2008 CALIFORNIA MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECAST

California Department of Transportation

Division of Transportation System Information

June 2009

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2008 CALIFORNIA
MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECAST

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STATEWIDE MODELING BRANCH

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I. EXECUTIVE SUMMARY

This is the twenty-fourth in a series of reports that forecasts Vehicle Miles of Travel (VMT) in California. This report is intended for transportation planning, travel forecasting, air quality modeling, and fuel tax revenue projection.

This report provides forecasts of VMT, Vehicle Fuel Consumption (VFC), registered vehicles, and vehicle fuel economy on a statewide basis. The forecasts are disaggregated by county, road system, vehicle body type, and vehicle fuel type.

Socioeconomic factors that affect vehicle miles of travel include population, per capita personal income, vehicles per person, and the fuel cost per mile of travel.

The VMT and VFC are projected to increase by 61 percent and 57 percent respectively from 2007 to 2030. The counties with the most growth in VMT are Los Angeles, Riverside, San Diego, San Bernardino, Orange, Santa Clara, Sacramento, and Alameda. The rural counties show very little change in VMT. More detailed forecast results are provided in the body of the report.

Table 1: Key Forecasts Results

Year	Vehicle Miles Traveled Veh-Miles (Billions)	Vehicle Fuel Consumption Gallons (Billions)	Registered Vehicles Vehicles (Millions)	Vehicle Fuel Economy Miles Per Gallon
2008	333.0	18.34	27.31	18.15
2010	345.5	18.99	28.28	18.20
2015	393.6	21.27	30.99	18.50
2020	436.4	23.41	33.65	18.64
2025	475.1	25.42	36.20	18.69
2030	532.5	28.39	38.95	18.75

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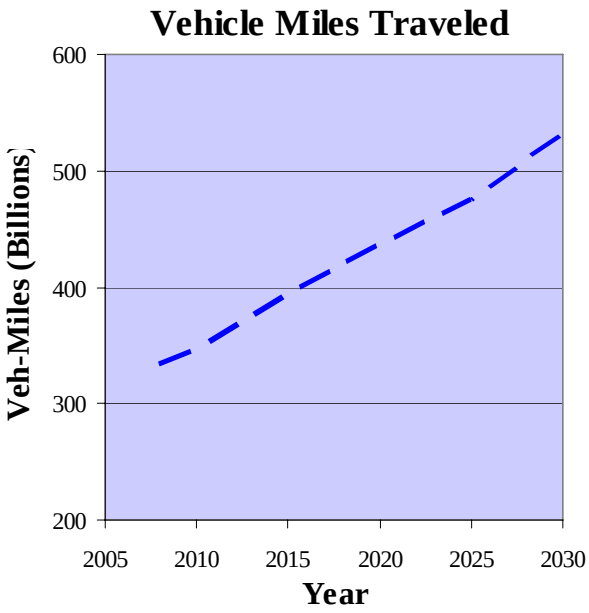
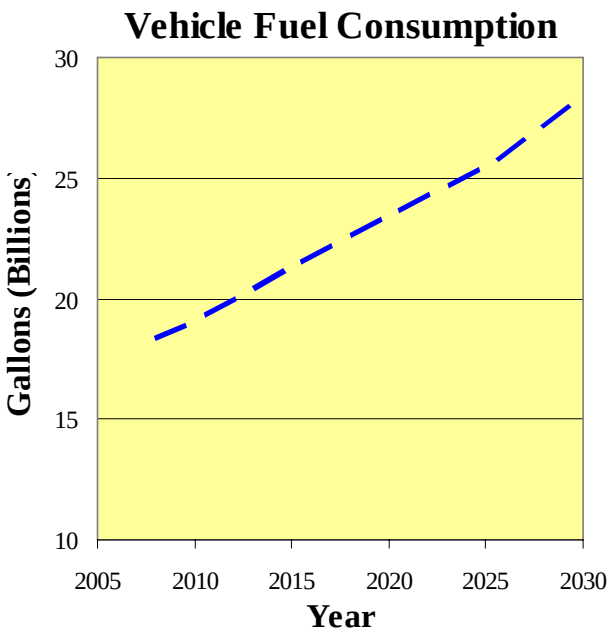
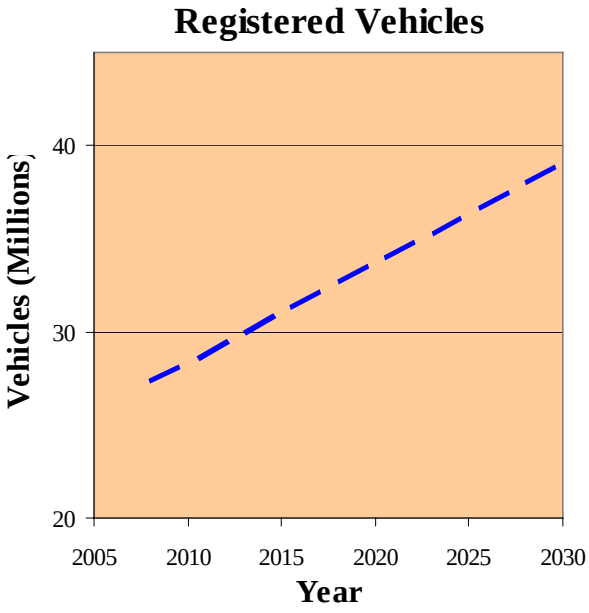
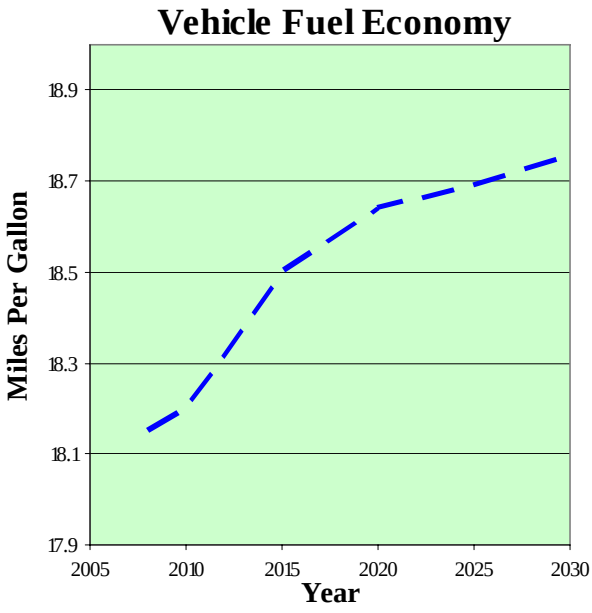
Figure-1

