

**PROPOSED**

**VENTURA COUNTY  
2004  
AIR QUALITY  
MANAGEMENT PLAN  
REVISION**

## 1. INTRODUCTION

The Ventura County Air Pollution Control District (District) is revising its Air Quality Management Plan (AQMP) for achieving the federal one-hour ozone standard. This revision has been prepared to comply with federal requirements regarding conformity of transportation activities to federally-approved air quality plans (transportation conformity).

The current federally-approved AQMP for Ventura County<sup>1</sup> provides estimates of on-road motor vehicle emissions based on information available to the District, California Air Resources Board (CARB), and the Southern California Association of Governments (SCAG) in 1995. Vehicle activity estimates were based on information in the then-existing Regional Transportation Plan (RTP) for Southern California, and emissions estimates were based on the EMFAC7F on-road vehicle emissions model. Since then, the state of our knowledge on vehicle use in Southern California and vehicle emissions has improved.

The *Ventura County 2004 Air Quality Management Plan Revision* (2004 AQMP Revision):

1. Updates the AQMP's on-road motor vehicle emissions estimates and forecasts to reflect the most current data available;
2. Establishes an on-road motor vehicle "emissions budget" consistent with the updated emissions forecasts; and,
3. Demonstrates that Ventura County will continue to show ongoing progress in reducing emissions, and that changes to the on-road motor vehicle emissions budget will not delay progress in attaining the federal one-hour ozone standard.

The District has not been working on improving air quality alone. It has benefited greatly from the efforts of CARB, the U.S. Environmental Protection Agency (EPA), local cities and the County of Ventura, Ventura County Transportation Commission, SCAG, area businesses, and the general public. This cooperative effort is reflected in the blueprint laid out in the 1994 and 1995 AQMPs, with dramatic reductions in emissions from local businesses, area-wide sources of emissions, and mobile sources of all sizes and configurations. These efforts have been the bedrock supporting Ventura County's dramatic and successful air quality improvements over the past decade. The District will continue to partner with these stakeholders to bring about long-term and permanent air quality improvement.

## 2. TRANSPORTATION CONFORMITY

Section 176(c) of the federal Clean Air Act requires that projects needing federal approval or receiving federal funds "conform" to approved plans for achieving federal ambient air quality standards, such as the Ventura County Air Quality Management Plan. "Conformity" is defined

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<sup>1</sup> Federal Register, 60 FR 1150 et seq. (January 8, 1997) and 63 FR 19659 et seq. (April 21, 1998).

under section 176(c) as conforming to a plan's purpose of expeditiously attaining federal clean air standards, not causing or contributing to any new violation of a standard, not increasing the frequency or severity of any existing standard violation, and not delaying timely attainment or progress in attaining clean air standards. In determining whether a project conforms with an approved air quality plan, agencies must use current emission estimates based on the most recent population, employment, travel, and congestion estimates determined by an area's metropolitan planning organization (MPO).

MPOs are required to follow EPA's transportation conformity rule<sup>2</sup> to determine whether a transportation plan or program conforms to an approved air quality plan. Among other things, the rule requires MPOs to use the latest planning assumptions to determine conformity, and that emissions resulting from a transportation plan be less than or equal to the air quality plan's on-road motor vehicle "emissions budget." Also, conformity of an approved transportation plan must be assessed once every three years. If not assessed within this time frame, the existing conformity determination will lapse.

As the MPO for Southern California, SCAG is charged with developing a Regional Transportation Plan for Los Angeles, Orange, San Bernardino, Riverside, Imperial, and Ventura Counties. The RTP provides a long-term vision of regional transportation goals, policies, objectives, and strategies. The RTP assesses current and projected demand for travel and goods movement, and identifies necessary actions to meet the region's mobility and accessibility needs.

#### Latest Planning Assumptions

EPA's transportation conformity rule requires that planning assumptions used in conformity determinations be based on the most recent population, employment, travel, and congestion estimates developed by the MPO<sup>3</sup>. Also, the latest on-road motor vehicle emission estimation model available must be used<sup>4</sup>.

On May 2, 2002, the U.S. Federal Highway Administration notified CARB that effective January 1, 2003, it would no longer approve conformity determinations based on outdated on-road motor vehicle emission estimation models (such as the EMFAC7F model used in the Ventura County Air Quality Management Plan). As a result, CARB revised its vehicle emissions model to incorporate new information on vehicle emissions, effectiveness of rules, vehicle characteristics, and vehicle use.

CARB's updated on-road motor vehicle emission estimation model, EMFAC2002, was formally released to the public on October 23, 2002, and submitted to EPA for approval on December 20, 2002. On April 1, 2003, EPA approved EMFAC2002 for air quality planning and conformity

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<sup>2</sup> Code of Federal Regulations, 40 CFR 51 Subpart T, 40 CFR 93 Subpart A.

<sup>3</sup> 40 CFR 93.110.

<sup>4</sup> 40 CFR 93.111(a)

purposes within California<sup>5</sup>. On November 4, 2003, SCAG provided updated information on existing and projected motor vehicle use within Ventura County to CARB. On November 25, 2003, CARB completed its review of SCAG's data and found it acceptable. On December 3, 2003, CARB staff released draft updated on-road motor vehicle emission estimates and forecasts to the District and SCAG, and formally released the updated estimates and forecasts on February 3, 2004.

On-Road Motor Vehicle Emissions Budget

EPA's transportation conformity rule defines the motor vehicle "emissions budget" as the on-road motor vehicle emissions forecasts contained within an approved air quality plan<sup>6</sup>. The emissions budget is established for an air quality plan's interim emission reduction milestone and attainment dates specified by the federal Clean Air Act. An MPO must demonstrate that a transportation plan is consistent with the motor vehicle emissions budget by showing that emissions resulting from the transportation plan are less than or equal to the emissions budget for each budget year<sup>7</sup>.

Since Ventura County is classified under the 1990 revisions to the federal Clean Air Act as a "severe" ozone nonattainment area, its interim emission reduction milestones are 1996, 1999, and 2002; its attainment date is 2005<sup>8</sup>. The on-road motor vehicle emissions budget specified in the federally-approved Ventura County Air Quality Management Plan is as follows:

Table 1. Federally-Approved Ventura County AQMP Motor Vehicle Emissions Budget (Summer Emissions in tons per day)

	1990	1996	1999	2002	2005
Reactive Organic Compounds (ROC)	35.3	19.6	16.2	12.5	9.8
Nitrogen Oxides (NOx)	43.0	29.4	27.0	24.4	21.3

This budget was based on calculations from CARB's EMFAC7F motor vehicle emission estimation model, and planning assumptions prepared by SCAG and submitted to CARB in June 1994. The EMFAC7F model was initially released by CARB for air quality planning and conformity use in September 1993.

Conformity Lapse

The MPO (SCAG for Southern California) and the U.S. Department of Transportation must determine conformity for a transportation plan once every three years. If conformity is not

<sup>5</sup> 68 FR 15720 (April 1, 2003)

<sup>6</sup> 40 CFR 93.101.

<sup>7</sup> 40 CFR 93.118(a), (b)

<sup>8</sup> United States Code, 42 USC 7511(a)(1), 7511a(g)(1)

reassessed within the three-year period, the existing conformity determination for the transportation plan will lapse<sup>9</sup>. If a transportation plan's conformity determination lapses, the federal government will neither approve nor commit funding for new transportation project phases (i.e., environmental review, final design, acquisition of rights-of-way, or construction.) The only projects that can proceed through the federal approval process during a conformity lapse are exempt projects specified in EPA's transportation conformity rule and transportation control measures specifically identified in an approved air quality plan<sup>10</sup>.

The U.S. Federal Highway Administration determined that SCAG's 2001 Regional Transportation Plan conformed to approved air quality plans within the SCAG region on June 8, 2001<sup>11</sup>. Consequently, conformity of the 2001 RTP with respect to Ventura County will lapse unless a new RTP is in place as the federally-approved and conforming RTP by June 8, 2004. The SCAG Regional Council is scheduled to approve the 2004 RTP, along with its conformity determination, on April 1, 2004. To determine conformity for the Ventura County portion of the 2004 RTP, SCAG is provisionally using the draft emissions budget provided by CARB in consultation with the District.

Before the Ventura County portion of the RTP can continue through the federal conformity process, the District must revise the Ventura County AQMP to update its on-road motor vehicle emissions budget to incorporate the latest planning assumptions.

### **3. REVISION TO THE VENTURA COUNTY AQMP**

The District is charged with developing long-range plans to achieve health-based air quality standards. To this end, the District adopted comprehensive AQMPs in 1994 and 1995 showing how the federal one-hour ozone standard will be attained by 2005 in Ventura County. Since that time, air quality in Ventura County has improved dramatically. In 2002, the District was able to show for the first time since it was formed in 1968 that air quality met the federal one-hour ozone standard. Despite meteorological conditions conducive to ozone formation, Ventura County air quality once again met the federal one-hour ozone standard in 2003.

The District has prepared the 2004 AQMP Revision specifically to revise the plan's on-road motor vehicle emissions budget. The 2004 AQMP Revision incorporates:

1. The latest motor vehicle emission estimation model available from CARB (EMFAC2002 Version 2.2, April 23, 2003);

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<sup>9</sup> 40 CFR 93.104(b)(3)

<sup>10</sup> 40 CFR 93.126. Exempt projects include projects related to safety, mass transit, air quality, and other limited activities including activities that do not lead to construction, specified engineering tasks, and noise attenuation.

<sup>11</sup> With the exception of the PM10 areas in the San Bernardino County portion of the Mojave Desert Air Basin and the Coachella Valley portion of the Salton Sea Air Basin, which were approved on August 3, 2001.

2. The latest planning assumptions regarding motor vehicle use within Ventura County provided by SCAG to CARB on November 4, 2003; and,
3. Emission reductions for two Smog Check II Vehicle Inspection and Maintenance (I/M) Program improvements not reflected in the EMFAC2002 model: (1) increasing the number of vehicles directed to test-only stations; and, (2) adding areas of the county subject to the Enhanced I/M program.

On February 3, 2004, CARB formally released the draft revised on-road motor vehicle emissions budget for Ventura County. These budget revisions are presented in Table 2. Note that Table 2 specifically replaces the current on-road motor vehicle emissions budget for Ventura County, reflected in Table 5-1, Figure 5-2, and Figure 5-3 from the 1995 AQMP Revision, adopted by the Ventura County Air Pollution Control Board on December 19, 1995, and approved by EPA on January 8, 1997.

Table 2. Revised Ventura County AQMP Motor Vehicle Emissions Budget  
(Summer Emissions in tons per day)

	1990 <sup>a</sup>	1996 <sup>a</sup>	1999 <sup>a</sup>	2002 <sup>a</sup>	2005 <sup>b</sup>
<u>Reactive Organic Compounds (ROC)</u>					
Baseline EMFAC2002 Estimates	46.27	28.94	23.16	17.79	14.44
I/M Program Improvements	–	–	–	0.05	0.15
Adjusted EMFAC2002 Estimates	46.27	28.94	23.16	17.74	14.29
Motor Vehicle Emissions Budget <sup>c</sup>	46.3	29.0	23.2	17.8	14.3
<u>Nitrogen Oxides (NOx)</u>					
Baseline EMFAC2002 Estimates	51.42	35.08	30.45	26.44	21.56
I/M Program Improvements	–	–	–	0.07	0.22
Adjusted EMFAC2002 Estimates	51.42	35.08	30.45	26.37	21.34
Motor Vehicle Emissions Budget <sup>c</sup>	51.5	35.1	30.5	26.4	21.4

<sup>a</sup> Data for 1990 to 2002 are presented for information only; these years are not part of the District's revisions to the on-road motor vehicle emissions budget.

<sup>b</sup> Year 2005 budget assumed applicable to future years.

<sup>c</sup> Rounded up to the nearest tenth of a ton per day.

Appendix O-2004 provides documentation on CARB's EMFAC2002 model runs and derivation of the revised on-road motor vehicle emissions budget.

The 2004 AQMP Revision does not recommend any changes to the transportation control measures (TCMs) identified in the 1995 AQMP Revision. The motor vehicle emissions budget shown in Table 2 already reflects implementation of TCMs. Consequently, no additional emission reductions from implementation of TCMs in Ventura County are claimed.

#### 4. IMPACT OF THE 2004 AQMP REVISION

To assess the impact of the revisions to the on-road motor vehicle emissions budget, staff evaluated the impact on the progress the District must make to attain the federal ambient one-hour standard and the impact on the District's timely attainment of the standard. Staff concluded that Ventura County will continue to meet federally-mandated targets for reducing emissions, and that changes to the on-road motor vehicle emissions budget will not delay progress in attaining the federal one-hour ozone standard. In addition, staff evaluated and confirmed that ambient ozone air quality trends continue to show that attainment of the federal one-hour ozone standard will be achieved by the required November 2005 deadline.

##### Continued Progress in Attaining the Federal One-Hour Ozone Standard

As a "severe" federal one-hour ozone nonattainment area, the Ventura County AQMP must comply with periodic emission reduction targets specified in the federal Clean Air Act. By 1996, the District was required to reduce ROC emissions by 15 percent (excluding mandated federal motor vehicle emission controls and gasoline specifications)<sup>12</sup>. By 1999, the District was required to reduce ROC emissions by an additional nine percent (24 percent total). An additional nine percent reduction was required by 2002 (33 percent total), and yet another nine percent ROC reduction was required by 2005 (42 percent total)<sup>13</sup>.

Chapter 8 of the 1995 Air Quality Management Plan Revision presents an assessment of whether the AQMP would comply with the federal Clean Air Act's periodic emission reduction requirements. The District concluded that the Plan would satisfy the Act's "rate of progress" requirements, assuming substitution of some NO<sub>x</sub> emission reductions for the required ROC reductions. In its subsequent approval of the AQMP, EPA concurred in this assessment.

To assess whether this revision would adversely impact progress in attaining the federal one-hour ozone standard, District staff updated the AQMP's "rate of progress" analysis to reflect the updated motor vehicle emissions budget. Staff also consulted with CARB on emission reductions from state and federal measures adopted since the 1995 AQMP was adopted. The updated analysis presented in Table 3 shows that the District will meet all mandated ROC emission reduction milestones without any shortfall. This means that the 2004 AQMP Revision will satisfy federal "rate of progress" requirements without the need for any NO<sub>x</sub> substitution. Consequently, the 2004 AQMP Revision will not delay progress in attaining the federal one-hour ozone standard.

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<sup>12</sup> 42 USC 7511a(b)(1)

<sup>13</sup> 42 USC 7511a(c)(2)(B)

**Table 3. Revised Ventura County AQMP Rate of Progress Analysis  
(Summer Reactive Organic Compound Emissions in tons per day)**

	1996 <sup>a</sup>	1999 <sup>a</sup>	2002 <sup>a</sup>	2005
<b>1990 Base Year ROC Inventory<sup>b</sup>.</b>				
Point Sources	10.5	10.5	10.5	10.5
Area Sources	34.0	34.0	34.0	34.0
Other Mobile Sources	5.5	5.5	5.5	5.5
On-Road Mobile Sources	46.3	46.3	46.3	46.3
1990 Base Year ROC Inventory:	96.3	96.3	96.3	96.3
Subtract Required FMVCP and RVP Reductions <sup>c</sup>	-5.0	-6.0	-6.7	-7.1
Adjusted 1990 Base Year ROC Inventory:	91.3	90.3	89.6	89.2
<b>ROC Emission Reductions Required by Milestone Year.</b>				
Required ROC Reductions <sup>d</sup>	-13.7	-21.7	-29.6	-37.5
FMVCP and RVP Reductions	-5.0	-6.0	-6.7	-7.1
Reasonably Available Control Technology Corrections	0.0	0.0	0.0	0.0
Vehicle Inspection/Maintenance Program Corrections	0.0	0.0	0.0	0.0
TOTAL:	-18.7	-27.7	-36.3	-44.6
<b>Rate of Progress ROC Emission Targets for Each Milestone.</b>				
1990 Rate of Progress Base Year Inventory	96.3	96.3	96.3	96.3
Total ROC Reductions Required by 1996	-18.7	-27.7	-36.3	-44.6
Rate of Progress ROC Emission Targets:	77.6	68.6	60.0	51.7
<b>ROC Emission Inventory After Adopted Control Measures.</b>				
Point Sources <sup>e</sup>	7.4	6.6	6.4	6.2
Area Sources <sup>e</sup>	31.4	31.5	32.3	33.0
Other Mobile Sources <sup>e</sup>	5.2	4.6	4.4	4.2
On-Road Mobile Sources <sup>f</sup>	29.0	23.2	17.8	14.3
Subtotal:	73.0	65.9	60.9	57.7
Reductions from Local Measures Adopted After 12/1/1995 <sup>g</sup>	-0.7	-3.3	-3.5	-3.6
Reductions from State Measures Adopted After 12/1/1995 <sup>g</sup>	-	-0.7	-2.4	-2.7
ROC Emissions After Adopted Measures:	72.3	61.9	55.0	51.4
<b>Rate of Progress ROC Shortfall.</b>				
	0	0	0	0

<sup>a</sup> Data for 1996 to 2002 are not included in the revisions to the on-road motor vehicle emissions budget.

