Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.410	0.491	0.885	0.591	0.583	0.090	0.271	0.245	1.73	0.510
Composite CO :	5.89	6.69	9.10	7.31	4.65	0.599	0.484	0.624	9.24	6.188
Composite NOX :	0.380	0.488	0.848	0.580	1.291	0.155	0.391	3.167	1.16	0.770

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Local 35.0 mph - CY2014
* File 1, Run 1, Scenario 114.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2014
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.422	0.501	0.907	0.605	0.619	0.097	0.292	0.279	1.83	0.526
Composite CO :	5.55	6.32	8.64	6.92	5.05	0.635	0.512	0.697	10.42	5.889
Composite NOX :	0.376	0.481	0.840	0.573	1.233	0.149	0.377	3.049	1.13	0.752

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Interstate 71.0 mph - CY2014
* File 1, Run 1, Scenario 115.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M 96 Warning:

71.0 speed reduced to 65 mph maximum

M515 Warning:

The combined freeway and ramp average speed entered cannot be greater than 60.9 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 60.9 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.383	0.466	0.828	0.559	0.536	0.081	0.247	0.207	2.24	0.481
Composite CO :	7.34	8.17	10.97	8.88	7.07	0.666	0.535	0.758	20.85	7.680
Composite NOX :	0.408	0.530	0.906	0.626	1.498	0.279	0.704	6.009	1.61	1.061

* #
* OldhamRFG Urban Freeway 2.5 mph - CY2014
* File 1, Run 1, Scenario 116.
* #

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all

vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.695	2.661	4.802	3.208	3.909	0.238	0.699	0.919	7.93	2.895
Composite CO :	18.81	18.39	24.41	19.93	29.75	2.162	1.686	3.749	97.23	18.899
Composite NOX :	0.830	0.905	1.536	1.067	0.946	0.280	0.706	6.018	1.04	1.416

* #
* OldhamRFG Urban Principal Arterial 31.0 mph - CY2014
* File 1, Run 1, Scenario 117.
* #
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No

ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.437	0.516	0.933	0.623	0.652	0.104	0.312	0.309	1.92	0.545
Composite CO :	5.52	6.29	8.58	6.88	5.60	0.677	0.544	0.781	11.58	5.893
Composite NOX :	0.385	0.487	0.850	0.580	1.196	0.150	0.379	3.069	1.10	0.759

* #
* OldhamRFG Urban Minor Arterial 28.0 mph - CY2014
* File 1, Run 1, Scenario 118.
* #

M583 Warning:
The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.449	0.528	0.955	0.637	0.684	0.110	0.329	0.337	2.01	0.561
Composite CO :	5.56	6.32	8.62	6.91	6.19	0.720	0.577	0.866	12.64	5.957
Composite NOX :	0.395	0.496	0.864	0.590	1.168	0.153	0.386	3.123	1.07	0.771

* #
* OldhamRFG Urban Collector 33.0 mph - CY2014

```
* File 1, Run 1, Scenario 119.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2014
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.429	0.508	0.920	0.613	0.634	0.100	0.302	0.293	1.87	0.535
Composite CO :	5.53	6.31	8.61	6.90	5.31	0.655	0.527	0.737	10.97	5.891
Composite NOX :	0.380	0.484	0.845	0.576	1.215	0.150	0.378	3.058	1.11	0.756

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Local 12.9 mph Default - CY2014
* File 1, Run 1, Scenario 120.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2014
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
```

Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.597	0.684	1.223	0.822	1.059	0.166	0.490	0.590	2.90	0.751
Composite CO :	5.76	6.72	9.12	7.34	13.73	1.217	0.959	1.860	24.37	6.678
Composite NOX :	0.405	0.492	0.844	0.582	1.021	0.201	0.506	3.844	0.91	0.827

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Interstate 69.0 mph - CY2017
* File 1, Run 1, Scenario 121.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              69.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.305	0.401	0.690	0.475	0.423	0.059	0.206	0.181	2.27	0.407
Composite CO :	6.59	7.47	9.94	8.10	7.08	0.599	0.484	0.533	21.54	7.019
Composite NOX :	0.321	0.431	0.764	0.516	1.018	0.155	0.554	4.150	1.65	0.799

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Principal Arterial 57.0 mph - CY2017
* File 1, Run 1, Scenario 122.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.311	0.407	0.703	0.483	0.427	0.059	0.206	0.183	1.80	0.411
Composite CO :	6.16	7.02	9.37	7.62	5.39	0.544	0.442	0.447	11.25	6.496
Composite NOX :	0.314	0.419	0.746	0.503	0.970	0.117	0.418	2.944	1.44	0.681

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Minor Arterial 47.0 mph - CY2017
* File 1, Run 1, Scenario 123.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            e user supplied arterial average speed of 47.0
```

ill be used for all hours of the day. 100% of VM
as been assigned to the arterial/collector roadwa
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.323	0.418	0.728	0.497	0.447	0.063	0.216	0.200	1.69	0.424
Composite CO :	5.65	6.47	8.67	7.03	4.55	0.525	0.428	0.418	8.62	5.958
Composite NOX :	0.305	0.405	0.728	0.488	0.906	0.091	0.326	2.294	1.21	0.610

* #
* BullittRFG Rural Major Collector 46.0 mph - CY2017
* File 1, Run 1, Scenario 124.
* #

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

```
          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :     0.324     0.419     0.730     0.499     0.449     0.063     0.218     0.203      1.69     0.426
     Composite CO  :     5.60      6.41      8.60      6.97      4.52     0.525     0.428     0.418      8.67     5.906
     Composite NOX :     0.304     0.404     0.726     0.486     0.899     0.090     0.320     2.250      1.20     0.605
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Minor Collector 41.0 mph - CY2017
* File 1, Run 1, Scenario 125.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
     Composite VOC :     0.332     0.426     0.744     0.508     0.467     0.066     0.228     0.221      1.73     0.436
     Composite CO  :     5.35      6.14      8.25      6.68      4.57     0.537     0.437     0.437      9.24     5.669
     Composite NOX :     0.301     0.397     0.717     0.479     0.867     0.084     0.299     2.106      1.16     0.586
 ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittR                    Rural Local 35.0 mph - CY2017
* File 1, Run 1, Scenario 126.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.343	0.436	0.762	0.519	0.496	0.072	0.245	0.251	1.83	0.450
Composite CO :	5.04	5.80	7.82	6.32	4.96	0.570	0.462	0.488	10.42	5.397
Composite NOX :	0.298	0.391	0.710	0.473	0.828	0.081	0.288	2.028	1.13	0.573

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                  Urban Interstate 71.0 mph - CY2017
* File 1, Run 1, Scenario 127.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
             71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
```

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.309	0.405	0.697	0.480	0.428	0.060	0.208	0.186	2.24	0.411
Composite CO :	6.63	7.50	9.96	8.13	6.95	0.598	0.483	0.530	20.85	7.037
Composite NOX :	0.322	0.432	0.768	0.518	1.006	0.151	0.537	4.011	1.61	0.787

* #
* BullittRFG Urban Freeway 2.5 mph - CY2017
* File 1, Run 1, Scenario 128.
* #

M514 Warning:
The combined freeway and ramp average speed entered
cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.
M582 Warning:
The user supplied freeway average speed of 2.7
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.265	2.360	4.005	2.780	3.155	0.177	0.574	0.826	7.93	2.495
Composite CO :	17.14	17.08	22.37	18.43	29.26	1.948	1.507	2.622	97.23	17.442
Composite NOX :	0.666	0.742	1.306	0.886	0.635	0.151	0.538	4.017	1.04	1.085

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Principal Arterial 31.0 mph - CY2017
* File 1, Run 1, Scenario 129.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.355	0.449	0.784	0.534	0.522	0.077	0.261	0.278	1.92	0.466
Composite CO :	5.02	5.78	7.78	6.29	5.51	0.608	0.491	0.546	11.58	5.407
Composite NOX :	0.305	0.396	0.719	0.479	0.803	0.081	0.290	2.042	1.10	0.578

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Minor Arterial 28.0 mph - CY2017
* File 1, Run 1, Scenario 130.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.366	0.460	0.803	0.548	0.548	0.081	0.275	0.303	2.01	0.480
Composite CO :	5.06	5.81	7.82	6.33	6.08	0.646	0.520	0.605	12.64	5.469
Composite NOX :	0.313	0.404	0.731	0.487	0.784	0.083	0.295	2.078	1.07	0.588

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Collector 33.0 mph - CY2017
* File 1, Run 1, Scenario 131.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2017
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
    Reformulated Gas:  Yes

Vehicle Type:      LDGV     LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV       MC    All Veh
       GVWR:                 <6000     >6000     (All)
                  ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
VMT Distribution:  0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
-----------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite VOC :  0.349     0.442     0.772     0.526     0.508     0.074     0.253     0.264     1.87      0.457
  Composite CO  :  5.03      5.79      7.80      6.31      5.22      0.588     0.475     0.515     10.97     5.402
  Composite NOX :  0.301     0.394     0.714     0.476     0.816     0.081     0.289     2.035     1.11      0.575
-----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                 Urban Local 12.9 mph Default - CY2017
* File 1, Run 1, Scenario 132.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
        100% of VMT has been assigned to the local roadway
        type for all hours of the day for all vehicle types
        with an average speed of 12.9 mph.
 M 48 Warning:
        there are no sales for vehicle class HDGV8b
 M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2017
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
    Reformulated Gas:  Yes

Vehicle Type:      LDGV     LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV       MC    All Veh
       GVWR:                 <6000     >6000     (All)
                  ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
VMT Distribution:  0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
```

Composite Emission Factors (g/mi):										
Composite VOC :	0.494	0.601	1.031	0.711	0.851	0.123	0.405	0.531	2.90	0.648
Composite CO :	5.40	6.26	8.36	6.79	13.51	1.095	0.860	1.301	24.37	6.232
Composite NOX :	0.324	0.401	0.712	0.480	0.686	0.108	0.386	2.548	0.91	0.624

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Interstate 69.0 mph - CY2017
* File 1, Run 1, Scenario 133.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 69.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC :	0.305	0.401	0.690	0.475	0.423	0.059	0.206	0.181	2.27	0.407
Composite CO :	6.59	7.47	9.94	8.10	7.08	0.599	0.484	0.533	21.54	7.019
Composite NOX :	0.321	0.431	0.764	0.516	1.018	0.155	0.554	4.150	1.65	0.799

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRF                 Rural Principal Arterial 57.0 mph -    017
```

```
* File 1, Run 1, Scenario 134.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 57.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2017
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.311	0.407	0.703	0.483	0.427	0.059	0.206	0.183	1.80	0.411
Composite CO :	6.16	7.02	9.37	7.62	5.39	0.544	0.442	0.447	11.25	6.496
Composite NOX :	0.314	0.419	0.746	0.503	0.970	0.117	0.418	2.944	1.44	0.681

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Minor Arterial 47.0 mph - CY2017
* File 1, Run 1, Scenario 135.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 47.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2017
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
```

```
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.323	0.418	0.728	0.497	0.447	0.063	0.216	0.200	1.69	0.424
Composite CO :	5.65	6.47	8.67	7.03	4.55	0.525	0.428	0.418	8.62	5.958
Composite NOX :	0.305	0.405	0.728	0.488	0.906	0.091	0.326	2.294	1.21	0.610

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG              Rural Major Collector 46.0 mph - CY2017
* File 1, Run 1, Scenario 136.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Compo VOC :	0.324	0.419	0.730	0.499	0.449	0.063	0.218	0.203	1.69	.426

Compo[illegible] CO :	5.60	6.41	8.60	6.97	4.52	0.525	0.428	0.418	8.67	[illegible]5.906
Compo[illegible] NOX :	0.304	0.404	0.726	0.486	0.899	0.090	0.320	2.250	1.20	[illegible].605

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Minor Collector 41.0 mph - CY2017
* File 1, Run 1, Scenario 137.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2017
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.332	0.426	0.744	0.508	0.467	0.066	0.228	0.221	1.73	0.436
Composite CO :	5.35	6.14	8.25	6.68	4.57	0.537	0.437	0.437	9.24	5.669
Composite NOX :	0.301	0.397	0.717	0.479	0.867	0.084	0.299	2.106	1.16	0.586

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Local 35.0 mph - CY2017
* File 1, Run 1, Scenario 138.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
```

there are no sales for vehicle class LDDT12

```
          Calendar Year:  2017
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
     Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.343	0.436	0.762	0.519	0.496	0.072	0.245	0.251	1.83	0.450
Composite CO :	5.04	5.80	7.82	6.32	4.96	0.570	0.462	0.488	10.42	5.397
Composite NOX :	0.298	0.391	0.710	0.473	0.828	0.081	0.288	2.028	1.13	0.573

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Interstate 71.0 mph - CY2017
* File 1, Run 1, Scenario 139.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              71.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

          Calendar Year:  2017
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
  Fuel Sulfur Content:   30. ppm
```

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.309	0.405	0.697	0.480	0.428	0.060	0.208	0.186	2.24	0.411
Composite CO :	6.63	7.50	9.96	8.13	6.95	0.598	0.483	0.530	20.85	7.037
Composite NOX :	0.322	0.432	0.768	0.518	1.006	0.151	0.537	4.011	1.61	0.787

* #
* OldhamRFG Urban Freeway 2.5 mph - CY2017
* File 1, Run 1, Scenario 140.
* #

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	2.265	2.360	4.005	2.780	3.155	0.177	0.574	0.826	7.93	2.495
Composite CO :	17.14	17.08	22.37	18.43	29.26	1.948	1.507	2.622	97.23	17.442
Composite NOX :	0.666	0.742	1.306	0.886	0.635	0.151	0.538	4.017	1.04	1.085

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Principal Arterial 31.0 mph - CY2017
* File 1, Run 1, Scenario 141.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.355	0.449	0.784	0.534	0.522	0.077	0.261	0.278	1.92	0.466
Composite CO :	5.02	5.78	7.78	6.29	5.51	0.608	0.491	0.546	11.58	5.407
Composite NOX :	0.305	0.396	0.719	0.479	0.803	0.081	0.290	2.042	1.10	0.578

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Minor Arterial 28.0 mph - CY2017
* File 1, Run 1, Scenario 142.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 War
```

M 48 Wa g:
there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.366	0.460	0.803	0.548	0.548	0.081	0.275	0.303	2.01	0.480
Composite CO :	5.06	5.81	7.82	6.33	6.08	0.646	0.520	0.605	12.64	5.469
Composite NOX :	0.313	0.404	0.731	0.487	0.784	0.083	0.295	2.078	1.07	0.588

* #
* OldhamRFG Urban Collector 33.0 mph - CY2017
* File 1, Run 1, Scenario 143.
* #

M583 Warning:
The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.349	0.442	0.772	0.526	0.508	0.074	0.253	0.264	1.87	0.457
Composite CO :	5.03	5.79	7.80	6.31	5.22	0.588	0.475	0.515	10.97	5.402
Composite NOX :	0.301	0.394	0.714	0.476	0.816	0.081	0.289	2.035	1.11	0.575

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Local 12.9 mph Default - CY2017
* File 1, Run 1, Scenario 144.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.494	0.601	1.031	0.711	0.851	0.123	0.405	0.531	2.90	0.648
Composite CO :	5.40	6.26	8.36	6.79	13.51	1.095	0.860	1.301	24.37	6.232
Composite NOX :	0.324	0.401	0.712	0.480	0.686	0.108	0.386	2.548	0.91	0.624

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG               Rural Interstate 69.0 mph - CY2020
* File 1, Run 1, Scenario 145.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warn
```

```
            69.0      speed reduced to 65 mph maximum
M515 Warning:
         The combined freeway and ramp average speed entered
         cannot be greater than 64.2 miles per hour.
         The average speed will be reset to this value.
M582 Warning:
         The user supplied freeway average speed of 64.2
         will be used for all hours of the day. 100% of VMT
         has been assigned to a fixed combination of freeways
         and freeway ramps for all hours of the day and all
          vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

