	1970		Collectors	25	2.74	1,408,728	328	
	Local roads	20	2.52	4,378,342	7154		Local roads	20	3.19	4,378,342	1187	
	Rural						Rural					
	Fwys & Expwys	59.3	1.39	2,094,702	1894		Fwys & Expwys	59.3	1.93	2,094,702	343	
	Principal art.	36.7	1.61	6,695,709	6987		Principal art.	36.7	2.10	6,695,709	1194	
	Minor art.	36.7	1.61	1,844,736	1925		Minor art.	36.7	2.10	1,844,736	329	
	Collectors	30	1.89	904,098	1112		Collectors	30	2.42	904,098	186	
	Local roads	20	2.52	2,821,554	4610		Local roads	20	3.19	2,821,554	765	
LDGT1 VMT fraction: 0.158	Urban					HDGV VMT fraction: 0.035	Urban					
	Fwys & Expwys	55.7	1.71	6,231,162	1685		Fwys & Expwys	55.7	3.22	6,231,162	702	
	Principal art.	30.3	2.29	12,674,890	4592		Principal art.	30.3	4.32	12,674,890	1918	
	Minor art.	30.3	2.29	3,492,062	1265		Minor art.	30.3	4.32	3,492,062	528	
	Collectors	25	2.60	1,408,728	578		Collectors	25	4.92	1,408,728	243	
	Local roads	20	3.00	4,378,342	2078		Local roads	20	5.78	4,378,342	885	
	Rural						Rural					
	Fwys & Expwys	59.3	1.85	2,094,702	611		Fwys & Expwys	59.3	3.18	2,094,702	233	
	Principal art.	36.7	2.00	6,695,709	2121		Principal art.	36.7	3.79	6,695,709	887	
	Minor art.	36.7	2.00	1,844,736	584		Minor art.	36.7	3.79	1,844,736	244	
	Collectors	30	2.31	904,098	330		Collectors	30	4.35	904,098	138	
	Local roads	20	3.00	2,821,554	1339		Local roads	20	5.78	2,821,554	571	
				Total:	65868					Total:	14926	

1998 Total On-Road Inventory - Continued

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDDV VMT fraction: 0.007	Urban					HDDV VMT fraction: 0.057	Urban					
	Fwys & Expwys	55.7	0.36	6,231,162	16		Fwys & Expwys	55.7	1.01	6,231,162	359	
	Principal art.	30.3	0.55	12,674,890	49		Principal art.	30.3	1.57	12,674,890	1131	
	Minor art.	30.3	0.55	3,492,062	13		Minor art.	30.3	1.57	3,492,062	312	
	Collectors	25	0.65	1,408,728	6		Collectors	25	1.84	1,408,728	148	
	Local roads	20	0.77	4,378,342	24		Local roads	20	2.20	4,378,342	548	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	5		Fwys & Expwys	59.3	1.00	2,094,702	119	
	Principal art.	30.3	0.47	6,695,709	22		Principal art.	30.3	1.33	6,695,709	507	
	Minor art.	30.3	0.47	1,844,736	6		Minor art.	30.3	1.33	1,844,736	140	
	Collectors	30	0.56	904,098	4		Collectors	30	1.58	904,098	81	
	Local roads	20	0.77	2,821,554	15		Local roads	20	2.20	2,821,554	353	
LDDT VMT fraction: 0.002	Urban					MC VMT fraction: 0.006	Urban					
	Fwys & Expwys	55.7	0.36	6,231,162	4		Fwys & Expwys	55.7	8.03	6,231,162	300	
	Principal art.	30.3	0.55	12,674,890	14		Principal art.	30.3	8.41	12,674,890	640	
	Minor art.	30.3	0.55	3,492,062	4		Minor art.	30.3	8.41	3,492,062	176	
	Collectors	25	0.65	1,408,728	2		Collectors	25	8.70	1,408,728	74	
	Local roads	20	0.77	4,378,342	7		Local roads	20	9.05	4,378,342	238	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	1		Fwys & Expwys	59.3	8.40	2,094,702	106	
	Principal art.	30.3	0.47	6,695,709	6		Principal art.	30.3	8.07	6,695,709	324	
	Minor art.	30.3	0.47	1,844,736	2		Minor art.	30.3	8.07	1,844,736	89	
	Collectors	30	0.55	904,098	1		Collectors	30	8.43	904,098	46	
	Local roads	20	0.77	2,821,554	4		Local roads	20	9.05	2,821,554	153	
				Total:	206					Total:	5844	
										Grand total:	86843	