<sup>b</sup> Excludes biogenic emissions and sources outside the nonattainment area.

<sup>c</sup> Federal Motor Vehicle Control Program (FMVCP) and federal gasoline Reid Vapor Pressure (RVP) control.

<sup>d</sup> 15% reduction required by 1996; 24% by 1999; 33% by 2002; and 42% reduction by 2005.

<sup>e</sup> Reflects reductions from measures adopted as of December 1, 1995.

<sup>f</sup> Reflects the revised on-road motor vehicle emissions budget.

<sup>g</sup> Emission reductions associated with measures adopted after December 1, 1995, are based on estimates provided in the District's 1996, 1999, and 2002 Milestone Compliance Demonstrations, with appropriate adjustments to reflect effectiveness of measures in 2005. See Appendix A-2004 for more information.



### Timely Attainment of the Federal One-Hour Ozone Standard on Track

The federal Clean Air Act<sup>14</sup> requires the District to demonstrate through photochemical modeling that the District's adopted control strategy will reduce ROC and NOx emissions sufficiently to attain the federal one-hour ozone standard by November 2005. Based on the photochemical modeling included in the 1995 AQMP Revision, the District demonstrated that the adopted control strategy would result in achieving the ozone standard as required. This assessment was based on the Plan's emissions forecasts showing that onshore ROC emissions would be reduced by 50.6 percent by 2005, and that NOx emissions would be reduced by 42.5 percent by 2005.

As previously mentioned, the 2004 AQMP Revision updates on-road motor vehicle emissions forecasts ("emissions budget") to comply with federal transportation conformity requirements. The emissions inventory and forecasts for other emissions source categories have not been revised for several reasons:

1. On-road motor vehicle emissions from 1990 to 2005 calculated using the latest available motor vehicle emissions and use data show greater reductions than previously indicated in the District's federally-approved AQMP;
2. The District's Milestone Compliance Demonstration Report submitted to EPA in 2003 verified that adopted measures continue to be implemented as anticipated, and have achieved greater than anticipated ROC and NOx emission reductions; and,
3. California's off-road vehicle program has achieved greater than anticipated ROC and NOx emission reductions in Ventura County.

Tables 4 and 5 present a comparison of the revisions to the on-road motor vehicle emissions budget in the District's 1990 baseline emission inventory and the 2005 attainment year emissions forecasts. Based on this comparison, ROC emissions will be reduced by 51.6 percent, and NOx emissions will be reduced by 48.3 percent. These projections indicate that both ROC and NOx will be reduced at a greater rate than anticipated in the federally-approved AQMP<sup>15</sup>. Therefore, the 2004 AQMP Revision will not adversely impact the District's timely attainment of the federal one-hour ozone standard.

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<sup>14</sup> 42 USC 7511a(c)(2)(A)

<sup>15</sup> 60 FR 1177 (January 8, 1997), "Ventura Attainment Demonstration"

Table 4. Comparison of Federally-Approved ROC Emissions Reduction Requirement to 2004 AQMP Revision Emissions Reductions

(Summer Emissions in tons per day – excluding emissions from the Outer Continental Shelf)

Emission Inventory Category	Federally-Approved AQMP		2004 AQMP Revision	
	1990	2005	1990	2005
Stationary Point Sources	10.5	4.8	10.5	4.8
Stationary Area Sources	34.0	24.1	34.0	24.1
On-Road Motor Vehicles	35.3	9.8	46.3	14.3
Other Mobile Sources	5.5	3.4	5.5	3.4
Total – All Onshore Emission Sources	85.3	42.1	96.3	46.6
Percent Reduction From 1990 Base Year	50.6%		51.6%	

Table 5. Comparison of Federally-Approved NOx Emissions Reduction Requirement to 2004 AQMP Revision Emissions Reductions

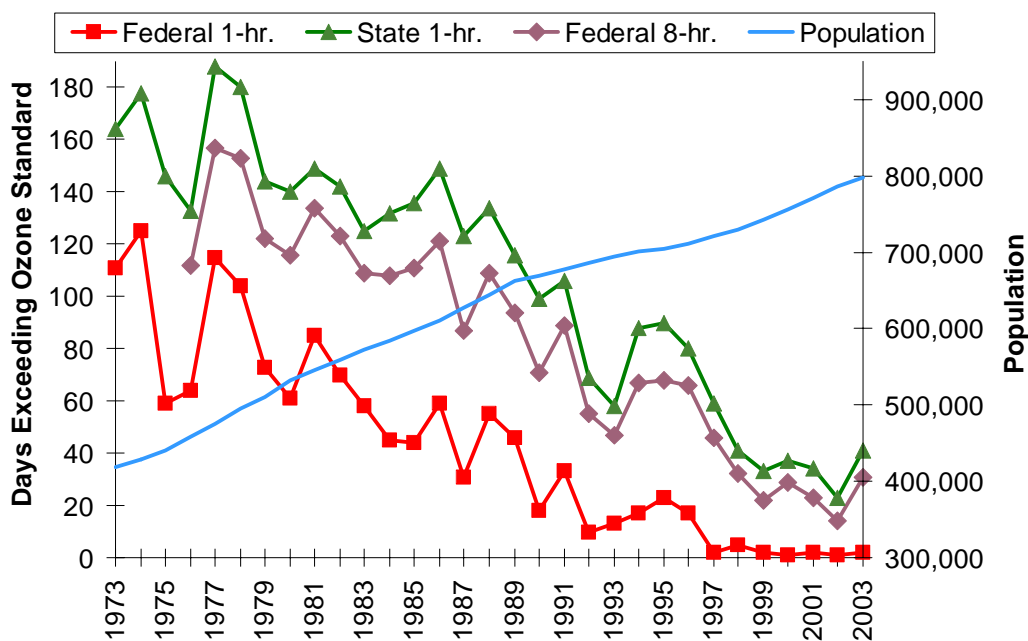
(Summer Emissions in tons per day – excluding emissions from the Outer Continental Shelf)

Emission Inventory Category	Federally-Approved AQMP		2004 AQMP Revision	
	1990	2005	1990	2005
Stationary Point Sources	14.5	6.9	14.5	6.9
Stationary Area Sources	3.0	2.1	3.0	2.1
On-Road Motor Vehicles	43.0	21.3	51.4	21.4
Other Mobile Sources	12.7	11.8	12.7	11.8
Total – All Onshore Emission Sources	73.2	42.1	81.6	42.2
Percent Reduction From 1990 Base Year	42.5%		48.3%	

Ambient One-Hour Ozone Air Quality Trends Continue to Show Air Quality Improvement

Air quality in Ventura County has improved dramatically over the past 30 years. In 1974, air quality in the county exceeded the health-based federal one-hour ozone standard more than once every three days (125 days total). As shown in Figure 1, this was reduced to only two days for all of 2003. This air quality improvement has occurred despite a 90 percent increase in Ventura County population.

Figure 1. Progress in Reducing Ozone Standard Exceedances in Ventura County



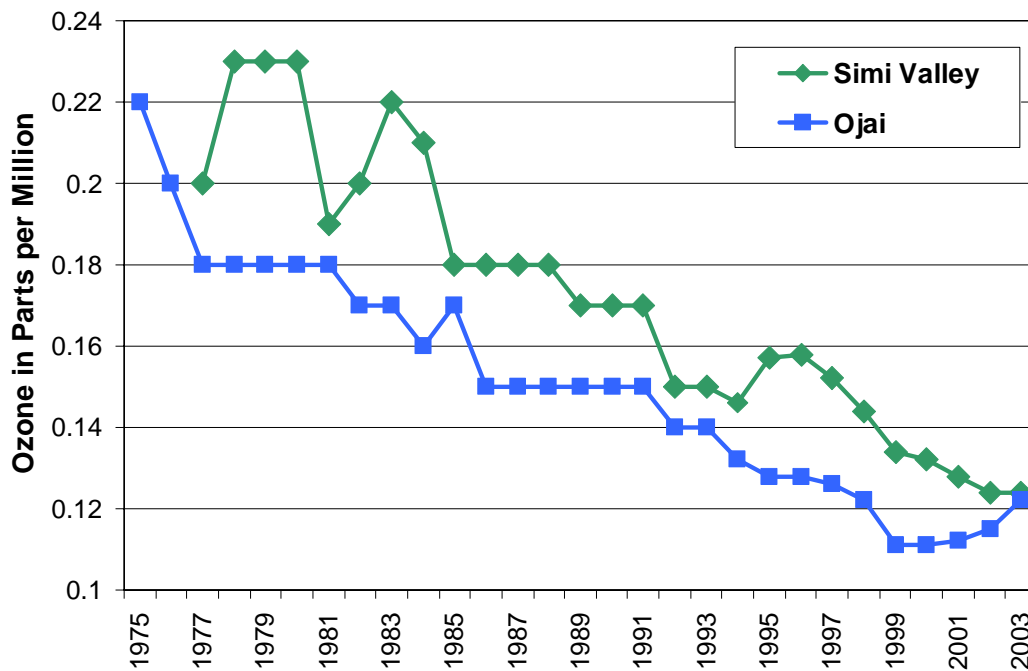
A report released January 18, 2001, by the Foundation for Clean Air Progress<sup>16</sup> reported that for the 20-year period from 1980 to 1999, Ventura County had the fifth most improved air quality in the U.S. This ranking was based on the average number of days exceeding the federal one-hour standard. However, when the underlying data are corrected, Ventura County ranks as having the most improved air quality (based on percent reduction in average days over the standard). Another report released August 19, 2003, by the Surface Transportation Policy Project, reported that for the ten-year period from 1993 to 2002, Ventura County had the most improved air quality (based on percent reduction in average days over the federal one hour ozone standard) in the U.S.<sup>17</sup>

Over the past 30 years, peak one-hour ozone concentrations in the county have also fallen dramatically. The fourth highest one-hour ozone concentration over a three-year period (referred to as the “design value” for air quality planning purposes) has been reduced from 0.23 parts per million to 0.12 parts per million in Simi Valley, as shown in Figure 2. Also, the one-hour ozone “design value” for Ojai has been reduced from 0.22 parts per million to 0.12 parts per million.

<sup>16</sup> Available on the Internet at [http://www.cleanairprogress.org/top\\_20/press.asp](http://www.cleanairprogress.org/top_20/press.asp)

<sup>17</sup> *Clearing the Air*, Surface Transportation Policy Project, page 28; available at [www.transact.org/report.asp?id=227](http://www.transact.org/report.asp?id=227)

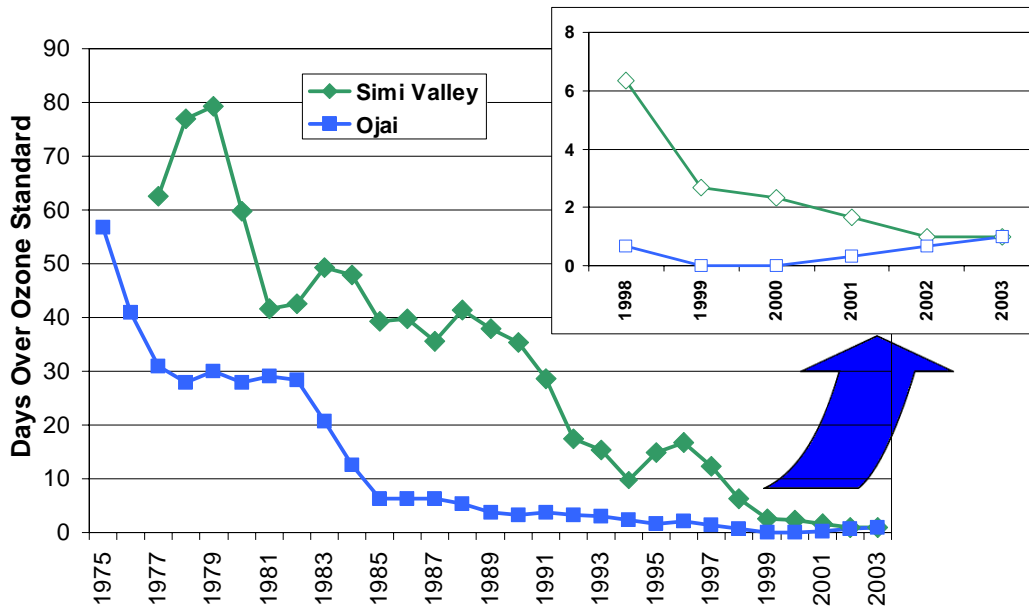
Figure 2. Fourth Highest Ozone Concentration Over Running Three-year Period



Most dramatically, 2002 marked the first year that air quality in Ventura County met the federal one-hour ozone standard. In order to meet that standard, an area is allowed no more than three days over a three-year period where ozone exceeds 0.12 parts per million. An average of one exceedance day per year is allowed. This determination is made for each monitoring station in an area. Despite meteorological conditions conducive to ozone formation, Ventura County air quality met the federal one-hour ozone standard a second time in 2003.

Figure 3 shows that the three-year running average of exceedance days per year in Simi Valley has been reduced from 80 days per year in 1979 to one per year in 2002 and 2003. For Ojai, the three-year running average of exceedance days has been reduced from 55 days per year in 1975 to one per year in 2002 and 2003. (The three-year running average of federal exceedance days for all other Ventura County monitoring stations in 2002 and 2003 was zero.)

Figure 3. Three-Year Running Average of Days Over Federal Ozone Standard



**PROPOSED**

**VENTURA COUNTY  
2004  
AIR QUALITY  
MANAGEMENT PLAN  
REVISION**

**APPENDIX A-2004  
REACTIVE ORGANIC EMISSION REDUCTIONS  
FROM MEASURES ADOPTED/REVISED AFTER  
DECEMBER 1, 1995**

As a “severe” federal one-hour ozone nonattainment area, Ventura County must comply with periodic emission reduction targets specified in the federal Clean Air Act. Section 182(b)(1)<sup>1</sup> of the federal Clean Air Act required the District to reduce reactive organic compound (ROC) emissions by 15 percent (excluding mandated federal motor vehicle emission controls and gasoline specifications). Section 182(c)(2)<sup>2</sup> required the District to reduce ROC emissions by an additional nine percent (24 percent total) by 1999, an additional nine percent by 2002 (33 percent total), and yet another nine percent reduction by 2005 (42 percent total). Collectively, these emission reduction milestones are referred to as the “rate of progress” the District must maintain to demonstrate continued progress in reducing emissions to meet the federal one-hour ozone standard.

The 1994 Air Quality Management Plan (AQMP) and the 1995 AQMP Revision demonstrated that the District would satisfy the Clean Air Act’s rate of progress requirements, by meeting its emission reduction targets for 1996, 1999, 2002 and 2005. To meet the targets for 2002 and 2005, the District substituted nitrogen oxide reductions for the required ROC reductions, as allowed under Section 182(c)(2). The U.S. Environmental Protection Agency concurred with the District’s rate of progress demonstration in its approval of the State Implementation Plan for California.<sup>3</sup>

To assess the impact of the 2004 AQMP Revision on the rate of progress required under the federal Clean Air Act, staff updated the 1995 AQMP Revision’s rate of progress calculations to reflect the updated motor vehicle emissions budget. Consistent with EPA guidance in place in 1995, those rate of progress calculations only accounted for measures that had already been adopted by the District in full regulatory form. Therefore, in updating the rate of progress calculations, the District incorporated emission reductions associated with measures adopted in regulatory form since December 1, 1995.