               Calendar Year:  2020
                       Month:  July
                    Altitude:  Low
         Minimum Temperature:  67.0 (F)
         Maximum Temperature:  92.0 (F)
           Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.260	0.351	0.567	0.406	0.341	0.048	0.162	0.170	2.27	0.351
Composite CO :	6.23	7.12	9.23	7.66	7.00	0.571	0.416	0.388	21.54	6.653
Composite NOX :	0.271	0.386	0.674	0.459	0.710	0.099	0.415	2.735	1.65	0.621

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG             Rural Principal Arterial 57.0 mph - CY2020
* File 1, Run 1, Scenario 146.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
         The user supplied arterial average speed of 57.0
         will be used for all hours of the day.  100% of VMT
         has been assigned to the arterial/collector roadway
         type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12
```

```
              Calendar Year:  2020
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
           Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.265	0.356	0.578	0.412	0.344	0.049	0.162	0.171	1.80	0.354
Composite CO :	5.84	6.68	8.69	7.20	5.33	0.518	0.379	0.326	11.25	6.152
Composite NOX :	0.265	0.375	0.658	0.447	0.677	0.075	0.314	1.971	1.44	0.543

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Minor Arterial 47.0 mph - CY2020
* File 1, Run 1, Scenario 147.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

              Calendar Year:  2020
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
           Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.276	0.366	0.598	0.425	0.361	0.051	0.170	0.188	1.69	0.366
Composite CO :	5.36	6.15	8.03	6.63	4.50	0.499	0.366	0.304	8.62	5.637
Composite NOX :	0.258	0.362	0.641	0.434	0.632	0.058	0.245	1.525	1.21	0.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Major Collector 46.0 mph - CY2020
* File 1, Run 1, Scenario 148.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 46.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  92.0 (F)
             Absolute Humidity:   75. grains/lb
           Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
              Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.277	0.367	0.600	0.427	0.363	0.052	0.171	0.190	1.69	0.368
Composite CO :	5.31	6.09	7.96	6.57	4.47	0.500	0.366	0.305	8.67	5.588
Composite NOX :	0.258	0.361	0.640	0.432	0.628	0.057	0.240	1.495	1.20	0.487

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Rural Minor Collector 41.0 mph - CY2020
* File 1, Run 1, Scenario 149.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
```

type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.285	0.374	0.612	0.434	0.378	0.054	0.179	0.207	1.73	0.377
Composite CO :	5.07	5.83	7.63	6.29	4.52	0.511	0.375	0.318	9.24	5.362
Composite NOX :	0.255	0.355	0.632	0.426	0.605	0.054	0.225	1.397	1.16	0.473

* #
* BullittRFG Rural Local 35.0 mph - CY2020
* File 1, Run 1, Scenario 150.
* #
M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No

ATP Program: **No**
Reformulated Gas: Yes

Vehicle Type: / GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.295	0.383	0.627	0.445	0.403	0.059	0.193	0.235	1.83	0.390
Composite CO :	4.77	5.51	7.23	5.95	4.91	0.543	0.397	0.355	10.42	5.103
Composite NOX :	0.253	0.350	0.625	0.420	0.578	0.052	0.216	1.343	1.13	0.463

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG              Urban Interstate 71.0 mph - CY2020
* File 1, Run 1, Scenario 151.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0     speed reduced to 65 mph maximum
  M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
  M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
  M 48 Warning:
           there are no sales for vehicle class HDGV8b
  M 48 Warning:
           there are no sales for vehicle class LDDT12

              Calendar Year:  2020
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
           Reformulated Gas:  Yes
```

Vehicle Type: / GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.263	0.354	0.573	0.410	0.345	0.049	0.164	0.174	2.24	0.355
Composite CO :	6.28	7.14	9.24	7.68	6.88	0.569	0.415	0.387	20.85	6.670
Composite NOX :	0.272	0.387	0.678	0.461	0.702	0.096	0.403	2.646	1.61	0.614

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Freeway 2.5 mph - CY2020
* File 1, Run 1, Scenario 152.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
             The combined freeway and ramp average speed entered
            cannot be less than  2.7 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of  2.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
             Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.051	2.150	3.368	2.461	2.672	0.145	0.454	0.775	7.93	2.230
Composite CO :	16.29	16.41	20.93	17.56	28.94	1.859	1.324	1.911	97.23	16.622
Composite NOX :	0.575	0.669	1.158	0.794	0.443	0.097	0.404	2.651	1.04	0.883

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Principal Arterial 31.0 mph - CY2020
* File 1, Run 1, Scenario 153.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
             e user supplied arterial average speed of 31.0
```

will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2020
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.306	0.394	0.646	0.459	0.426	0.063	0.205	0.261	1.92	0.405
Composite CO :	4.76	5.49	7.20	5.92	5.45	0.579	0.422	0.398	11.58	5.115
Composite NOX :	0.259	0.354	0.633	0.426	0.560	0.052	0.218	1.353	1.10	0.468

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Minor Arterial 28.0 mph - CY2020
* File 1, Run 1, Scenario 154.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2020
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.316	0.405	0.663	0.471	0.448	0.067	0.217	0.284	2.01	0.418
Composite CO :	4.80	5.52	7.24	5.96	6.02	0.615	0.448	0.441	12.64	5.175
Composite NOX :	0.266	0.361	0.644	0.433	0.547	0.053	0.221	1.377	1.07	0.476

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittRFG                Urban Collector 33.0 mph - CY2020
* File 1, Run 1, Scenario 155.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 33.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.300	0.388	0.636	0.452	0.414	0.061	0.199	0.247	1.87	0.397
Composite CO :	4.77	5.50	7.22	5.94	5.16	0.560	0.409	0.375	10.97	5.108
Composite NOX :	0.255	0.352	0.629	0.423	0.570	0.052	0.217	1.348	1.11	0.465

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* BullittR                    Urban Local 12.9 mph Default - CY2
* File 1, Run 1, Scenario 156.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.434	0.537	0.862	0.620	0.705	0.101	0.320	0.498	2.90	0.572
Composite CO :	5.21	5.97	7.79	6.44	13.36	1.044	0.750	0.948	24.37	5.944
Composite NOX :	0.277	0.357	0.625	0.426	0.478	0.069	0.290	1.746	0.91	0.504

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                   Rural Interstate 69.0 mph - CY2020
* File 1, Run 1, Scenario 157.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
             69.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
```

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

```
          Calendar Year:  2020
                  Month:  July
               Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.260	0.351	0.567	0.406	0.341	0.048	0.162	0.170	2.27	0.351
Composite CO :	6.23	7.12	9.23	7.66	7.00	0.571	0.416	0.388	21.54	6.653
Composite NOX :	0.271	0.386	0.674	0.459	0.710	0.099	0.415	2.735	1.65	0.621

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Principal Arterial 57.0 mph - CY2020
* File 1, Run 1, Scenario 158.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:

The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

```
          Calendar Year:  2020
                  Month:  July
               Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.265	0.356	0.578	0.412	0.344	0.049	0.162	0.171	1.80	0.354
Composite CO :	5.84	6.68	8.69	7.20	5.33	0.518	0.379	0.326	11.25	6.152
Composite NOX :	0.265	0.375	0.658	0.447	0.677	0.075	0.314	1.971	1.44	0.543

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Minor Arterial 47.0 mph - CY2020
* File 1, Run 1, Scenario 159.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 47.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                 ATP Program:  No
            Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.276	0.366	0.598	0.425	0.361	0.051	0.170	0.188	1.69	0.366
Composite CO :	5.36	6.15	8.03	6.63	4.50	0.499	0.366	0.304	8.62	5.637
Composite NOX :	0.258	0.362	0.641	0.434	0.632	0.058	0.245	1.525	1.21	0.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Major Collector 46.0 mph - CY2020
* File 1, Run 1, Scenario 160.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
M583 Warning:
          The user supplied arterial average speed of 46.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
            there are no sales for vehicle class HDGV8b
M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2020
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.277	0.367	0.600	0.427	0.363	0.052	0.171	0.190	1.69	0.368
Composite CO :	5.31	6.09	7.96	6.57	4.47	0.500	0.366	0.305	8.67	5.588
Composite NOX :	0.258	0.361	0.640	0.432	0.628	0.057	0.240	1.495	1.20	0.487

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Rural Minor Collector 41.0 mph - CY2020
* File 1, Run 1, Scenario 161.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
            there are no sales for vehicle class HDGV8b
M 48 Warning:
            there are no sales for vehicle class LDDT12

                 Calendar Year:  2020
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.285	0.374	0.612	0.434	0.378	0.054	0.179	0.207	1.73	0.377
Composite CO :	5.07	5.83	7.63	6.29	4.52	0.511	0.375	0.318	9.24	5.362
Composite NOX :	0.255	0.355	0.632	0.426	0.605	0.054	0.225	1.397	1.16	0.473

* #
* OldhamRFG Rural Local 35.0 mph - CY2020
* File 1, Run 1, Scenario 162.
* #
M583 Warning:
The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.295	0.383	0.627	0.445	0.403	0.059	0.193	0.235	1.83	0.390
Composite CO :	4.77	5.51	7.23	5.95	4.91	0.543	0.397	0.355	10.42	5.103
Composite NOX :	0.253	0.350	0.625	0.420	0.578	0.052	0.216	1.343	1.13	0.463

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Interstate 71.0 mph - CY2020
* File 1, Run 1, Scenario 163.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.263	0.354	0.573	0.410	0.345	0.049	0.164	0.174	2.24	0.355
Composite CO :	6.28	7.14	9.24	7.68	6.88	0.569	0.415	0.387	20.85	6.670
Composite NOX :	0.272	0.387	0.678	0.461	0.702	0.096	0.403	2.646	1.61	0.614

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Freeway 2.5 mph - CY2020
* File 1, Run 1, Scenario 164.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
            The combined freeway and ramp average speed entered
             nnot be less than  2.7 miles per hour.
```

the average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.051	2.150	3.368	2.461	2.672	0.145	0.454	0.775	7.93	2.230
Composite CO :	16.29	16.41	20.93	17.56	28.94	1.859	1.324	1.911	97.23	16.622
Composite NOX :	0.575	0.669	1.158	0.794	0.443	0.097	0.404	2.651	1.04	0.883

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Principal Arterial 31.0 mph - CY2020
* File 1, Run 1, Scenario 165.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)

```
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV       MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------   ------    ------    ------    ------    ------    ------    ------   ------   ------
  VMT Distribution:     0.2788   0.4388    0.1507              0.0365    0.0003    0.0022    0.0876   0.0051   1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.306    0.394     0.646     0.459     0.426     0.063     0.205     0.261     1.92    0.405
    Composite CO  :      4.76     5.49      7.20      5.92      5.45      0.579     0.422     0.398    11.58    5.115
    Composite NOX :      0.259    0.354     0.633     0.426     0.560     0.052     0.218     1.353     1.10    0.468
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Minor Arterial 28.0 mph - CY2020
* File 1, Run 1, Scenario 166.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
           The user supplied arterial average speed of 28.0
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  Yes

      Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV       MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------   ------    ------    ------    ------    ------    ------    ------   ------   ------
  VMT Distribution:     0.2788   0.4388    0.1507              0.0365    0.0003    0.0022    0.0876   0.0051   1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Compo[illegible] VOC :      0.316    0.405     0.663     0.471     0.448     0.067     0.217     0.284     2.01    [illegible]418
```

Composite CO :	4.80	5.52	7.24	5.96	6.02	0.615	0.448	0.441	12.64	5.175
Composite NOX :	0.266	0.361	0.644	0.433	0.547	0.053	0.221	1.377	1.07	0.476

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Collector 33.0 mph - CY2020
* File 1, Run 1, Scenario 167.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  Yes
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.300	0.388	0.636	0.452	0.414	0.061	0.199	0.247	1.87	0.397
Composite CO :	4.77	5.50	7.22	5.94	5.16	0.560	0.409	0.375	10.97	5.108
Composite NOX :	0.255	0.352	0.629	0.423	0.570	0.052	0.217	1.348	1.11	0.465

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* OldhamRFG                Urban Local 12.9 mph Default - CY2020
* File 1, Run 1, Scenario 168.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.434	0.537	0.862	0.620	0.705	0.101	0.320	0.498	2.90	0.572
Composite CO :	5.21	5.97	7.79	6.44	13.36	1.044	0.750	0.948	24.37	5.944
Composite NOX :	0.277	0.357	0.625	0.426	0.478	0.069	0.290	1.746	0.91	0.504

```
*************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                            *
* Input file: D:\MOBILE62\KY_M62\LVILLE\RED-REQ.IN (file 1, run 2).     *
*************************************************************************
```

```
* # # # #     # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Interstate 69.0 mph - CY2003
* File 1, Run 2, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 69.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.241	1.422	2.207	1.623	1.629	0.577	0.766	0.391	2.76	1.356
Composite CO :	19.37	22.90	29.90	24.69	22.95	1.602	1.532	2.834	25.00	20.388
Composite NOX :	1.198	1.433	1.748	1.514	5.909	2.445	2.632	23.151	1.65	3.351

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Principal Arterial 57.0 mph - CY2003
* File 1, Run 2, Scenario 2.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2003
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:  259. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
  Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.267	1.457	2.266	1.664	1.645	0.579	0.768	0.394	2.29	1.382
Composite CO :	17.93	21.44	28.31	23.20	17.47	1.481	1.417	2.379	13.06	18.804
Composite NOX :	1.167	1.392	1.706	1.472	5.631	1.849	1.989	15.865	1.44	2.696

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Rural Minor Arterial 47.0 mph - CY2003
* File 1, Run 2, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2003
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:  259. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
```

ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.326	1.521	2.370	1.739	1.753	0.605	0.802	0.432	2.18	1.447
Composite CO :	16.23	19.66	26.36	21.37	14.76	1.438	1.377	2.220	10.00	17.134
Composite NOX :	1.134	1.345	1.660	1.426	5.259	1.442	1.549	12.548	1.21	2.367

* #
* Bullitt Rural Major Collector 46.0 mph - CY2003
* File 1, Run 2, Scenario 4.
* #

M583 Warning:
The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2003
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 259. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.333	1.529	2.381	1.747	1.768	0.609	0.808	0.438	2.18	1.455
Composite CO :	16.05	19.47	26.15	21.18	14.66	1.439	1.378	2.224	10.07	16.970
Composite NOX :	1.131	1.341	1.655	1.421	5.220	1.414	1.519	12.322	1.20	2.343

* #
* Bullitt Rural Minor Collector 41.0 mph - CY2003

```
* File 1, Run 2, Scenario 5.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2003
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  259. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.372	1.563	2.434	1.786	1.864	0.634	0.842	0.476	2.22	1.496
Composite CO :	15.19	18.58	25.17	20.27	14.81	1.466	1.403	2.322	10.73	16.218
Composite NOX :	1.116	1.319	1.635	1.400	5.033	1.324	1.422	11.590	1.16	2.259

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2003
* File 1, Run 2, Scenario 6.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2003
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
```

```
      Nominal Fuel RVP:   8.6 psi
         Weathered RVP:   8.2 psi
    Fuel Sulfur Content:  259. ppm

    Exhaust I/M Program:  No
       Evap I/M Program:  No
            ATP Program:  No
      Reformulated Gas:   No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.426	1.610	2.505	1.839	2.030	0.679	0.901	0.541	2.32	1.555
Composite CO :	14.15	17.49	23.98	19.15	16.09	1.538	1.471	2.593	12.10	15.354
Composite NOX :	1.104	1.299	1.617	1.380	4.806	1.275	1.369	11.191	1.13	2.203