1999 Composite Emission Factors

MOBILE5a Run: 99base/99baseno 1/5/98
 I/M splits: 88% I/M and 12% Non-I/M

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	
LDGV	Urban					LDGT2	Urban					
	Fwys & Expwys	55.7	1.259	1.465	1.284		Fwys & Expwys	55.7	1.652	2.055	1.700	
	Principal art.	30.3	1.822	2.113	1.857		Principal art.	30.3	2.263	2.791	2.326	
	Minor art.	30.3	1.822	2.113	1.857		Minor art.	30.3	2.263	2.791	2.326	
	Collectors	25	2.088	2.434	2.130		Collectors	25	2.574	3.184	2.647	
	Local roads	20	2.442	2.863	2.493		Local roads	20	2.999	3.724	3.086	
	Rural							Rural				
	Fwys & Expwys	59.3	1.335	1.578	1.364		Fwys & Expwys	59.3	1.783	2.264	1.841	
	Principal art.	30.3	1.586	1.573	1.584		Principal art.	30.3	1.997	2.235	2.026	
	Minor art.	30.3	1.586	1.573	1.584		Minor art.	30.3	1.997	2.235	2.026	
	Collectors	30	1.835	2.129	1.870		Collectors	30	2.278	2.810	2.342	
	Local roads	20	2.442	2.863	2.493		Local roads	20	2.999	3.724	3.086	
LDGT1	Urban					HDGV	Urban					
	Fwys & Expwys	55.7	1.623	2.018	1.670		Fwys & Expwys	55.7	3.052	3.168	3.066	
	Principal art.	30.3	2.184	2.713	2.247		Principal art.	30.3	4.086	4.300	4.112	
	Minor art.	30.3	2.184	2.713	2.247		Minor art.	30.3	4.086	4.300	4.112	
	Collectors	25	2.473	3.094	2.548		Collectors	25	4.642	4.919	4.675	
	Local roads	20	2.861	3.604	2.950		Local roads	20	5.431	5.802	5.476	
	Rural							Rural				
	Fwys & Expwys	59.3	1.739	2.212	1.796		Fwys & Expwys	59.3	3.019	3.134	3.033	
	Principal art.	30.3	1.936	2.163	1.963		Principal art.	30.3	3.645	3.283	3.602	
	Minor art.	30.3	1.936	2.163	1.963		Minor art.	30.3	3.645	3.283	3.602	
	Collectors	30	2.198	2.731	2.262		Collectors	30	4.112	4.329	4.138	
	Local roads	20	2.861	3.604	2.950		Local roads	20	5.431	5.802	5.476	

Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	Vehicle Class	Roadway Type	Speed (MPH)	EF - I/M (grams/mile)	EF-No I/M (grams/mile)	Composite EF (grams/mile)	
LDDV	Urban					HDDV	Urban					
	Fwys & Expwys	55.7	0.335	0.341	0.336		Fwys & Expwys	55.7	0.998	0.998	0.998	
	Principal art.	30.3	0.518	0.527	0.519		Principal art.	30.3	1.543	1.543	1.543	
	Minor art.	30.3	0.518	0.527	0.519		Minor art.	30.3	1.543	1.543	1.543	
	Collectors	25	0.610	0.620	0.611		Collectors	25	1.816	1.816	1.816	
	Local roads	20	0.727	0.739	0.728		Local roads	20	2.165	2.165	2.165	
	Rural							Rural				
	Fwys & Expwys	59.3	0.330	0.335	0.331		Fwys & Expwys	59.3	0.982	0.982	0.982	
	Principal art.	30.3	0.440	0.447	0.441		Principal art.	30.3	1.311	1.311	1.311	
	Minor art.	30.3	0.440	0.447	0.441		Minor art.	30.3	1.311	1.311	1.311	
	Collectors	30	0.523	0.531	0.524		Collectors	30	1.557	1.557	1.557	
	Local roads	20	0.727	0.739	0.728		Local roads	20	2.165	2.165	2.165	
LDDT	Urban					MC	Urban					
	Fwys & Expwys	55.7	0.351	0.355	0.351		Fwys & Expwys	55.7	8.019	8.019	8.019	
	Principal art.	30.3	0.543	0.549	0.544		Principal art.	30.3	8.396	8.396	8.396	
	Minor art.	30.3	0.543	0.549	0.544		Minor art.	30.3	8.396	8.396	8.396	
	Collectors	25	0.639	0.646	0.640		Collectors	25	8.675	8.675	8.675	
	Local roads	20	0.762	0.770	0.763		Local roads	20	9.029	9.029	9.029	
	Rural							Rural				
	Fwys & Expwys	59.3	0.346	0.350	0.346		Fwys & Expwys	59.3	8.378	8.378	8.378	
	Principal art.	30.3	0.461	0.466	0.462		Principal art.	30.3	8.148	7.340	8.051	
	Minor art.	30.3	0.461	0.466	0.462		Minor art.	30.3	8.148	7.340	8.051	
	Collectors	30	0.548	0.554	0.549		Collectors	30	8.410	8.410	8.410	
	Local roads	20	0.762	0.770	0.763		Local roads	20	9.029	9.029	9.029	