This Appendix documents reactive organic compound emission reductions in Ventura County that result from state and local measures adopted or revised after December 1, 1995. These reductions are reflected in Table A-1, which follows. Values for 1996, 1999, and 2002 are from the District’s 1996<sup>4</sup>, 1999<sup>5</sup>, and 2002<sup>6</sup> Milestone Compliance Demonstration Reports. Values for 2005 are based on the 2002 values, with the following adjustments:

#### California Air Resources Board Measures

- Control Measure R-403 (Gasoline Dispensing – Phase II): staff assumed the shortfall identified with the statewide Phase II vapor recovery program would be resolved by 2005.

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<sup>1</sup> United States Code, 42 USC 7511a(b)(1)

<sup>2</sup> 42 USC 7511a(c)(2)

<sup>3</sup> Federal Register, 62 FR 1149, 1177, January 8, 1997

<sup>4</sup> Ventura County APCD 1996 Milestone Compliance Demonstration, submitted to the California Air Resources Board (CARB) on February 7, 1997

<sup>5</sup> Ventura County APCD 1999 Milestone Compliance Demonstration, submitted to CARB on January 13, 2000

<sup>6</sup> Ventura County APCD 2002 Milestone Compliance Demonstration, submitted to CARB on January 30, 2003

Ventura County Air Pollution Control District Measures

- Control Measure R-303 (Architectural Coatings): staff assumed the measure would be fully implemented in 2005.
- Control Measure R-425 (Enhanced Fugitive Emissions I/M): emission reductions from this measure will decline by 0.2 ton per day (as shown in 1995 AQMP Revision Appendix E-95) as activity in the petroleum production industry drops.



Table A-1. Reactive Organic Compound Emission Reductions in Ventura County from Measures Adopted/Revised After December 1, 1995 (tons per day)

Control Measure	Control Measure Name	Rule No.	Status	1996		1999		2002		2005	
				APCD <sup>1</sup>	CARB <sup>1</sup>	APCD	CARB	APCD	CARB	APCD	CARB
R-303	Architectural Coatings	74.2	Revised 11/13/01					0.1			0.4
R-315	Consumer Products - Near Term Measures (Additional Consumer Products Measures)	ARB	Revised 3/23/95 Adopted			0.1			0.4		0.4
R-316	Graphic Arts Solvents	74.19	Revised 4/10/01				1.7				1.8
R-317	Cleanup Solvents and Solvent Wastes <sup>2</sup>	74.6	Adopted 7/9/96	0.8		0.0		0.0			0.0
R-321	Pleasure Craft Coating <sup>3</sup>	74.24.1	Adopted 11/10/98, Revised 1/8/02								
R-324	Screen Printing Operations <sup>2</sup>	74.19.1	Adopted 6/11/96	0.0		0.3		0.3			0.3
R-403	Vehicle Gasoline Dispensing - Phase II <sup>4</sup>	70	Adopted 5/9/95								
R-425	Enhanced Fugitive Emissions I/M Program <sup>2</sup>	74.7 & 74.10	Revised 3/10/98			1.3		1.2			1.0
R-700	Transportation Control Measures	210	Authority Rescinded <sup>5</sup>	-0.1		-0.1		-0.1			-0.1
		211	Adopted 8/11/98 <sup>4</sup>			0.1		0.1			0.1
R-701	ARB On-Road Mobile Source Controls (ARB Clean Fuels Measures)	CARB	Various								
R-702	Enhanced Motor Vehicle Inspection and Maintenance	CARB	Adopted			0.7		0.7			0.9
R-711	Heavy Duty Diesel Trucks - Emission Standards	BAR <sup>1</sup>	Adopted			0.0		1.3			1.3
R-713	On-Road HD Diesel Vehicles - Emission Stds (M4/M5/M6)	ARB	Adopted			0.1		0.1			0.1
R-715	Accelerated ULEV Requirements for MDVs (M3)	CARB/EPA <sup>1</sup>	Implemented			0.0		0.3			0.3
R-716	On-Road HD Gasoline Vehicles - Emission Stds (M8)	ARB	Adopted 1997			0.0		0.0			0.0
R-803	Lawn, Garden and Utility Equipment	ARB	Adopted 1997			0.0		0.0			0.0
	ARB/EPA Off-Road "M" Measures	ARB	Revised 1998			-0.2		-0.3			-0.3
	Off-Road Diesel Emission Standards(M9/M10)	CARB/EPA									0.0
	Off-Road Spark Ignition Emission Standards(M11/M12)	CARB/EPA									0.0
	Marine Engines (M13)	EPA									0.0
	Locomotives (M14)	EPA									0.0
	Marine Pleasure Craft (M16)	EPA									0.0
TOTALS:				0.7	0.0	3.3	0.7	3.5	2.4	3.6	2.7

Notes

- APCD = Ventura County Air Pollution Control District; CARB = California Air Resources Board; BAR = California Bureau of Automotive Repair; EPA = U.S. Environmental Protection Agency
- Emission reductions from Measures R-317, R-324 and R-425 were not included in the 1995 AQMP Revision's Rate of Progress demonstration.
- Emission reductions from Measure R-321, a further study control measure in the 1995 AQMP Revision, were not included in the plan's Rate of Progress Demonstration.
- Adjustment based on ARB assessment of shortfall in statewide vehicle gasoline dispensing vapor recovery program.
- The District's authority to implement Rule 210 was rescinded as a result of passage of California State Senate Bill 432 (Lewis) during the 1995/96 Legislative session and passage of H.R. 325 (Manzulo) during the 1995/96 Congress. On August 11, 1998, the District adopted Rule 211, which embodied a voluntary transportation outreach program and a mandatory employer registration and reporting program.

**PROPOSED**

**VENTURA COUNTY  
2004  
AIR QUALITY  
MANAGEMENT PLAN  
REVISION**

**APPENDIX O-2004  
ON-ROAD MOTOR VEHICLE EMISSION  
INVENTORY DOCUMENTATION**

## **1. INTRODUCTION**

At the request of the Ventura County Air Pollution Control District, California Air Resources Board (CARB) staff prepared an update to Ventura County's summer season on-road motor vehicle emissions inventory and forecasts. These estimates were based on the "latest planning assumptions" to update the on-road motor vehicle emissions budget used for transportation conformity purposes. CARB staff used its recently approved on-road motor vehicle emissions model (EMFAC2002) and current vehicle use data supplied by the Southern California Association of Governments (SCAG). District staff requested that the inventory cover calendar years 1990, 1996, 1999, 2002, 2005, 2010, 2015, 2020 and 2025.

## **2. METHODOLOGY**

For the current update, CARB staff used EMFAC2002 version 2.2 (April 23, 2003), along with new activity data supplied by SCAG staff in November 2003. The new vehicle miles traveled (VMT) and speed data are based on SCAG's Draft 2004 Regional Transportation Plan (RTP, "build" scenario). The data do not reflect changes in regional truck activity forecasts from truck model revalidation, pending completion of a new statewide analysis of truck activity.

SCAG supplied EMFAC input files for calendar years 1990, 2000, 2005, 2010, 2020 and 2030, and VMT-by-speed group files for calendar years 2000, 2005, 2010, 2020 and 2030. CARB's Analysis Section and Motor Vehicle Assessments Section reviewed these files. CARB staff had a conference call with SCAG staff November 25, 2003, to address follow-up questions, and SCAG provided written responses by e-mail December 1, 2003. CARB concluded that the activity data submitted by SCAG is reasonable and appropriate.

CARB staff ran the EMFAC2002 model with the SCAG input files for calendar years 1990, 2005, 2010 and 2020. For calendar years 1996, 1999, 2002, 2015 and 2025, CARB staff altered vehicle population by class to match figures interpolated from the SCAG input file data. Speeds were not altered from model defaults for these years.

An earlier draft inventory/forecast prepared by CARB in May 2003 required that vehicle population be redistributed to match the June 2002 SCAG projection of light/medium and heavy duty VMT splits. Use of SCAG input files containing current VMT forecasts by vehicle class negated the need for that step with the current estimates. SCAG does not project VMT for buses or motor homes, but uses EMFAC2002 defaults for those classes.

## **3. INSPECTION/MAINTENANCE PROGRAM ADJUSTMENTS**

For the final planning inventory, CARB included emission reductions for two recent Smog Check II Inspection/Maintenance (I/M) program improvements not currently reflected in EMFAC2002 model results: (1) increasing the number of vehicles directed to test-only stations,

and (2) adding areas subject to the Enhanced I/M program. The benefits of these improvements in Ventura County were separately estimated using EMFAC2002 version 2.2 (April 23, 2003).

#### 4. RESULTS

The updated on-road motor vehicle emissions inventory and future year forecasts for Ventura County are summarized in the following table.

Table O-1. Ventura County Planning Inventory – Summer On-road Emissions (tons per day)

		1990	1996	1999	2002	2005	2010	2015	2020	2025
Reactive	EMFAC2002 results	46.27	28.94	23.16	17.79	14.44	10.86	8.06	6.32	5.12
Organic	I/M Improvements	–	–	–	0.05	0.15	0.11	0.06	0.04	0.02
Gases (ROG), tons per day	Adjusted Inventory	46.27	28.94	23.16	17.74	14.29	10.75	8.00	6.28	5.10
Nitrogen	EMFAC2002 results	51.42	35.08	30.45	26.44	21.56	15.38	9.96	6.95	5.23
Oxides (NOx), tons per day	I/M Improvements	–	–	–	0.07	0.22	0.18	0.13	0.08	0.05
	Adjusted Inventory	51.42	35.08	30.45	26.37	21.34	15.20	9.83	6.87	5.18
VMT (1,000 miles per day)		14,683	15,604	16,039	16,463	16,912	18,176	18,989	19,850	20,423

Following are complete EMFAC2002 emissions and vehicle activity outputs at the vehicle class level for calendar years 1990, 1996, 1999, 2002, 2005, 2010, 2015, 2020 and 2025.

Title : YEAR 1990 - NEW (9-02-2003) | Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:16:53  
 Scen Year : 1990 -- Model Years: 1965 to 1990  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)									
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total							
Vehicles	56977	235979	5664	298620	20035	64810	2434	87279	15046	67568	1297	83911	3817	15539	253	19609	1941	2380	301	4622	15	945	677	1637	
VMT/1000	850	7323	148	8321	335	1997	73	2405	287	2098	34	2419	68	491	7	566	29	96	11	136	0	44	37	81	
Trips	311741	1523330	35885	1870960	105909	418361	15709	539979	89061	435656	8240	532957	20870	100665	1620	123155	64193	78682	3792	146667	504	31265	8515	40284	
Reactive Organic Gas Emissions																									
Run Exh	4.59	3.01	0.05	7.65	1.86	0.96	0.02	2.84	1.38	1.22	0.01	2.61	0.41	0.31	0	0.72	0.11	0.15	0	0.27	0	0.04	0.01	0.05	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	1.57	2.57	0	4.14	0.54	0.74	0	1.28	0.39	0.92	0	1.32	0.12	0.22	0	0.34	0.53	0.16	0	0.69	0	0.05	0	0.06	
Total Ex	6.16	5.58	0.05	11.79	2.4	1.7	0.02	4.12	1.77	2.15	0.01	3.93	0.53	0.53	0	1.06	0.65	0.32	0	0.96	0.01	0.1	0.01	0.11	
Diurnal	0.28	0.42	0	0.7	0.1	0.12	0	0.22	0.07	0.13	0	0.2	0.02	0.03	0	0.05	0	0	0	0	0	0	0	0	
Hot Soak	0.94	0.78	0	1.72	0.32	0.24	0	0.56	0.26	0.29	0	0.54	0.05	0.06	0	0.11	0.05	0.02	0	0.07	0	0.01	0	0.01	
Running	5.8	4.63	0	10.43	1.47	0.56	0	2.03	0.77	0.62	0	1.39	0.21	0.13	0	0.34	0.45	0.06	0	0.51	0	0.01	0	0.02	
Resting	0.23	0.21	0	0.44	0.08	0.07	0	0.15	0.06	0.08	0	0.13	0.01	0.02	0	0.03	0	0	0	0	0	0	0	0	
Total	13.41	11.62	0.05	25.08	4.37	2.68	0.02	7.07	2.93	3.26	0.01	6.2	0.81	0.77	0	1.58	1.14	0.4	0	1.55	0.01	0.12	0.01	0.14	
Carbon Monoxide Emissions																									
Run Exh	65.67	84.72	0.13	150.52	26.71	39.32	0.07	66.1	21.37	43.58	0.03	64.98	7.25	8.01	0.01	15.27	3.17	3.85	0.01	7.03	0.03	1.26	0.02	1.31	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.02	0	0.04	0	0.01	0	0.01	
Start Ex	10.32	32.23	0	42.55	3.6	11.88	0	15.48	2.86	13.15	0	16.01	0.93	2.73	0	3.66	3.63	2.92	0	6.56	0.03	0.93	0	0.95	
Total Ex	75.99	116.95	0.13	193.07	30.3	51.2	0.07	81.57	24.23	56.73	0.03	80.99	8.18	10.74	0.01	18.93	6.83	6.79	0.01	13.63	0.06	2.2	0.02	2.28	
Oxides of Nitrogen Emissions																									
Run Exh	5.06	10.94	0.26	16.26	1.98	4.33	0.11	6.42	1.66	5.24	0.06	6.96	0.52	1.23	0.01	1.76	0.11	0.55	0.06	0.72	0	0.24	0.21	0.45	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.55	1.23	0	1.77	0.18	0.45	0	0.64	0.15	0.54	0	0.69	0.05	0.13	0	0.18	0.06	0.24	0	0.31	0	0.1	0	0.1	
Total Ex	5.6	12.17	0.26	18.03	2.17	4.78	0.11	7.06	1.81	5.78	0.06	7.65	0.57	1.36	0.01	1.94	0.17	0.79	0.06	1.03	0	0.34	0.22	0.55	
Carbon Dioxide Emissions (000)																									
Run Exh	0.45	3.23	0.06	3.74	0.18	0.96	0.03	1.17	0.15	1.01	0.01	1.17	0.04	0.35	0	0.39	0.02	0.06	0.01	0.09	0	0.03	0.03	0.05	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.07	0.14	0	0.21	0.02	0.04	0	0.07	0.02	0.04	0	0.06	0	0.02	0	0.02	0.01	0	0	0.02	0	0	0	0	
Total Ex	0.52	3.37	0.06	3.95	0.2	1	0.03	1.23	0.17	1.05	0.01	1.24	0.04	0.36	0	0.41	0.03	0.07	0.01	0.11	0	0.03	0.03	0.06	
PM10 Emissions																									
Run Exh	0.03	0.04	0.04	0.11	0.01	0.01	0.01	0.04	0.01	0.02	0.01	0.04	0	0	0	0.01	0	0	0	0	0	0	0	0.01	0.01
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0.03	0.05	0.04	0.12	0.01	0.01	0.01	0.04	0.01	0.03	0.01	0.05	0	0.01	0	0.01	0	0	0	0	0	0	0	0.01	0.01
TireWear	0.01	0.06	0	0.07	0	0.02	0	0.02	0	0.02	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0
BrakeWr	0.01	0.1	0	0.12	0	0.03	0	0.03	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0
Total	0.05	0.21	0.04	0.31	0.02	0.06	0.01	0.09	0.02	0.07	0.01	0.1	0	0.02	0	0.02	0	0	0	0.01	0	0	0	0.01	0.01
SOx	0.17	0.5	0.02	0.69	0.07	0.15	0.01	0.23	0.06	0.16	0	0.22	0.02	0.05	0	0.07	0.01	0.01	0	0.03	0	0	0	0.01	0.01
Fuel Consumption (000 gallons)																									
Gasoline	67.69	365.77	0	433.46	26.32	111.44	0	137.76	22.17	117.67	0	139.85	6.06	39.13	0	45.2	4.71	7.88	0	12.58	0.04	3.41	0	3.46	
Diesel	0	0	0	5.5	0	0	0	2.56	0	0	0	1.26	0	0	0	0.25	0	0	0	0.69	0	0	0	2.35	