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                 Urban Interstate 71.0 mph - CY2003
* File 1, Run 2, Scenario 7.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
            71.0      speed reduced to 65 mph maximum
 M515 Warning:
        The combined freeway and ramp average speed entered
        cannot be greater than 60.9 miles per hour.
        The average speed will be reset to this value.
 M582 Warning:
        The user supplied freeway average speed of 60.9
        will be used for all hours of the day. 100% of VMT
        has been assigned to a fixed combination of freeways
        and freeway ramps for all hours of the day and all
         vehicle types.
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

              Calendar Year:  2003
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:  259. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
          Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.266	1.447	2.242	1.651	1.654	0.584	0.774	0.401	2.73	1.380
Composite CO :	19.73	23.08	30.06	24.86	22.54	1.598	1.528	2.821	24.21	20.600
Composite NOX :	1.207	1.444	1.760	1.525	5.840	2.372	2.553	22.319	1.61	3.287

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Freeway 2.5 mph - CY2003
* File 1, Run 2, Scenario 8.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
             The combined freeway and ramp average speed entered
            cannot be less than  2.7 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of  2.7
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	12.148	10.957	16.433	12.358	16.833	1.520	2.022	1.782	8.43	11.491
Composite CO :	47.54	48.77	74.76	55.42	94.83	4.566	4.330	13.942	112.87	50.091
Composite NOX :	2.405	2.508	3.038	2.644	3.688	2.377	2.559	22.340	1.04	4.219

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                    Urban Principal Arterial 31.0 mph - CY2003
* File 1, Run 2, Scenario 9.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.486	1.668	2.599	1.906	2.188	0.719	0.954	0.600	2.41	1.622
Composite CO :	13.94	17.22	23.77	18.89	17.85	1.621	1.549	2.904	13.45	15.250
Composite NOX :	1.130	1.317	1.637	1.399	4.661	1.283	1.379	11.261	1.10	2.223

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                    Urban Minor Arterial 28.0 mph - CY2003
* File 1, Run 2, Scenario 10.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
```

```
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:  259. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:   0.4424    0.3195    0.1099              0.0361    0.0007    0.0017    0.0839    0.0059    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :     1.539     1.716     2.675     1.961     2.339     0.755     1.003     0.654      2.50     1.679
    Composite CO  :    13.93     17.16     23.79     18.86     19.72     1.705     1.629     3.219     14.67    15.331
    Composite NOX :     1.159     1.341     1.665     1.424     4.552     1.306     1.403    11.442      1.07     2.258
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Collector 33.0 mph - CY2003
* File 1, Run 2, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2003
                         Month:  July
                      Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:  259. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No

     Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                      ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:   0.4424    0.3195    0.1099              0.0361    0.0007    0.0017    0.0839    0.0059    1.0000
 ---------------------------------------------------------------------------------------------------------------------
```

Composite Emission Factors (g/mi):

Composite VOC :	1.454	1.637	2.549	1.871	2.104	0.697	0.926	0.569	2.36	1.586
Composite CO :	14.05	17.36	23.88	19.03	16.91	1.577	1.508	2.739	12.73	15.305
Composite NOX :	1.117	1.307	1.627	1.389	4.738	1.279	1.374	11.224	1.11	2.213

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Local 12.9 mph Default - CY2003
* File 1, Run 2, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	2.234	2.365	3.613	2.684	4.199	1.088	1.446	1.145	3.39	2.411
Composite CO :	11.86	16.15	23.78	18.10	43.78	2.692	2.561	6.919	28.29	15.350
Composite NOX :	1.134	1.272	1.591	1.354	3.980	1.708	1.837	13.012	0.91	2.328

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2003
* File 1, Run 2, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
              69.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
```

The user supplied freeway average speed of 64.2
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2003
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:  259. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.241	1.422	2.207	1.623	1.629	0.577	0.766	0.391	2.76	1.356
Composite CO :	19.37	22.90	29.90	24.69	22.95	1.602	1.532	2.834	25.00	20.388
Composite NOX :	1.198	1.433	1.748	1.514	5.909	2.445	2.632	23.151	1.65	3.351

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Rural Principal Arterial 57.0 mph - CY2003
* File 1, Run 2, Scenario 14.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2003
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
```

Fuel Sulfur Content: 259. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.267	1.457	2.266	1.664	1.645	0.579	0.768	0.394	2.29	1.382
Composite CO :	17.93	21.44	28.31	23.20	17.47	1.481	1.417	2.379	13.06	18.804
Composite NOX :	1.167	1.392	1.706	1.472	5.631	1.849	1.989	15.865	1.44	2.696

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Arterial 47.0 mph - CY2003
* File 1, Run 2, Scenario 15.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
            Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.326	1.521	2.370	1.739	1.753	0.605	0.802	0.432	2.18	1.447
Composite CO :	16.23	19.66	26.36	21.37	14.76	1.438	1.377	2.220	10.00	17.134
Composite NOX :	1.134	1.345	1.660	1.426	5.259	1.442	1.549	12.548	1.21	2.367

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Major Collector 46.0 mph - CY2003
* File 1, Run 2, Scenario 16.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2003
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  259. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.333	1.529	2.381	1.747	1.768	0.609	0.808	0.438	2.18	1.455
Composite CO :	16.05	19.47	26.15	21.18	14.66	1.439	1.378	2.224	10.07	16.970
Composite NOX :	1.131	1.341	1.655	1.421	5.220	1.414	1.519	12.322	1.20	2.343

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Collector 41.0 mph - CY2003
* File 1, Run 2, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2003
                           Month:  July
```

```
                 Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
            Weathered RVP:  8.2 psi
     Fuel Sulfur Content:  259. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.4424    0.3195    0.1099              0.0361    0.0007    0.0017    0.0839    0.0059    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.372     1.563     2.434     1.786     1.864     0.634     0.842     0.476      2.22     1.496
    Composite CO  :     15.19     18.58     25.17     20.27     14.81     1.466     1.403     2.322     10.73    16.218
    Composite NOX :      1.116     1.319     1.635     1.400     5.033     1.324     1.422    11.590      1.16     2.259
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2003
* File 1, Run 2, Scenario 18.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                 Calendar Year:  2003
                         Month:  July
                      Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
            Weathered RVP:  8.2 psi
     Fuel Sulfur Content:  259. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
```

VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.426	1.610	2.505	1.839	2.030	0.679	0.901	0.541	2.32	1.555
Composite CO :	14.15	17.49	23.98	19.15	16.09	1.538	1.471	2.593	12.10	15.354
Composite NOX :	1.104	1.299	1.617	1.380	4.806	1.275	1.369	11.191	1.13	2.203

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2003
* File 1, Run 2, Scenario 19.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0      speed reduced to 65 mph maximum
  M515 Warning:
           The combined freeway and ramp average speed entered
           cannot be greater than 60.9 miles per hour.
           The average speed will be reset to this value.
  M582 Warning:
           The user supplied freeway average speed of 60.9
           will be used for all hours of the day. 100% of VMT
           has been assigned to a fixed combination of freeways
           and freeway ramps for all hours of the day and all
            vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2003
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:  259. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.266	1.447	2.242	1.651	1.654	0.584	0.774	0.401	2.73	1.380
Composite CO :	19.73	23.08	30.06	24.86	22.54	1.598	1.528	2.821	24.21	20.600
Composite NOX :	1.207	1.444	1.760	1.525	5.840	2.372	2.553	22.319	1.61	3.287

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

* Oldham Urban Freeway 2.5 mph - CY2003
* File 1, 1 2, Scenario 20.
* #

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour. The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2003
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	259. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	12.148	10.957	16.433	12.358	16.833	1.520	2.022	1.782	8.43	11.491
Composite CO :	47.54	48.77	74.76	55.42	94.83	4.566	4.330	13.942	112.87	50.091
Composite NOX :	2.405	2.508	3.038	2.644	3.688	2.377	2.559	22.340	1.04	4.219

* #
* Oldham Urban Principal Arterial 31.0 mph - CY2003
* File 1, Run 2, Scenario 21.
* #

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```
              Calendar Year:  2003
                      Month:  July
                   Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:  259. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.486	1.668	2.599	1.906	2.188	0.719	0.954	0.600	2.41	1.622
Composite CO :	13.94	17.22	23.77	18.89	17.85	1.621	1.549	2.904	13.45	15.250
Composite NOX :	1.130	1.317	1.637	1.399	4.661	1.283	1.379	11.261	1.10	2.223

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Minor Arterial 28.0 mph - CY2003
* File 1, Run 2, Scenario 22.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

              Calendar Year:  2003
                      Month:  July
                   Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:  259. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No
```

Veh/ Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	Veh

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.539	1.716	2.675	1.961	2.339	0.755	1.003	0.654	2.50	1.679
Composite CO :	13.93	17.16	23.79	18.86	19.72	1.705	1.629	3.219	14.67	15.331
Composite NOX :	1.159	1.341	1.665	1.424	4.552	1.306	1.403	11.442	1.07	2.258

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Collector 33.0 mph - CY2003
* File 1, Run 2, Scenario 23.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2003
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:  259. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.454	1.637	2.549	1.871	2.104	0.697	0.926	0.569	2.36	1.586
Composite CO :	14.05	17.36	23.88	19.03	16.91	1.577	1.508	2.739	12.73	15.305
Composite NOX :	1.117	1.307	1.627	1.389	4.738	1.279	1.374	11.224	1.11	2.213

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2003
* File 1, Run 2, Scenario 24.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
```

type for all hours of the day for all vehicle types
with an average speed of 12.9 mph.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2003
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 259. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4424	0.3195	0.1099		0.0361	0.0007	0.0017	0.0839	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	2.234	2.365	3.613	2.684	4.199	1.088	1.446	1.145	3.39	2.411
Composite CO :	11.86	16.15	23.78	18.10	43.78	2.692	2.561	6.919	28.29	15.350
Composite NOX :	1.134	1.272	1.591	1.354	3.980	1.708	1.837	13.012	0.91	2.328

* #
* Bullitt Rural Interstate 69.0 mph - CY2005
* File 1, Run 2, Scenario 25.
* #

M 96 Warning:
69.0 speed reduced to 65 mph maximum

M515 Warning:
The combined freeway and ramp average speed entered
cannot be greater than 64.2 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 64.2
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)

```
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
           Fuel Sulfur Content:  92. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:   No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.980	1.067	1.717	1.233	1.367	0.460	0.634	0.346	2.75	1.065
Composite CO :	14.51	16.53	21.50	17.80	18.32	1.440	1.260	2.563	25.00	15.161
Composite NOX :	0.964	1.194	1.520	1.277	5.150	2.093	2.179	19.048	1.65	2.799

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Principal Arterial 57.0 mph - CY2005
* File 1, Run 2, Scenario 26.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 57.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

               Calendar Year:  2005
                       Month:  July
                    Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
           Fuel Sulfur Content:  92. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:   No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.006	1.096	1.767	1.268	1.382	0.462	0.636	0.348	2.29	1.089
Composite CO :	13.48	15.53	20.39	16.77	13.94	1.331	1.166	2.151	13.06	14.002
Composite NOX :	0.939	1.159	1.483	1.242	4.908	1.584	1.648	13.288	1.44	2.272

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Arterial 47.0 mph - CY2005
* File 1, Run 2, Scenario 27.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2005
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   92. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.062	1.150	1.855	1.330	1.472	0.482	0.664	0.382	2.17	1.146
Composite CO :	12.25	14.29	19.02	15.50	11.78	1.293	1.133	2.008	10.00	12.804
Composite NOX :	0.912	1.118	1.442	1.201	4.583	1.236	1.284	10.385	1.21	1.982

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Major Collector 46.0 mph - CY2005
* File 1, Run 2, Scenario 28.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types
  M 48 War    :
```

there are no sales for vehicle class HDGV8b

```
          Calendar Year:  2005
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
  Fuel Sulfur Content:   92. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
     Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.068	1.156	1.865	1.337	1.484	0.485	0.669	0.387	2.18	1.153
Composite CO :	12.12	14.16	18.88	15.37	11.70	1.294	1.134	2.011	10.07	12.688
Composite NOX :	0.909	1.114	1.438	1.197	4.549	1.212	1.259	10.187	1.20	1.961

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Collector 41.0 mph - CY2005
* File 1, Run 2, Scenario 29.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

          Calendar Year:  2005
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
  Fuel Sulfur Content:   92. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
     Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.103	1.184	1.909	1.370	1.562	0.506	0.698	0.421	2.22	1.188
Composite CO :	11.51	13.54	18.20	14.73	11.82	1.318	1.154	2.100	10.73	12.160
Composite NOX :	0.897	1.096	1.420	1.178	4.387	1.135	1.179	9.546	1.16	1.887

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2005
* File 1, Run 2, Scenario 30.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2005
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   92. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.152	1.223	1.970	1.414	1.695	0.540	0.747	0.478	2.32	1.239
Composite CO :	10.75	12.79	17.36	13.96	12.84	1.383	1.210	2.345	12.10	11.560
Composite NOX :	0.887	1.078	1.404	1.162	4.188	1.093	1.136	9.197	1.13	1.838

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Interstate 71.0 mph - CY2005
* File 1, Run 2, Scenario 31.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M 96 Warn 7:

71.0 speed reduced to 65 mph maximum

M515 Warning:

The combined freeway and ramp average speed entered cannot be greater than 60.9 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 60.9 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.999	1.084	1.743	1.253	1.388	0.466	0.641	0.354	2.73	1.083
Composite CO :	14.72	16.64	21.61	17.91	17.99	1.437	1.258	2.551	24.21	15.280
Composite NOX :	0.970	1.200	1.529	1.284	5.090	2.031	2.114	18.396	1.61	2.747

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Freeway 2.5 mph - CY2005
* File 1, Run 2, Scenario 32.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all

vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2005
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   92. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	10.248	8.785	13.511	9.994	14.164	1.203	1.691	1.576	8.43	9.506
Composite CO :	35.99	37.05	56.39	42.00	75.69	4.100	3.565	12.608	112.87	38.535
Composite NOX :	1.951	2.094	2.669	2.241	3.214	2.035	2.119	18.419	1.04	3.521

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Urban Principal Arterial 31.0 mph - CY2005
* File 1, Run 2, Scenario 33.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2005
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   92. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
```

ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.201	1.268	2.042	1.466	1.821	0.572	0.792	0.531	2.41	1.293
Composite CO :	10.62	12.64	17.26	13.82	14.25	1.457	1.275	2.627	13.45	11.523
Composite NOX :	0.908	1.094	1.421	1.178	4.062	1.101	1.143	9.258	1.10	1.855

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Minor Arterial 28.0 mph - CY2005
* File 1, Run 2, Scenario 34.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 28.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                Calendar Year:  2005
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  92.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   92. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
              Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.244	1.305	2.101	1.508	1.942	0.601	0.833	0.578	2.50	1.339
Composite CO :	10.64	12.63	17.32	13.83	15.74	1.532	1.340	2.911	14.67	11.620
Composite NOX :	0.931	1.114	1.446	1.199	3.967	1.120	1.163	9.417	1.07	1.884

```
# # # # # # # # # # # # # # # # # # # # # # # # # # # #
Bullitt                Urban Collector 33.0 mph - CY2005
```

```
* File 1, Run 2, Scenario 35.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2005
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   92. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.175	1.244	2.004	1.439	1.754	0.555	0.769	0.503	2.36	1.265
Composite CO :	10.69	12.72	17.31	13.89	13.50	1.418	1.241	2.477	12.73	11.543
Composite NOX :	0.897	1.086	1.412	1.169	4.129	1.097	1.139	9.226	1.11	1.846

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Local 12.9 mph Default - CY2005
* File 1, Run 2, Scenario 36.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                    Calendar Year:  2005
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
```

Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.809	1.802	2.833	2.066	3.428	0.863	1.207	1.012	3.39	1.924
Composite CO :	9.48	12.32	17.63	13.68	34.94	2.418	2.108	6.257	28.29	12.126
Composite NOX :	0.917	1.066	1.393	1.150	3.469	1.463	1.522	11.220	0.91	1.990

* #
* Oldham Rural Interstate 69.0 mph - CY2005
* File 1, Run 2, Scenario 37.
* #

M 96 Warning:
69.0 speed reduced to 65 mph maximum

M515 Warning:
The combined freeway and ramp average speed entered cannot be greater than 64.2 miles per hour. The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 64.2 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.980	1.067	1.717	1.233	1.367	0.460	0.634	0.346	2.75	1.065
Composite CO :	14.51	16.53	21.50	17.80	18.32	1.440	1.260	2.563	25.00	15.161
Composite NOX :	0.964	1.194	1.520	1.277	5.150	2.093	2.179	19.048	1.65	2.799

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Principal Arterial 57.0 mph - CY2005
* File 1, Run 2, Scenario 38.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2005
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   92. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.006	1.096	1.767	1.268	1.382	0.462	0.636	0.348	2.29	1.089
Composite CO :	13.48	15.53	20.39	16.77	13.94	1.331	1.166	2.151	13.06	14.002
Composite NOX :	0.939	1.159	1.483	1.242	4.908	1.584	1.648	13.288	1.44	2.272

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Arterial 47.0 mph - CY2005
* File 1, Run 2, Scenario 39.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            e user supplied arterial average speed of 47.0
```

'll be used for all hours of the day. 100% of VM
s been assigned to the arterial/collector roadwa
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.062	1.150	1.855	1.330	1.472	0.482	0.664	0.382	2.17	1.146
Composite CO :	12.25	14.29	19.02	15.50	11.78	1.293	1.133	2.008	10.00	12.804
Composite NOX :	0.912	1.118	1.442	1.201	4.583	1.236	1.284	10.385	1.21	1.982

* #
* Oldham Rural Major Collector 46.0 mph - CY2005
* File 1, Run 2, Scenario 40.
* #

M583 Warning:

The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	92. ppm

```
            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.4158    0.3387    0.1165              0.0360    0.0006    0.0019    0.0849    0.0057    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.068     1.156     1.865     1.337     1.484     0.485     0.669     0.387      2.18     1.153
    Composite CO  :     12.12     14.16     18.88     15.37     11.70     1.294     1.134     2.011     10.07    12.688
    Composite NOX :      0.909     1.114     1.438     1.197     4.549     1.212     1.259    10.187      1.20     1.961
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Collector 41.0 mph - CY2005
* File 1, Run 2, Scenario 41.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2005
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   92. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.4158    0.3387    0.1165              0.0360    0.0006    0.0019    0.0849    0.0057    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      1.103     1.184     1.909     1.370     1.562     0.506     0.698     0.421      2.22     1.188
    Composite CO  :     11.51     13.54     18.20     14.73     11.82     1.318     1.154     2.100     10.73    12.160
    Composite NOX :      0.897     1.096     1.420     1.178     4.387     1.135     1.179     9.546      1.16     1.887
 ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2005
* File 1, Run 2, Scenario 42.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2005
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   92. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.152	1.223	1.970	1.414	1.695	0.540	0.747	0.478	2.32	1.239
Composite CO :	10.75	12.79	17.36	13.96	12.84	1.383	1.210	2.345	12.10	11.560
Composite NOX :	0.887	1.078	1.404	1.162	4.188	1.093	1.136	9.197	1.13	1.838

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2005
* File 1, Run 2, Scenario 43.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
```

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.999	1.084	1.743	1.253	1.388	0.466	0.641	0.354	2.73	1.083
Composite CO :	14.72	16.64	21.61	17.91	17.99	1.437	1.258	2.551	24.21	15.280
Composite NOX :	0.970	1.200	1.529	1.284	5.090	2.031	2.114	18.396	1.61	2.747

* #
* Oldham Urban Freeway 2.5 mph - CY2005
* File 1, Run 2, Scenario 44.
* #

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi

Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	10.248	8.785	13.511	9.994	14.164	1.203	1.691	1.576	8.43	9.506
Composite CO :	35.99	37.05	56.39	42.00	75.69	4.100	3.565	12.608	112.87	38.535
Composite NOX :	1.951	2.094	2.669	2.241	3.214	2.035	2.119	18.419	1.04	3.521

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Principal Arterial 31.0 mph - CY2005
* File 1, Run 2, Scenario 45.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.201	1.268	2.042	1.466	1.821	0.572	0.792	0.531	2.41	1.293
Composite CO :	10.62	12.64	17.26	13.82	14.25	1.457	1.275	2.627	13.45	11.523
Composite NOX :	0.908	1.094	1.421	1.178	4.062	1.101	1.143	9.258	1.10	1.855

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Minor Arterial 28.0 mph - CY2005
* File 1, Run 2, Scenario 46.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2005
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   92. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.244	1.305	2.101	1.508	1.942	0.601	0.833	0.578	2.50	1.339
Composite CO :	10.64	12.63	17.32	13.83	15.74	1.532	1.340	2.911	14.67	11.620
Composite NOX :	0.931	1.114	1.446	1.199	3.967	1.120	1.163	9.417	1.07	1.884

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Collector 33.0 mph - CY2005
* File 1, Run 2, Scenario 47.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2005
                           Month:  July
```

Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.175	1.244	2.004	1.439	1.754	0.555	0.769	0.503	2.36	1.265
Composite CO :	10.69	12.72	17.31	13.89	13.50	1.418	1.241	2.477	12.73	11.543
Composite NOX :	0.897	1.086	1.412	1.169	4.129	1.097	1.139	9.226	1.11	1.846

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2005
* File 1, Run 2, Scenario 48.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4158	0.3387	0.1165		0.0360	0.0006	0.0019	0.0849	0.0057	1.0000

```
------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      1.809    1.802    2.833    2.066    3.428   0.863    1.207    1.012     3.39    1.924
    Composite CO  :      9.48    12.32    17.63    13.68    34.94    2.418    2.108    6.257    28.29   12.126
    Composite NOX :      0.917    1.066    1.393    1.150    3.469   1.463    1.522   11.220     0.91    1.990
------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt           Rural Interstate 69.0 mph - CY2008
* File 1, Run 2, Scenario 49.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
               69.0     speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

                 Calendar Year:  2008
                         Month:  July
                      Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  92.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                 Weathered RVP:   8.2 psi
           Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
             Reformulated Gas:   No

      Vehicle Type:     LDGV    LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV       MC   All Veh
              GVWR:              <6000    >6000    (All)
                       ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
  VMT Distribution:    0.3728   0.3705   0.1273            0.0359   0.0004   0.0019   0.0857   0.0055   1.0000
------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :     0.750    0.809    1.334    0.943    1.051    0.224    0.423    0.286     2.74    0.827
    Composite CO  :    10.81    12.25    16.56    13.35    13.35     0.991    0.841    1.945    25.00   11.462
    Composite NOX :     0.700    0.894    1.269    0.990    3.538    1.094    1.503   14.258     1.65    2.115
------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt           Rural Principal Arterial 57.0 mph - C
```

```
* File 1, R  2, Scenario 50.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 57.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2008
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.771	0.829	1.373	0.968	1.065	0.225	0.425	0.288	2.27	0.846
Composite CO :	10.09	11.54	15.69	12.60	10.16	0.905	0.770	1.633	13.06	10.612
Composite NOX :	0.683	0.868	1.240	0.963	3.372	0.827	1.134	10.088	1.44	1.730

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Arterial 47.0 mph - CY2008
* File 1, Run 2, Scenario 51.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 47.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2008
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
```

Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.813	0.866	1.442	1.014	1.131	0.236	0.446	0.316	2.16	0.888
Composite CO :	9.22	10.66	14.62	11.67	8.58	0.876	0.745	1.524	10.00	9.742
Composite NOX :	0.665	0.839	1.207	0.933	3.148	0.643	0.882	7.858	1.21	1.507

* #
* Bullitt Rural Major Collector 46.0 mph - CY2008
* File 1, Run 2, Scenario 52.
* #

M583 Warning:
The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Compo[illegible] VOC :	0.819	0.870	1.450	1.019	1.140	0.237	0.450	0.320	2.16	[illegible]893

Compos CO :	9.13	10.57	14.50	11.57	8.53	0.876	0.745	1.526	10.07	.658
Compos NOX :	0.663	0.837	1.204	0.930	3.125	0.631	0.864	7.707	1.20	1.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Collector 41.0 mph - CY2008
* File 1, Run 2, Scenario 53.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2008
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:  8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.845	0.890	1.485	1.042	1.195	0.248	0.472	0.348	2.20	0.920
Composite CO :	8.69	10.13	13.97	11.11	8.61	0.895	0.761	1.594	10.73	9.279
Composite NOX :	0.655	0.823	1.189	0.917	3.014	0.590	0.809	7.214	1.16	1.435

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2008
* File 1, Run 2, Scenario 54.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
```

```
              Calendar Year:  2008
                      Month:  July
                   Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:   30. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.882	0.918	1.533	1.075	1.288	0.267	0.509	0.395	2.30	0.958
Composite CO :	8.17	9.59	13.31	10.54	9.35	0.946	0.803	1.780	12.10	8.850
Composite NOX :	0.648	0.810	1.177	0.904	2.877	0.568	0.778	6.947	1.13	1.398

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Interstate 71.0 mph - CY2008
* File 1, Run 2, Scenario 55.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

              Calendar Year:  2008
                      Month:  July
                   Altitude:  Low
     Minimum Temperature:  67.0 (F)
     Maximum Temperature:  92.0 (F)
       Absolute Humidity:   75. grains/lb
        Nominal Fuel RVP:   8.6 psi
           Weathered RVP:   8.2 psi
     Fuel Sulfur Content:   30. ppm
```

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.763	0.820	1.353	0.956	1.067	0.227	0.429	0.293	2.71	0.840
Composite CO :	10.92	12.31	16.61	13.41	13.11	0.988	0.839	1.936	24.21	11.517
Composite NOX :	0.704	0.897	1.276	0.994	3.496	1.062	1.458	13.780	1.61	2.076

* #
* Bullitt Urban Freeway 2.5 mph - CY2008
* File 1, Run 2, Scenario 56.
* #

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	7.590	6.415	10.810	7.539	10.624	0.628	1.223	1.303	8.41	7.125
Composite CO :	27.56	27.45	39.29	30.48	55.15	3.079	2.582	9.569	112.87	28.883
Composite NOX :	1.416	1.555	2.203	1.721	2.208	1.064	1.461	13.800	1.04	2.655

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Principal Arterial 31.0 mph - CY2008
* File 1, Run 2, Scenario 57.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2008
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.919	0.949	1.587	1.112	1.376	0.285	0.543	0.439	2.40	0.998
Composite CO :	8.09	9.51	13.22	10.46	10.38	1.004	0.852	1.993	13.45	8.841
Composite NOX :	0.663	0.822	1.191	0.916	2.791	0.572	0.784	6.994	1.10	1.410

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Minor Arterial 28.0 mph - CY2008
* File 1, Run 2, Scenario 58.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types
  M 48 War    :
```

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2008
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
  Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.951	0.976	1.632	1.143	1.459	0.300	0.574	0.478	2.48	1.032
Composite CO :	8.12	9.53	13.26	10.48	11.47	1.063	0.901	2.209	14.67	8.929
Composite NOX :	0.679	0.837	1.211	0.933	2.725	0.582	0.798	7.115	1.07	1.433

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Collector 33.0 mph - CY2008
* File 1, Run 2, Scenario 59.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

      Calendar Year:  2008
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
  Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.900	0.932	1.559	1.093	1.329	0.276	0.525	0.416	2.35	0.977
Composite CO :	8.13	9.55	13.27	10.50	9.84	0.973	0.826	1.880	12.73	8.846
Composite NOX :	0.655	0.816	1.184	0.910	2.836	0.570	0.781	6.969	1.11	1.404

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Local 12.9 mph Default - CY2008
* File 1, Run 2, Scenario 60.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2008
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.369	1.334	2.206	1.557	2.493	0.443	0.857	0.837	3.37	1.467
Composite CO :	7.69	9.70	13.75	10.73	25.46	1.759	1.481	4.749	28.29	9.693
Composite NOX :	0.676	0.812	1.178	0.906	2.383	0.763	1.047	8.676	0.91	1.539

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2008
* File 1, Run 2, Scenario 61.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 War    :
```

69.0 speed reduced to 65 mph maximum

M515 Warning:

The combined freeway and ramp average speed entered cannot be greater than 64.2 miles per hour. The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 64.2 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.750	0.809	1.334	0.943	1.051	0.224	0.423	0.286	2.74	0.827
Composite CO :	10.81	12.25	16.56	13.35	13.35	0.991	0.841	1.945	25.00	11.462
Composite NOX :	0.700	0.894	1.269	0.990	3.538	1.094	1.503	14.258	1.65	2.115

* #
* Oldham Rural Principal Arterial 57.0 mph - CY2008
* File 1, Run 2, Scenario 62.
* #

M583 Warning:

The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2008
Month:	July

```
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
        GVWR:                <6000     >6000    (All)
                  ------   ------    ------    ------    ------    ------    ------    ------    ------   ------
VMT Distribution:  0.3728   0.3705    0.1273              0.0359    0.0004    0.0019    0.0857    0.0055   1.0000
-----------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite VOC :   0.771     0.829     1.373     0.968     1.065     0.225     0.425     0.288      2.27    0.846
  Composite CO  :   10.09     11.54     15.69     12.60     10.16     0.905     0.770     1.633     13.06   10.612
  Composite NOX :   0.683     0.868     1.240     0.963     3.372     0.827     1.134    10.088      1.44    1.730
-----------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Arterial 47.0 mph - CY2008
* File 1, Run 2, Scenario 63.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
        The user supplied arterial average speed of 47.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
M 48 Warning:
        there are no sales for vehicle class HDGV8b

            Calendar Year:  2008
                    Month:  July
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
        GVWR:                <6000     >6000    (All)
                  ------   ------    ------    ------    -----     ------    ------    ------    ------   ------
```

VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.813	0.866	1.442	1.014	1.131	0.236	0.446	0.316	2.16	0.888
Composite CO :	9.22	10.66	14.62	11.67	8.58	0.876	0.745	1.524	10.00	9.742
Composite NOX :	0.665	0.839	1.207	0.933	3.148	0.643	0.882	7.858	1.21	1.507

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Major Collector 46.0 mph - CY2008
* File 1, Run 2, Scenario 64.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2008
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.819	0.870	1.450	1.019	1.140	0.237	0.450	0.320	2.16	0.893
Composite CO :	9.13	10.57	14.50	11.57	8.53	0.876	0.745	1.526	10.07	9.658
Composite NOX :	0.663	0.837	1.204	0.930	3.125	0.631	0.864	7.707	1.20	1.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Collector 41.0 mph - CY2008
* File 1, Run 2, Scenario 65.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2008
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
  Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.845	0.890	1.485	1.042	1.195	0.248	0.472	0.348	2.20	0.920
Composite CO :	8.69	10.13	13.97	11.11	8.61	0.895	0.761	1.594	10.73	9.279
Composite NOX :	0.655	0.823	1.189	0.917	3.014	0.590	0.809	7.214	1.16	1.435

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2008
* File 1, Run 2, Scenario 66.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:

The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2008
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
```

ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.882	0.918	1.533	1.075	1.288	0.267	0.509	0.395	2.30	0.958
Composite CO :	8.17	9.59	13.31	10.54	9.35	0.946	0.803	1.780	12.10	8.850
Composite NOX :	0.648	0.810	1.177	0.904	2.877	0.568	0.778	6.947	1.13	1.398