Forecast Summary









Source: Appendix D

Figure-2

Vehicle Miles Traveled by County

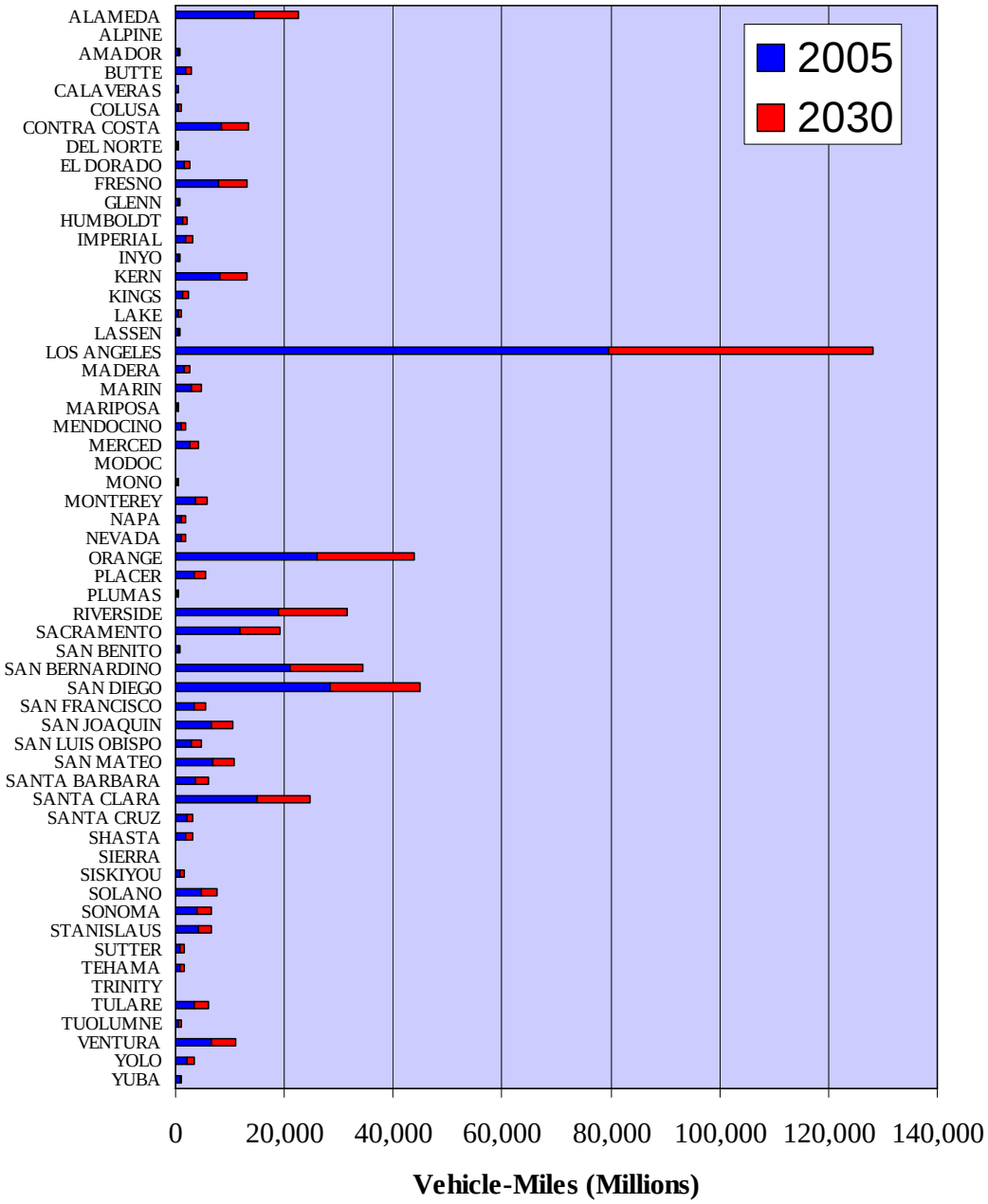


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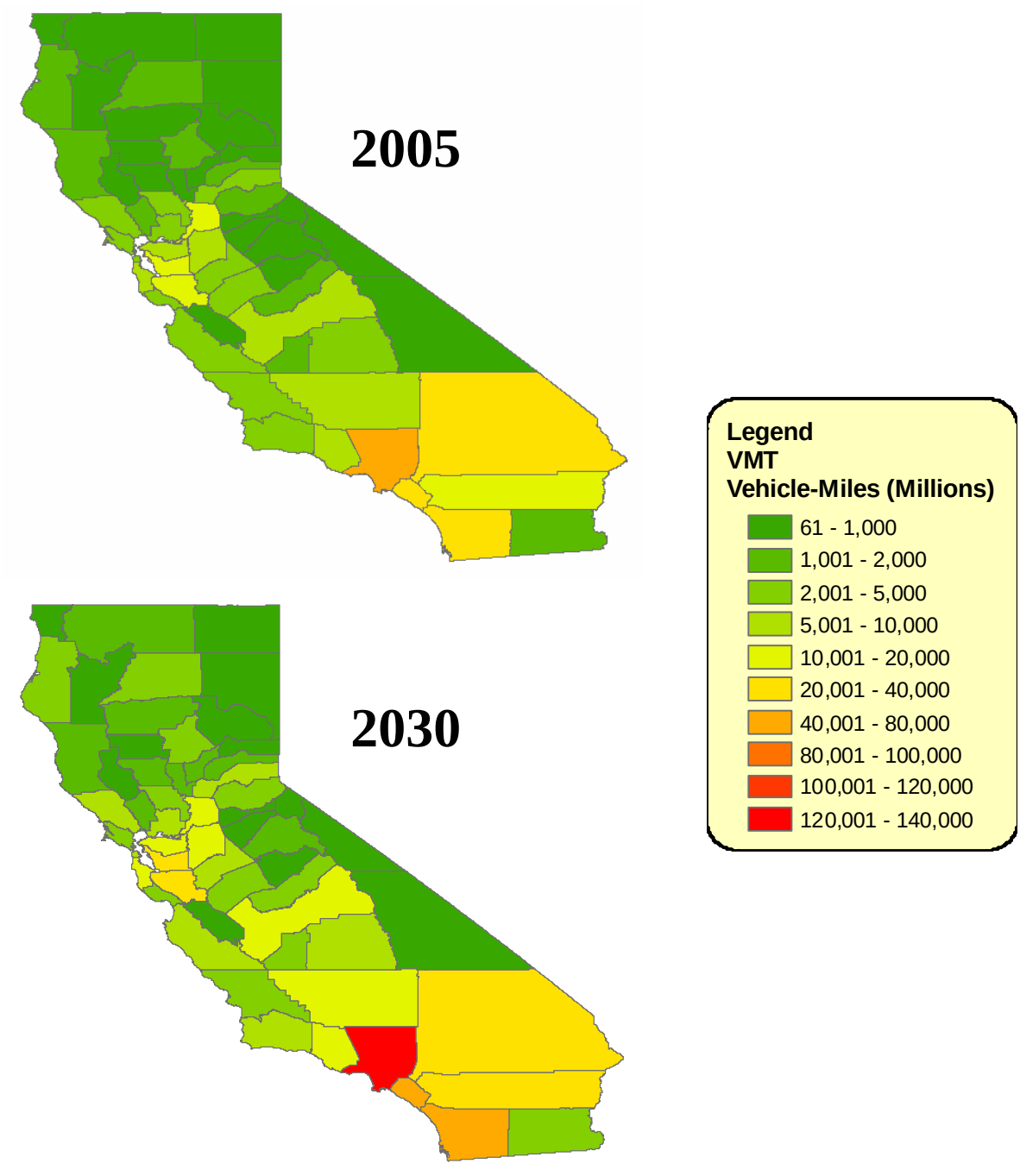
Figure-3

Vehicle Miles Traveled by County
(Spatial Distribution)



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II. INTRODUCTION

The California Department of Transportation (Department) utilizes forecasts of VMT and VFC for planning and revenue projection purposes. These forecasts are based on the Motor Vehicle Stock, Travel and Fuel Forecast (MVSTAFF) process, which is outlined in Appendix A.

Socioeconomic factors used in the forecasting process include population, per capita personal income, vehicle per person, and the fuel cost per mile of travel. The following summarizes the history of social economic impact of VMT.

- The **1950s** experienced a 71 percent increase in VMT, which was attributed by a 49 percent increase in population and moderate increases in per capita personal income and vehicle ownership. A decrease in fuel price per mile also contributed to the growth of VMT because of their inverse relationship.

- The **1960s** experienced a 64 percent increase in VMT although population grew at about half the rate than it did in the 1950s (26 percent vs. the previous 49 percent). The driving force in the 1960s would appear to be the growth in per capita income and vehicle ownership, the highest in the 50-year history.

- The **1970s** produced a 38 percent increase in VMT as a result of a low increase in population (19%), a slow economy, and a 55 percent rise in fuel prices in the last half of the decade.

- The **1980s** experienced a 62 percent increase in VMT rivaling its growth in the 1950s and 1960s. At the same time, per capita personal income and vehicle ownership grew by 12 percent and 7 percent, respectively. Growth in VMT in the 1980s could be attributed to strong population gain of 26 percent and the precipitous drop in the real fuel cost per mile of travel of 57 percent, resulting from a 45 percent drop in the real price of fuel and a 30 percent increase in the on-road fleet fuel economy.

- The **1990s** saw a 19 percent increase in VMT as population growth slowed down to 15 percent. Per capita personal income showed a 20 percent growth, and fuel cost per mile increased 12 percent due to a sharp increase in fuel prices in 1999 and 2000.

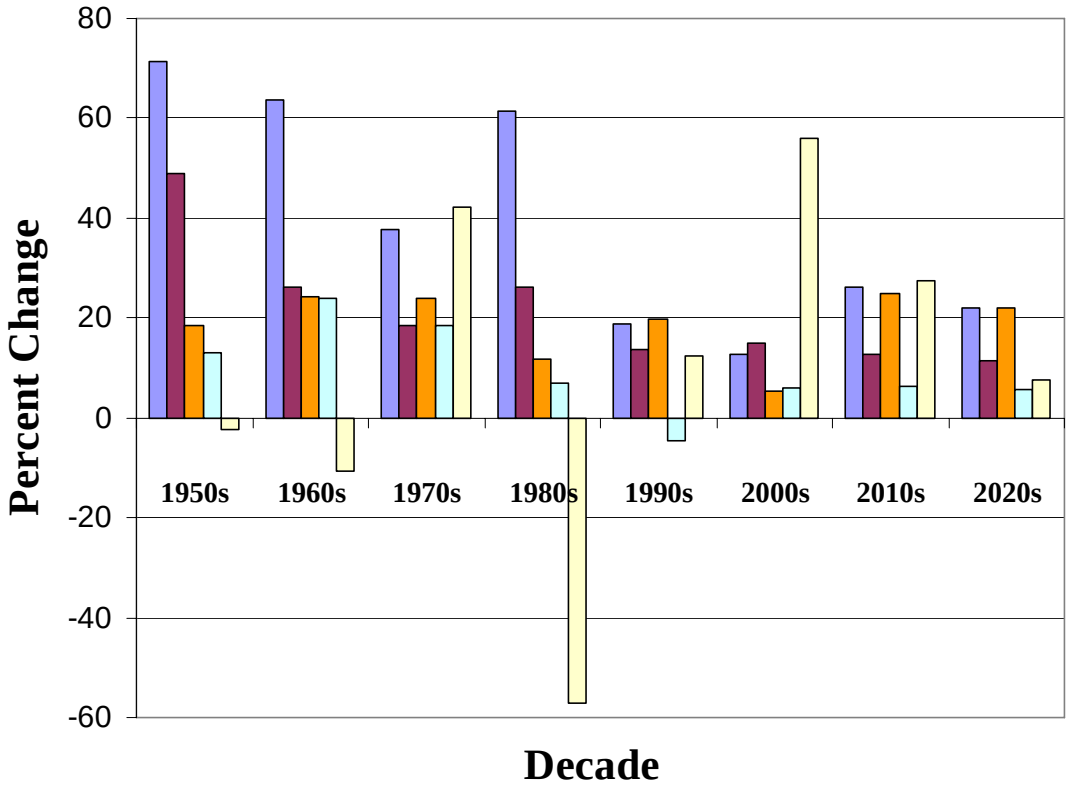
- In the **2000s**, VMT is projected to grow 13 percent, as population growth rates is about 15 percent. Fuel cost per mile is expected to increase 56 percent in the 2000s as well. Most of the increase is in the second half of the decade starting 2005.

- In the **2010s**, VMT is projected to grow 26 percent as the population increases 13 percent. Per capita personal income is expected to increase 25 percent. Fuel cost per mile is forecasted to increase 27 percent in 10 years.

- In the **2020s**, VMT is projected to grow 22 percent as population grows 12 percent. Per capita personal income is expected to increase 26 percent. Fuel cost per mile is projected to increase 8 percent in 10 years.

Figure-4

Socioeconomic Factors Impact on Vehicle Miles Traveled



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III. FORECAST ASSUMPTIONS

The MVSTAFF process requires base year estimates and future year projections of socioeconomic variables and vehicle fuel economy. The assumptions regarding these key variables, that drive the forecasting process, are briefly described below.

A. Socioeconomic Assumptions

The forecasts are based on the projection of socioeconomic data provided by the California Department of Finance (DOF) and the "The UCLA Anderson Forecast for the Nation and California", California Energy Commission and United States Department of Energy (DOE).

1. Population

   Population projections for the years 2007-2030 were the latest data available from DOF. The State's population is projected to continue to increase. The rate of increase was about 0.7 percent in 2007, and it is expected to increase by 1.6 percent in 2008 and 1.2 percent in 2009. The annual average rate of increase is about 1.2 percent (2007-2030).

2. The U. S. Consumer Price Index

   Projections of total personal income and motor vehicle fuel prices are normally made on a current dollar basis. Because the MVSTAFF process operates on a constant dollar basis, personal income and fuel prices are adjusted for inflation by dividing them by projections of the U. S. Consumer Price Index (U.S. CPI).

3. Per Capita Personal Income

   Per Capita Personal Income (PCPI) is an important variable in the MVSTAFF process. For example, PCPI is a major determinant of new car sales, vehicle ownership and annual miles of travel per person.

   Total personal income is expected to increase 4.5 percent in 2008, 4.1 in 2009, and 5.1 in 2010 respectively (based on the April 2008 DOF's forecast). Growth in real personal income will remain weak in 2008, 2009, but it will pick up in 2010.

4. Fuel Price

Fuel price is one of the most important variables in projecting future VMT and VFC, for the following reasons:

(a) It significantly determines the amount of vehicular travel.
(b) Over the past 20 years, it has had the greatest variability of any of the socioeconomic variables used to forecast VMT and VFC.
(c) It influences the fuel economy of the new vehicles, which directly affects fuel consumption.

The fuel price variable used in the forecasting process is the price of gasoline, averaged over all grades, and full-service and self-service sales. The price includes all excise taxes but not sales taxes. Based on the forecast of the DOE, the fuel price is expected to continue to be high in 2008, and then gradually go down until 2010 and then pick up again through 2030.

5. Prime Lending Rate

The prime lending rate is one of the variables used to estimate new vehicles sales, which is needed to annually update the vehicle fleet. The rate reduced to 7.5 percent in 2007 from 8.0 percent in 2006. The rate will reduce in 2008-2010 and will gradually increase through forecast period (2030) and generally is between 6.0 and 8.5 percent.

B. Vehicle Fuel Economy

The forecast process requires assumptions of future fuel economy. The current standard for passenger automobiles is 27.5 Miles Per Gallon (MPG). The standard for light-trucks, a classification that also includes SUVs under 8,500 pounds rose to 22.2 MPG for model-year 2007 and will get bumped up to 22.5 MPG for 2008 models. The Department of Motor Vehicles' "Vehicle Population Profile for California" was used to update the MPG model. The MPG values for light duty fleets, which meet the national Corporate Average Fuel Economy (CAFÉ) standards, are assumed to have the same fuel economy into the future.

The trucking industry is aware of the significance of the fuel operating cost and the forecast for higher fuel prices. An average annual fleet MPG improvement was calculated for each vehicle and fuel type using the vehicle fuel economy values from the "Truck Inventory and Use Survey" reports for years 1977, 1982, 1987, 1992, and the "Vehicle Inventory and Use Survey" reports for years 1997 and 2002. Fuel economy of motorcycles is assumed to be a constant on-road value of 50 MPG.

IV. FORECAST RESULTS

A. Vehicle Miles of Travel

Vehicle miles of travel forecast by public road system (state highway and non-state highway) are illustrated in Figure-5. The 2008 VMT forecast of 332.9 billion is based on the 2007 on-road fuel consumption estimate from the Board of Equalization's sales data, and the 2007 on-road vehicle fleet fuel economy from the MVSTAFF Stratified Rate Model. Statewide VMT in 2008 is expected to increase by about 1 percent. The long-term forecast is for VMT to continue to grow, but at a slower rate. The VMT forecasts by body type are illustrated in Figure-6.