Title : YEAR 1990 - NEW (9-02-2003) | Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:16:53  
 Scenario Year: 1990 -- Model Years: 1965 to 1990  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHDT)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCV)			All Total
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	
Vehicles	1421	1197	2618	236	568	804	0	0	0	121	54	175	42	64	106	2116	4796	6912	23392	0	23392	533998
VMT/1000	23	48	71	6	78	84	0	0	0	4	2	6	4	6	10	21	52	73	113	0	113	14683
Trips	64870	54677	119547	10798	25938	36736	0	0	0	484	215	699	169	257	426	212	479	691	46778	0	46778	3520030
Reactive Organic Gas Emissions																						
Run Exh	0.13	0.09	0.22	0.07	0.15	0.22	0	0	0	0.04	0	0.04	0.04	0.04	0.08	0.18	0.07	0.25	0.62	0	0.62	15.93
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
Start Ex	0.8	0.16	0.96	0.17	0.1	0.27	0	0	0	0.01	0	0.01	0	0	0.01	0	0	0	0.21	0	0.21	9.28
Total Ex	0.93	0.25	1.18	0.24	0.25	0.49	0	0	0	0.05	0.01	0.06	0.04	0.04	0.09	0.19	0.07	0.25	0.82	0	0.82	25.24
Diurnal																						
Hot Soak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0	0.08	1.25
Running	0.26	0.01	0.27	0.01	0	0.01	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0.1	0	0.1	3.16
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.72	0	0.72	15.8
Total	1.22	0.29	1.51	0.3	0.26	0.56	0	0	0	0.06	0.01	0.07	0.05	0.04	0.09	0.19	0.07	0.26	1.79	0	1.79	46.27
Carbon Monoxide Emissions																						
Run Exh	3.73	2.69	6.42	2.55	3.6	6.15	0	0	0	0.81	0.14	0.95	0.82	0.49	1.31	4.02	3.28	7.3	8.11	0	8.11	337.3
Idle Exh	0.02	0.02	0.04	0	0	0.02	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.21
Start Ex	5.5	3	8.5	2.75	1.74	4.49	0	0	0	0.06	0.03	0.09	0.02	0.04	0.06	0.02	0.02	0.04	0.55	0	0.55	98.92
Total Ex	9.25	5.71	14.96	5.3	5.34	10.64	0	0	0	0.87	0.17	1.04	0.84	0.53	1.41	4.04	3.3	7.34	8.66	0	8.66	436.44
Oxides of Nitrogen Emissions																						
Run Exh	0.13	0.4	0.53	0.15	1.1	1.25	0	0	0	0.02	0.01	0.03	0.02	0.05	0.07	0.11	0.31	0.42	0.2	0	0.2	46.71
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36
Start Ex	0.09	0.27	0.36	0.05	0.22	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.02	4.34
Total Ex	0.23	0.67	0.9	0.2	1.32	1.52	0	0	0	0.02	0.01	0.03	0.02	0.05	0.07	0.11	0.31	0.42	0.21	0	0.21	51.42
Carbon Dioxide Emissions (000)																						
Run Exh	0.01	0.03	0.04	0	0.05	0.05	0	0	0	0	0	0.01	0	0	0.02	0.02	0.04	0.06	0.01	0	0.01	7.68
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4
Total Ex	0.03	0.03	0.06	0.01	0.05	0.05	0	0	0	0	0	0.01	0	0	0.02	0.02	0.04	0.06	0.02	0	0.02	8.11
PM10 Emissions																						
Run Exh	0	0	0.05	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0.54
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Total Ex	0	0	0.05	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0.58
Tire/Wear																						
Brake/Wr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.14
Total	0	0	0.05	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0.2
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0.92
SOx	0.01	0.01	0.02	0	0.01	0.02	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0	0.01	1.59
Fuel Consumption (000 gallons)																						
Gasoline	4.84	4.37	9.21	1.54	6.08	7.62	0	0	0	0.49	0.19	0.68	0.48	0.6	1.08	2.34	4.66	7	3.21	0	3.21	801.11
Diesel	0	0	13.29	0	0	65.88	0	0	0	0	0	0.77	0	0	1.65	0	0	0.15	0	0	0	94.36

Title : Ventura County Avg 1996 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:25:25  
 Run Year: 1996 -- Model Years: 1965 to 1996  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)										
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total								
Vehicles	23825	283920	3667	311412	8861	79444	2817	91122	5621	89530	764	95915	2314	28376	287	30977	1423	3012	327	4762	5	946	765	1716		
VMT/1000	285	8195	78	8557	135	2258	80	2473	93	2696	18	2808	37	828	7	872	15	100	10	124	10	124	0	39	36	75
Trips	118827	1816240	22430	1957490	43879	507769	17973	569621	30784	575456	4737	610977	12141	182008	1795	195944	47056	99607	4109	150772	156	31294	9621	41071		
Reactive Organic Gas Emissions																										
Run Exh	1.33	2.25	0.03	3.6	0.64	0.73	0.02	1.38	0.38	0.83	0.01	1.22	0.19	0.35	0	0.54	0.12	0.3	0	0.42	0	0.05	0.01	0.07		
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0		
Start Ex	0.54	2.54	0	3.07	0.2	0.73	0	0.93	0.12	0.9	0	1.02	0.06	0.35	0	0.41	0.32	0.16	0	0.48	0	0.03	0	0.03		
Total Ex	1.86	4.79	0.03	6.67	0.84	1.46	0.02	2.32	0.5	1.73	0.01	2.24	0.25	0.7	0	0.95	0.44	0.46	0	0.9	0	0.09	0.01	0.1		
Dismal	0.12	0.47	0	0.59	0.05	0.14	0	0.18	0.03	0.14	0	0.16	0.01	0.05	0	0.06	0	0	0	0	0	0	0	0		
Hot Soak	0.31	0.56	0	0.87	0.11	0.18	0	0.29	0.08	0.17	0	0.25	0.02	0.07	0	0.09	0.03	0.03	0	0.06	0	0	0	0		
Running	2.24	4.02	0	6.26	0.59	0.86	0	1.45	0.28	0.78	0	1.07	0.11	0.3	0	0.4	0.32	0.16	0	0.48	0	0.02	0	0.02		
Resling	0.11	0.26	0	0.37	0.04	0.08	0	0.12	0.02	0.08	0	0.1	0.01	0.03	0	0.04	0	0	0	0	0	0	0	0		
Total	4.64	10.1	0.03	14.76	1.63	2.71	0.02	4.36	0.92	2.89	0.01	3.82	0.4	1.14	0	1.54	0.8	0.64	0	1.44	0	0.11	0.01	0.13		
Carbon Monoxide Emissions																										
Run Exh	18.24	63.85	0.07	82.17	8.87	26.89	0.06	35.83	5.75	27.33	0.02	33.1	3.36	8.52	0.01	11.89	2.3	4.42	0.01	6.74	0.01	0.85	0.04	0.89		
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Start Ex	3.53	28.96	0	32.49	1.34	10.33	0	11.67	0.89	10.87	0	11.75	0.5	3.9	0	4.41	2.29	2.73	0	5.02	0.01	0.55	0	0.56		
Total Ex	21.78	92.81	0.07	114.66	10.21	37.22	0.06	47.49	6.64	38.2	0.02	44.86	3.87	12.43	0.01	16.3	4.61	7.18	0.01	11.8	0.02	1.4	0.04	1.46		
Oxides of Nitrogen Emissions																										
Run Exh	1.45	7.81	0.12	9.39	0.68	3.08	0.11	3.87	0.46	4.34	0.03	4.83	0.25	1.61	0.01	1.87	0.04	0.35	0.05	0.44	0	0.1	0.24	0.34		
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Start Ex	0.18	1.4	0	1.59	0.07	0.46	0	0.53	0.05	0.75	0	0.8	0.02	0.25	0	0.27	0.04	0.24	0	0.28	0	0.07	0	0.07		
Total Ex	1.64	9.22	0.12	10.97	0.75	3.55	0.11	4.41	0.51	5.09	0.03	5.63	0.28	1.85	0.01	2.14	0.08	0.6	0.05	0.73	0	0.17	0.24	0.41		
Carbon Dioxide Emissions (000)																										
Run Exh	0.15	3.4	0.03	3.58	0.07	1.06	0.03	1.16	0.05	1.27	0.01	1.32	0.02	0.55	0	0.57	0.02	0.11	0.01	0.13	0	0.04	0.02	0.07		
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Start Ex	0.03	0.16	0	0.19	0.01	0.05	0	0.06	0.01	0.06	0	0.06	0	0.03	0	0.03	0.01	0	0	0.01	0	0	0	0		
Total Ex	0.18	3.56	0.03	3.77	0.08	1.11	0.03	1.22	0.06	1.32	0.01	1.39	0.02	0.58	0	0.6	0.03	0.11	0.01	0.15	0	0.04	0.02	0.07		
PM10 Emissions																										
Run Exh	0.01	0.06	0.02	0.08	0	0.02	0.01	0.03	0	0.03	0	0.04	0	0.01	0	0.01	0	0	0	0	0	0	0	0.01		
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Start Ex	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total Ex	0.01	0.07	0.02	0.09	0.01	0.02	0.01	0.03	0	0.04	0	0.05	0	0.01	0	0.01	0	0	0	0.01	0	0	0	0.01		
TireWear	0	0.07	0	0.08	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0	0	0	0		
BrakeWr	0	0.11	0	0.12	0	0.03	0	0.03	0	0.04	0	0.04	0	0.01	0	0.01	0	0	0	0	0	0	0	0		
Total	0.02	0.25	0.02	0.29	0.01	0.07	0.01	0.09	0.01	0.1	0	0.11	0	0.03	0	0.03	0	0	0	0.01	0	0	0	0.01		
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SOX	0	0.05	0	0.05	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0	0	0	0		
Fuel Consumption (000 gallons)																										
Gasoline	22.04	381.25	0	403.3	10.11	120.17	0	130.28	6.93	142.26	0	149.19	3.22	61.22	0	64.44	3.62	12.78	0	16.4	0.01	4.73	0	4.75		
Diesel	0	0	2.87	2.87	0	0	2.79	2.79	0	0	0.66	0.66	0	0	0.25	0.25	0	0	0.6	0.6	0	0	2.12	2.12		

Title : Ventura County Avg 1996 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:25:25  
 Scen Year: 1996 -- Model Years: 1965 to 1996  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHDT)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCV)			All Total
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	
Vehicles	731	1304	2035	126	648	774	0	0	0	61	58	119	40	88	128	1826	6503	8329	16954	425	17379	56908
VMT/1000	8	46	54	2	66	68	0	0	0	2	2	4	4	8	7	17	68	2	77	4	80	15604
Trips	33390	59568	92958	5747	29579	35326	0	0	0	246	231	477	159	354	307	183	651	22	33904	850	34755	3768790
Reactive Organic Gas Emissions																						
Run Exh	0.06	0.08	0.14	0.03	0.16	0.20	0	0	0	0.02	0	0.02	0.03	0.05	0.01	0.12	0.06	0	0.31	0.01	0.32	8.45
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
Start Ex	0.34	0.12	0.46	0.08	0.1	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0.12	0	0.12	6.7
Total Ex	0.4	0.2	0.64	0.1	0.26	0.38	0	0	0	0.02	0.01	0.03	0.04	0.05	0.01	0.12	0.07	0	0.42	0.01	0.43	15.19
Diurnal																						
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0	0.05	1.05
Hot Soak	0.01	0.01	0.02	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0	0.05	1.65
Running	0.13	0.06	0.19	0.03	0.02	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0.43	0	0.43	10.37
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0.04	0.67
Total	0.54	0.26	0.85	0.14	0.28	0.42	0	0	0	0.03	0.01	0.04	0.04	0.05	0.01	0.12	0.07	0	1	0.02	1.02	28.94
Carbon Monoxide Emissions																						
Run Exh	1.35	1.64	3.29	0.84	2.7	4.71	0	0	0	0.36	0.1	0.48	0.69	0.42	0.05	2.86	2.91	0	3.81	0.09	3.91	189.93
Idle Exh	0.01	0.02	0.03	0	0	0.11	0	0	0	0.03	0.001	0.01	0	0	0	0	0	0	0	0	0	0.2
Start Ex	2.42	2.17	4.6	1.34	1.65	2.98	0	0	0	0.03	0.02	0.05	0.01	0.04	0	0.01	0.02	0	0.33	0.01	0.34	73.96
Total Ex	3.79	3.83	7.92	2.17	4.35	7.8	0	0	0	0.39	0.12	0.54	0.71	0.46	0.05	2.88	2.93	0	4.14	0.11	4.25	264.09
Oxides of Nitrogen Emissions																						
Run Exh	0.04	0.24	1.92	0.04	0.88	5.79	0	0	0	0.01	0.01	0.13	0.02	0.05	0.21	0.08	0.3	0.04	0.12	0.01	0.12	30.63
Idle Exh	0	0	0.02	0	0	0.34	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0.37
Start Ex	0.04	0.22	0.26	0.02	0.25	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	4.08
Total Ex	0.08	0.46	1.94	0.07	1.12	6.13	0	0	0	0.01	0.01	0.14	0.02	0.06	0.21	0.08	0.3	0.04	0.13	0.01	0.13	35.08
Carbon Dioxide Emissions (000)																						
Run Exh	0.01	0.03	0.18	0	0.04	0.63	0	0	0	0	0	0.01	0.01	0.02	0.03	0.01	0.05	0	0.01	0	0.01	7.86
Idle Exh	0	0	0	0	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37
Total Ex	0.01	0.04	0.18	0	0.04	0.65	0	0	0	0	0	0.01	0.02	0.01	0.02	0.01	0.05	0	0.01	0	0.01	8.25
PM10 Emissions																						
Run Exh	0	0	0.05	0	0	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.41
Idle Exh	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Total Ex	0	0	0.06	0	0	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.45
TireWear																						
Run Exh	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.15
BrakeWr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.22
Total	0	0	0.06	0	0	0.19	0	0	0	0	0	0.01	0	0	0	0	0	0	0.01	0	0.01	0.81
Lead																						
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0	0.02	0	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18
Fuel Consumption (000 gallons)																						
Gasoline	2.17	4.54	6.71	0.64	5.22	5.87	0	0	0	0.24	0.19	0.43	0.44	0.78	0	1.87	5.82	0	1.92	0.07	1.99	792.28
Diesel	0	0	16.63	0	0	58.17	0	0	0	0	0	1.3	0	0	2.09	0	0.36	0	0	0	0	87.86