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2008
* File 1, Run 2, Scenario 67.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              71.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2008
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.763	0.820	1.353	0.956	1.067	0.227	0.429	0.293	2.71	0.840
Composite CO :	10.92	12.31	16.61	13.41	13.11	0.988	0.839	1.936	24.21	11.517
Composite NOX :	0.704	0.897	1.276	0.994	3.496	1.062	1.458	13.780	1.61	2.076

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Freeway 2.5 mph - CY2008
* File 1, Run 2, Scenario 68.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
           The combined freeway and ramp average speed entered
          cannot be less than  2.7 miles per hour.
          The average speed will be reset to this value.
  M582 Warning:
          The user supplied freeway average speed of  2.7
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                   Calendar Year:  2008
                           Month:  July
                        Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
              Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	7.590	6.415	10.810	7.539	10.624	0.628	1.223	1.303	8.41	7.125
Composite CO :	27.56	27.45	39.29	30.48	55.15	3.079	2.582	9.569	112.87	28.883
Composite NOX :	1.416	1.555	2.203	1.721	2.208	1.064	1.461	13.800	1.04	2.655

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Principal Arterial 31.0 mph - CY2008
* File 1, Run 2, Scenario 69.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
          e user supplied arterial average speed of 31.0
```

will be used for all hours of the day. 100% of
has been assigned to the arterial/collector roadw
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.919	0.949	1.587	1.112	1.376	0.285	0.543	0.439	2.40	0.998
Composite CO :	8.09	9.51	13.22	10.46	10.38	1.004	0.852	1.993	13.45	8.841
Composite NOX :	0.663	0.822	1.191	0.916	2.791	0.572	0.784	6.994	1.10	1.410

* #
* Oldham Urban Minor Arterial 28.0 mph - CY2008
* File 1, Run 2, Scenario 70.
* #

M583 Warning:

The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm

```
          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3728    0.3705    0.1273              0.0359    0.0004    0.0019    0.0857    0.0055    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.951     0.976     1.632     1.143     1.459     0.300     0.574     0.478      2.48     1.032
    Composite CO  :      8.12      9.53     13.26     10.48     11.47     1.063     0.901     2.209     14.67     8.929
    Composite NOX :      0.679     0.837     1.211     0.933     2.725     0.582     0.798     7.115      1.07     1.433
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Collector 33.0 mph - CY2008
* File 1, Run 2, Scenario 71.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b

                 Calendar Year:  2008
                         Month:  July
                      Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:  8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:              <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3728    0.3705    0.1273              0.0359    0.0004    0.0019    0.0857    0.0055    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.900     0.932     1.559     1.093     1.329     0.276     0.525     0.416      2.35     0.977
    Composite CO  :      8.13      9.55     13.27     10.50      9.84     0.973     0.826     1.880     12.73     8.846
    Composite NOX :      0.655     0.816     1.184     0.910     2.836     0.570     0.781     6.969      1.11     1.404
 ---------------------------------------------------------------------------------------------------------------------------
```

```
* # # # #   # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2008
* File 1, Run 2, Scenario 72.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2008
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3728	0.3705	0.1273		0.0359	0.0004	0.0019	0.0857	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.369	1.334	2.206	1.557	2.493	0.443	0.857	0.837	3.37	1.467
Composite CO :	7.69	9.70	13.75	10.73	25.46	1.759	1.481	4.749	28.29	9.693
Composite NOX :	0.676	0.812	1.178	0.906	2.383	0.763	1.047	8.676	0.91	1.539

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Interstate 69.0 mph - CY2011
* File 1, Run 2, Scenario 73.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
            69.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
```

there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2011
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
       Weathered RVP:  8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.565	0.646	1.131	0.770	0.815	0.120	0.298	0.238	2.73	0.666
Composite CO :	9.05	10.05	13.64	10.97	9.25	0.775	0.620	1.283	25.00	9.483
Composite NOX :	0.537	0.684	1.069	0.783	2.399	0.549	1.006	9.760	1.65	1.535

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Principal Arterial 57.0 mph - CY2011
* File 1, Run 2, Scenario 74.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 57.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b

      Calendar Year:  2011
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
       Weathered RVP:  8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.579	0.659	1.161	0.787	0.827	0.121	0.299	0.239	2.26	0.678
Composite CO :	8.47	9.46	12.90	10.34	7.04	0.704	0.565	1.077	13.06	8.787
Composite NOX :	0.524	0.666	1.045	0.763	2.286	0.414	0.759	6.957	1.44	1.273

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Arterial 47.0 mph - CY2011
* File 1, Run 2, Scenario 75.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
               Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.609	0.684	1.216	0.820	0.872	0.127	0.315	0.262	2.15	0.709
Composite CO :	7.75	8.73	11.99	9.56	5.95	0.679	0.545	1.005	10.00	8.069
Composite NOX :	0.509	0.644	1.019	0.740	2.135	0.322	0.589	5.411	1.21	1.116

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Major Collector 46.0 mph - CY2011
* File 1, Run 2, Scenario 76.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2011
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.612	0.687	1.222	0.823	0.878	0.128	0.317	0.266	2.15	0.712
Composite CO :	7.68	8.66	11.89	9.48	5.91	0.680	0.546	1.006	10.07	8.000
Composite NOX :	0.508	0.642	1.017	0.738	2.119	0.316	0.578	5.306	1.20	1.105

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Rural Minor Collector 41.0 mph - CY2011
* File 1, Run 2, Scenario 77.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```
      Calendar Year:  2011
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.631	0.700	1.250	0.841	0.915	0.134	0.333	0.289	2.19	0.732
Composite CO :	7.32	8.29	11.43	9.10	5.97	0.695	0.558	1.051	10.73	7.684
Composite NOX :	0.501	0.631	1.005	0.727	2.043	0.295	0.541	4.964	1.16	1.065

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2011
* File 1, Run 2, Scenario 78.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.658	0.719	1.288	0.865	0.976	0.145	0.361	0.329	2.29	0.760
Composite CO :	6.89	7.85	10.88	8.63	6.48	0.737	0.591	1.174	12.10	7.322
Composite NOX :	0.496	0.622	0.996	0.718	1.951	0.284	0.520	4.778	1.13	1.038

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Interstate 71.0 mph - CY2011
* File 1, Run 2, Scenario 79.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0     speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.574	0.653	1.145	0.779	0.825	0.122	0.302	0.243	2.70	0.675
Composite CO :	9.13	10.09	13.68	11.01	9.08	0.773	0.618	1.277	24.21	9.519
Composite NOX :	0.539	0.687	1.074	0.786	2.371	0.533	0.976	9.436	1.61	1.508

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Freeway 2.5 mph - CY2011
* File 1, Run 2, Scenario 80.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
            The combined freeway and ramp average speed entered
             nnot be less than  2.7 miles per hour.
```

The average speed will be reset to this value.

M582 Wai .g:

The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	5.340	4.698	8.709	5.723	7.628	0.355	0.882	1.082	8.40	5.267
Composite CO :	23.34	22.84	31.39	25.03	38.20	2.498	1.975	6.311	112.87	23.747
Composite NOX :	1.086	1.181	1.839	1.349	1.497	0.534	0.978	9.451	1.04	1.960

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Principal Arterial 31.0 mph - CY2011
* File 1, Run 2, Scenario 81.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb

Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.685	0.742	1.332	0.893	1.031	0.155	0.386	0.364	2.39	0.789
Composite CO :	6.84	7.80	10.81	8.57	7.19	0.786	0.629	1.315	13.45	7.323
Composite NOX :	0.507	0.630	1.008	0.727	1.892	0.286	0.524	4.811	1.10	1.048

* #
* Bullitt Urban Minor Arterial 28.0 mph - CY2011
* File 1, Run 2, Scenario 82.
* #

M583 Warning:
The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Compo VOC :	0.708	0.762	1.369	0.917	1.083	0.165	0.408	0.397	2.47	[illegible]815

Composite CO :	6.88	7.83	10.86	8.61	7.94	0.834	0.667	1.457	14.67	7.401
Composite NOX :	0.520	0.642	1.024	0.735	1.848	0.291	0.533	4.895	1.07	1.064

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Collector 33.0 mph - CY2011
* File 1, Run 2, Scenario 83.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.671	0.730	1.309	0.878	1.002	0.150	0.373	0.345	2.34	0.774
Composite CO :	6.86	7.83	10.85	8.60	6.81	0.760	0.608	1.240	12.73	7.322
Composite NOX :	0.501	0.626	1.001	0.722	1.923	0.285	0.522	4.794	1.11	1.043

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Local 12.9 mph Default - CY2011
* File 1, Run 2, Scenario 84.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
```

```
                 Month:  July
              Altitude:  Low
   Minimum Temperature:  67.0 (F)
   Maximum Temperature:  92.0 (F)
     Absolute Humidity:   75. grains/lb
      Nominal Fuel RVP:   8.6 psi
         Weathered RVP:   8.2 psi
   Fuel Sulfur Content:   30. ppm

   Exhaust I/M Program:  No
      Evap I/M Program:  No
           ATP Program:  No
      Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.018	1.037	1.841	1.243	1.742	0.247	0.615	0.695	3.36	1.148
Composite CO :	6.85	8.22	11.45	9.05	17.64	1.408	1.118	3.132	28.29	8.194
Composite NOX :	0.525	0.632	1.001	0.726	1.616	0.382	0.700	6.038	0.91	1.148

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2011
* File 1, Run 2, Scenario 85.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
              69.0     speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 64.2 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 64.2
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                 Calendar Year:  2011
                         Month:  July
                      Altitude:  Low
   Minimum Temperature:  67.0 (F)
   Maximum Temperature:  92.0 (F)
     Absolute Humidity:   75. grains/lb
      Nominal Fuel RVP:   8.6 psi
         Weathered RVP:   8.2 psi
   Fuel Sulfur Content:   30. ppm
```

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.565	0.646	1.131	0.770	0.815	0.120	0.298	0.238	2.73	0.666
Composite CO :	9.05	10.05	13.64	10.97	9.25	0.775	0.620	1.283	25.00	9.483
Composite NOX :	0.537	0.684	1.069	0.783	2.399	0.549	1.006	9.760	1.65	1.535

* #
* Oldham Rural Principal Arterial 57.0 mph - CY2011
* File 1, Run 2, Scenario 86.
* #

M583 Warning:
The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.579	0.659	1.161	0.787	0.827	0.121	0.299	0.239	2.26	0.678
Composite CO :	8.47	9.46	12.90	10.34	7.04	0.704	0.565	1.077	13.06	8.787
Composite NOX :	0.524	0.666	1.045	0.763	2.286	0.414	0.759	6.957	1.44	1.273

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Arterial 47.0 mph - CY2011
* File 1, Run 2, Scenario 87.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2011
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.609	0.684	1.216	0.820	0.872	0.127	0.315	0.262	2.15	0.709
Composite CO :	7.75	8.73	11.99	9.56	5.95	0.679	0.545	1.005	10.00	8.069
Composite NOX :	0.509	0.644	1.019	0.740	2.135	0.322	0.589	5.411	1.21	1.116

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Major Collector 46.0 mph - CY2011
* File 1, Run 2, Scenario 88.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b

                   Calendar Year:  2011
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
```

```
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  No
          Evap I/M Program:  No
               ATP Program:  No
          Reformulated Gas:  No

  Vehicle Type:      LDGV    LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC    All Veh
          GVWR:                <6000   >6000    (All)
                    ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
 VMT Distribution:  0.3367   0.3972   0.1365            0.0360   0.0003   0.0020   0.0860   0.0054   1.0000
-----------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :   0.612    0.687    1.222    0.823    0.878    0.128    0.317    0.266     2.15    0.712
   Composite CO  :   7.68     8.66     11.89    9.48     5.91     0.680    0.546    1.006    10.07    8.000
   Composite NOX :   0.508    0.642    1.017    0.738    2.119    0.316    0.578    5.306     1.20    1.105
-----------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                 Rural Minor Collector 41.0 mph - CY2011
* File 1, Run 2, Scenario 89.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

              Calendar Year:  2011
                      Month:  July
                   Altitude:  Low
       Minimum Temperature:   67.0 (F)
       Maximum Temperature:   92.0 (F)
        Absolute Humidity:    75. grains/lb
         Nominal Fuel RVP:    8.6 psi
            Weathered RVP:    8.2 psi
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  No
          Evap I/M Program:  No
               ATP Program:  No
          Reformulated Gas:  No

  Vehicle Type:      LDGV    LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC    All Veh
          GVWR:                <6000   >6000    (All)
                    ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
 VMT Distribution:  0.3367   0.3972   0.1365            0.0360   0.0003   0.0020   0.0860   0.0054   1.0000
-----------------------------------------------------------------------------------------------------------------
```

Composite Emission Factors (g/mi):

Composite VOC :	0.631	0.700	1.250	0.841	0.915	0.134	0.333	0.289	2.19	0.732
Composite CO :	7.32	8.29	11.43	9.10	5.97	0.695	0.558	1.051	10.73	7.684
Composite NOX :	0.501	0.631	1.005	0.727	2.043	0.295	0.541	4.964	1.16	1.065

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2011
* File 1, Run 2, Scenario 90.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b

                Calendar Year:  2011
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.658	0.719	1.288	0.865	0.976	0.145	0.361	0.329	2.29	0.760
Composite CO :	6.89	7.85	10.88	8.63	6.48	0.737	0.591	1.174	12.10	7.322
Composite NOX :	0.496	0.622	0.996	0.718	1.951	0.284	0.520	4.778	1.13	1.038

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2011
* File 1, Run 2, Scenario 91.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M 96 Warning:
              71.0      speed reduced to 65 mph maximum
M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
            e average speed will be reset to this value.
```

M582 Warning:
The user supplied freeway average speed of 60.9
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.574	0.653	1.145	0.779	0.825	0.122	0.302	0.243	2.70	0.675
Composite CO :	9.13	10.09	13.68	11.01	9.08	0.773	0.618	1.277	24.21	9.519
Composite NOX :	0.539	0.687	1.074	0.786	2.371	0.533	0.976	9.436	1.61	1.508

* #
* Oldham Urban Freeway 2.5 mph - CY2011
* File 1, Run 2, Scenario 92.
* #

M514 Warning:
The combined freeway and ramp average speed entered
cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

```
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

    Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
           GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:    0.3367    0.3972    0.1365              0.0360    0.0003    0.0020    0.0860    0.0054    1.0000
-----------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :     5.340     4.698     8.709     5.723     7.628     0.355     0.882     1.082      8.40     5.267
   Composite CO  :     23.34     22.84     31.39     25.03     38.20     2.498     1.975     6.311    112.87    23.747
   Composite NOX :     1.086     1.181     1.839     1.349     1.497     0.534     0.978     9.451      1.04     1.960
-----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Principal Arterial 31.0 mph - CY2011
* File 1, Run 2, Scenario 93.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

              Calendar Year:  2011
                      Month:  July
                   Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

    Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
           GVWR:                <6000     >6000     (All)
                     ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
```

VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.685	0.742	1.332	0.893	1.031	0.155	0.386	0.364	2.39	0.789
Composite CO :	6.84	7.80	10.81	8.57	7.19	0.786	0.629	1.315	13.45	7.323
Composite NOX :	0.507	0.630	1.008	0.727	1.892	0.286	0.524	4.811	1.10	1.048

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Minor Arterial 28.0 mph - CY2011
* File 1, Run 2, Scenario 94.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:  8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.708	0.762	1.369	0.917	1.083	0.165	0.408	0.397	2.47	0.815
Composite CO :	6.88	7.83	10.86	8.61	7.94	0.834	0.667	1.457	14.67	7.401
Composite NOX :	0.520	0.642	1.024	0.739	1.848	0.291	0.533	4.895	1.07	1.064

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Collector 33.0 mph - CY2011
* File 1, Run 2, Scenario 95.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
```

```
          type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:     0.3367    0.3972    0.1365              0.0360    0.0003    0.0020    0.0860    0.0054    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.671     0.730     1.309     0.878     1.002     0.150     0.373     0.345      2.34     0.774
    Composite CO  :      6.86      7.83     10.85      8.60      6.81     0.760     0.608     1.240     12.73     7.322
    Composite NOX :      0.501     0.626     1.001     0.722     1.923     0.285     0.522     4.794      1.11     1.043
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Local 12.9 mph Default - CY2011
* File 1, Run 2, Scenario 96.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b

                  Calendar Year:  2011
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
```

Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3367	0.3972	0.1365		0.0360	0.0003	0.0020	0.0860	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.018	1.037	1.841	1.243	1.742	0.247	0.615	0.695	3.36	1.148
Composite CO :	6.85	8.22	11.45	9.05	17.64	1.408	1.118	3.132	28.29	8.194
Composite NOX :	0.525	0.632	1.001	0.726	1.616	0.382	0.700	6.038	0.91	1.148

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Rural Interstate 69.0 mph - CY2014
* File 1, Run 2, Scenario 97.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              69.0      speed reduced to 65 mph maximum
 M515 Warning:
         The combined freeway and ramp average speed entered
         cannot be greater than 64.2 miles per hour.
         The average speed will be reset to this value.
 M582 Warning:
         The user supplied freeway average speed of 64.2
         will be used for all hours of the day. 100% of VMT
         has been assigned to a fixed combination of freeways
         and freeway ramps for all hours of the day and all
          vehicle types.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b
 M 48 Warning:
          there are no sales for vehicle class LDDT12

             Calendar Year:  2014
                     Month:  July
                  Altitude:  Low
       Minimum Temperature:  67.0 (F)
       Maximum Temperature:  92.0 (F)
         Absolute Humidity:   75. grains/lb
          Nominal Fuel RVP:   8.6 psi
             Weathered RVP:   8.2 psi
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  No
          Evap I/M Program:  No
               ATP Program:  No
          Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.431	0.524	0.936	0.629	0.638	0.080	0.243	0.202	2.73	0.541
Composite CO :	7.74	8.69	11.75	9.47	8.41	0.668	0.537	0.762	25.00	8.204
Composite NOX :	0.407	0.528	0.900	0.623	1.518	0.288	0.726	6.216	1.65	1.078

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Principal Arterial 57.0 mph - CY2014
* File 1, Run 2, Scenario 98.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2014
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.441	0.533	0.958	0.642	0.647	0.080	0.244	0.203	2.26	0.549
Composite CO :	7.25	8.18	11.10	8.92	6.40	0.607	0.490	0.640	13.06	7.597
Composite NOX :	0.397	0.514	0.881	0.608	1.447	0.217	0.548	4.433	1.44	0.908

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Arterial 47.0 mph - CY2014
* File 1, Run 2, Scenario 99.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
              s been assigned to the arterial/collector roadw
```

type for all hours of the day and all vehicle typ
M 48 Wai g:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```
          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
    Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.462	0.552	0.999	0.666	0.681	0.085	0.257	0.223	2.15	0.572
Composite CO :	6.64	7.54	10.28	8.25	5.41	0.585	0.473	0.597	10.00	6.975
Composite NOX :	0.386	0.497	0.859	0.590	1.351	0.169	0.426	3.451	1.21	0.805

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Major Collector 46.0 mph - CY2014
* File 1, Run 2, Scenario 100.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
        The user supplied arterial average speed of 46.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
M 48 Warning:
        there are no sales for vehicle class HDGV8b
M 48 Warning:
        there are no sales for vehicle class LDDT12

          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
```

```
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3099    0.4167    0.1431              0.0360    0.0003    0.0021    0.0866    0.0053    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.465     0.554     1.004     0.669     0.686     0.085     0.259     0.226      2.15     0.575
    Composite CO  :      6.58      7.48     10.20      8.17      5.37     0.586     0.474     0.598     10.07     6.916
    Composite NOX :      0.385     0.496     0.857     0.588     1.341     0.166     0.418     3.384      1.20     0.797
 -----------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Rural Minor Collector 41.0 mph - CY2014
* File 1, Run 2, Scenario 101.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2014
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.3099    0.4167    0.1431              0.0360    0.0003    0.0021    0.0866    0.0053    1.0000
 -----------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Compo[illegible] VOC :      0.480     0.564     1.025     0.682[illegible]    0.715     0.090     0.271     0.245      2.19     [illegible]590
```

Compo[illegible]e CO :	6.28	7.16	9.80	7.84	5.43	0.599	0.484	0.624	10.73	[illegible].642
Compo[illegible]e NOX :	0.380	0.488	0.847	0.58[illegible]	1.293	0.155	0.391	3.167	1.16	0.770

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt               Rural Local 35.0 mph - CY2014
* File 1, Run 2, Scenario 102.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
  M 48 Warning:
            there are no sales for vehicle class HDGV8b
  M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2014
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.500	0.579	1.054	0.700	0.762	0.097	0.292	0.279	2.29	0.611
Composite CO :	5.92	6.78	9.31	7.43	5.90	0.635	0.512	0.697	12.10	6.329
Composite NOX :	0.376	0.481	0.839	0.572	1.234	0.149	0.377	3.049	1.13	0.752

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt               Urban Interstate 71.0 mph - CY2014
* File 1, Run 2, Scenario 103.
* # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
              71.0      speed reduced to 65 mph maximum
  M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
```

M582 Warning:
The user supplied freeway average speed of 60.9
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.438	0.530	0.947	0.636	0.646	0.081	0.247	0.207	2.70	0.548
Composite CO :	7.80	8.72	11.77	9.50	8.26	0.666	0.535	0.758	24.21	8.228
Composite NOX :	0.408	0.530	0.905	0.626	1.500	0.279	0.704	6.009	1.61	1.061

* #
* Bullitt Urban Freeway 2.5 mph - CY2014
* File 1, Run 2, Scenario 104.
* #

M514 Warning:
The combined freeway and ramp average speed entered
cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warn

there are no sales for vehicle class LDDT12

```
          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.998	3.751	6.824	4.536	5.797	0.238	0.699	0.919	8.40	4.113
Composite CO :	20.28	19.89	26.46	21.57	34.76	2.162	1.686	3.749	112.87	20.537
Composite NOX :	0.829	0.905	1.535	1.066	0.947	0.280	0.706	6.018	1.04	1.416

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Principal Arterial 31.0 mph - CY2014
* File 1, Run 2, Scenario 105.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
```

ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.521	0.597	1.088	0.722	0.805	0.104	0.312	0.309	2.39	0.635
Composite CO :	5.89	6.75	9.25	7.39	6.54	0.677	0.544	0.781	13.45	6.339
Composite NOX :	0.385	0.487	0.850	0.580	1.197	0.150	0.379	3.069	1.10	0.759

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Minor Arterial 28.0 mph - CY2014
* File 1, Run 2, Scenario 106.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
           The user supplied arterial average speed of 28.0
           will be used for all hours of the day.  100% of VMT
           has been assigned to the arterial/collector roadway
           type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2014
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.539	0.612	1.116	0.741	0.845	0.110	0.329	0.337	2.47	0.655
Composite CO :	5.93	6.79	9.30	7.43	7.23	0.720	0.577	0.866	14.67	6.411
Composite NOX :	0.394	0.495	0.863	0.589	1.169	0.153	0.386	3.123	1.07	0.771

* #
* Bullitt Urban Collector 33.0 mph - CY2014
* File 1, Run 2, Scenario 107.
* #

M583 Warning:
The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.510	0.587	1.070	0.711	0.782	0.100	0.302	0.293	2.34	0.622
Composite CO :	5.90	6.77	9.28	7.41	6.20	0.655	0.527	0.737	12.73	6.334
Composite NOX :	0.380	0.483	0.844	0.576	1.217	0.150	0.378	3.058	1.11	0.755

* #
* Bullitt Urban Local 12.9 mph Default - CY2014
* File 1, Run 2, Scenario 108.
* #

M585 Warning:
100% of VMT has been assigned to the local roadway type for all hours of the day for all vehicle types with an average speed of 12.9 mph.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

```
                    Month:  July
                 Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.787	0.841	1.496	1.008	1.355	0.166	0.490	0.590	3.36	0.927
Composite CO :	6.20	7.26	9.89	7.93	16.05	1.217	0.959	1.860	28.29	7.253
Composite NOX :	0.404	0.491	0.843	0.581	1.022	0.201	0.506	3.844	0.91	0.826

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2014
* File 1, Run 2, Scenario 109.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
                69.0     speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2014
                        Month:  July
                     Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
```

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.431	0.524	0.936	0.629	0.638	0.080	0.243	0.202	2.73	0.541
Composite CO :	7.74	8.69	11.75	9.47	8.41	0.668	0.537	0.762	25.00	8.204
Composite NOX :	0.407	0.528	0.900	0.623	1.518	0.288	0.726	6.216	1.65	1.078

* #
* Oldham Rural Principal Arterial 57.0 mph - CY2014
* File 1, Run 2, Scenario 110.
* #
M583 Warning:
The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.441	0.533	0.958	0.642	0.647	0.080	0.244	0.203	2.26	0.549

```
  Composite CO  :     7.25    8.18   11.10    8.92    6.40   0.607   0.490   0.640   13.06    7.597
  Composite NOX :    0.397   0.514   0.881   0.608   1.447   0.217   0.548   4.433    1.44    0.908
---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Rural Minor Arterial 47.0 mph - CY2014
* File 1, Run 2, Scenario 111.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 47.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

              Calendar Year:  2014
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:  75. grains/lb
         Nominal Fuel RVP:    8.6 psi
              Weathered RVP:  8.2 psi
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
          Reformulated Gas:   No

     Vehicle Type:     LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
             GVWR:             <6000    >6000   (All)
                     ------   ------   ------  ------  ------  ------  ------  ------  ------   ------
 VMT Distribution:   0.3099   0.4167   0.1431          0.0360  0.0003  0.0021  0.0866  0.0053   1.0000
------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :    0.462    0.552    0.999   0.666   0.681   0.085   0.257   0.223    2.15    0.572
   Composite CO  :    6.64     7.54    10.28    8.25    5.41    0.585   0.473   0.597   10.00    6.975
   Composite NOX :    0.386    0.497    0.859   0.590   1.351   0.169   0.426   3.451    1.21    0.805
------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Rural Major Collector 46.0 mph - CY2014
* File 1, Run 2, Scenario 112.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 46.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle type
 M 48 War
```

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.465	0.554	1.004	0.669	0.686	0.085	0.259	0.226	2.15	0.575
Composite CO :	6.58	7.48	10.20	8.17	5.37	0.586	0.474	0.598	10.07	6.916
Composite NOX :	0.385	0.496	0.857	0.588	1.341	0.166	0.418	3.384	1.20	0.797

* #
* Oldham Rural Minor Collector 41.0 mph - CY2014
* File 1, Run 2, Scenario 113.
* #

M583 Warning:
The user supplied arterial average speed of 41.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.480	0.564	1.025	0.682	0.715	0.090	0.271	0.245	2.19	0.590
Composite CO :	6.28	7.16	9.80	7.84	5.43	0.599	0.484	0.624	10.73	6.642
Composite NOX :	0.380	0.488	0.847	0.580	1.293	0.155	0.391	3.167	1.16	0.770

* #
* Oldham Rural Local 35.0 mph - CY2014
* File 1, Run 2, Scenario 114.
* #

M583 Warning:
The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.500	0.579	1.054	0.700	0.762	0.097	0.292	0.279	2.29	0.611
Composite CO :	5.92	6.78	9.31	7.43	5.90	0.635	0.512	0.697	12.10	329
Compos NOX :	0.376	0.481	0.839	0.572	1.234	0.149	0.377	3.049	1.13	752

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                    Urban Interstate 71.0 mph - CY2014
* File 1, Run 2, Scenario 115.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                 71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
             vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2014
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:  8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.438	0.530	0.947	0.636	0.646	0.081	0.247	0.207	2.70	0.548
Composite CO :	7.80	8.72	11.77	9.50	8.26	0.666	0.535	0.758	24.21	8.228
Composite NOX :	0.408	0.530	0.905	0.626	1.500	0.279	0.704	6.009	1.61	1.061

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                    Urban Freeway 2.5 mph - CY2014
* File 1, Run 2, Scenario 116.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M514 Warning:
```

The combined freeway and ramp average speed entered
cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7
will be used for all hours of the day. 100% of VMT
has been assigned to a fixed combination of freeways
and freeway ramps for all hours of the day and all
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2014
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.998	3.751	6.824	4.536	5.797	0.238	0.699	0.919	8.40	4.113
Composite CO :	20.28	19.89	26.46	21.57	34.76	2.162	1.686	3.749	112.87	20.537
Composite NOX :	0.829	0.905	1.535	1.066	0.947	0.280	0.706	6.018	1.04	1.416

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Principal Arterial 31.0 mph - CY2014
* File 1, Run 2, Scenario 117.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
    Minimum Temperature:  67.0 (F)
    Maximum Temperature:  92.0 (F)
      Absolute Humidity:   75. grains/lb
       Nominal Fuel RVP:   8.6 psi
          Weathered RVP:   8.2 psi
    Fuel Sulfur Content:   30. ppm

   Exhaust I/M Program:  No
      Evap I/M Program:  No
           ATP Program:  No
      Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.521	0.597	1.088	0.722	0.805	0.104	0.312	0.309	2.39	0.635
Composite CO :	5.89	6.75	9.25	7.39	6.54	0.677	0.544	0.781	13.45	6.339
Composite NOX :	0.385	0.487	0.850	0.580	1.197	0.150	0.379	3.069	1.10	0.759

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Minor Arterial 28.0 mph - CY2014
* File 1, Run 2, Scenario 118.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 28.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

          Calendar Year:  2014
                  Month:  July
               Altitude:  Low
    Minimum Temperature:  67.0 (F)
    Maximum Temperature:  92.0 (F)
      Absolute Humidity:   75. grains/lb
       Nominal Fuel RVP:   8.6 psi
          Weathered RVP:   8.2 psi
    Fuel Sulfur Content:   30. ppm

   Exhaust I/M Program:  No
      Evap I/M Program:  No
           ATP Program:  No
      Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.539	0.612	1.116	0.741	0.845	0.110	0.329	0.337	2.47	0.655
Composite CO :	5.93	6.79	9.30	7.43	7.23	0.720	0.577	0.866	14.67	6.411
Composite NOX :	0.394	0.495	0.863	0.589	1.169	0.153	0.386	3.123	1.07	0.771

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Collector 33.0 mph - CY2014
* File 1, Run 2, Scenario 119.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2014
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3099	0.4167	0.1431		0.0360	0.0003	0.0021	0.0866	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.510	0.587	1.070	0.711	0.782	0.100	0.302	0.293	2.34	0.622
Composite CO :	5.90	6.77	9.28	7.41	6.20	0.655	0.527	0.737	12.73	6.334
Composite NOX :	0.380	0.483	0.844	0.576	1.217	0.150	0.378	3.058	1.11	0.755

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2014
```

```
* File 1, Run 2, Scenario 120.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2014
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:   No

     Vehicle Type:      LDGV    LDGT12    LDGT34    LDGT      HDGV     LDDV     LDDT     HDDV      MC    All Veh
            GVWR:               <6000     >6000    (All)
                        ------   ------    ------   ------    ------   ------   ------   ------   ------   ------
 VMT Distribution:      0.3099   0.4167    0.1431             0.0360   0.0003   0.0021   0.0866   0.0053   1.0000
 ----------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :     0.787    0.841     1.496    1.008     1.355    0.166    0.490    0.590    3.36     0.927
    Composite CO  :     6.20     7.26      9.89     7.93     16.05     1.217    0.959    1.860   28.29     7.253
    Composite NOX :     0.404    0.491     0.843    0.581     1.022    0.201    0.506    3.844    0.91     0.826
 ----------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Interstate 69.0 mph - CY2017
* File 1, Run 2, Scenario 121.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              69.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
```