Figure-5

Vehicle Miles Traveled by Public Road System (2008-2030 Forecasts)

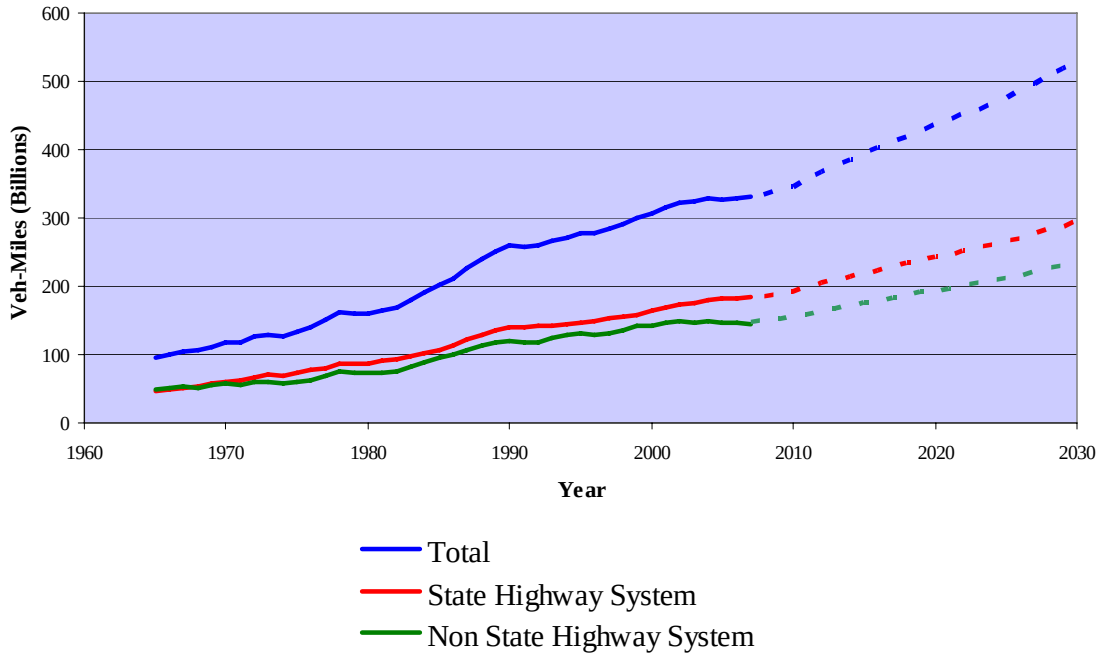

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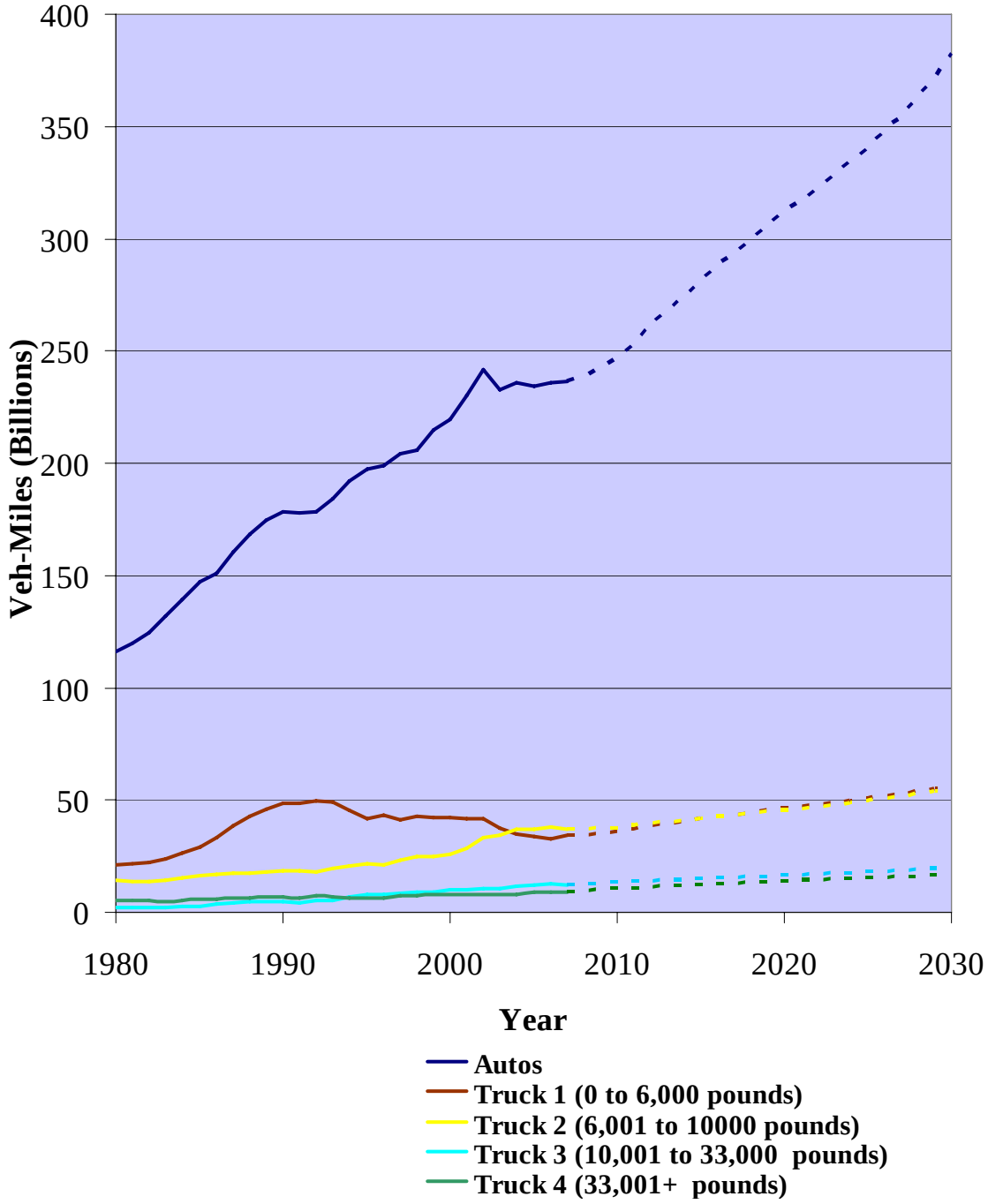
Figure-6

Vehicle Miles Traveled by Body Type (2008-2030 Forecasts)



Source: Appendix D

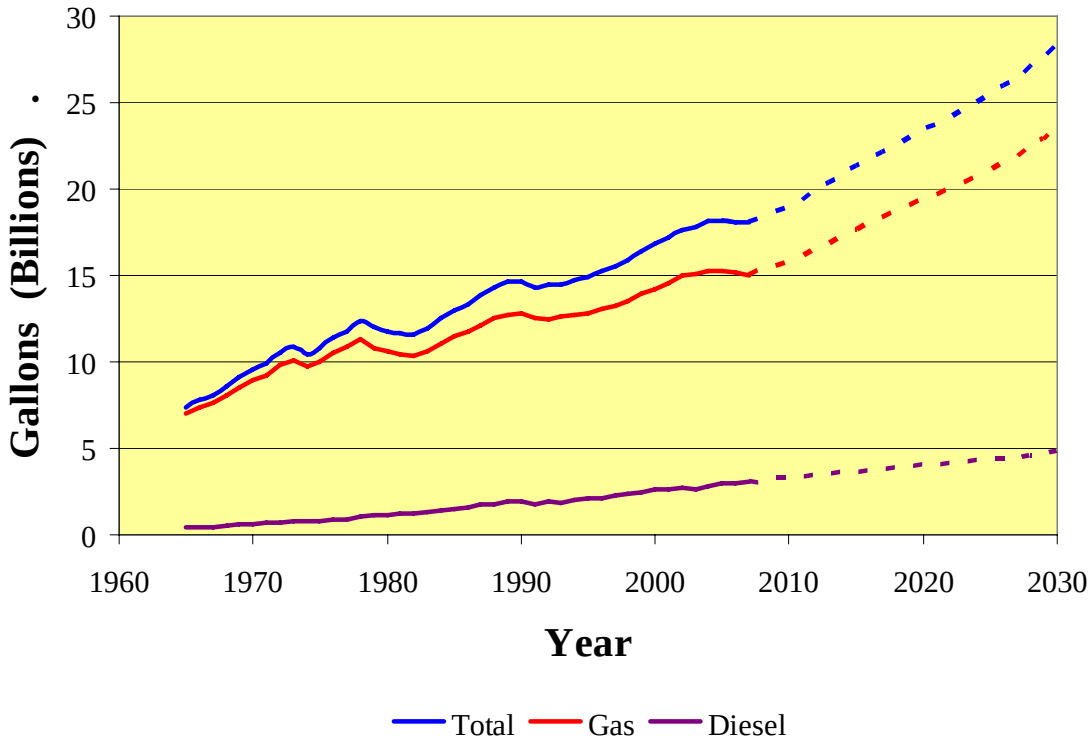
B. Vehicle Fuel Consumption

The Statewide fuel consumption forecast is given in Figure-7. The values represent total gasoline and diesel fuel usage on all public roads for years 1965 to 2030. Fuel consumption is expected to increase slightly about 1 percent in 2008 compared to 2007.

Vehicle Fuel Consumption by body type and fuel type are provided in Appendix D. Total fuel consumption is expected to increase for autos and all types of trucks. Diesel fuel consumption for autos and light trucks is expected to decrease because of the projected decline in the number of both body types.

Figure-7

Vehicle Fuel Consumption (2008-2030 Forecasts)



Source: Appendix D

C. Registered Vehicles

The forecast of the total number of registered vehicles is shown in Figure-8. Total vehicles are expected to increase by 1.8 percent in 2008. The long-term forecast is for total vehicles to continue to increase at an annual average rate of 1.9 percent.

The forecast of registered vehicles by body type are shown in Figure-9. Motorcycles are included in a detailed summary of registered vehicles by body type and fuel type in Appendix D.

Figure-8
Registered Vehicles (2008-2030 Forecast)