Title : Ventura County Avg 1999 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:28:32  
 Scene Year: 1999 -- Model Years: 1965 to 1999  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)			
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	
Vehicles	16526	29843	317808	5945	84043	3055	93044	3607	9757	552	101916	1667	34710	283	36660	663	3793	377	4833
VMT/1000	179	8374	56	87	2322	86	2494	56	2913	13	2982	26	996	7	1029	6	159	15	180
Trips	77946	189950	17237	28305	534308	19417	582030	18450	627139	3389	648979	8450	221721	1757	231928	21914	125424	4745	152083
Reactive Organic Gas Emissions																			
Run Exh	0.85	1.96	0.02	0.42	0.65	0.01	1.08	0.24	0.7	0	0.95	0.13	0.35	0	0.48	0.04	0.15	0	0.2
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01
Start Ex	0.35	2.43	0	0.13	0.7	0	0.83	0.07	0.83	0	0.91	0.04	0.39	0	0.43	0.15	0.11	0	0.25
Total Ex	1.21	4.4	0.02	0.55	1.35	0.01	1.91	0.32	1.53	0	1.85	0.18	0.74	0	0.91	0.19	0.26	0	0.46
Diurnal	0.09	0.43	0	0.03	0.13	0	0.16	0.02	0.12	0	0.13	0.01	0.05	0	0.06	0	0	0	0
Hot Soak	0.2	0.45	0	0.07	0.14	0	0.22	0.05	0.12	0	0.17	0.02	0.06	0	0.08	0.01	0.01	0	0.03
Running	1.45	3.1	0	0.36	0.88	0	1.24	0.17	0.74	0	0.91	0.07	0.34	0	0.4	0.15	0.14	0	0.29
Residing	0.08	0.26	0	0.03	0.08	0	0.11	0.02	0.07	0	0.08	0.01	0.03	0	0.04	0	0	0	0
Total	3.02	8.64	0.02	1.04	2.58	0.01	3.63	0.57	2.58	0	3.15	0.27	1.21	0	1.48	0.36	0.41	0	0.77
Carbon Monoxide Emissions																			
Run Exh	11.77	52.99	0.05	5.8	22.04	0.06	27.9	3.58	21.68	0.01	25.27	2.39	8.17	0.01	10.56	0.88	2.04	0.01	2.94
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.03	0	0.04
Start Ex	2.37	26.07	0	0.88	9.25	0	10.13	0.55	9.48	0	10.03	0.36	4.17	0	4.53	1.05	1.72	0	2.77
Total Ex	14.13	79.06	0.05	6.68	31.29	0.06	38.03	4.13	31.16	0.01	35.31	2.75	12.34	0.01	15.1	1.94	3.79	0.01	5.75
Oxides of Nitrogen Emissions																			
Run Exh	0.9	6.48	0.08	0.43	2.58	0.12	3.13	0.27	3.61	0.02	3.9	0.17	1.66	0.01	1.84	0.02	0.18	0.11	0.31
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0.12	1.43	0	0.04	0.45	0	0.49	0.03	0.75	0	0.77	0.02	0.3	0	0.31	0.02	0.18	0	0.2
Total Ex	1.02	7.91	0.08	0.47	3.03	0.12	3.62	0.3	4.36	0.02	4.67	0.18	1.96	0.01	2.15	0.03	0.37	0.11	0.51
Carbon Dioxide Emissions (000)																			
Run Exh	0.09	3.39	0.02	0.05	1.1	0.03	1.17	0.03	1.38	0.01	1.42	0.01	0.66	0	0.68	0.01	0.17	0.01	0.19
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0.02	0.16	0	0.01	0.05	0	0.06	0	0.06	0	0.07	0	0.03	0	0.03	0	0	0	0.01
Total Ex	0.11	3.55	0.02	0.05	1.15	0.03	1.23	0.03	1.44	0.01	1.48	0.02	0.69	0	0.71	0.01	0.18	0.01	0.2
PM10 Emissions																			
Run Exh	0.01	0.07	0.01	0	0.02	0.01	0.03	0	0.04	0	0.04	0	0.01	0	0.02	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0.01	0.07	0.01	0.01	0.02	0.01	0.03	0	0.04	0	0.05	0	0.02	0	0.02	0	0	0	0
TireWear	0	0.07	0	0	0.02	0	0.02	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0
BrakeWr	0	0.12	0	0	0.03	0	0.03	0	0.04	0	0.04	0	0.01	0	0.01	0	0	0	0
Total	0.01	0.26	0.01	0.29	0.01	0.07	0.01	0.09	0	0.11	0	0.12	0	0.04	0	0.04	0	0.01	0
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOX	0	0.05	0	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0
Fuel Consumption (000 gallons)																			
Gasoline	14.04	377.3	0	6.55	123.23	0	129.77	4.19	153.32	0	157.51	2.25	73.28	0	75.53	1.52	18.82	0	20.34
Diesel	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84
Total	0	0	2.05	0	0	2.96	2.96	0	0	0.45	0.45	0	0	0.24	0.24	0	0	0.84	0.84

Title : Ventura County Avg 1999 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:28:32  
 Scenario Year: 1999 -- Model Years: 1965 to 1999  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHDT)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCV)			All Total					
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total						
Vehicles	506	1275	4385	95	688	2230	2394	0	0	0	46	61	309	416	31	110	84	225	1660	7334	329	9323	13333	1039	14372	587712	
VMT/1000	5	42	119	166	1	59	244	304	0	0	1	2	10	13	3	10	8	21	16	76	4	95	64	8	72	16039	
Trips	23092	58236	72460	153788	4348	30527	11287	46162	0	0	0	184	243	1236	1664	123	442	335	900	166	734	33	933	26664	2077	28741	3883670
Reactive Organic Gas Emissions																											
Run Exh	0.03	0.06	0.04	0.13	0.02	0.15	0.21	0.38	0	0	0	0	0	0	0.02	0.04	0.01	0.08	0.11	0.07	0	0.18	0.25	0.02	0.26	6.64	
Idle Exh	0	0	0	0.01	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
Start Ex	0.23	0.11	0	0.34	0.06	0.11	0	0.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.08	0.01	0.09	5.84	
Total Ex	0.26	0.17	0.04	0.48	0.08	0.25	0.23	0.56	0	0	0	0.02	0.01	0	0.03	0.03	0.04	0.01	0.08	0.11	0.07	0	0.18	0.33	0.02	0.35	12.51
Diurnal																											
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.01	0.04	0.91
Hot Soak	0.01	0.01	0	0.02	0.01	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0.04	1.21
Running	0.09	0.08	0	0.17	0.02	0.03	0	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.27	0.01	0.28	7.94	
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0.03	0.59	
Total	0.37	0.26	0.04	0.67	0.1	0.29	0.23	0.62	0	0	0	0.02	0.01	0	0.03	0.03	0.05	0.01	0.09	0.11	0.07	0	0.19	0.69	0.04	0.73	23.16
Carbon Monoxide Emissions																											
Run Exh	0.76	1.17	0.29	2.22	0.54	2.35	0.98	3.88	0	0	0	0.27	0.1	0.03	0.39	0.53	0.35	0.04	0.93	2.54	2.84	0.01	5.38	3.05	0.21	3.26	148.15
Idle Exh	0.01	0.02	0.01	0.03	0	0	0.11	0.11	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.2
Start Ex	1.66	1.91	0	3.57	1.01	1.66	0	2.67	0	0	0	0.02	0.02	0	0.04	0.01	0.04	0	0.05	0.01	0.02	0	0.04	0.25	0.03	0.28	63
Total Ex	2.42	3.1	0.3	5.82	1.55	4.01	1.09	6.66	0	0	0	0.29	0.12	0.03	0.44	0.54	0.39	0.04	0.98	2.55	2.86	0.01	5.41	3.3	0.24	3.54	211.35
Oxides of Nitrogen Emissions																											
Run Exh	0.02	0.2	1.9	2.12	0.03	0.8	5.23	6.06	0	0	0	0.01	0.01	0.15	0.16	0.01	0.05	0.23	0.3	0.07	0.31	0.06	0.43	0.1	0.01	0.11	26.15
Idle Exh	0	0	0.02	0.02	0	0	0.33	0.33	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.38
Start Ex	0.03	0.21	0	0.23	0.02	0.26	0	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	3.92
Total Ex	0.05	0.41	1.92	2.37	0.05	1.06	5.57	6.67	0	0	0	0.01	0.01	0.16	0.18	0.01	0.06	0.23	0.3	0.07	0.31	0.06	0.44	0.1	0.01	0.12	30.45
Carbon Dioxide Emissions (000)																											
Run Exh	0	0.03	0.2	0.23	0	0.04	0.58	0.62	0	0	0	0	0	0.02	0.02	0	0.01	0.02	0.04	0.01	0.06	0.01	0.08	0.01	0	0.01	8.02
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0.01	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36
Total Ex	0.01	0.04	0.2	0.24	0	0.04	0.6	0.64	0	0	0	0	0	0.02	0.02	0	0.01	0.02	0.04	0.01	0.06	0.01	0.08	0.01	0	0.01	8.4
PM10 Emissions																											
Run Exh	0	0	0.05	0.05	0	0	0.13	0.13	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.38
Idle Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Total Ex	0	0	0.05	0.05	0	0	0.15	0.15	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.41
TireWear																											
Run Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.15
BrakeWr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.22
Total	0	0	0.06	0.06	0	0	0.16	0.16	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0	0.01	0.79
Lead																											
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0	0.02	0.02	0	0	0.05	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18
Fuel Consumption (000 gallons)																											
Gasoline	1.39	0	4.15	5.53	0.46	4.71	0	5.17	0	0	0	0.18	0.2	0	0.38	0.34	0.94	0	1.28	1.68	6.44	0	8.11	1.57	0.17	1.74	801.61
Diesel	0	0	17.87	17.87	0	0	54.03	54.03	0	0	0	0	0	0	1.5	0	2.2	2.2	2.2	0	0	0.54	0.54	0	0	0	84.72

Title : Ventura County Avg 2002 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:31:26  
 Scen Year: 2002 -- Model Years: 1965 to 2002  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)									
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total							
Vehicles	11733	315892	2264	329889	4238	89581	2699	96518	2478	103824	910	107212	1150	37644	986	39780	244	3917	674	4834	1	964	795	1761	
VMT/1000	117	8649	41	8806	60	2404	68	2531	36	3001	28	3066	17	1044	33	1094	2	176	35	213	0	39	36	75	
Trips	52490	2001980	13330	2067800	19267	566182	16957	602405	11750	663667	5765	681182	5567	239264	6352	251183	8058	129514	8473	146044	40	31887	10006	41933	
Reactive Organic Gas Emissions																									
Run Exh	0.58	1.3	0.01	1.89	0.29	0.45	0.01	0.75	0.17	0.46	0	0.63	0.09	0.25	0	0.34	0.01	0.02	0.01	0.03	0	0.01	0.01	0.02	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	
Start Ex	0.24	2.05	0	2.3	0.09	0.6	0	0.69	0.05	0.67	0	0.72	0.03	0.35	0	0.38	0.05	0.07	0	0.12	0	0.02	0	0.02	
Total Ex	0.82	3.36	0.01	4.19	0.38	1.05	0.01	1.44	0.22	1.14	0	1.36	0.12	0.6	0	0.72	0.06	0.09	0.01	0.16	0	0.03	0.01	0.04	
Diurnal	0.07	0.39	0	0.46	0.02	0.12	0	0.14	0.01	0.1	0	0.11	0	0.05	0	0.05	0	0	0	0	0	0	0	0	
Hot Soak	0.14	0.38	0	0.52	0.05	0.13	0	0.18	0.03	0.1	0	0.13	0.01	0.05	0	0.06	0.01	0.01	0	0.01	0	0	0	0	
Running	0.95	2.36	0	3.32	0.23	0.92	0	1.15	0.11	0.72	0	0.83	0.04	0.35	0	0.39	0.05	0.09	0	0.14	0	0.03	0	0.03	
Resling	0.05	0.23	0	0.29	0.02	0.07	0	0.09	0.01	0.06	0	0.07	0	0.03	0	0.03	0	0	0	0	0	0	0	0	
Total	2.03	6.73	0.01	8.77	0.7	2.3	0.01	3.01	0.38	2.11	0	2.49	0.18	1.08	0	1.26	0.12	0.19	0.01	0.31	0	0.07	0.01	0.08	
Carbon Monoxide Emissions																									
Run Exh	8.31	38.52	0.03	46.86	4.28	16.31	0.05	20.63	2.51	15.56	0.02	18.09	1.89	6.34	0.02	8.05	0.16	0.42	0.02	0.6	0	0.19	0.02	0.21	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0	0.01	0	0.01	
Start Ex	1.61	21.09	0	22.7	0.59	7.59	0	8.18	0.35	7.51	0	7.86	0.24	3.59	0	3.83	0.38	0.97	0	1.35	0	0.34	0	0.34	
Total Ex	9.91	59.61	0.03	69.56	4.87	23.9	0.05	28.81	2.86	23.07	0.02	25.95	1.93	9.93	0.02	11.88	0.54	1.43	0.02	1.99	0	0.53	0.03	0.56	
Oxides of Nitrogen Emissions																									
Run Exh	0.61	4.82	0.06	5.49	0.3	1.95	0.1	2.36	0.18	2.7	0.04	2.92	0.11	1.37	0.05	1.53	0.01	0.11	0.3	0.41	0	0.05	0.3	0.36	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.08	1.29	0	1.37	0.03	0.4	0	0.43	0.02	0.67	0	0.69	0.01	0.29	0	0.3	0.01	0.14	0	0.15	0	0.05	0	0.05	
Total Ex	0.69	6.11	0.06	6.86	0.33	2.35	0.1	2.79	0.2	3.37	0.04	3.61	0.12	1.66	0.05	1.83	0.01	0.25	0.3	0.56	0	0.11	0.3	0.41	
Carbon Dioxide Emissions (000)																									
Run Exh	0.06	3.44	0.02	3.52	0.03	1.14	0.03	1.2	0.02	1.43	0.01	1.46	0.01	0.69	0.01	0.71	0	0.11	0.02	0.13	0	0.02	0.02	0.05	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.01	0.17	0	0.18	0	0.06	0	0.06	0	0.07	0	0.07	0	0.03	0	0.03	0	0	0	0.01	0	0	0	0	
Total Ex	0.07	3.61	0.02	3.7	0.04	1.2	0.03	1.26	0.02	1.5	0.01	1.53	0.01	0.73	0.01	0.75	0	0.12	0.02	0.14	0	0.03	0.02	0.05	
PM10 Emissions																									
Run Exh	0	0.07	0.01	0.08	0	0.02	0	0.03	0	0.04	0	0.05	0	0.02	0	0.02	0	0	0	0	0	0	0	0	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0	0.01	0	0.01	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	
Total Ex	0	0.08	0.01	0.09	0	0.02	0	0.03	0	0.05	0	0.05	0	0.02	0	0.02	0	0	0	0	0	0	0	0	
TireWear	0	0.08	0	0.08	0	0.02	0	0.02	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0	0	0	0	0	
BrakeWr	0	0.12	0	0.12	0	0.03	0	0.04	0	0.04	0	0.04	0	0.01	0	0.02	0	0	0	0	0	0	0	0	
Total	0.01	0.27	0.01	0.29	0	0.08	0.01	0.09	0	0.12	0	0.12	0	0.04	0	0.05	0	0.01	0	0.01	0	0	0	0	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOX	0	0.05	0	0.05	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0	0	0	0	
Fuel Consumption (000 gallons)																									
Gasoline	9.31	380.25	0	389.56	4.55	126.93	0	131.48	2.75	157.51	0	160.26	1.51	76.1	0	77.61	0.41	12.07	0	12.48	0	2.74	0	2.74	
Diesel	0	0	1.48	1.48	0	0	2.34	2.34	0	0	0.97	0.97	0	0	1.12	1.12	0	0	1.84	1.84	0	1.93	0	1.93	