```
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:                <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:      0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
    Composite VOC :      0.347     0.454     0.784     0.539     0.508     0.059     0.206     0.181      2.73     0.461
    Composite CO  :      7.00      7.98     10.65      8.66      8.17     0.599     0.484     0.533     25.00     7.520
    Composite NOX :      0.320     0.431     0.763     0.516     1.019     0.155     0.554     4.150      1.65     0.799
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Principal Arterial 57.0 mph - CY2017
* File 1, Run 2, Scenario 122.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm
```

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.355	0.462	0.802	0.549	0.515	0.059	0.206	0.183	2.26	0.468
Composite CO :	6.56	7.50	10.05	8.16	6.22	0.544	0.442	0.447	13.06	6.958
Composite NOX :	0.313	0.419	0.746	0.502	0.971	0.117	0.418	2.944	1.44	0.681

* #
* Bullitt Rural Minor Arterial 47.0 mph - CY2017
* File 1, Run 2, Scenario 123.
* #

M583 Warning:
The user supplied arterial average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.373	0.478	0.835	0.569	0.542	0.063	0.216	0.200	2.15	0.486
Composite CO :	6.02	6.92	9.31	7.53	5.26	0.525	0.428	0.418	10.00	6.388
Composite NOX :	0.305	0.405	0.727	0.487	0.907	0.091	0.326	2.294	1.21	0.610

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Major Collector 46.0 mph - CY2017
* File 1, Run 2, Scenario 124.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.375	0.480	0.839	0.571	0.546	0.063	0.218	0.203	2.15	0.489
Composite CO :	5.97	6.86	9.23	7.47	5.22	0.525	0.428	0.418	10.07	6.333
Composite NOX :	0.304	0.403	0.725	0.486	0.900	0.090	0.320	2.250	1.20	0.604

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Collector 41.0 mph - CY2017
* File 1, Run 2, Scenario 125.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 War:
```

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.388	0.489	0.856	0.583	0.570	0.066	0.228	0.221	2.19	0.502
Composite CO :	5.70	6.57	8.86	7.16	5.28	0.537	0.437	0.437	10.73	6.083
Composite NOX :	0.300	0.397	0.717	0.479	0.868	0.084	0.299	2.106	1.16	0.585

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2017
* File 1, Run 2, Scenario 126.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No

```
                ATP Program:  No
           Reformulated Gas:  No

   Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
           GVWR:               <6000     >6000    (All)
                    ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:  0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
-------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :   0.406     0.502     0.880     0.598     0.609     0.072     0.245     0.251      2.29     0.521
   Composite CO  :   5.37      6.22      8.42      6.78      5.73      0.570     0.462     0.488     12.10     5.799
   Composite NOX :   0.298     0.391     0.710     0.472     0.829     0.081     0.288     2.028      1.13     0.573
-------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt            Urban Interstate 71.0 mph - CY2017
* File 1, Run 2, Scenario 127.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              71.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
            there are no sales for vehicle class HDGV8b
 M 48 Warning:
            there are no sales for vehicle class LDDT12

                  Calendar Year:  2017
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No

   Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
           GVWR:               <6000     >6000    (All)
                    ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Dist   ution:  0.2912    0.4304    0.1478               .0361    0.0003    0.0022    0.0869    0.0052      )000
```

Composit[illegible] [illegible]ission Factors (g/mi):

Composite VOC :	0.353	0.459	0.794	0.545	0.514	0.060	0.208	0.186	2.70	0.467
Composite CO :	7.05	8.00	10.67	8.69	8.03	0.598	0.483	0.530	24.21	7.539
Composite NOX :	0.321	0.432	0.767	0.517	1.007	0.151	0.537	4.011	1.61	0.787

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt               Urban Freeway 2.5 mph - CY2017
* File 1, Run 2, Scenario 128.
* # # # # # # # # # # # # # # # # # # # # # # # # #
 M514 Warning:
           The combined freeway and ramp average speed entered
          cannot be less than  2.7 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of  2.7
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

              Calendar Year:  2017
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  No
          Evap I/M Program:  No
               ATP Program:  No
          Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.362	3.314	5.599	3.898	4.654	0.177	0.574	0.826	8.40	3.518
Composite CO :	18.50	18.47	24.23	19.94	33.77	1.948	1.507	2.622	112.87	18.957
Composite NOX :	0.666	0.742	1.305	0.886	0.636	0.151	0.538	4.017	1.04	1.084

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt               Urban Principal Arterial 31.0 mph - CY2017
```

```
* File 1, Run 2, Scenario 129.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 31.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:                <6000     >6000     (All)
                       ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:    0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
  ---------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :     0.424     0.517     0.908     0.617     0.644     0.077     0.261     0.278      2.39     0.541
    Composite CO  :     5.36      6.20      8.38      6.75      6.36      0.608     0.491     0.546     13.45     5.813
    Composite NOX :     0.305     0.396     0.718     0.479     0.804     0.081     0.290     2.042      1.10     0.578
  ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Minor Arterial 28.0 mph - CY2017
* File 1, Run 2, Scenario 130.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
```

Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.440	0.531	0.932	0.634	0.676	0.081	0.275	0.303	2.47	0.559
Composite CO :	5.40	6.24	8.42	6.79	7.02	0.646	0.520	0.605	14.67	5.884
Composite NOX :	0.313	0.403	0.730	0.487	0.785	0.083	0.295	2.078	1.07	0.588

* #
* Bullitt Urban Collector 33.0 mph - CY2017
* File 1, Run 2, Scenario 131.
* #

M583 Warning:
The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.415	0.509	0.893	0.607	0.625	0.074	0.253	0.264	2.34	0.530
Composite CO :	5.37	6.21	8.40	6.77	6.02	0.588	0.475	0.515	12.73	5.806
Composite NOX :	0.301	0.393	0.714	0.475	0.817	0.081	0.289	2.035	1.11	0.575

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Local 12.9 mph Default - CY2017
* File 1, Run 2, Scenario 132.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2017
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.659	0.739	1.254	0.871	1.094	0.123	0.405	0.531	3.36	0.799
Composite CO :	5.81	6.75	9.05	7.34	15.59	1.095	0.860	1.301	28.29	6.760
Composite NOX :	0.324	0.400	0.712	0.480	0.687	0.108	0.386	2.548	0.91	0.624

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2017
* File 1, Run 2, Scenario 133.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
```

69.0 speed reduced to 65 mph maximum

M515 Wa ng:
The combined freeway and ramp average speed entered cannot be greater than 64.2 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 64.2 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.347	0.454	0.784	0.539	0.508	0.059	0.206	0.181	2.73	0.461
Composite CO :	7.00	7.98	10.65	8.66	8.17	0.599	0.484	0.533	25.00	7.520
Composite NOX :	0.320	0.431	0.763	0.516	1.019	0.155	0.554	4.150	1.65	0.799

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Principal Arterial 57.0 mph - CY2017
* File 1, Run 2, Scenario 134.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.355	0.462	0.802	0.549	0.515	0.059	0.206	0.183	2.26	0.468
Composite CO :	6.56	7.50	10.05	8.16	6.22	0.544	0.442	0.447	13.06	6.958
Composite NOX :	0.313	0.419	0.746	0.502	0.971	0.117	0.418	2.944	1.44	0.681

* #
* Oldham Rural Minor Arterial 47.0 mph - CY2017
* File 1, Run 2, Scenario 135.
* #

M583 Warning:
The user supplied arterial average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No

ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.373	0.478	0.835	0.569	0.542	0.063	0.216	0.200	2.15	0.486
Composite CO :	6.02	6.92	9.31	7.53	5.26	0.525	0.428	0.418	10.00	6.388
Composite NOX :	0.305	0.405	0.727	0.487	0.907	0.091	0.326	2.294	1.21	0.610

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Major Collector 46.0 mph - CY2017
* File 1, Run 2, Scenario 136.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 46.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
           there are no sales for vehicle class HDGV8b
M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.375	0.480	0.839	0.571	0.546	0.063	0.218	0.203	2.15	0.489
Composite CO :	5.97	6.86	9.23	7.47	5.22	0.525	0.428	0.418	10.07	6.333
Composite NOX :	0.304	0.403	0.725	0.486	0.900	0.090	0.320	2.250	1.20	0.604

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Collector 41.0 mph - CY2017
* File 1, Run 2, Scenario 137.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                    Calendar Year:  2017
                            Month:  July
                         Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
              GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2912    0.4304    0.1478              0.0361    0.0003    0.0022    0.0869    0.0052    1.0000
 ------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.388     0.489     0.856     0.583     0.570     0.066     0.228     0.221      2.19     0.502
    Composite CO  :      5.70      6.57      8.86      7.16      5.28      0.537     0.437     0.437     10.73     6.083
    Composite NOX :      0.300     0.397     0.717     0.479     0.868     0.084     0.299     2.106      1.16     0.585
 ------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2017
* File 1, Run 2, Scenario 138.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.406	0.502	0.880	0.598	0.609	0.072	0.245	0.251	2.29	0.521
Composite CO :	5.37	6.22	8.42	6.78	5.73	0.570	0.462	0.488	12.10	5.799
Composite NOX :	0.298	0.391	0.710	0.472	0.829	0.081	0.288	2.028	1.13	0.573

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2017
* File 1, Run 2, Scenario 139.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              71.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 60.9 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 60.9
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi

Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.353	0.459	0.794	0.545	0.514	0.060	0.208	0.186	2.70	0.467
Composite CO :	7.05	8.00	10.67	8.69	8.03	0.598	0.483	0.530	24.21	7.539
Composite NOX :	0.321	0.432	0.767	0.517	1.007	0.151	0.537	4.011	1.61	0.787

* #
* Oldham Urban Freeway 2.5 mph - CY2017
* File 1, Run 2, Scenario 140.
* #

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Veh. Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	Veh

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.362	3.314	5.599	3.898	4.654	0.177	0.574	0.826	8.40	3.518
Composite CO :	18.50	18.47	24.23	19.94	33.77	1.948	1.507	2.622	112.87	18.957
Composite NOX :	0.666	0.742	1.305	0.886	0.636	0.151	0.538	4.017	1.04	1.084

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Principal Arterial 31.0 mph - CY2017
* File 1, Run 2, Scenario 141.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2017
                        Month:  July
                     Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
              Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.424	0.517	0.908	0.617	0.644	0.077	0.261	0.278	2.39	0.541
Composite CO :	5.36	6.20	8.38	6.75	6.36	0.608	0.491	0.546	13.45	5.813
Composite NOX :	0.305	0.396	0.718	0.479	0.804	0.081	0.290	2.042	1.10	0.578

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Minor Arterial 28.0 mph - CY2017
* File 1, Run 2, Scenario 142.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.440	0.531	0.932	0.634	0.676	0.081	0.275	0.303	2.47	0.559
Composite CO :	5.40	6.24	8.42	6.79	7.02	0.646	0.520	0.605	14.67	5.884
Composite NOX :	0.313	0.403	0.730	0.487	0.785	0.083	0.295	2.078	1.07	0.588

* #
* Oldham Urban Collector 33.0 mph - CY2017
* File 1, Run 2, Scenario 143.
* #

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)

Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.415	0.509	0.893	0.607	0.625	0.074	0.253	0.264	2.34	0.530
Composite CO :	5.37	6.21	8.40	6.77	6.02	0.588	0.475	0.515	12.73	5.806
Composite NOX :	0.301	0.393	0.714	0.475	0.817	0.081	0.289	2.035	1.11	0.575

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2017
* File 1, Run 2, Scenario 144.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M585 Warning:
          100% of VMT has been assigned to the local roadway
          type for all hours of the day for all vehicle types
          with an average speed of 12.9 mph.
M 48 Warning:
          there are no sales for vehicle class HDGV8b
M 48 Warning:
          there are no sales for vehicle class LDDT12
```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2912	0.4304	0.1478		0.0361	0.0003	0.0022	0.0869	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.659	0.739	1.254	0.871	1.094	0.123	0.405	0.531	3.36	0.799
Composite CO :	5.81	6.75	9.05	7.34	15.59	1.095	0.860	1.301	28.29	6.760
Composite NOX :	0.324	0.400	0.712	0.480	0.687	0.108	0.386	2.548	0.91	0.624

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Interstate 69.0 mph - CY2020
* File 1, Run 2, Scenario 145.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              69.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.296	0.396	0.641	0.459	0.408	0.048	0.162	0.170	2.73	0.397
Composite CO :	6.63	7.58	9.85	8.16	8.01	0.571	0.416	0.388	25.00	7.116
Composite NOX :	0.271	0.385	0.674	0.459	0.711	0.099	0.415	2.735	1.65	0.621

```
* # # # #   # # # # # # # # # # # # # # # # # # # # #
* Bullitt                    Rural Principal Arterial 57.0 mph - CY2020
* File 1, Run 2, Scenario 146.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.303	0.403	0.655	0.467	0.413	0.049	0.162	0.171	2.26	0.402
Composite CO :	6.21	7.13	9.29	7.68	6.10	0.518	0.379	0.326	13.06	6.578
Composite NOX :	0.265	0.375	0.658	0.447	0.678	0.075	0.314	1.971	1.44	0.543

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                    Rural Minor Arterial 47.0 mph - CY2020
* File 1, Run 2, Scenario 147.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 47.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12
```

```
          Calendar Year:  2020
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
     Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.319	0.417	0.681	0.484	0.436	0.051	0.170	0.188	2.15	0.418
Composite CO :	5.71	6.57	8.59	7.08	5.15	0.499	0.366	0.304	10.00	6.033
Composite NOX :	0.258	0.362	0.641	0.433	0.633	0.058	0.245	1.525	1.21	0.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Major Collector 46.0 mph - CY2020
* File 1, Run 2, Scenario 148.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 46.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

          Calendar Year:  2020
                  Month:  July
               Altitude:  Low
  Minimum Temperature:  67.0 (F)
  Maximum Temperature:  92.0 (F)
    Absolute Humidity:   75. grains/lb
     Nominal Fuel RVP:   8.6 psi
        Weathered RVP:   8.2 psi
  Fuel Sulfur Content:   30. ppm

  Exhaust I/M Program:  No
     Evap I/M Program:  No
          ATP Program:  No
     Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.321	0.418	0.684	0.486	0.439	0.052	0.171	0.190	2.15	0.420
Composite CO :	5.65	6.51	8.52	7.02	5.12	0.500	0.366	0.305	10.07	5.981
Composite NOX :	0.257	0.361	0.639	0.432	0.628	0.057	0.240	1.495	1.20	0.487

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Minor Collector 41.0 mph - CY2020
* File 1, Run 2, Scenario 149.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 41.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
             Minimum Temperature:  67.0 (F)
             Maximum Temperature:  92.0 (F)
               Absolute Humidity:   75. grains/lb
                Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:   8.2 psi
             Fuel Sulfur Content:   30. ppm

             Exhaust I/M Program:  No
                Evap I/M Program:  No
                     ATP Program:  No
                Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.333	0.427	0.698	0.496	0.460	0.054	0.179	0.207	2.19	0.432
Composite CO :	5.40	6.23	8.17	6.73	5.17	0.511	0.375	0.318	10.73	5.744
Composite NOX :	0.254	0.355	0.631	0.425	0.606	0.054	0.225	1.397	1.16	0.473

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Rural Local 35.0 mph - CY2020
```

```
* File 1, Run 2, Scenario 150.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 35.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                   Calendar Year:  2020
                           Month:  July
                        Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.350	0.438	0.717	0.509	0.493	0.059	0.193	0.235	2.29	0.449
Composite CO :	5.09	5.89	7.75	6.37	5.61	0.543	0.397	0.355	12.10	5.473
Composite NOX :	0.252	0.349	0.625	0.420	0.579	0.052	0.216	1.343	1.13	0.463