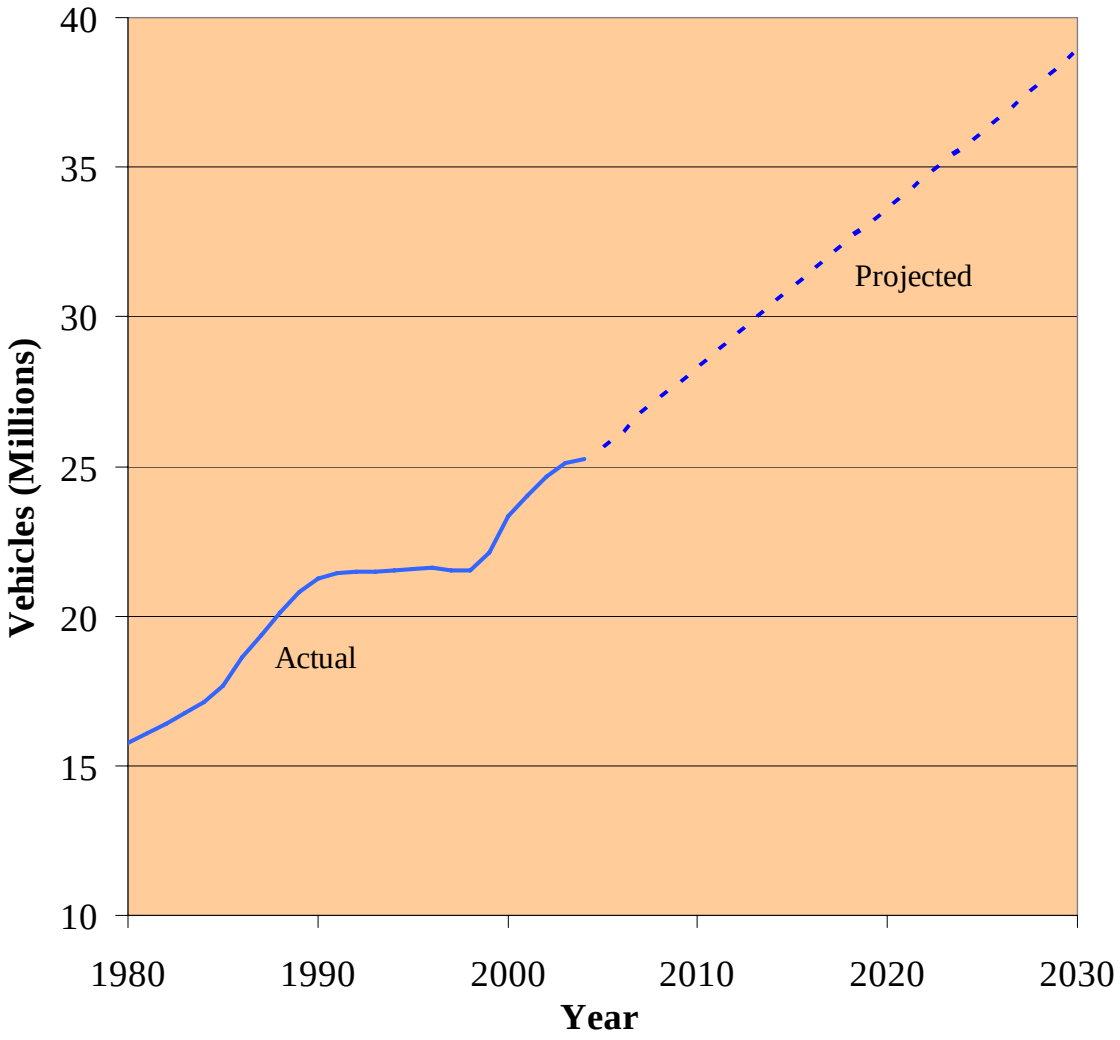


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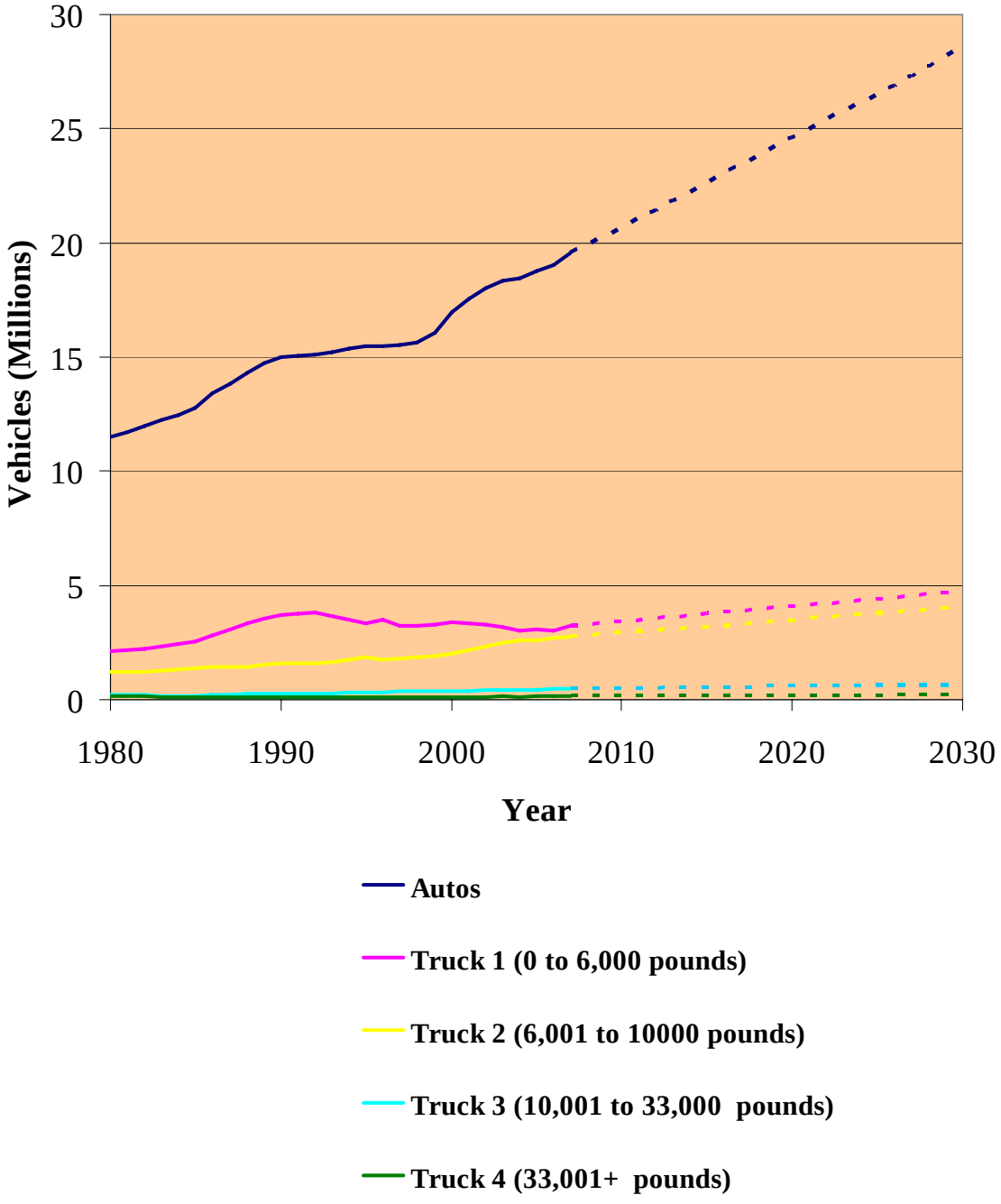
Figure-9

Registered Vehicles by Body Type (2008-2030 Forecast)



Source: Appendix D

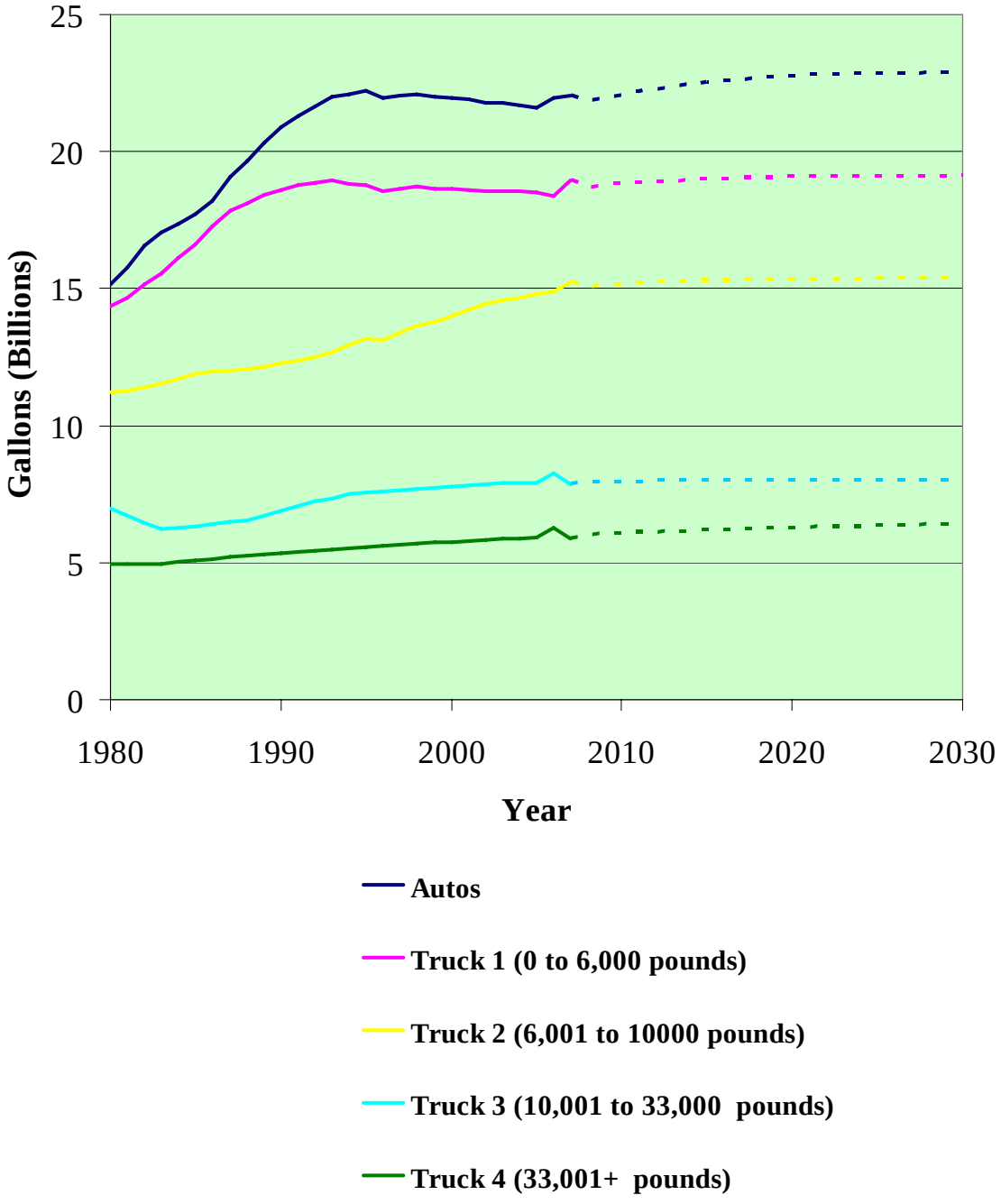
D. Vehicle Fuel Economy

As can be seen from Figure-10, the vehicle fuel economy (VFE) by body type is expected to gradually improve throughout the forecast period. New cars with improved fuel economy will replace the older less fuel-efficient vehicles over time.

VFE by body type and fuel type forecast is listed in Appendix-D. VFE is projected to continuously improve for all strata of vehicles. The greatest improvements are being projected for heavy trucks. Fuel economy of year 2030 automobiles will be 3.6 percent higher than it was in 2007, while the total vehicle fuel economy will be 2.7 percent higher than it was in 2007.

Figure-10

Total Vehicle Fuel Economy by Body Type (2008-2030 Forecasts)



Source: Appendix D

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APPENDIX A

MVSTAFF PROCESS OVERVIEW

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APPENDIX A

MVSTAFF PROCESS OVERVIEW

The MVSTAFF process is a recursive procedure, which estimates, for each year of the forecast period, the following:

- The motor vehicle stock (average number of currently registered vehicles) by six body types, two fuel types, and 25 model years or age groups.
- The fuel economy of the total fleet and each model year.
- The vehicle travel and fuel consumption for the total fleet and each model year.

The process consists of four major parts, which are outlined in Figure-11 and briefly described below.

1. Inventories
   - The base year estimates and future year projections of the socioeconomic variables are assumed to be the causative factors for acquiring vehicles and generating travel, base year fuel consumption, and explicit assumptions about new vehicle fuel economy.
   - The base year vehicle stock is stratified by vehicle type and model year, and derived estimates of the on-road fuel economy for each stratum of vehicles in the base year fleet.

2. The Stratified Rate Model

   - When applied to the base year inventory, this model estimates base year vehicle travel, fuel consumption and fuel economy for each vehicle type and the total fleet.
   - When applied in the forecasting mode, the Stratified Rate Model first updates the composition and fuel economy of the fleet by one year and then estimates the next year's stratified fleet, vehicle travel, fuel consumption and fuel economy.
   - Imbedded in the Stratified Rate Model are sub-models, which forecast the total number of vehicles by vehicle type, new vehicles, in-migration vehicles, and scrap value of old vehicles and the fuel economy of new vehicles under explicit socioeconomic assumptions.

3. The Statewide Aggregate VMT and VFC Model

   - The Statewide Aggregate model accepts the vehicle fleet fuel economy from the Stratified Rate Model and socioeconomic data from the inventory. It estimates next year's statewide total VMT and VFC without regard to vehicle body type. Because the Statewide Aggregate Model is more directly linked to socioeconomic variables, the VMT forecasts from the model are used as control totals for the forecast years.

4. Comparison/Adjustment Model

- The Comparison/Adjustment Model compares and adjusts the total VMT and VFC from the Stratified Rate Model to match that from the Aggregate Model. As part of the comparison/adjustment process, statewide total diesel fuel is forecasted with a Diesel Fuel Consumption Model, and gasoline fuel is computed as the difference between total fuel and diesel fuel. Following the comparison/adjustment step, future year VMT, VFC, and VFE for each vehicle type are calculated.