Title : Ventura County Avg 2002 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:31:26  
 Scenario Year: 2002 -- Model Years: 1965 to 2002  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHDT)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCV)			All Total				
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total					
Vehicles	340	1197	2804	4342	2976	4343	0	0	0	30	66	346	443	25	123	93	241	1475	8084	434	9993	12034	1745	13779	611768	
VMT/1000	3	39	127	168	1	44	249	293	0	0	1	2	11	2	11	9	22	14	84	5	103	64	13	77	16463	
Trips	15546	54686	78628	148860	3307	28346	11553	43206	0	0	122	264	1386	1771	99	494	371	964	148	809	43	1000	24067	3489	27555	4013900
Reactive Organic Gas Emissions																										
Run Exh	0.01	0.03	0.03	0.07	0.17	0.28	0	0	0	0.01	0	0	0.02	0.02	0.04	0.01	0.07	0.06	0.04	0	0.1	0.27	0.03	0.3	4.51	
Idle Exh	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
Start Ex	0.15	0.1	0	0.25	0.1	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.07	0.01	0.08	4.71	
Total Ex	0.17	0.12	0.04	0.33	0.21	0.19	0.45	0	0	0.01	0.01	0.01	0.02	0.02	0.04	0.01	0.08	0.06	0.04	0	0.1	0.34	0.04	0.38	9.26	
Diurnal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.01	0.03	0.8	
Hot Soak	0.01	0.01	0	0.01	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.02	0.94	
Running	0.06	0.1	0	0.16	0.02	0.05	0	0.07	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0.16	0.02	0.18	6.28	
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.02	0.5	
Total	0.24	0.23	0.04	0.5	0.27	0.19	0.53	0	0	0.01	0.01	0.01	0.03	0.02	0.05	0.01	0.08	0.06	0.05	0	0.11	0.56	0.07	0.63	17.79	
Carbon Monoxide Emissions																										
Run Exh	0.34	0.64	0.22	1.2	0.77	2.9	0	0	0	0.17	0.1	0.03	0.31	0.43	0.32	0.04	0.79	1.81	2.02	0.01	3.83	3.7	0.4	4.1	107.57	
Idle Exh	0	0.02	0.01	0.03	0	0.11	0	0	0	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.2	
Start Ex	1.1	1.61	0	2.71	1.55	2.32	0	2.32	0	0.01	0.02	0.04	0.04	0.01	0.04	0	0.05	0.01	0.02	0	0.03	0.22	0.06	0.27	49.69	
Total Ex	1.45	2.27	0.23	3.95	1.1	3.35	0.88	5.34	0	0.19	0.13	0.04	0.36	0.44	0.35	0.04	0.83	1.82	2.04	0.01	3.86	3.92	0.46	4.38	157.46	
Oxides of Nitrogen Emissions																										
Run Exh	0.01	0.18	1.99	2.18	0.67	5.61	6.29	0	0	0	0.01	0.17	0.18	0.01	0.05	0.23	0.3	0.06	0.3	0.07	0.44	0.1	0.02	0.12	22.58	
Idle Exh	0	0	0.02	0.02	0	0.34	0.34	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0.39	
Start Ex	0.02	0.19	0	0.2	0.01	0.25	0	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	3.47	
Total Ex	0.03	0.36	2.02	2.41	0.68	5.95	6.9	0	0	0	0.01	0.18	0.2	0.01	0.06	0.23	0.3	0.06	0.3	0.07	0.44	0.11	0.02	0.13	26.44	
Carbon Dioxide Emissions (000)																										
Run Exh	0	0.02	0.21	0.24	0	0.03	0.59	0.62	0	0	0	0.02	0.02	0	0.01	0.03	0.04	0.01	0.05	0.01	0.07	0.01	0	0.01	8.06	
Idle Exh	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	
Start Ex	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.36	
Total Ex	0.01	0.03	0.21	0.24	0	0.03	0.61	0.64	0	0	0	0.02	0.02	0	0.01	0.03	0.04	0.01	0.05	0.01	0.07	0.01	0	0.01	8.45	
PM10 Emissions																										
Run Exh	0	0	0.04	0.04	0	0.1	0.1	0.1	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.33	
Idle Exh	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	
Total Ex	0	0	0.04	0.04	0	0.11	0.11	0.11	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0.36	
TireWear	0	0	0	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16	
BrakeWr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.23	
Total	0	0	0.04	0.04	0	0.12	0.12	0.12	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0	0.01	0.74	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOx	0	0	0.02	0.02	0	0	0.05	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18	
Fuel Consumption (000 gallons)																										
Gasoline	0.82	3.12	0	3.94	0.32	3.5	0	3.82	0	0.12	0.22	0	0.34	0.27	1.03	0	1.31	1.19	5.67	0	6.86	1.65	0.28	1.93	792.32	
Diesel	0	0	19.13	19.13	0	0	55.04	55.04	0	0	0	1.67	1.67	0	0	0	2.36	2.36	0	0	0.7	0	0	0	88.61	

Title : YEAR 2005 - PLAN 1 (05HH3.ZIP) - 2004 RTP ! Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:47:21  
 Scan Year: 2005 -- Model Years: 1965 to 2005  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)			
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	
Vehicles	8242	334841	1730	344813	3065	95399	2305	100769	1814	109238	1102	112154	867	39647	1103	41617	767	4802	
VMT/1000	74	9039	29	9142	41	2513	53	2607	25	3017	32	3074	12	1056	32	1101	1	174	
Trips	35078	2114270	9916	2159260	13259	599571	14263	627093	8053	694063	6987	709113	3946	250377	7072	261395	17	32102	
Reactive Organic Gas Emissions																			
Run Exh	0.39	0.89	0.01	1.29	0.22	0.33	0.01	0.55	0.13	0.34	0	0.47	0.07	0.19	0	0.27	0	0.01	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.17	1.65	0	1.82	0.06	0.49	0	0.56	0.03	0.57	0	0.6	0.02	0.31	0	0.33	0	0.02	
Total Ex	0.56	2.54	0.01	3.11	0.28	0.82	0.01	1.11	0.16	0.91	0	1.07	0.09	0.5	0	0.59	0	0.03	
Diurnal	0.05	0.36	0	0.4	0.02	0.12	0	0.13	0.01	0.09	0	0.1	0	0.04	0	0.05	0	0	
Hot Soak	0.09	0.33	0	0.42	0.03	0.11	0	0.15	0.02	0.09	0	0.11	0	0.01	0.05	0	0.05	0	
Running	0.63	1.82	0	2.44	0.15	0.94	0	1.09	0.07	0.75	0	0.82	0.03	0.37	0	0.4	0	0.04	
Residing	0.04	0.22	0	0.25	0.01	0.07	0	0.09	0.01	0.06	0	0.07	0	0.03	0	0.03	0	0	
Total	1.36	5.26	0.01	6.63	0.49	2.07	0.01	2.57	0.27	1.9	0	2.17	0.13	0.99	0	1.12	0	0.07	
Carbon Monoxide Emissions																			
Run Exh	5.48	29.25	0.02	34.76	3.04	12.5	0.04	15.58	1.79	12.31	0.02	14.12	1.24	5.19	0.02	6.44	0	0.12	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	1.08	16.9	0	17.98	0.41	6.19	0	6.6	0.24	6.35	0	6.59	0.17	3.13	0	3.3	0	0.27	
Total Ex	6.56	46.15	0.02	52.73	3.45	18.69	0.04	22.18	2.03	18.66	0.02	20.72	1.41	8.31	0.02	9.74	0	0.4	
Oxides of Nitrogen Emissions																			
Run Exh	0.38	3.43	0.05	3.85	0.21	1.41	0.08	1.7	0.12	2.04	0.05	2.21	0.08	1.08	0.05	1.21	0	0.04	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.05	1.11	0	1.17	0.02	0.34	0	0.36	0.01	0.6	0	0.62	0.01	0.27	0	0.28	0	0.05	
Total Ex	0.43	4.54	0.05	5.02	0.23	1.75	0.08	2.06	0.13	2.64	0.05	2.83	0.09	1.35	0.05	1.49	0	0.09	
Carbon Dioxide Emissions (000)																			
Run Exh	0.04	3.63	0.01	3.68	0.02	1.23	0.02	1.27	0.01	1.48	0.01	1.51	0.01	0.71	0.01	0.73	0	0.02	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.01	0.17	0	0.18	0	0.06	0	0.06	0	0.07	0	0.07	0	0.03	0	0.04	0	0.01	
Total Ex	0.05	3.8	0.01	3.86	0.03	1.29	0.02	1.33	0.02	1.55	0.01	1.58	0.01	0.75	0.01	0.77	0	0.03	
PM10 Emissions																			
Run Exh	0	0.08	0	0.08	0	0.02	0	0.03	0	0.05	0	0.05	0	0.02	0	0.02	0	0	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0	0.01	0	0.01	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	
Total Ex	0	0.09	0	0.1	0	0.03	0	0.03	0	0.06	0	0.06	0	0.02	0	0.02	0	0	
TireWear	0	0.08	0	0.08	0	0.02	0	0.02	0	0.03	0	0.03	0	0.01	0	0.01	0	0	
BrakeWr	0	0.12	0	0.13	0	0.03	0	0.04	0	0.04	0	0.04	0	0.01	0	0.02	0	0	
Total	0	0.29	0.01	0.3	0	0.08	0	0.09	0	0.13	0	0.13	0	0.05	0	0.05	0	0	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOx	0	0.04	0	0.04	0	0.01	0	0.01	0	0.02	0	0.02	0	0.01	0	0.01	0	0	
Fuel Consumption (000 gallons)																			
Gasoline	6.12	397.85	0	403.97	3.23	135.05	0	138.28	1.95	161.86	0	163.81	1.11	78.26	0	79.37	0	12.46	
Diesel	0	0	1.04	1.04	0	0	1.82	1.82	0	0	1.1	1.1	0	0	1.11	1.11	0	2.1	
Total	6.12	397.85	1.04	403.97	3.23	135.05	1.82	138.28	1.95	161.86	1.1	163.81	1.11	78.26	1.11	79.37	0	12.46	
Diesel	0	0	1.04	1.04	0	0	1.82	1.82	0	0	1.1	1.1	0	0	1.11	1.11	0	2.1	
Gasoline	6.12	397.85	0	403.97	3.23	135.05	0	138.28	1.95	161.86	0	163.81	1.11	78.26	0	79.37	0	12.46	
Total	6.12	397.85	1.04	403.97	3.23	135.05	1.82	138.28	1.95	161.86	1.1	163.81	1.11	78.26	1.11	79.37	0	12.46	

Title : YEAR 2005 - PLAN 1 (051H3.ZIP) - 2004 RTP | Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:47:21  
 Scen Year: 2005 -- Model Years: 1965 to 2005  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHDT)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCY)			All Total
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	
Vehicles	232	1123	2952	4307	54	548	2358	2960	0	0	0	0	0	0	0	0	0	0	0	0	0	638904
VMT/1000	1	36	132	169	1	32	265	297	0	0	0	0	0	0	0	0	0	0	0	0	0	16912
Trips	10579	51319	82778	144676	2446	25040	11934	39420	0	0	0	0	0	0	0	0	0	0	0	0	0	4158680
Reactive Organic Gas Emissions																						
Run Exh	0.01	0.02	0.03	0.06	0.01	0.08	0.15	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	3.42
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
Start Ex	0.1	0.08	0	0.18	0.03	0.09	0	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	3.79
Total Ex	0.11	0.1	0.03	0.25	0.04	0.18	0.16	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	7.25
Diurnal																						
Hot Soak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.72
Running	0.04	0.11	0	0.16	0.01	0.08	0	0.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0.77
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.24
Total	0.16	0.22	0.03	0.41	0.05	0.26	0.16	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0.46
Carbon Monoxide Emissions																						
Run Exh	0.2	0.46	0.22	0.88	0.22	1.38	0.67	2.26	0	0	0	0	0	0	0	0	0	0	0	0	0	14.44
Idle Exh	0	0.02	0.01	0.03	0	0.12	0.12	0.12	0.14	0.1	0.04	0.28	0.4	0.3	0.04	0.74	1.35	1.74	0.01	0.01	0.01	83.23
Start Ex	0.74	1.34	0	2.08	0.57	1.35	0	1.92	0	0.01	0.02	0.03	0.01	0.04	0	0.05	0.01	0.02	0	0.03	0.21	39.96
Total Ex	0.94	1.81	0.23	2.98	0.79	2.73	0.78	4.3	0.15	0.13	0.04	0.33	0.41	0.34	0.04	0.79	1.36	1.76	0.01	0.01	0.01	123.39
Oxides of Nitrogen Emissions																						
Run Exh	0.01	0.14	1.8	1.94	0.01	0.48	5.02	5.51	0	0	0.01	0.18	0.19	0.01	0.05	0.23	0.29	0.05	0.26	0.08	0.39	18.12
Idle Exh	0	0	0.03	0.03	0	0	0.35	0.35	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0.4
Start Ex	0.01	0.16	0	0.17	0.01	0.22	0	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	3.04
Total Ex	0.02	0.3	1.82	2.14	0.02	0.7	5.37	6.09	0	0.01	0.19	0.21	0.01	0.06	0.23	0.29	0.05	0.26	0.08	0.39	0.12	21.56
Carbon Dioxide Emissions (000)																						
Run Exh	0	0.02	0.22	0.24	0	0.02	0.63	0.65	0	0	0	0.02	0.02	0	0.01	0.03	0.04	0.01	0.06	0.01	0.07	8.42
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.37
Total Ex	0	0.03	0.22	0.25	0	0.02	0.65	0.67	0	0	0	0.02	0.02	0	0.01	0.03	0.04	0.01	0.06	0.01	0.07	8.8
PM10 Emissions																						
Run Exh	0	0	0.04	0.04	0	0	0.08	0.08	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.33
Idle Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03
Total Ex	0	0	0.04	0.04	0	0	0.09	0.09	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.36
TireWear																						
BrakeWr	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16
Total	0	0	0.04	0.04	0	0	0.1	0.1	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.23
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.76
SOx	0	0	0.02	0.02	0	0	0.05	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0.16
Fuel Consumption (000 gallons)																						
Gasoline	0	0.54	2.92	3.46	0.23	2.68	0	2.9	0.1	0.23	0	0.33	0.26	1.1	0	1.35	0.9	6.21	0	7.11	1.84	818.01
Diesel	0	0	19.83	19.83	0	0	56.7	56.7	0	0	1.82	1.82	0	0	2.5	2.5	0	0.88	0	0.88	0	92.7

Title : YEAR 2010 - PLAN (10NH4.ZIP) - 2004 RTP | Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:50:08  
 Scan Year: 2010 -- Model Years: 1965 to 2010  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)									
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total							
Vehicles	3809	374844	1010	379663	1495	107769	1682	110946	1077	121564	977	123618	517	44350	1010	45877	38	4082	853	4973	0	1019	788	1807	
VMT/1000	29	9925	15	9969	19	2774	34	2827	14	3135	24	3172	7	1126	24	1157	0	168	40	208	0	37	30	67	
Trips	15260	2352950	5381	2373590	6115	671107	10039	687261	4415	762405	6100	772920	2168	276605	6337	285110	1249	134967	10727	146943	5	33686	9911	43602	
Reactive Organic Gas Emissions																									
Run Exh	0.16	0.52	0	0.68	0.1	0.22	0	0.33	0.07	0.25	0	0.32	0.04	0.14	0	0.19	0	0	0.01	0.01	0	0	0.01	0.01	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0	0	0	0	
Start Ex	0.07	1.13	0	1.2	0.03	0.37	0	0.4	0.02	0.46	0	0.48	0.01	0.25	0	0.27	0.01	0.04	0	0.05	0	0.02	0	0.02	
Total Ex	0.24	1.65	0	1.89	0.13	0.59	0	0.73	0.09	0.71	0	0.81	0.05	0.4	0	0.45	0.01	0.05	0.01	0.07	0	0.02	0.01	0.03	
Diurnal	0.02	0.3	0	0.33	0.01	0.11	0	0.12	0.01	0.1	0	0.1	0	0.05	0	0.05	0	0	0	0	0	0	0	0	
Hot Soak	0.04	0.29	0	0.33	0.02	0.11	0	0.12	0.01	0.09	0	0.1	0	0.05	0	0.05	0	0	0	0	0	0	0	0	
Running	0.27	1.31	0	1.57	0.06	0.92	0	0.98	0.04	0.82	0	0.86	0.01	0.39	0	0.4	0.01	0.06	0	0.07	0	0.04	0	0.04	
Resling	0.02	0.22	0	0.24	0.01	0.08	0	0.09	0.01	0.07	0	0.08	0	0.03	0	0.04	0	0	0	0	0	0	0	0	
Total	0.58	3.76	0	4.35	0.22	1.81	0	2.03	0.16	1.79	0	1.95	0.07	0.91	0	0.99	0.02	0.12	0.01	0.14	0	0.06	0.01	0.07	
Carbon Monoxide Emissions																									
Run Exh	2.17	19.86	0.01	22.05	1.39	8.95	0.02	10.36	1	9.75	0.01	10.76	0.75	4.15	0.01	4.92	0.02	0.09	0.03	0.14	0	0.06	0.03	0.08	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0	0	0.01	0	0.01	
Start Ex	0.47	12.2	0	12.67	0.19	4.69	0	4.87	0.14	5.41	0	5.55	0.1	2.64	0	2.74	0.06	0.49	0	0.54	0	0.2	0	0.2	
Total Ex	2.64	32.06	0.01	34.71	1.58	13.64	0.02	15.24	1.14	15.16	0.01	16.31	0.85	6.79	0.01	7.66	0.08	0.61	0.03	0.71	0	0.27	0.03	0.3	
Oxides of Nitrogen Emissions																									
Run Exh	0.15	2.12	0.02	2.3	0.09	0.94	0.05	1.09	0.07	1.48	0.04	1.59	0.05	0.79	0.04	0.88	0	0.05	0.21	0.27	0	0.02	0.2	0.22	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0.02	0.86	0	0.88	0.01	0.27	0	0.28	0.01	0.54	0	0.54	0	0.24	0	0.25	0	0.2	0	0.2	0	0.06	0	0.06	
Total Ex	0.17	2.98	0.02	3.18	0.1	1.21	0.05	1.37	0.07	2.02	0.04	2.13	0.05	1.03	0.04	1.12	0	0.25	0.22	0.47	0	0.08	0.2	0.28	
Carbon Dioxide Emissions (000)																									
Run Exh	0.02	3.93	0.01	3.95	0.01	1.36	0.01	1.39	0.01	1.55	0.01	1.56	0	0.76	0.01	0.78	0	0.11	0.02	0.13	0	0.02	0.02	0.04	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0	0.19	0	0.19	0	0.07	0	0.07	0	0.08	0	0.08	0	0.04	0	0.04	0	0.01	0	0.01	0	0	0	0	
Total Ex	0.02	4.12	0.01	4.14	0.01	1.43	0.01	1.45	0.01	1.62	0.01	1.64	0	0.8	0.01	0.81	0	0.12	0.02	0.14	0	0.03	0.02	0.04	
PM10 Emissions																									
Run Exh	0	0.09	0	0.09	0	0.03	0	0.03	0	0.06	0	0.07	0	0.02	0	0.02	0	0	0	0	0	0	0	0	
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Start Ex	0	0.01	0	0.01	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	
Total Ex	0	0.1	0	0.1	0	0.03	0	0.03	0	0.07	0	0.07	0	0.03	0	0.03	0	0	0	0	0	0	0	0	
TireWear	0	0.09	0	0.09	0	0.02	0	0.02	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0	0	0	0	0	
BrakeWr	0	0.14	0	0.14	0	0.04	0	0.04	0	0.04	0	0.04	0	0.02	0	0.02	0	0	0	0	0	0	0	0	
Total	0	0.33	0	0.33	0	0.09	0	0.1	0	0.14	0	0.15	0	0.05	0	0.05	0	0.01	0	0.01	0	0	0	0	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOx	0	0.04	0	0.04	0	0.01	0	0.01	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0	0	0	0	
Fuel Consumption (000 gallons)																									
Gasoline	2.47	427.49	0	429.96	1.49	148.72	0	150.21	1.08	168.8	0	169.87	0.64	83.16	0	83.81	0.06	11.92	0	11.98	0	2.67	0	2.67	
Diesel	0	0	0.52	0.52	0	0	1.17	1.17	0	0	0.82	0.82	0	0	0.84	0.84	0	0	2.07	2.07	0	1.59	0	1.59	