1999 Total On-Road Inventory

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDGV VMT fraction: 0.649	Urban					LDGT2 VMT fraction: 0.085	Urban					
	Fwys & Expwys	55.7	1.28	6,231,162	5191		Fwys & Expwys	55.7	1.70	6,231,162	901	
	Principal art.	30.3	1.86	12,674,890	15275		Principal art.	30.3	2.33	12,674,890	2506	
	Minor art.	30.3	1.86	3,492,062	4208		Minor art.	30.3	2.33	3,492,062	691	
	Collectors	25	2.13	1,408,728	1947		Collectors	25	2.65	1,408,728	317	
	Local roads	20	2.49	4,378,342	7083		Local roads	20	3.09	4,378,342	1148	
	Rural						Rural					
	Fwys & Expwys	59.3	1.36	2,094,702	1855		Fwys & Expwys	59.3	1.84	2,094,702	328	
	Principal art.	36.7	1.58	6,695,709	6885		Principal art.	36.7	2.03	6,695,709	1153	
	Minor art.	36.7	1.58	1,844,736	1897		Minor art.	36.7	2.03	1,844,736	318	
	Collectors	30	1.87	904,098	1097		Collectors	30	2.34	904,098	180	
	Local roads	20	2.49	2,821,554	4564		Local roads	20	3.09	2,821,554	740	
LDGT1 VMT fraction: 0.158	Urban					HDGV VMT fraction: 0.035	Urban					
	Fwys & Expwys	55.7	1.67	6,231,162	1645		Fwys & Expwys	55.7	3.07	6,231,162	669	
	Principal art.	30.3	2.25	12,674,890	4501		Principal art.	30.3	4.11	12,674,890	1824	
	Minor art.	30.3	2.25	3,492,062	1240		Minor art.	30.3	4.11	3,492,062	503	
	Collectors	25	2.55	1,408,728	567		Collectors	25	4.68	1,408,728	231	
	Local roads	20	2.95	4,378,342	2041		Local roads	20	5.48	4,378,342	839	
	Rural						Rural					
	Fwys & Expwys	59.3	1.80	2,094,702	594		Fwys & Expwys	59.3	3.03	2,094,702	222	
	Principal art.	36.7	1.96	6,695,709	2077		Principal art.	36.7	3.60	6,695,709	844	
	Minor art.	36.7	1.96	1,844,736	572		Minor art.	36.7	3.60	1,844,736	233	
	Collectors	30	2.26	904,098	323		Collectors	30	4.14	904,098	131	
	Local roads	20	2.95	2,821,554	1315		Local roads	20	5.48	2,821,554	541	
				Total:	64878					Total:	14317	

1999 Total On-Road Inventory - Continued

Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	Vehicle Class	Roadway Type	Speed (MPH)	Factor (grams/mile)	DVMT (miles/day)	Emissions (kg/day)	
LDDV VMT fraction: 0.007	Urban					HDDV VMT fraction: 0.057	Urban					
	Fwys & Expwys	55.7	0.34	6,231,162	15		Fwys & Expwys	55.7	1.00	6,231,162	354	
	Principal art.	30.3	0.52	12,674,890	46		Principal art.	30.3	1.54	12,674,890	1115	
	Minor art.	30.3	0.52	3,492,062	13		Minor art.	30.3	1.54	3,492,062	307	
	Collectors	25	0.61	1,408,728	6		Collectors	25	1.82	1,408,728	146	
	Local roads	20	0.73	4,378,342	22		Local roads	20	2.17	4,378,342	540	
	Rural						Rural					
	Fwys & Expwys	59.3	0.33	2,094,702	5		Fwys & Expwys	59.3	0.98	2,094,702	117	
	Principal art.	30.3	0.44	6,695,709	21		Principal art.	30.3	1.31	6,695,709	500	
	Minor art.	30.3	0.44	1,844,736	6		Minor art.	30.3	1.31	1,844,736	138	
	Collectors	30	0.52	904,098	3		Collectors	30	1.56	904,098	80	
	Local roads	20	0.73	2,821,554	14		Local roads	20	2.17	2,821,554	348	
LDDT VMT fraction: 0.002	Urban					MC VMT fraction: 0.006	Urban					
	Fwys & Expwys	55.7	0.35	6,231,162	4		Fwys & Expwys	55.7	8.02	6,231,162	300	
	Principal art.	30.3	0.54	12,674,890	14		Principal art.	30.3	8.40	12,674,890	639	
	Minor art.	30.3	0.54	3,492,062	4		Minor art.	30.3	8.40	3,492,062	176	
	Collectors	25	0.64	1,408,728	2		Collectors	25	8.68	1,408,728	73	
	Local roads	20	0.76	4,378,342	7		Local roads	20	9.03	4,378,342	237	
	Rural						Rural					
	Fwys & Expwys	59.3	0.35	2,094,702	1		Fwys & Expwys	59.3	8.38	2,094,702	105	
	Principal art.	30.3	0.46	6,695,709	6		Principal art.	30.3	8.05	6,695,709	323	
	Minor art.	30.3	0.46	1,844,736	2		Minor art.	30.3	8.05	1,844,736	89	
	Collectors	30	0.55	904,098	1		Collectors	30	8.41	904,098	46	
	Local roads	20	0.76	2,821,554	4		Local roads	20	9.03	2,821,554	153	
				Total:	196					Total:	5787	
										Grand total:	85178	