The above sequence produces the "next year" forecast. The process is then recursively applied to produce forecasts for each succeeding year in the forecast period.

Statewide VMT from the above process is then distributed to the 58 counties and two major road systems, which are State Highways and non-State Highways as follows:

- For the base year, county VMT data on the State Highways prior to 2006 used to be derived from the Department's Division of Traffic Operations' annual Traffic Accident Surveillance and Analysis System (TASAS) file. For the sake of consistency, county VMT on State Highways for this report was obtained from the Department's Division of Transportation System Information's Highway Performance Monitoring System (HPMS). HPMS will be the source of VMT data for our forecasting model.

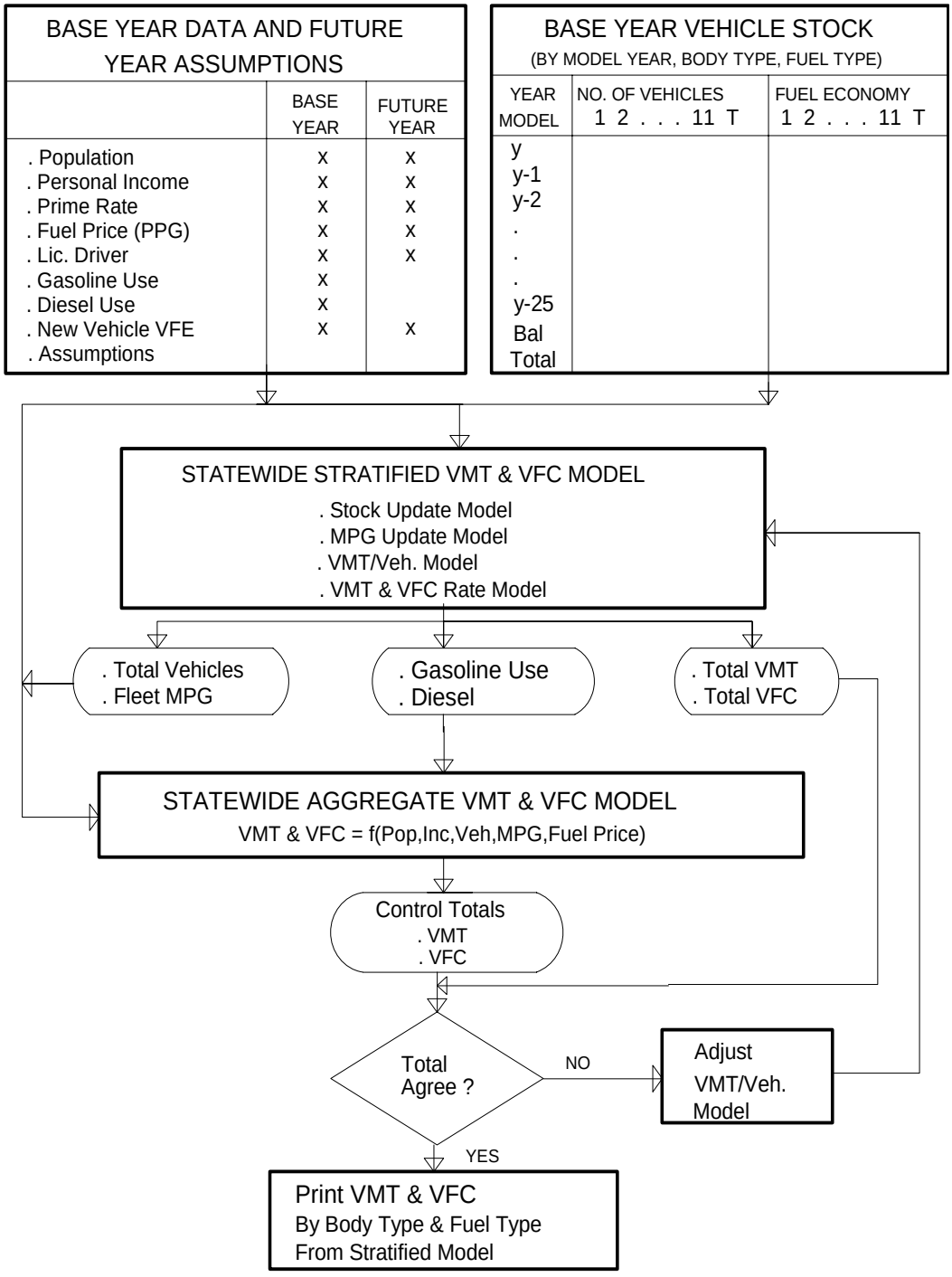
- County VMT on non-State Highways is calculated as: Statewide total VMT from HPMS minus State Highway VMT from HPMS. Statewide VMT is then allocated to each county on the basis of the relative distribution of the quantity, "county automobile registration multiplied by the proportion of local road mileage to the total system mileage."

- For future years, the Statewide VMT from MVSTAFF is distributed by applying county-specific, annualized growth rates to the base year county estimates described above. The county-specific growth rates are calculated from county population estimates recently published by the Department of Finance. The annualized rates are normalized so that the sum of counties' VMT equals the MVSTAFF Statewide VMT.

Statewide VFC is distributed to the 58 counties and the two fuel types, gasoline and diesel, using estimates of county VMT, and statewide estimates of VFE.

Figure-11

MOTOR VEHICLE STOCK, TRAVEL AND FUEL FORECASTING PROCESS



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APPENDIX B

VEHICLE MILES TRAVELED
BY COUNTY AND ROAD SYSTEM

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TABLE 2 - 1990 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	7152.00	4279.34	11431.34
ALPINE	41.00	7.26	48.26
AMADOR	223.00	61.62	284.62
BUTTE	540.00	915.46	1455.46
CALAVERAS	215.00	89.56	304.56
COLUSA	347.00	102.24	449.24
CONTRA COSTA	3445.00	3246.37	6691.37
DEL NORTE	150.00	61.12	211.12
EL DORADO	757.00	474.89	1231.89
FRESNO	2066.00	3172.68	5238.68
GLENN	290.00	91.58	381.58
HUMBOLDT	661.00	408.30	1069.30
IMPERIAL	800.00	452.90	1252.90
INYO	382.00	65.50	447.50
KERN	3275.00	2022.72	5297.72
KINGS	489.00	417.38	906.38
LAKE	256.00	120.89	376.89
LASSEN	265.00	200.68	465.68
LOS ANGELES	34243.00	37622.04	71865.04
MADERA	655.00	281.27	936.27
MARIN	1409.00	1082.73	2491.73
MARIPOSA	105.00	103.37	208.37
MENDOCINO	619.00	346.64	965.64
MERCED	1289.00	470.88	1759.88
MODOC	83.00	60.08	143.08
MONO	276.00	24.40	300.40
MONTEREY	1710.00	1372.50	3082.50
NAPA	531.00	356.07	887.07
NEVADA	565.00	308.77	873.77
ORANGE	11304.00	11466.12	22770.12
PLACER	1295.00	702.97	1997.97
PLUMAS	160.00	99.83	259.83
RIVERSIDE	7170.00	4289.73	11459.73
SACRAMENTO	3771.00	5032.58	8803.58
SAN BENITO	255.00	94.00	349.00
SAN BERNARDINO	8593.00	4624.41	13217.41
SAN DIEGO	12088.00	9415.59	21503.59
SAN FRANCISCO	1441.00	2191.84	3632.84
SAN JOAQUIN	2415.00	1931.91	4346.91
SAN LUIS OBISPO	1482.00	698.93	2180.93
SAN MATEO	4212.00	2003.60	6215.60
SANTA BARBARA	1963.00	1055.18	3018.18
SANTA CLARA	5915.00	7116.81	13031.81
SANTA CRUZ	892.00	846.48	1738.48
SHASTA	973.00	614.11	1587.11
SIERRA	60.00	29.92	89.92
SISKIYOU	570.00	199.75	769.75
SOLANO	2381.00	970.85	3351.85
SONOMA	1605.00	1426.00	3031.00
STANISLAUS	1268.00	1509.91	2777.91
SUTTER	320.00	275.18	595.18
TEHAMA	516.00	215.30	731.30
TRINITY	117.00	25.27	142.27
TULARE	1173.00	1300.11	2473.11
TUOLUMNE	291.00	190.49	481.49
VENTURA	2931.00	2464.49	5395.49
YOLO	979.00	533.31	1512.31
YUBA	230.00	250.14	480.14
TOTAL	139209.00	119794.00	259003.00

TABLE 2 -1995 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	7446.09	4978.72	12424.81
ALPINE	42.03	8.26	50.29
AMADOR	245.67	84.15	329.82
BUTTE	607.92	981.74	1589.66
CALAVERAS	250.21	115.48	365.69
COLUSA	392.99	109.17	502.16
CONTRA COSTA	3643.81	3466.37	7110.18
DEL NORTE	157.38	67.82	225.20
EL DORADO	802.62	660.85	1463.47
FRESNO	2349.32	3697.81	6047.13
GLENN	322.62	120.54	443.16
HUMBOLDT	686.71	442.61	1129.31
IMPERIAL	880.31	502.49	1382.80
INYO	373.18	72.67	445.85
KERN	3692.82	2365.44	6058.26
KINGS	517.07	450.22	967.30
LAKE	298.37	159.67	458.04
LASSEN	313.74	243.39	557.12
LOS ANGELES	35077.90	38915.50	73993.39
MADERA	778.42	345.04	1123.45
MARIN	1433.79	1123.36	2557.15
MARIPOSA	125.36	114.46	239.82
MENDOCINO	646.97	419.62	1066.59
MERCED	1349.18	740.42	2089.60
MODOC	92.55	68.09	160.64
MONO	251.33	26.73	278.06
MONTEREY	1803.91	1421.39	3225.30
NAPA	536.26	373.58	909.84
NEVADA	634.53	344.08	978.61
ORANGE	11224.33	11905.61	23129.94
PLACER	1489.99	1039.48	2529.47
PLUMAS	180.79	109.29	290.08
RIVERSIDE	7380.95	4928.49	12309.44
SACRAMENTO	4193.16	5100.00	9293.17
SAN BENITO	285.83	119.00	404.83
SAN BERNARDINO	9716.70	5973.94	15690.64
SAN DIEGO	12603.49	10450.81	23054.29
SAN FRANCISCO	1503.31	2221.68	3725.00
SAN JOAQUIN	2818.12	2100.81	4918.93
SAN LUIS OBISPO	1557.01	767.08	2324.08
SAN MATEO	4271.22	2162.86	6434.08
SANTA BARBARA	2016.74	1165.38	3182.11
SANTA CLARA	6202.18	7372.17	13574.35
SANTA CRUZ	964.58	901.87	1866.45
SHASTA	1076.58	674.75	1751.32
SIERRA	57.84	28.71	86.54
SISKIYOU	579.60	279.89	859.49
SOLANO	2612.95	1109.65	3722.60
SONOMA	1752.95	1604.53	3357.48
STANISLAUS	1373.18	2049.39	3422.57
SUTTER	370.76	303.94	674.70
TEHAMA	553.25	235.27	788.52
TRINITY	113.96	31.78	145.74
TULARE	1341.24	1462.09	2803.33
TUOLUMNE	293.84	210.76	504.60
VENTURA	3117.04	2664.82	5781.85
YOLO	1063.66	563.46	1627.12
YUBA	246.73	295.85	542.58
TOTAL	146715.02	130252.97	276968.00