Title : YEAR 2010 - PLAN (10HH4.ZIP) - 2004 RTP ! Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:50:06  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHD1)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCY)			All Total						
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total							
Vehicles	118	1078	3246	4442	24	399	2606	3029	0	0	0	16	68	422	506	19	141	114	274	477	10208	750	11435	10739	5090	15829	702399	
VMT/1000	1	34	140	174	0	18	323	341	0	0	0	2	13	16	25	2	13	10	25	4	108	8	121	61	37	98	18176	
Trips	5400	49223	91028	145651	1098	18201	13191	32490	0	0	0	65	272	1685	2022	78	564	454	1096	48	1021	75	1144	21477	10179	31656	4523490	
Reactive Organic Gas Emissions	0	0.01	0.03	0.04	0	0.04	0.11	0.16	0	0	0	0	0.01	0.01	0.02	0.02	0.04	0.01	0.07	0.02	0.03	0	0.05	0.26	0.08	0.34	2.21	
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04
Start Ex	0.05	0.06	0	0.11	0.01	0.07	0	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.05	0.02	0.07	2.69	
Total Ex	0.05	0.07	0.03	0.16	0.02	0.11	0.13	0.26	0	0	0	0.01	0.01	0.01	0.02	0.02	0.04	0.01	0.07	0.02	0.03	0	0.05	0.31	0.1	0.42	4.94	
Diurnal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.02	0.03	0.63	
Hot Soak	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	
Running	0.02	0.12	0	0.14	0.01	0.09	0	0.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03	0.06	4.22	
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.46	
Total	0.08	0.19	0.03	0.3	0.02	0.2	0.13	0.35	0	0	0	0.01	0.01	0.01	0.02	0.02	0.04	0.01	0.07	0.02	0.03	0	0.05	0.36	0.17	0.53	10.86	
Carbon Monoxide Emissions	0.09	0.25	0.21	0.55	0.09	0.74	0.5	1.34	0	0	0	0.09	0.09	0.04	0.22	0.34	0.27	0.04	0.65	0.54	1.18	0.01	1.73	3.43	0.61	4.04	56.83	
Run Exh	0	0.01	0.01	0.02	0	0.13	0.13	0.13	0	0	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	
Idle Exh	0.36	1.02	0	1.38	0.24	0.97	0	1.21	0	0	0	0.01	0.02	0	0.03	0.01	0.04	0	0.04	0	0.02	0	0.02	0.18	0.13	0.32	29.56	
Start Ex	0.45	1.28	0.22	1.95	0.33	1.71	0.63	2.67	0	0	0	0.09	0.11	0.05	0.26	0.35	0.31	0.04	0.69	0.55	1.19	0.01	1.75	3.61	0.74	4.36	86.6	
Total Ex	0.09	0.25	0.21	0.55	0.09	0.74	0.5	1.34	0	0	0	0.09	0.09	0.04	0.22	0.34	0.27	0.04	0.65	0.54	1.18	0.01	1.73	3.43	0.61	4.04	56.83	
Oxides of Nitrogen Emissions	0	0.09	0.03	0.03	0	0.15	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0.01	0.05	0.02	0.28	0.09	0.05	0.14	12.42	
Run Exh	0	0.03	0.03	0.03	0	0.15	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.44	
Idle Exh	0.01	0.13	0	0.13	0	0.15	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	2.51	
Start Ex	0.01	0.13	0	0.13	0	0.15	0	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	2.51	
Total Ex	0.01	0.21	1.35	1.57	0.01	0.4	3.92	4.32	0	0	0	0	0.01	0.21	0.22	0.01	0.06	0.22	0.28	0.02	0.19	0.08	0.28	0.1	0.05	0.15	15.38	
Carbon Dioxide Emissions (000)	0	0.02	0.23	0.26	0	0.01	0.79	0.81	0	0	0	0	0	0.02	0.03	0	0.01	0.03	0.04	0	0.07	0.01	0.08	0.01	0.01	0.01	9.05	
Run Exh	0	0.02	0.23	0.25	0	0.01	0.77	0.79	0	0	0	0	0	0.02	0.02	0	0.01	0.03	0.04	0	0.07	0.01	0.08	0.01	0.01	0.01	9.05	
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.39	
Total Ex	0	0.02	0.23	0.26	0	0.01	0.79	0.81	0	0	0	0	0	0.02	0.03	0	0.01	0.03	0.04	0	0.07	0.01	0.08	0.01	0.01	0.01	9.47	
PM10 Emissions	0	0.03	0.03	0.03	0	0	0.06	0.06	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.32
Run Exh	0	0.03	0.03	0.03	0	0	0.06	0.06	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	
Idle Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
Total Ex	0	0.03	0.03	0.03	0	0	0.06	0.06	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.36
TireWear	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.17
BrakeWr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.25
Total	0	0.03	0.03	0.04	0	0	0.08	0.08	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0.01	0	0.01	0.78	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOx	0	0	0	0	0	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.09	
Fuel Consumption (000 gallons)	0	2.95	0	2.95	0.1	1.55	0	1.64	0	0	0	0.07	0.22	0	0.29	0.22	1.16	0	1.38	0.37	7.02	0	7.39	1.6	0.93	2.53	864.68	
Gasoline	0.26	2.69	0	2.69	0	0	0	0.64	0	0	0	0.07	0.22	0	0.29	0.22	1.16	0	1.38	0.37	7.02	0	7.39	1.6	0.93	2.53	864.68	
Diesel	0	0	21.06	21.06	0	0	71.5	71.5	0	0	0	0	0	2.04	2.04	0	0	2.77	2.77	0	0	1.21	1.21	0	0	0	105.6	





Title : Ventura County Avg 2015 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\*WIS Enabled\*\*  
 Run Date : 11/13/03 15:36:05  
 Season : Summer  
 Scene Year: 2015 -- Model Years: 1970 to 2015  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHD1)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBLUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCY)			All Total							
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total								
Vehicles	48	1104	3638	4790	8	288	2969	3264	0	0	0	13	67	469	548	14	156	127	297	141	11273	939	12353	8299	8360	16659	740406		
VMT/1000	0	35	153	188	0	11	381	392	0	0	0	0	2	15	17	1	14	12	27	1	120	10	131	45	58	103	18989		
Trips	2196	50415	102009	154620	352	13142	15022	28516	0	0	0	52	266	1874	2192	54	624	510	1188	14	1128	94	1236	16597	16718	33315	4743390		
Reactive Organic Gas Emissions																													
Run Exh	0	0.01	0.02	0.03	0	0.02	0.08	0.11	0	0	0	0	0	0.01	0.01	0.02	0.01	0.04	0.01	0.06	0.01	0.02	0	0.02	0.18	0.12	0.3	1.39	
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.04
Start Ex	0.02	0.05	0	0.07	0	0.05	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.03	0.07	1.76	
Total Ex	0.02	0.06	0.03	0.1	0	0.07	0.11	0.18	0	0	0	0	0.01	0.01	0.02	0.01	0.05	0.01	0.07	0.01	0.02	0	0.03	0.22	0.16	0.37	3.19		
Diurnal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.02	0.03	0.53	
Hot Soak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.51	
Running	0.01	0.11	0	0.12	0	0.09	0	0.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.03	0.04	3.39		
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.45	
Total	0.03	0.17	0.03	0.23	0.01	0.16	0.11	0.27	0	0	0	0	0.01	0.01	0.02	0.01	0.05	0.01	0.07	0.01	0.02	0	0.03	0.23	0.23	0.46	8.06		
Carbon Monoxide Emissions																													
Run Exh	0.03	0.14	0.18	0.35	0.03	0.39	0.4	0.82	0	0	0	0.07	0.07	0.05	0.19	0.24	0.26	0.04	0.54	0.15	0.66	0.01	0.83	2.27	0.66	2.93	37.53		
Idle Exh	0	0.01	0.01	0.02	0	0.15	0.15	0.15	0	0	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.23	
Start Ex	0.14	0.78	0	0.93	0.08	0.68	0	0.76	0	0	0	0	0.02	0	0.02	0.01	0.04	0	0.04	0	0.01	0	0.01	0.14	0.2	0.34	20.5		
Total Ex	0.18	0.94	0.19	1.3	0.1	1.07	0.55	1.72	0	0	0	0.07	0.09	0.06	0.22	0.24	0.3	0.04	0.58	0.16	0.68	0.01	0.84	2.41	0.86	3.27	58.26		
Oxides of Nitrogen Emissions																													
Run Exh	0	0.05	0.81	0.86	0	0.12	1.96	2.08	0	0	0	0	0.01	0.18	0.19	0.01	0.06	0.2	0.26	0	0.12	0.06	0.19	0.07	0.07	0.14	7.63		
Idle Exh	0	0	0.03	0.03	0	0	0.45	0.45	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0.51	
Start Ex	0	0.1	0	0.1	0	0.1	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	1.83		
Total Ex	0	0.15	0.84	0.99	0	0.22	2.4	2.62	0	0	0	0	0.01	0.21	0.22	0.01	0.06	0.2	0.26	0	0.12	0.06	0.19	0.08	0.07	0.15	9.96		
Carbon Dioxide Emissions (000)																													
Run Exh	0	0.02	0.25	0.28	0	0.01	0.91	0.92	0	0	0	0	0	0.02	0.03	0	0.01	0.03	0.05	0	0.07	0.02	0.09	0.01	0.01	0.02	9.34		
Idle Exh	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.4	
Total Ex	0	0.02	0.26	0.28	0	0.01	0.94	0.94	0	0	0	0	0	0.03	0.03	0	0.01	0.03	0.05	0	0.07	0.02	0.09	0.01	0.01	0.02	9.77		
PM10 Emissions																													
Run Exh	0	0	0.02	0.02	0	0	0.04	0.04	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.3	
Idle Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	
Total Ex	0	0	0.02	0.03	0	0	0.05	0.05	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0.34	
TireWear	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.18	
BrakeWr	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.26	
Total	0	0	0.03	0.03	0	0	0.07	0.07	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0.01	0	0	0	0	0.78	
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SOx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Fuel Consumption (000 gallons)	0	2.75	0	2.75	0.03	0.92	0	0.95	0	0	0	0.05	0.21	0	0.26	0.15	1.28	0	1.43	0.11	7.78	0	7.89	1.15	1.45	2.6	873.89		
Gasoline	0.1	2.64	0	2.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Diesel	0	0	22.96	22.96	0	0	84.34	84.34	0	0	0	0	0	2.27	2.27	0	0	2.98	2.98	0	0	1.5	1.5	0	0	0	0	119.65	