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Interstate 71.0 mph - CY2020
* File 1, Run 2, Scenario 151.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M 96 Warning:
                71.0      speed reduced to 65 mph maximum
  M515 Warning:
            The combined freeway and ramp average speed entered
            cannot be greater than 60.9 miles per hour.
            The average speed will be reset to this value.
  M582 Warning:
            The user supplied freeway average speed of 60.9
            will be used for all hours of the day. 100% of VMT
            has been assigned to a fixed combination of freeways
            and freeway ramps for all hours of the day and all
              vehicle types.
```

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)
Maximum Temperature: 92.0 (F)
Absolute Humidity: 75. grains/lb
Nominal Fuel RVP: 8.6 psi
Weathered RVP: 8.2 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: No
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.301	0.400	0.649	0.464	0.413	0.049	0.164	0.174	2.70	0.402
Composite CO :	6.67	7.61	9.87	8.19	7.87	0.569	0.415	0.387	24.21	7.133
Composite NOX :	0.271	0.387	0.677	0.461	0.703	0.096	0.403	2.646	1.61	0.614

* #
* Bullitt Urban Freeway 2.5 mph - CY2020
* File 1, Run 2, Scenario 152.
* #

M514 Warning:
The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:
The user supplied freeway average speed of 2.7 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2020
Month: July
Altitude: Low
Minimum Temperature: 67.0 (F)

```
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.020	2.944	4.447	3.329	3.794	0.145	0.454	0.775	8.40	3.055
Composite CO :	17.58	17.73	22.62	18.98	33.10	1.859	1.324	1.911	112.87	18.049
Composite NOX :	0.574	0.668	1.157	0.793	0.444	0.097	0.404	2.651	1.04	0.882

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Principal Arterial 31.0 mph - CY2020
* File 1, Run 2, Scenario 153.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 31.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
          there are no sales for vehicle class HDGV8b
M 48 Warning:
          there are no sales for vehicle class LDDT12

              Calendar Year:  2020
                      Month:  July
                   Altitude:  Low
        Minimum Temperature:  67.0 (F)
        Maximum Temperature:  92.0 (F)
          Absolute Humidity:   75. grains/lb
           Nominal Fuel RVP:   8.6 psi
              Weathered RVP:   8.2 psi
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  No
           Evap I/M Program:  No
                ATP Program:  No
           Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.367	0.452	0.740	0.526	0.522	0.063	0.205	0.261	2.39	0.467
Composite CO :	5.08	5.87	7.72	6.34	6.23	0.579	0.422	0.398	13.45	5.489
Composite NOX :	0.258	0.354	0.632	0.425	0.561	0.052	0.218	1.353	1.10	0.468

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Minor Arterial 28.0 mph - CY2020
* File 1, Run 2, Scenario 154.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 28.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
           Minimum Temperature:  67.0 (F)
           Maximum Temperature:  92.0 (F)
             Absolute Humidity:   75. grains/lb
              Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:  8.2 psi
           Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
              Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.381	0.465	0.760	0.540	0.550	0.067	0.217	0.284	2.47	0.483
Composite CO :	5.12	5.91	7.76	6.38	6.88	0.615	0.448	0.441	14.67	5.558
Composite NOX :	0.265	0.361	0.643	0.433	0.548	0.053	0.221	1.377	1.07	0.476

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt                Urban Collector 33.0 mph - CY2020
* File 1, Run 2, Scenario 155.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 33.0
```

will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2020
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.358	0.445	0.728	0.517	0.507	0.061	0.199	0.247	2.34	0.457
Composite CO :	5.09	5.88	7.74	6.36	5.90	0.560	0.409	0.375	12.73	5.480
Composite NOX :	0.255	0.352	0.628	0.422	0.570	0.052	0.217	1.348	1.11	0.465

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Bullitt              Urban Local 12.9 mph Default - CY2020
* File 1, Run 2, Scenario 156.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M585 Warning:
100% of VMT has been assigned to the local roadway
type for all hours of the day for all vehicle types
with an average speed of 12.9 mph.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2020
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
```

```
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

     Exhaust I/M Program:  No
        Evap I/M Program:  No
             ATP Program:  No
        Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.584	0.658	1.033	0.754	0.907	0.101	0.320	0.498	3.36	0.702
Composite CO :	5.60	6.43	8.40	6.93	15.28	1.044	0.750	0.948	28.29	6.436
Composite NOX :	0.277	0.357	0.624	0.425	0.479	0.069	0.290	1.746	0.91	0.504

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Interstate 69.0 mph - CY2020
* File 1, Run 2, Scenario 157.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M 96 Warning:
              69.0      speed reduced to 65 mph maximum
 M515 Warning:
          The combined freeway and ramp average speed entered
          cannot be greater than 64.2 miles per hour.
          The average speed will be reset to this value.
 M582 Warning:
          The user supplied freeway average speed of 64.2
          will be used for all hours of the day. 100% of VMT
          has been assigned to a fixed combination of freeways
          and freeway ramps for all hours of the day and all
           vehicle types.
 M 48 Warning:
           there are no sales for vehicle class HDGV8b
 M 48 Warning:
           there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.296	0.396	0.641	0.459	0.408	0.048	0.162	0.170	2.73	0.397
Composite CO :	6.63	7.58	9.85	8.16	8.01	0.571	0.416	0.388	25.00	7.116
Composite NOX :	0.271	0.385	0.674	0.459	0.711	0.099	0.415	2.735	1.65	0.621

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Principal Arterial 57.0 mph - CY2020
* File 1, Run 2, Scenario 158.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 57.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                  Weathered RVP:   8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.303	0.403	0.655	0.467	0.413	0.049	0.162	0.171	2.26	0.402
Composite CO :	6.21	7.13	9.29	7.68	6.10	0.518	0.379	0.326	13.06	6.578
Composite NOX :	0.265	0.375	0.658	0.447	0.678	0.075	0.314	1.971	1.44	0.543

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Arterial 47.0 mph - CY2020
```

```
* File 1, Run 2, Scenario 159.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 47.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
          there are no sales for vehicle class HDGV8b
M 48 Warning:
          there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
          Minimum Temperature:  67.0 (F)
          Maximum Temperature:  92.0 (F)
            Absolute Humidity:   75. grains/lb
             Nominal Fuel RVP:   8.6 psi
                Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

          Exhaust I/M Program:  No
             Evap I/M Program:  No
                  ATP Program:  No
            Reformulated Gas:   No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.319	0.417	0.681	0.484	0.436	0.051	0.170	0.188	2.15	0.418
Composite CO :	5.71	6.57	8.59	7.08	5.15	0.499	0.366	0.304	10.00	6.033
Composite NOX :	0.258	0.362	0.641	0.433	0.633	0.058	0.245	1.525	1.21	0.491

```
* # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Major Collector 46.0 mph - CY2020
* File 1, Run 2, Scenario 160.
* # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 46.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
          there are no sales for vehicle class HDGV8b
M 48 Warning:
          there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
```

```
                 Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

   Vehicle Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
          GVWR:                <6000     >6000    (All)
                    ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
 VMT Distribution:  0.2788    0.4388    0.1507              0.0365    0.0003    0.0022    0.0876    0.0051    1.0000
 ---------------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite VOC :   0.321     0.418     0.684     0.486     0.439     0.052     0.171     0.190      2.15     0.420
   Composite CO  :   5.65      6.51      8.52      7.02      5.12      0.500     0.366     0.305     10.07     5.981
   Composite NOX :   0.257     0.361     0.639     0.432     0.628     0.057     0.240     1.495      1.20     0.487
 ---------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Minor Collector 41.0 mph - CY2020
* File 1, Run 2, Scenario 161.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
          The user supplied arterial average speed of 41.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
 M 48 Warning:
          there are no sales for vehicle class HDGV8b
 M 48 Warning:
          there are no sales for vehicle class LDDT12

               Calendar Year:  2020
                       Month:  July
                    Altitude:  Low
      Minimum Temperature:  67.0 (F)
      Maximum Temperature:  92.0 (F)
        Absolute Humidity:   75. grains/lb
         Nominal Fuel RVP:   8.6 psi
            Weathered RVP:   8.2 psi
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  No
         Evap I/M Program:  No
              ATP Program:  No
         Reformulated Gas:  No

   Veh    Type:      LDGV    LDGT12    LDGT34     LDGT      HDGV      LDDV      LDDT      HDDV        MC      Veh
```

GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.333	0.427	0.698	0.496	0.460	0.054	0.179	0.207	2.19	0.432
Composite CO :	5.40	6.23	8.17	6.73	5.17	0.511	0.375	0.318	10.73	5.744
Composite NOX :	0.254	0.355	0.631	0.425	0.606	0.054	0.225	1.397	1.16	0.473

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Rural Local 35.0 mph - CY2020
* File 1, Run 2, Scenario 162.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M583 Warning:
          The user supplied arterial average speed of 35.0
          will be used for all hours of the day.  100% of VMT
          has been assigned to the arterial/collector roadway
          type for all hours of the day and all vehicle types.
M 48 Warning:
          there are no sales for vehicle class HDGV8b
M 48 Warning:
          there are no sales for vehicle class LDDT12

                Calendar Year:  2020
                        Month:  July
                     Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:  8.6 psi
                   Weathered RVP:  8.2 psi
            Fuel Sulfur Content:   30. ppm

           Exhaust I/M Program:  No
              Evap I/M Program:  No
                   ATP Program:  No
             Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.350	0.438	0.717	0.509	0.493	0.059	0.193	0.235	2.29	0.449
Composite CO :	5.09	5.89	7.75	6.37	5.61	0.543	0.397	0.355	12.10	5.473
Composite NOX :	0.252	0.349	0.625	0.420	0.579	0.052	0.216	1.343	1.13	0.463

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Interstate 71.0 mph - CY2020
* File 1, Run 2, Scenario 163.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M 96 Warning:

71.0 speed reduced to 65 mph maximum

M515 Warning:

The combined freeway and ramp average speed entered cannot be greater than 60.9 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 60.9 will be used for all hours of the day. 100% of VMT has been assigned to a fixed combination of freeways and freeway ramps for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year:	2020
Month:	July
Altitude:	Low
Minimum Temperature:	67.0 (F)
Maximum Temperature:	92.0 (F)
Absolute Humidity:	75. grains/lb
Nominal Fuel RVP:	8.6 psi
Weathered RVP:	8.2 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	No
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.301	0.400	0.649	0.464	0.413	0.049	0.164	0.174	2.70	0.402
Composite CO :	6.67	7.61	9.87	8.19	7.87	0.569	0.415	0.387	24.21	7.133
Composite NOX :	0.271	0.387	0.677	0.461	0.703	0.096	0.403	2.646	1.61	0.614

* #
* Oldham Urban Freeway 2.5 mph - CY2020
* File 1, Run 2, Scenario 164.
* #

M514 Warning:

The combined freeway and ramp average speed entered cannot be less than 2.7 miles per hour.
The average speed will be reset to this value.

M582 Warning:

The user supplied freeway average speed of 2.7 ll be used for all hours of the day. 100% of VMT

has been assigned to a fixed combination of free
and freeway ramps for all hours of the day and al
vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2020
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
   Nominal Fuel RVP:   8.6 psi
      Weathered RVP:   8.2 psi
Fuel Sulfur Content:   30. ppm

Exhaust I/M Program:  No
   Evap I/M Program:  No
        ATP Program:  No
   Reformulated Gas:  No
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	3.020	2.944	4.447	3.329	3.794	0.145	0.454	0.775	8.40	3.055
Composite CO :	17.58	17.73	22.62	18.98	33.10	1.859	1.324	1.911	112.87	18.049
Composite NOX :	0.574	0.668	1.157	0.793	0.444	0.097	0.404	2.651	1.04	0.882

```
* # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Principal Arterial 31.0 mph - CY2020
* File 1, Run 2, Scenario 165.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
```

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```
      Calendar Year:  2020
              Month:  July
           Altitude:  Low
Minimum Temperature:  67.0 (F)
Maximum Temperature:  92.0 (F)
  Absolute Humidity:   75. grains/lb
```

```
            Nominal Fuel RVP:   8.6 psi
               Weathered RVP:   8.2 psi
          Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  No
            Evap I/M Program:  No
                 ATP Program:  No
            Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2788    0.4388    0.1507              0.0365    0.0003    0.0022    0.0876    0.0051    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
    Composite VOC :      0.367     0.452     0.740     0.526     0.522     0.063     0.205     0.261      2.39     0.467
    Composite CO  :      5.08      5.87      7.72      6.34      6.23     0.579     0.422     0.398     13.45     5.489
    Composite NOX :      0.258     0.354     0.632     0.425     0.561     0.052     0.218     1.353      1.10     0.468
 ---------------------------------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham              Urban Minor Arterial 28.0 mph - CY2020
* File 1, Run 2, Scenario 166.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 28.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
              there are no sales for vehicle class HDGV8b
  M 48 Warning:
              there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
              Minimum Temperature:  67.0 (F)
              Maximum Temperature:  92.0 (F)
                Absolute Humidity:   75. grains/lb
                 Nominal Fuel RVP:   8.6 psi
                    Weathered RVP:   8.2 psi
              Fuel Sulfur Content:   30. ppm

              Exhaust I/M Program:  No
                 Evap I/M Program:  No
                      ATP Program:  No
                 Reformulated Gas:  No

      Vehicle Type:      LDGV    LDGT12    LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV        MC   All Veh
             GVWR:               <6000     >6000     (All)
                        ------    ------    ------    ------    ------    ------    ------    ------    ------    ------
  VMT Distribution:     0.2788    0.4388    0.1507              0.0365    0.0003    0.0022    0.0876    0.0051    1.0000
 ---------------------------------------------------------------------------------------------------------------------------
```

Composite Emission Factors (g/mi):

Composite VOC :	0.381	0.465	0.760	0.540	0.550	0.067	0.217	0.284	2.47	0.483
Composite CO :	5.12	5.91	7.76	6.38	6.88	0.615	0.448	0.441	14.67	5.558
Composite NOX :	0.265	0.361	0.643	0.433	0.548	0.053	0.221	1.377	1.07	0.476

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Collector 33.0 mph - CY2020
* File 1, Run 2, Scenario 167.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M583 Warning:
            The user supplied arterial average speed of 33.0
            will be used for all hours of the day.  100% of VMT
            has been assigned to the arterial/collector roadway
            type for all hours of the day and all vehicle types.
  M 48 Warning:
             there are no sales for vehicle class HDGV8b
  M 48 Warning:
             there are no sales for vehicle class LDDT12

                  Calendar Year:  2020
                          Month:  July
                       Altitude:  Low
            Minimum Temperature:  67.0 (F)
            Maximum Temperature:  92.0 (F)
              Absolute Humidity:   75. grains/lb
               Nominal Fuel RVP:   8.6 psi
                   Weathered RVP:  8.2 psi
            Fuel Sulfur Content:   30. ppm

            Exhaust I/M Program:  No
               Evap I/M Program:  No
                    ATP Program:  No
               Reformulated Gas:  No
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2788	0.4388	0.1507		0.0365	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.358	0.445	0.728	0.517	0.507	0.061	0.199	0.247	2.34	0.457
Composite CO :	5.09	5.88	7.74	6.36	5.90	0.560	0.409	0.375	12.73	5.480
Composite NOX :	0.255	0.352	0.628	0.422	0.570	0.052	0.217	1.348	1.11	0.465

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Oldham                Urban Local 12.9 mph Default - CY2020
* File 1, Run 2, Scenario 168.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
  M585 Warning:
            100% of VMT has been assigned to the local roadway
            type for all hours of the day for all vehicle types
            with an average speed of 12.9 mph.
```