TABLE 2 - 2000 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	8532.97	5493.26	14026.23
ALPINE	44.50	12.42	56.92
AMADOR	261.41	106.56	367.96
BUTTE	642.61	1357.71	2000.32
CALAVERAS	243.50	142.45	385.95
COLUSA	406.61	116.19	522.80
CONTRA COSTA	4220.38	3731.08	7951.46
DEL NORTE	153.90	87.40	241.30
EL DORADO	845.42	772.74	1618.15
FRESNO	2709.15	4116.97	6826.12
GLENN	308.51	130.73	439.23
HUMBOLDT	702.81	509.31	1212.12
IMPERIAL	1105.72	537.66	1643.38
INYO	404.91	115.70	520.61
KERN	4192.58	2823.80	7016.38
KINGS	649.41	459.34	1108.75
LAKE	308.41	184.27	492.68
LASSEN	295.61	284.16	579.76
LOS ANGELES	37403.34	41684.07	79087.42
MADERA	899.12	421.76	1320.88
MARIN	1552.53	1225.94	2778.47
MARIPOSA	122.00	139.32	261.33
MENDOCINO	689.41	449.63	1139.05
MERCED	1485.53	729.63	2215.16
MODOC	80.50	108.53	189.03
MONO	237.40	56.44	293.84
MONTEREY	2038.84	1544.55	3583.39
NAPA	675.51	473.89	1149.40
NEVADA	699.61	385.49	1085.10
ORANGE	12808.05	13008.40	25816.45
PLACER	1721.23	1188.51	2909.75
PLUMAS	176.20	178.07	354.27
RIVERSIDE	8394.67	5709.84	14104.51
SACRAMENTO	4959.70	5443.63	10403.33
SAN BENITO	347.11	185.87	532.97
SAN BERNARDINO	10485.91	6687.92	17173.83
SAN DIEGO	14770.09	11364.97	26135.06
SAN FRANCISCO	1562.73	2288.85	3851.58
SAN JOAQUIN	3116.56	2354.44	5471.00
SAN LUIS OBISPO	1734.24	896.26	2630.49
SAN MATEO	4910.60	2475.69	7386.29
SANTA BARBARA	2221.04	1345.26	3566.31
SANTA CLARA	7670.65	7736.80	15407.45
SANTA CRUZ	1011.82	1025.19	2037.01
SHASTA	1070.02	829.13	1899.15
SIERRA	65.80	44.72	110.53
SISKIYOU	579.41	301.58	880.99
SOLANO	2929.86	1337.42	4267.28
SONOMA	1898.84	1764.11	3662.94
STANISLAUS	1389.73	1995.87	3385.59
SUTTER	393.71	350.79	744.50
TEHAMA	560.41	273.79	834.20
TRINITY	110.60	72.92	183.53
TULARE	1510.93	1566.26	3077.19
TUOLUMNE	300.71	266.18	566.89
VENTURA	3482.67	2939.11	6421.78
YOLO	1182.92	657.31	1840.24
YUBA	278.61	324.13	602.74
TOTAL	163557.00	142814.00	306371.00

TABLE 2 - 2005 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	8880.00	5439.89	14319.89
ALPINE	52.10	13.31	65.41
AMADOR	323.70	81.52	405.22
BUTTE	701.20	1096.91	1798.11
CALAVERAS	295.50	125.15	420.65
COLUSA	492.3	126.03	618.33
CONTRA COSTA	4760.30	3774.26	8534.56
DEL NORTE	162.20	110.59	272.79
EL DORADO	892.30	799.76	1692.06
FRESNO	3453.50	4515.26	7968.76
GLENN	359.50	146.64	506.14
HUMBOLDT	728.30	511.46	1239.76
IMPERIAL	1276.90	630.72	1907.62
INYO	407.10	145.50	552.60
KERN	4801.20	3324.68	8125.88
KINGS	777.00	568.70	1345.70
LAKE	353.40	195.71	549.11
LASSEN	294.40	288.71	583.11
LOS ANGELES	39906.10	39579.02	79485.12
MADERA	1071.90	416.81	1488.71
MARIN	1592.40	1337.79	2930.19
MARIPOSA	133.40	142.17	275.57
MENDOCINO	717.60	445.61	1163.21
MERCED	1799.30	810.37	2609.67
MODOC	85.70	115.47	201.17
MONO	244.50	57.52	302.02
MONTEREY	2018.40	1586.30	3604.70
NAPA	711.20	443.91	1155.11
NEVADA	676.00	404.76	1080.76
ORANGE	13948.60	12174.05	26122.65
PLACER	1872.20	1607.68	3479.88
PLUMAS	174.30	176.33	350.63
RIVERSIDE	11295.90	7665.07	18960.97
SACRAMENTO	5591.70	6141.25	11732.95
SAN BENITO	355.40	172.05	527.45
SAN BERNARDINO	12877.40	8222.78	21100.18
SAN DIEGO	16405.90	12069.59	28475.49
SAN FRANCISCO	1316.20	2004.16	3320.36
SAN JOAQUIN	4089.50	2483.59	6573.09
SAN LUIS OBISPO	1906.20	988.76	2894.96
SAN MATEO	4717.10	2130.45	6847.55
SANTA BARBARA	2371.00	1323.90	3694.90
SANTA CLARA	8015.60	6894.34	14909.94
SANTA CRUZ	1053.60	1007.74	2061.34
SHASTA	1170.50	774.02	1944.52
SIERRA	62.20	49.51	111.71
SISKIYOU	594.00	303.43	897.43
SOLANO	3282.30	1467.80	4750.10
SONOMA	2122.20	1768.02	3890.22
STANISLAUS	1913.10	2211.93	4125.03
SUTTER	496.20	370.20	866.40
TEHAMA	630.70	266.83	897.53
TRINITY	120.70	60.77	181.47
TULARE	1772.90	1743.43	3516.33
TUOLUMNE	343.00	292.81	635.81
VENTURA	3761.00	2865.05	6626.05
YOLO	1309.10	765.02	2074.12
YUBA	336.40	338.30	674.70
TOTAL	181872.30	145573.38	327445.68

TABLE 2 - 2006 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9002.45	5352.16	14354.61
ALPINE	52.54	13.45	65.99
AMADOR	341.34	94.15	435.49
BUTTE	670.46	1090.92	1761.38
CALAVERAS	299.51	126.64	426.15
COLUSA	491.34	124.03	615.37
CONTRA COSTA	4700.58	3739.80	8440.38
DEL NORTE	166.42	88.00	254.42
EL DORADO	898.01	809.45	1707.46
FRESNO	3524.34	4579.06	8103.40
GLENN	357.31	149.65	506.96
HUMBOLDT	816.88	493.02	1309.90
IMPERIAL	1326.85	629.11	1955.96
INYO	426.60	112.70	539.30
KERN	5074.02	3102.08	8176.10
KINGS	788.59	563.20	1351.79
LAKE	390.77	209.51	600.28
LASSEN	295.30	228.88	524.18
LOS ANGELES	39922.92	39443.96	79366.88
MADERA	1121.26	436.55	1557.81
MARIN	1705.09	1218.87	2923.96
MARIPOSA	124.17	134.06	258.23
MENDOCINO	730.53	432.19	1162.72
MERCED	1795.46	824.86	2620.32
MODOC	82.82	122.16	204.98
MONO	260.35	57.67	318.02
MONTEREY	2123.54	1494.83	3618.37
NAPA	715.16	434.60	1149.76
NEVADA	778.18	420.82	1199.00
ORANGE	13837.17	12343.15	26180.32
PLACER	1958.54	1520.72	3479.26
PLUMAS	179.69	162.35	342.04
RIVERSIDE	11327.61	8048.49	19376.10
SACRAMENTO	5622.79	6335.40	11958.19
SAN BENITO	397.69	143.69	541.38
SAN BERNARDINO	13870.25	7818.21	21688.46
SAN DIEGO	17082.48	11246.24	28328.72
SAN FRANCISCO	1478.21	1968.38	3446.59
SAN JOAQUIN	4226.80	2497.14	6723.94
SAN LUIS OBISPO	1955.34	983.73	2939.07
SAN MATEO	4501.05	2167.19	6668.24
SANTA BARBARA	2368.97	1321.27	3690.24
SANTA CLARA	8099.18	7296.87	15396.05
SANTA CRUZ	1051.95	971.40	2023.35
SHASTA	1203.03	780.76	1983.79
SIERRA	63.82	45.86	109.68
SISKIYOU	620.20	310.60	930.80
SOLANO	3218.75	1415.88	4634.63
SONOMA	2062.56	1812.29	3874.85
STANISLAUS	1910.11	2198.98	4109.09
SUTTER	515.25	373.16	888.41
TEHAMA	645.60	317.79	963.39
TRINITY	121.95	55.49	177.44
TULARE	1820.93	1734.21	3555.14
TUOLUMNE	348.03	299.17	647.20
VENTURA	3795.36	2996.95	6792.31
YOLO	1419.84	706.10	2125.94
YUBA	347.91	343.34	691.25
TOTAL	185033.83	144741.23	329775.06

TABLE 2 - 2007 ESTIMATED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	8969.56	5043.49	14013.05
ALPINE	45.72	13.45	59.18
AMADOR	352.11	94.54	446.65
BUTTE	697.58	1086.11	1783.69
CALAVERAS	279.52	126.53	406.05
COLUSA	481.41	123.56	604.97
CONTRA COSTA	4513.46	3814.82	8328.28
DEL NORTE	175.90	88.00	263.90
EL DORADO	873.08	782.48	1655.56
FRESNO	3388.94	4811.17	8200.11
GLENN	358.67	141.22	499.89
HUMBOLDT	773.60	499.51	1273.12
IMPERIAL	1350.01	631.85	1981.86
INYO	415.64	113.47	529.11
KERN	5129.21	3061.94	8191.15
KINGS	824.12	592.29	1416.41
LAKE	374.94	214.61	589.55
LASSEN	290.02	225.99	516.02
LOS ANGELES	39950.34	39629.53	79579.87
MADERA	1123.39	436.46	1559.85
MARIN	1676.56	1218.04	2894.60
MARIPOSA	128.64	133.58	262.21
MENDOCINO	762.21	433.32	1195.53
MERCED	1746.79	835.56	2582.35
MODOC	96.31	114.14	210.45
MONO	255.37	64.02	319.40
MONTEREY	2143.93	1503.10	3647.02
NAPA	723.47	480.20	1203.67
NEVADA	764.17	433.35	1197.52
ORANGE	14585.36	12634.33	27219.69
PLACER	1942.72	1536.06	3478.78
PLUMAS	190.22	162.15	352.37
RIVERSIDE	11412.98	8146.92	19559.90
SACRAMENTO	5632.34	6241.26	11873.60
SAN BENITO	365.13	143.69	508.82
SAN BERNARDINO	13602.70	7783.00	21385.69
SAN DIEGO	16701.15	11212.53	27913.68
SAN FRANCISCO	1500.73	1967.70	3468.42
SAN JOAQUIN	4050.85	2485.34	6536.20
SAN LUIS OBISPO	1985.13	983.73	2968.86
SAN MATEO	4528.83	2166.72	6695.55
SANTA BARBARA	2449.40	1350.30	3799.70
SANTA CLARA	7909.58	7367.04	15276.62
SANTA CRUZ	1018.44	963.01	1981.45
SHASTA	1189.51	783.41	1972.92
SIERRA	63.38	45.86	109.24
SISKIYOU	649.38	299.00	948.39
SOLANO	3253.59	1427.73	4681.32
SONOMA	2188.18	1948.68	4136.86
STANISLAUS	1893.16	2213.25	4106.41
SUTTER	543.69	374.55	918.24
TEHAMA	661.23	315.18	976.41
TRINITY	131.13	55.16	186.29
TULARE	1936.85	1792.55	3729.41
TUOLUMNE	347.74	300.52	648.27
VENTURA	3766.77	3084.31	6851.08
YOLO	1386.04	669.73	2055.77
YUBA	343.37	320.48	663.85
TOTAL	184894.26	145520.57	330414.82