Title : YEAR 2020 - PLAN (20HH4J.ZIP) - 2004 RTP ! Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:52:19  
 Scen Year: 2020 -- Model Years: 1975 to 2020  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)					
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total			
Vehicles	62	420418	228	420707	55	121749	656	122460	41	135904	499	136444	1	4722	1040	5763	0	1198	892	2090	
VMT/1000	0	10910	3	10913	1	3067	11	3078	0	3414	9	3423	1	1241	11	1252	0	160	38	198	72
Trips	235	2613210	1087	2614530	212	746346	3474	750032	155	837183	2934	840272	42	156112	13085	169239	0	39595	11221	50816	
Reactive Organic Gas Emissions	0	0.2	0	0.2	0	0.1	0	0.11	0	0.12	0	0.13	0	0.07	0	0.08	0	0.01	0	0.01	0
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.43	0	0.43	0	0.17	0	0.17	0	0.23	0	0.23	0	0.13	0	0.14	0	0.04	0	0.01	0
Total Ex	0	0.63	0	0.63	0	0.27	0	0.28	0	0.36	0	0.36	0	0.01	0	0.22	0	0.05	0	0.01	0
Diurnal	0	0.2	0	0.2	0	0.09	0	0.09	0	0.09	0	0.09	0	0.04	0	0.04	0	0	0	0	0
Hot Soak	0	0.19	0	0.19	0	0.08	0	0.08	0	0.08	0	0.08	0	0.04	0	0.04	0	0	0	0	0
Running	0	0.78	0	0.78	0	0.67	0	0.67	0	0.67	0	0.67	0	0.31	0	0.31	0	0.12	0	0.12	0
Resting	0	0.19	0	0.19	0	0.08	0	0.08	0	0.09	0	0.09	0	0.04	0	0.04	0	0	0	0	0
Total	0.01	1.99	0	2	0	1.19	0	1.19	0	1.29	0	1.29	0	0.01	0.63	0	0.64	0	0.17	0.01	0.17
Carbon Monoxide Emissions	0.02	14.52	0	14.55	0.05	6.76	0.01	6.82	0.04	8.4	0.01	8.44	0.14	4	0.01	4.14	0	0.48	0.03	0.51	0.17
Run Exh	0	0.84	0	0.85	0	0.45	0	0.46	0	0.69	0.02	0.71	0.01	0.37	0.02	0.39	0	0.03	0.09	0.12	0.09
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.33	0	0.33	0	0.13	0	0.13	0	0.27	0	0.27	0	0.13	0	0.13	0	0.23	0	0.23	0.06
Total Ex	0	1.17	0	1.18	0	0.57	0.02	0.59	0	0.96	0.02	0.98	0.01	0.5	0.02	0.52	0	0.26	0.09	0.35	0.06
Carbon Dioxide Emissions (000)	0	4.23	0	4.23	0	1.49	0	1.5	0	1.69	0	1.69	0	0.84	0	0.84	0	0.1	0.02	0.12	0.04
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0.2	0	0.2	0	0.07	0	0.07	0	0.08	0	0.08	0	0.04	0	0.04	0	0.01	0	0.01	0
Start Ex	0	0.43	0	0.43	0	0.17	0	0.17	0	0.23	0	0.23	0	0.13	0	0.14	0	0.04	0	0.01	0
Total Ex	0	4.43	0	4.43	0	1.57	0	1.57	0	1.77	0	1.77	0	0.88	0	0.88	0	0.11	0.02	0.13	0.05
PM10 Emissions	0	0.1	0	0.1	0	0.03	0	0.03	0	0.07	0	0.07	0	0.03	0	0.03	0	0	0	0	0
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0.01	0	0.01	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0
Start Ex	0	0.11	0	0.11	0	0.04	0	0.04	0	0.09	0	0.09	0	0.03	0	0.03	0	0	0	0	0
Total Ex	0	0.15	0	0.15	0	0.04	0	0.04	0	0.05	0	0.05	0	0.02	0	0.02	0	0	0	0	0
TireWear	0	0.36	0	0.36	0	0.1	0	0.11	0	0.16	0	0.16	0	0.06	0	0.06	0	0.01	0	0.01	0
BrakeWear	0	0.04	0	0.04	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0
Total	0	0.4	0	0.4	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0
SOx	0.03	456.4	0	456.43	0.05	161.68	0	161.73	0.04	182.67	0	182.71	0.08	90.6	0	90.68	0	11.49	0	11.49	2.9
Fuel Consumption (000 gallons)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gasoline	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Title : YEAR 2020 - PLAN (20HH4J.ZIP) - 2004 RTP ! Scenario  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 13:52:19  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHD1)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBLUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCY)			All Total				
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total					
Vehicles	4	1147	3986	5137	0	218	3281	3499	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
VMT/1000	0	36	164	201	0	7	410	417	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Trips	190	52392	111770	164352	11	9926	16607	26544	3	281	2070	2354	5	701	570	1276	1	1217	110	1328	13973	21001	34974			
Reactive Organic Gas Emissions	0	0	0.02	0.02	0	0.01	0.07	0.08	0	0	0.01	0.01	0	0	0.05	0.01	0.06	0	0.01	0	0.01	0.16	0.15	0.31		
Run Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Idle Exh	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Start Ex	0	0.04	0	0.04	0	0.03	0	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.04	0.08		
Total Ex	0	0.04	0.02	0.07	0	0.04	0.1	0.14	0	0	0.01	0.01	0.02	0	0	0.05	0.01	0.06	0	0.01	0	0.19	0.19	0.39		
Diurnal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03		
Hot Soak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01		
Running	0	0.1	0	0.1	0	0.08	0	0.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.04		
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01		
Total	0	0.15	0.02	0.17	0	0.13	0.1	0.22	0	0	0.01	0.01	0.02	0	0	0.06	0.01	0.07	0	0.01	0	0.2	0.28	0.48		
Carbon Monoxide Emissions	0	0.07	0.17	0.25	0	0.24	0.37	0.61	0	0	0.06	0.05	0.12	0	0.02	0.27	0.04	0.33	0	0.02	0.27	0.01	0.3	2.09	0.72	2.81
Run Exh	0	0.01	0.01	0.03	0	0.16	0.16	0.33	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0.01	0.01	0.03	0	0.49	0	0.49	0	0	0.01	0.01	0.02	0	0	0.04	0	0.04	0	0	0.01	0	0.01	0.12	0.25	0.36
Start Ex	0	0.08	0	0.08	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01	
Total Ex	0	0.11	0.55	0.66	0	0.13	1.67	1.8	0	0	0.08	0.06	0.15	0	0.02	0.31	0.04	0.37	0	0.02	0.28	0.01	0.31	2.2	0.97	3.17
Oxides of Nitrogen Emissions	0	0.03	0.51	0.54	0	0.06	1.18	1.24	0	0	0.01	0.17	0.18	0	0	0.06	0.18	0.24	0	0	0.07	0.05	0.12	0.06	0.08	0.14
Run Exh	0	0.03	0.03	0.03	0	0.49	0.49	0.99	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0.08	0	0.08	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01
Start Ex	0	0.08	0	0.08	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01
Total Ex	0	0.11	0.55	0.66	0	0.13	1.67	1.8	0	0	0.01	0.2	0.2	0	0	0.06	0.18	0.24	0	0.02	0.28	0.01	0.31	0.07	0.08	0.15
Carbon Dioxide Emissions (000)	0	0.02	0.27	0.3	0	0	0.98	0.99	0	0	0	0.03	0.03	0	0	0.01	0.04	0.05	0	0	0.08	0.02	0.1	0	0.01	0.02
Run Exh	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0.03	0.27	0.3	0	0.01	1.01	1.01	0	0	0	0.03	0.03	0	0	0.01	0.04	0.05	0	0	0.08	0.02	0.1	0.01	0.02	0.02
PM10 Emissions	0	0	0.02	0.02	0	0	0.03	0.03	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
Run Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0	0.02	0.02	0	0	0.04	0.04	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0
TireWear	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BrakeWr	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0.02	0.03	0	0	0.06	0.06	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0.01	0	0	0
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Consumption (000 gallons)	0	0.01	2.78	2.79	0	0.64	0	0.65	0	0	0.22	0.22	0.22	0	0.01	1.43	0	1.45	0	0.01	8.31	0	8.32	1.02	1.8	2.82
Gasoline	0	0	24.68	24.68	0	0	90.84	90.84	0	0	0	2.51	2.51	0	0	0	3.22	3.22	0	0	0	1.74	1.74	0	0	0
Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	24.68	24.68	0	0.64	0	0.65	0	0	0.22	0.22	0.22	0	0.01	1.43	0	1.45	0	0.01	8.31	0	8.32	1.02	1.8	2.82
Diesel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Title : Ventura County Avg 2025 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:39:17  
 Scen Year: 2025 -- Model Years: 1980 to 2025  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat: I and M program in effect  
 Emissions: Tons Per Day

	Light Duty Passenger Cars (LDA)			Light Duty Trucks - 1 (LDT1)			Light Duty Trucks - 2 (LDT2)			Medium Duty Trucks (MDV)			Light Heavy Duty Trucks - 1 (LHDT1)			Light Heavy Duty Trucks - 2 (LHDT2)								
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total						
Vehicles	0	432479	92	432571	0	128206	381	128587	0	142959	316	143275	3	52876	390	53269	0	5088	1142	6230	0	1304	958	2262
VMT/1000	0	11117	1	11118	0	3195	6	3201	0	3541	5	3546	0	1295	6	1301	0	165	40	205	0	44	34	78
Trips	0	2660670	426	2681100	0	782492	1806	784298	0	873588	1767	875356	12	321080	2163	323255	0	168233	14369	182602	0	43128	12047	55175
Reactive Organic Gas Emissions																								
Run Exh	0	0.13	0	0.13	0	0.07	0	0.07	0	0.09	0	0.09	0	0.05	0	0.05	0	0.01	0	0.01	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0	0.01	0	0	0	0
Start Ex	0	0.27	0	0.27	0	0.11	0	0.11	0	0.17	0	0.17	0	0.1	0	0.1	0	0.03	0	0.03	0	0.01	0	0.01
Total Ex	0	0.41	0	0.41	0	0.18	0	0.18	0	0.27	0	0.27	0	0.15	0	0.15	0	0.04	0	0.04	0	0.01	0	0.01
Diurnal	0	0.15	0	0.15	0	0.07	0	0.07	0	0.08	0	0.08	0	0.04	0	0.04	0	0	0	0	0	0	0	0
Hot Soak	0	0.15	0	0.15	0	0.06	0	0.06	0	0.07	0	0.07	0	0.03	0	0.03	0	0	0	0	0	0	0	0
Running	0	0.63	0	0.63	0	0.53	0	0.53	0	0.59	0	0.59	0	0.26	0	0.26	0	0.15	0	0.15	0	0.04	0	0.04
Resting	0	0.15	0	0.15	0	0.07	0	0.07	0	0.09	0	0.09	0	0.04	0	0.04	0	0	0	0	0	0	0	0
Total	0	1.49	0	1.49	0	0.92	0	0.92	0	1.11	0	1.11	0	0.52	0	0.52	0	0.19	0	0.19	0	0.05	0	0.05
Carbon Monoxide Emissions																								
Run Exh	0	6.89	0	6.89	0	3.2	0	3.2	0	4.42	0	4.42	0	2.07	0	2.07	0	0.03	0.02	0.05	0	0.01	0.02	0.03
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0.04	0	0.01	0	0.01
Start Ex	0	3.68	0	3.68	0	1.58	0	1.58	0	2.26	0	2.26	0	1.17	0	1.17	0	0.39	0	0.39	0	0.11	0	0.11
Total Ex	0	10.57	0	10.57	0	4.78	0	4.78	0	6.68	0	6.68	0	3.24	0	3.25	0	0.46	0.03	0.48	0	0.13	0.02	0.15
Oxides of Nitrogen Emissions																								
Run Exh	0	0.6	0	0.6	0	0.32	0.01	0.32	0	0.52	0.01	0.53	0	0.27	0.01	0.28	0	0.02	0.06	0.09	0	0.01	0.05	0.06
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0	0.04	0	0.01	0	0.01
Start Ex	0	0.21	0	0.21	0	0.09	0	0.09	0	0.19	0	0.19	0	0.09	0	0.09	0	0.23	0	0.23	0	0.06	0	0.06
Total Ex	0	0.81	0	0.82	0	0.4	0.01	0.41	0	0.71	0.01	0.72	0	0.36	0.01	0.37	0	0.25	0.07	0.32	0	0.06	0.05	0.12
Carbon Dioxide Emissions (000)																								
Run Exh	0	4.23	0	4.23	0	1.53	0	1.53	0	1.73	0	1.73	0	0.86	0	0.86	0	0.1	0.02	0.13	0	0.03	0.02	0.05
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.21	0	0.21	0	0.08	0	0.08	0	0.09	0	0.09	0	0.04	0	0.04	0	0.01	0	0.01	0	0	0	0
Total Ex	0	4.44	0	4.44	0	1.61	0	1.61	0	1.82	0	1.82	0	0.9	0	0.91	0	0.11	0.02	0.14	0	0.03	0.02	0.05
PM10 Emissions																								
Run Exh	0	0.1	0	0.1	0	0.03	0	0.03	0	0.08	0	0.08	0	0.03	0	0.03	0	0	0	0	0	0	0	0
Idle Exh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.01	0	0.01	0	0	0	0	0	0.01	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0.11	0	0.11	0	0.04	0	0.04	0	0.09	0	0.09	0	0.03	0	0.03	0	0	0	0	0	0	0	0
TireWear	0	0.1	0	0.1	0	0.03	0	0.03	0	0.03	0	0.03	0	0.01	0	0.01	0	0	0	0	0	0	0	0
BrakeWear	0	0.15	0	0.15	0	0.04	0	0.04	0	0.05	0	0.05	0	0.02	0	0.02	0	0	0	0	0	0	0	0
Total	0	0.37	0	0.37	0	0.11	0	0.11	0	0.17	0	0.17	0	0.06	0	0.06	0	0.01	0	0.01	0	0	0	0
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0.04	0	0.04	0	0.02	0	0.02	0	0.02	0	0.02	0	0.01	0	0.01	0	0	0	0	0	0	0	0
Fuel Consumption (000 gallons)																								
Gasoline	0	456.32	0	456.32	0	165.54	0	165.54	0	187.06	0	187.06	0	93.22	0	93.22	0	11.8	0	11.8	0	3.11	0	3.11
Diesel	0	0	0.03	0.03	0	0	0.19	0.19	0	0.18	0.18	0.18	0	0	0.22	0.22	0	2.08	0	2.08	0	0	0	1.76

Title : Ventura County Avg 2025 Summer Interpolated  
 Version : Emfac2002 V2.2 Apr 23 2003 \*\* WIS Enabled \*\*  
 Run Date : 11/13/03 15:39:17  
 Season : Summer  
 Area : Ventura County Average  
 I/M Stat : I and M program in effect  
 Emissions: Tons Per Day

	Medium Heavy Duty Trucks (MHD1)			Heavy Heavy Duty Trucks (HHDT)			Line Haul Vehicles (LHV)			School Buses (SBUS)			Urban Buses (UB)			Mobile Homes (MH)			Motorcycles (MCV)			All Total		
	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total	Non-cat	Cat	Total			
Vehicles	0	1200	4357	5557	0	169	3628	3797	0	0	0	0	0	179	157	336	0	14093	1337	15430	5858	10667	16525	808460
VMT/1000	0	39	176	215	0	6	440	446	0	0	0	0	0	16	14	31	0	149	14	163	34	67	101	20423
Trips	0	54818	122160	176978	0	7736	18358	26093	0	0	0	0	0	717	627	1343	0	1410	134	1544	11714	21332	33047	5143280
Reactive Organic Gas Emissions																								
Run Exh	0	0	0.02	0.02	0	0.01	0.07	0.07	0	0	0	0	0	0	0.03	0.01	0.04	0	0	0	0	0.13	0.14	0.27
Idle Exh	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.03	0	0.03	0	0.02	0	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.04	0.07	0.82
Total Ex	0	0.03	0.02	0.05	0	0.03	0.1	0.12	0	0	0.01	0.01	0.04	0	0.03	0.01	0.04	0	0	0	0.16	0.18	0.34	1.65
Diurnal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.03	0.03	0.37
Hot Soak	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.32
Running	0	0.09	0	0.09	0	0.07	0	0.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0.04	0.04	2.4
Resting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0.37
Total	0	0.12	0.02	0.14	0	0.1	0.19	0.19	0	0	0.01	0.01	0.02	0	0.04	0.01	0.04	0	0.01	0	0.16	0.26	0.42	5.12
Carbon Monoxide Emissions																								
Run Exh	0	0.04	0.17	0.21	0	0.17	0.37	0.55	0	0	0.05	0.05	0.1	0	0.2	0.04	0.23	0	0.11	0.01	0.12	1.66	0.68	2.34
Idle Exh	0	0.01	0.01	0.03	0	0	0.18	0.18	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.45	0	0.45	0	0.34	0	0.34	0	0	0.01	0	0.01	0	0.03	0	0.03	0	0.01	0	0.01	0.1	0.25	0.35
Total Ex	0	0.5	0.19	0.68	0	0.51	0.55	1.06	0	0	0.07	0.06	0.13	0	0.23	0.04	0.27	0	0.12	0.01	0.12	1.76	0.93	2.69
Oxides of Nitrogen Emissions																								
Run Exh	0	0.02	0.33	0.35	0	0.04	0.76	0.8	0	0	0.01	0.16	0.16	0	0.05	0.16	0.21	0	0.05	0.04	0.09	0.05	0.07	0.13
Idle Exh	0	0	0.04	0.04	0	0	0.54	0.54	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0.06	0	0.06	0	0.05	0	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01
Total Ex	0	0.08	0.37	0.45	0	0.09	1.3	1.39	0	0	0.01	0.18	0.19	0	0.05	0.16	0.22	0	0.05	0.04	0.09	0.06	0.08	0.14
Carbon Dioxide Emissions (000)																								
Run Exh	0	0.02	0.29	0.32	0	0	1.06	1.06	0	0	0	0.03	0.03	0	0.01	0.04	0.05	0	0.09	0.02	0.12	0	0.01	0.02
Idle Exh	0	0	0	0	0	0	0.03	0.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0.03	0.29	0.32	0	0	1.08	1.09	0	0	0	0.03	0.03	0	0.01	0.04	0.05	0	0.09	0.02	0.12	0.01	0.01	0.02
PM10 Emissions																								
Run Exh	0	0	0.02	0.02	0	0	0.03	0.03	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0
Idle Exh	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Ex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Ex	0	0	0.02	0.02	0	0	0.03	0.03	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0
TireWear	0	0	0	0	0	0	0.02	0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BrakeWr	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0.02	0.03	0	0	0.06	0.06	0	0	0	0.01	0.01	0	0	0	0	0	0	0	0	0	0	0
Lead	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOx	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fuel Consumption (000 gallons)																								
Gasoline	0	2.87	0	2.87	0	0.52	0	0.52	0	0	0.23	0	0.23	0	1.44	0	1.44	0	9.67	0	9.67	0.86	1.7	2.56
Diesel	0	0	26.46	26.46	0	0	97.52	97.52	0	0	0	2.66	2.66	0	3.46	0	3.46	0	2.1	2.1	2.1	0	0	0
Total	0	2.87	26.46	26.46	0	0.52	97.52	97.52	0	0	0.23	2.66	2.66	0	1.44	3.46	3.46	0	9.67	9.67	9.67	0.86	1.7	2.56