TABLE 2 - 2008 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9039.16	5082.63	14121.79
ALPINE	46.08	13.56	59.64
AMADOR	354.84	95.28	450.12
BUTTE	702.99	1094.54	1797.53
CALAVERAS	281.69	127.51	409.20
COLUSA	485.15	124.51	609.66
CONTRA COSTA	4548.48	3844.42	8392.90
DEL NORTE	177.26	88.68	265.95
EL DORADO	879.85	788.56	1668.41
FRESNO	3415.23	4848.51	8263.74
GLENN	361.45	142.32	503.77
HUMBOLDT	779.61	503.39	1283.00
IMPERIAL	1360.48	636.75	1997.23
INYO	418.87	114.35	533.21
KERN	5169.01	3085.70	8254.71
KINGS	830.51	596.89	1427.40
LAKE	377.85	216.27	594.12
LASSEN	292.27	227.75	520.02
LOS ANGELES	40260.34	39937.03	80197.37
MADERA	1132.11	439.84	1571.95
MARIN	1689.57	1227.49	2917.06
MARIPOSA	129.64	134.61	264.25
MENDOCINO	768.13	436.68	1204.81
MERCED	1760.35	842.05	2602.39
MODOC	97.05	115.03	212.08
MONO	257.35	64.52	321.88
MONTEREY	2160.56	1514.76	3675.32
NAPA	729.08	483.93	1213.01
NEVADA	770.10	436.72	1206.82
ORANGE	14698.54	12732.36	27430.90
PLACER	1957.79	1547.98	3505.78
PLUMAS	191.70	163.41	355.10
RIVERSIDE	11501.54	8210.14	19711.68
SACRAMENTO	5676.04	6289.69	11965.73
SAN BENITO	367.96	144.81	512.77
SAN BERNARDINO	13708.25	7843.39	21551.64
SAN DIEGO	16830.74	11299.53	28130.28
SAN FRANCISCO	1512.37	1982.97	3495.34
SAN JOAQUIN	4082.29	2504.63	6586.92
SAN LUIS OBISPO	2000.54	991.36	2991.90
SAN MATEO	4563.97	2183.54	6747.50
SANTA BARBARA	2468.41	1360.78	3829.19
SANTA CLARA	7970.95	7424.20	15395.15
SANTA CRUZ	1026.34	970.48	1996.83
SHASTA	1198.74	789.49	1988.23
SIERRA	63.87	46.22	110.09
SISKIYOU	654.42	301.32	955.75
SOLANO	3278.83	1438.81	4717.65
SONOMA	2205.16	1963.80	4168.96
STANISLAUS	1907.85	2230.42	4138.27
SUTTER	547.91	377.45	925.37
TEHAMA	666.36	317.63	983.99
TRINITY	132.15	55.59	187.74
TULARE	1951.88	1806.46	3758.34
TUOLUMNE	350.44	302.85	653.30
VENTURA	3796.00	3108.24	6904.24
YOLO	1396.80	674.93	2071.73
YUBA	346.04	322.96	669.00
TOTAL	186328.95	146649.73	332978.68

TABLE 2 - 2010 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	9380.31	5274.46	14654.77
ALPINE	47.82	14.07	61.89
AMADOR	368.24	98.87	467.11
BUTTE	729.52	1135.85	1865.37
CALAVERAS	292.32	132.33	424.65
COLUSA	503.46	129.21	632.67
CONTRA COSTA	4720.15	3989.51	8709.66
DEL NORTE	183.95	92.03	275.98
EL DORADO	913.06	818.32	1731.37
FRESNO	3544.13	5031.50	8575.63
GLENN	375.10	147.69	522.79
HUMBOLDT	809.03	522.39	1331.42
IMPERIAL	1411.83	660.78	2072.61
INYO	434.67	118.66	553.34
KERN	5364.09	3202.16	8566.26
KINGS	861.85	619.42	1481.27
LAKE	392.11	224.43	616.55
LASSEN	303.30	236.34	539.65
LOS ANGELES	41779.83	41444.33	83224.16
MADERA	1174.83	456.44	1631.28
MARIN	1753.34	1273.82	3027.16
MARIPOSA	134.53	139.69	274.22
MENDOCINO	797.12	453.16	1250.28
MERCED	1826.78	873.83	2700.61
MODOC	100.72	119.37	220.09
MONO	267.07	66.96	334.02
MONTEREY	2242.11	1571.93	3814.03
NAPA	756.60	502.20	1258.79
NEVADA	799.17	453.20	1252.36
ORANGE	15253.29	13212.90	28466.19
PLACER	2031.69	1606.41	3638.09
PLUMAS	198.93	169.57	368.50
RIVERSIDE	11935.63	8520.00	20455.63
SACRAMENTO	5890.27	6527.08	12417.34
SAN BENITO	381.85	150.27	532.12
SAN BERNARDINO	14225.62	8139.41	22365.03
SAN DIEGO	17465.97	11726.00	29191.97
SAN FRANCISCO	1569.45	2057.81	3627.26
SAN JOAQUIN	4236.36	2599.16	6835.52
SAN LUIS OBISPO	2076.04	1028.78	3104.82
SAN MATEO	4736.22	2265.95	7002.17
SANTA BARBARA	2561.57	1412.14	3973.71
SANTA CLARA	8271.79	7704.41	15976.20
SANTA CRUZ	1065.08	1007.11	2072.19
SHASTA	1243.98	819.29	2063.26
SIERRA	66.28	47.96	114.25
SISKIYOU	679.12	312.70	991.82
SOLANO	3402.58	1493.12	4895.70
SONOMA	2288.39	2037.92	4326.31
STANISLAUS	1979.86	2314.60	4294.46
SUTTER	568.59	391.70	960.29
TEHAMA	691.51	329.62	1021.13
TRINITY	137.14	57.68	194.82
TULARE	2025.55	1874.64	3900.19
TUOLUMNE	363.67	314.28	677.95
VENTURA	3939.27	3225.55	7164.82
YOLO	1449.52	700.40	2149.92
YUBA	359.10	335.15	694.25
TOTAL	193361.34	152184.56	345545.90

TABLE 2 - 2015 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	10684.66	6007.88	16692.53
ALPINE	54.47	16.03	70.49
AMADOR	419.44	112.62	532.06
BUTTE	830.96	1293.79	2124.75
CALAVERAS	332.97	150.73	483.69
COLUSA	573.47	147.18	720.65
CONTRA COSTA	5376.50	4544.26	9920.75
DEL NORTE	209.53	104.83	314.36
EL DORADO	1040.02	932.10	1972.12
FRESNO	4036.95	5731.13	9768.08
GLENN	427.25	168.23	595.48
HUMBOLDT	921.53	595.03	1516.55
IMPERIAL	1608.15	752.67	2360.81
INYO	495.12	135.16	630.28
KERN	6109.98	3647.43	9757.41
KINGS	981.70	705.55	1687.24
LAKE	446.64	255.64	702.28
LASSEN	345.48	269.21	614.68
LOS ANGELES	47589.37	47207.22	94796.59
MADERA	1338.20	519.91	1858.11
MARIN	1997.14	1450.95	3448.09
MARIPOSA	153.23	159.12	312.35
MENDOCINO	907.96	516.18	1424.13
MERCED	2080.80	995.33	3076.13
MODOC	114.72	135.97	250.69
MONO	304.20	76.27	380.47
MONTEREY	2553.87	1790.51	4344.38
NAPA	861.80	572.03	1433.83
NEVADA	910.29	516.22	1426.51
ORANGE	17374.28	15050.18	32424.45
PLACER	2314.19	1829.78	4143.97
PLUMAS	226.59	193.15	419.74
RIVERSIDE	13595.30	9704.72	23300.02
SACRAMENTO	6709.31	7434.67	14143.99
SAN BENITO	434.94	171.17	606.11
SAN BERNARDINO	16203.71	9271.21	25474.92
SAN DIEGO	19894.63	13356.51	33251.15
SAN FRANCISCO	1787.69	2343.95	4131.63
SAN JOAQUIN	4825.43	2960.57	7786.00
SAN LUIS OBISPO	2364.72	1171.83	3536.55
SAN MATEO	5394.80	2581.03	7975.83
SANTA BARBARA	2917.76	1608.50	4526.26
SANTA CLARA	9421.99	8775.71	18197.71
SANTA CRUZ	1213.18	1147.15	2360.33
SHASTA	1416.96	933.21	2350.16
SIERRA	75.50	54.63	130.13
SISKIYOU	773.55	356.18	1129.73
SOLANO	3875.72	1700.74	5576.45
SONOMA	2606.59	2321.29	4927.89
STANISLAUS	2255.16	2636.45	4891.61
SUTTER	647.65	446.17	1093.82
TEHAMA	787.66	375.45	1163.11
TRINITY	156.21	65.71	221.91
TULARE	2307.21	2135.31	4442.52
TUOLUMNE	414.24	357.99	772.22
VENTURA	4487.03	3674.07	8161.10
YOLO	1651.07	797.79	2448.87
YUBA	409.03	381.76	790.79
TOTAL	220248.48	173346.02	393594.50

TABLE 2 - 2020 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	11846.16	6660.98	18507.13
ALPINE	60.39	17.77	78.16
AMADOR	465.04	124.86	589.90
BUTTE	921.29	1434.44	2355.73
CALAVERAS	369.16	167.11	536.28
COLUSA	635.81	163.18	798.99
CONTRA COSTA	5960.96	5038.25	10999.22
DEL NORTE	232.31	116.22	348.53
EL DORADO	1153.08	1033.43	2186.51
FRESNO	4475.79	6354.15	10829.95
GLENN	473.70	186.51	660.21
HUMBOLDT	1021.70	659.71	1681.41
IMPERIAL	1782.96	834.49	2617.45
INYO	548.94	149.86	698.80
KERN	6774.18	4043.93	10818.11
KINGS	1088.41	782.25	1870.66
LAKE	495.19	283.43	778.62
LASSEN	383.03	298.47	681.50
LOS ANGELES	52762.70	52339.00	105101.69
MADERA	1483.67	576.43	2060.10
MARIN	2214.25	1608.68	3822.92
MARIPOSA	169.89	176.41	346.31
MENDOCINO	1006.66	572.29	1578.95
MERCED	2307.00	1103.53	3410.53
MODOC	127.19	150.75	277.94
MONO	337.27	84.56	421.83
MONTEREY	2831.50	1985.15	4816.65
NAPA	955.49	634.21	1589.70
NEVADA	1009.25	572.33	1581.58
ORANGE	19262.99	16686.24	35949.23
PLACER	2565.76	2028.69	4594.45
PLUMAS	251.22	214.15	465.37
RIVERSIDE	15073.21	10759.70	25832.90
SACRAMENTO	7438.67	8242.88	15681.55
SAN BENITO	482.23	189.78	672.00
SAN BERNARDINO	17965.18	10279.06	28244.24
SAN DIEGO	22057.33	14808.47	36865.80
SAN FRANCISCO	1982.02	2598.75	4580.77
SAN JOAQUIN	5349.99	3282.41	8632.40
SAN LUIS OBISPO	2621.78	1299.22	3921.00
SAN MATEO	5981.25	2861.61	8842.86
SANTA BARBARA	3234.94	1783.35	5018.30
SANTA CLARA	10446.23	9729.70	20175.93
SANTA CRUZ	1345.06	1271.86	2616.91
SHASTA	1570.99	1034.66	2605.64
SIERRA	83.71	60.57	144.28
SISKIYOU	857.64	394.90	1252.54
SOLANO	4297.04	1885.62	6182.66
SONOMA	2889.95	2573.64	5463.58
STANISLAUS	2500.31	2923.05	5423.37
SUTTER	718.06	494.67	1212.73
TEHAMA	873.29	416.27	1289.55
TRINITY	173.19	72.85	246.04
TULARE	2558.02	2367.44	4925.45
TUOLUMNE	459.27	396.90	856.17
VENTURA	4974.81	4073.47	9048.27
YOLO	1830.56	884.52	2715.08
YUBA	453.50	423.26	876.75
TOTAL	244191.15	192190.03	436381.18

TABLE 2 - 2025 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	12897.45	7252.11	20149.55
ALPINE	65.75	19.35	85.09
AMADOR	506.31	135.94	642.25
BUTTE	1003.06	1561.74	2564.79
CALAVERAS	401.93	181.94	583.87
COLUSA	692.23	177.66	869.89
CONTRA COSTA	6489.97	5485.37	11975.34
DEL NORTE	252.92	126.54	379.46
EL DORADO	1255.41	1125.14	2380.55
FRESNO	4873.00	6918.05	11791.05
GLENN	515.74	203.07	718.80
HUMBOLDT	1112.37	718.26	1830.63
IMPERIAL	1941.19	908.54	2849.74
INYO	597.65	163.16	760.81
KERN	7375.35	4402.81	11778.17
KINGS	1185.01	851.67	2036.67
LAKE	539.13	308.58	847.72
LASSEN	417.03	324.96	741.99
LOS ANGELES	57445.13	56983.83	114428.96
MADERA	1615.34	627.59	2242.92
MARIN	2410.75	1751.44	4162.19
MARIPOSA	184.97	192.07	377.04
MENDOCINO	1095.99	623.08	1719.07
MERCED	2511.73	1201.47	3713.20
MODOC	138.48	164.13	302.61
MONO	367.20	92.06	459.27
MONTEREY	3082.78	2161.32	5244.10
NAPA	1040.28	690.49	1730.78
NEVADA	1098.81	623.12	1721.94
ORANGE	20972.49	18167.07	39139.56
PLACER	2793.46	2208.72	5002.19
PLUMAS	273.52	233.15	506.67
RIVERSIDE	16410.88	11714.57	28125.45
SACRAMENTO	8098.81	8974.40	17073.21
SAN BENITO	525.02	206.62	731.64
SAN BERNARDINO	19559.50	11191.28	30750.77
SAN DIEGO	24014.81	16122.65	40137.46
SAN FRANCISCO	2157.92	2829.38	4987.29
SAN JOAQUIN	5824.78	3573.71	9398.49
SAN LUIS OBISPO	2854.45	1414.52	4268.97
SAN MATEO	6512.06	3115.56	9627.62
SANTA BARBARA	3522.03	1941.62	5463.65
SANTA CLARA	11373.28	10593.16	21966.45
SANTA CRUZ	1464.43	1384.73	2849.15
SHASTA	1710.41	1126.48	2836.88
SIERRA	91.14	65.95	157.08
SISKIYOU	933.76	429.94	1363.70
SOLANO	4678.38	2052.96	6731.34
SONOMA	3146.42	2802.03	5948.45
STANISLAUS	2722.21	3182.46	5904.66
SUTTER	781.78	538.57	1320.35
TEHAMA	950.79	453.21	1404.00
TRINITY	188.56	79.31	267.87
TULARE	2785.03	2577.53	5362.56
TUOLUMNE	500.02	432.13	932.15
VENTURA	5416.30	4434.97	9851.26
YOLO	1993.01	963.02	2956.03
YUBA	493.74	460.82	954.56
TOTAL	265861.93	209245.97	475107.90

TABLE 2 - 2030 PROJECTED VMT BY COUNTY AND ROAD SYSTEM (MILLIONS)

COUNTY	STATE HWY	NON-STATE HWY	TOTAL
ALAMEDA	14455.66	8128.27	22583.93
ALPINE	73.69	21.68	95.37
AMADOR	567.48	152.37	719.84
BUTTE	1124.24	1750.42	2874.66
CALAVERAS	450.49	203.92	654.41
COLUSA	775.86	199.13	974.99
CONTRA COSTA	7274.06	6148.09	13422.15
DEL NORTE	283.48	141.83	425.31
EL DORADO	1407.08	1261.08	2668.16
FRESNO	5461.73	7753.86	13215.59
GLENN	578.05	227.60	805.65
HUMBOLDT	1246.77	805.03	2051.80
IMPERIAL	2175.72	1018.31	3194.03
INYO	669.86	182.87	852.73
KERN	8266.41	4934.74	13201.15
KINGS	1328.17	954.56	2282.73
LAKE	604.27	345.87	950.14
LASSEN	467.41	364.22	831.63
LOS ANGELES	64385.39	63868.35	128253.74
MADERA	1810.49	703.41	2513.90
MARIN	2702.01	1963.04	4665.05
MARIPOSA	207.32	215.27	422.59
MENDOCINO	1228.41	698.36	1926.76
MERCED	2815.19	1346.62	4161.81
MODOC	155.21	183.96	339.17
MONO	411.57	103.18	514.75
MONTEREY	3455.23	2422.44	5877.67
NAPA	1165.96	773.92	1939.88
NEVADA	1231.57	698.41	1929.97
ORANGE	23506.29	20361.93	43868.22
PLACER	3130.96	2475.57	5606.53
PLUMAS	306.56	261.32	567.89
RIVERSIDE	18393.57	13129.87	31523.44
SACRAMENTO	9077.27	10058.64	19135.91
SAN BENITO	588.45	231.58	820.03
SAN BERNARDINO	21922.59	12543.35	34465.94
SAN DIEGO	26916.17	18070.51	44986.68
SAN FRANCISCO	2418.62	3171.21	5589.83
SAN JOAQUIN	6528.50	4005.47	10533.97
SAN LUIS OBISPO	3199.31	1585.41	4784.72
SAN MATEO	7298.82	3491.97	10790.78
SANTA BARBARA	3947.54	2176.20	6123.74
SANTA CLARA	12747.35	11872.98	24620.33
SANTA CRUZ	1641.35	1552.02	3193.38
SHASTA	1917.05	1262.57	3179.62
SIERRA	102.15	73.91	176.06
SISKIYOU	1046.57	481.89	1528.45
SOLANO	5243.60	2300.99	7544.58
SONOMA	3526.55	3140.56	6667.11
STANISLAUS	3051.09	3566.95	6618.04
SUTTER	876.24	603.64	1479.87
TEHAMA	1065.66	507.96	1573.62
TRINITY	211.34	88.90	300.24
TULARE	3121.50	2888.94	6010.44
TUOLUMNE	560.43	484.33	1044.77
VENTURA	6070.67	4970.78	11041.45
YOLO	2233.80	1079.36	3313.16
YUBA	553.39	516.49	1069.89
TOTAL	297982.14	234526.11	532508.25

APPENDIX C

VEHICLE FUEL CONSUMPTION BY COUNTY AND FUEL TYPE

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TABLE 3 - 2000 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	653.376	99.330	752.706
ALPINE	2.650	0.408	3.059
AMADOR	17.115	2.774	19.889
BUTTE	93.391	12.767	106.159
CALAVERAS	18.011	2.522	20.532
COLUSA	23.092	12.050	35.142
CONTRA COSTA	370.883	53.103	423.986
DEL NORTE	11.149	2.315	13.464
EL DORADO	75.557	10.273	85.830
FRESNO	312.772	82.791	395.564
GLENN	19.630	8.607	28.237
HUMBOLDT	55.975	11.817	67.792
IMPERIAL	74.419	25.761	100.180
INYO	24.033	5.132	29.165
KERN	311.269	152.750	464.019
KINGS	50.008	18.711	68.718
LAKE	22.908	3.768	26.676
LASSEN	26.499	7.467	33.966
LOS ANGELES	3687.244	539.173	4226.416
MADERA	59.295	24.142	83.437
MARIN	130.150	14.896	145.046
MARIPOSA	12.286	1.104	13.390
MENDOCINO	52.947	8.813	61.759
MERCED	99.248	41.765	141.012
MODOC	8.630	2.498	11.128
MONO	13.547	3.015	16.562
MONTEREY	165.433	35.240	200.673
NAPA	53.296	9.764	63.060
NEVADA	49.821	12.489	62.310
ORANGE	1206.531	156.766	1363.297
PLACER	134.639	26.590	161.229
PLUMAS	16.343	3.567	19.910
RIVERSIDE	646.122	172.030	818.152
SACRAMENTO	483.659	79.986	563.645
SAN BENITO	24.345	6.965	31.310
SAN BERNARDINO	783.827	228.658	1012.485
SAN DIEGO	1222.122	154.059	1376.181
SAN FRANCISCO	181.247	15.156	196.403
SAN JOAQUIN	247.292	88.785	336.077
SAN LUIS OBISPO	121.548	25.156	146.704
SAN MATEO	346.404	36.871	383.275
SANTA BARBARA	165.768	27.635	193.403
SANTA CLARA	721.112	86.635	807.748
SANTA CRUZ	95.487	10.465	105.953
SHASTA	86.176	28.616	114.792
SIERRA	5.008	1.714	6.722
SISKIYOU	38.758	21.333	60.091
SOLANO	197.171	40.874	238.045
SONOMA	170.175	28.941	199.116
STANISLAUS	155.259	40.195	195.454
SUTTER	34.613	5.723	40.336
TEHAMA	37.278	16.373	53.651
TRINITY	8.432	2.073	10.505
TULARE	139.093	49.922	189.015
TUOLUMNE	26.480	3.533	30.013
VENTURA	299.855	40.762	340.617
YOLO	84.187	23.197	107.384
YUBA	27.976	4.935	32.911
TOTAL	14201.540	2632.760	16834.300

TABLE 3 - 2005 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	666.346	102.042	768.389
ALPINE	3.044	0.453	3.497
AMADOR	18.856	3.372	22.228
BUTTE	83.671	14.229	97.900
CALAVERAS	19.574	2.947	22.521
COLUSA	28.773	14.615	43.387
CONTRA COSTA	397.138	50.621	447.759
DEL NORTE	12.694	2.255	14.948
EL DORADO	78.736	11.988	90.724
FRESNO	370.809	99.931	470.741
GLENN	23.552	10.813	34.365
HUMBOLDT	57.689	13.376	71.065
IMPERIAL	88.767	28.292	117.059
INYO	25.714	5.741	31.455
KERN	378.121	172.580	550.700
KINGS	62.619	24.244	86.863
LAKE	25.552	5.278	30.830
LASSEN	27.134	7.893	35.027
LOS ANGELES	3698.674	608.814	4307.488
MADERA	69.274	28.281	97.555
MARIN	136.350	13.816	150.166
MARIPOSA	12.823	1.326	14.149
MENDOCINO	54.128	10.540	64.668
MERCED	121.435	47.224	168.659
MODOC	9.361	2.765	12.126
MONO	14.054	3.127	17.181
MONTEREY	167.737	38.902	206.639
NAPA	53.751	7.628	61.379
NEVADA	50.291	13.188	63.479
ORANGE	1215.563	170.525	1386.088
PLACER	161.929	35.250	197.178
PLUMAS	16.316	3.336	19.652
RIVERSIDE	882.309	223.273	1105.583
SACRAMENTO	545.968	93.338	639.306
SAN BENITO	24.544	7.532	32.076
SAN BERNARDINO	981.853	274.020	1255.873
SAN DIEGO	1325.047	181.830	1506.877
SAN FRANCISCO	154.506	14.181	168.687
SAN JOAQUIN	305.865	97.825	403.690
SAN LUIS OBISPO	134.711	27.932	162.643
SAN MATEO	318.636	32.104	350.740
SANTA BARBARA	171.935	27.703	199.638
SANTA CLARA	693.803	85.532	779.335
SANTA CRUZ	95.920	10.797	106.718
SHASTA	90.484	27.558	118.042
SIERRA	5.198	1.616	6.814
SISKIYOU	41.760	18.885	60.645
SOLANO	221.036	34.051	255.087
SONOMA	181.023	27.268	208.291
STANISLAUS	191.950	53.875	245.825
SUTTER	40.316	6.994	47.309
TEHAMA	41.765	16.282	58.046
TRINITY	8.444	1.972	10.416
TULARE	163.625	59.130	222.755
TUOLUMNE	29.586	4.344	33.930
VENTURA	308.330	44.675	353.005
YOLO	96.515	27.946	124.461
YUBA	31.396	7.946	39.342
TOTAL	15237.000	2964.000	18201.000

TABLE 3 - 2006 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	659.544	101.423	760.966
ALPINE	3.032	0.450	3.482
AMADOR	20.009	3.352	23.360
BUTTE	80.929	14.143	95.072
CALAVERAS	19.580	2.929	22.509
COLUSA	28.274	14.526	42.800
CONTRA COSTA	387.805	50.313	438.119
DEL NORTE	11.690	2.241	13.931
EL DORADO	78.452	11.915	90.367
FRESNO	372.323	99.325	471.647
GLENN	23.293	10.747	34.040
HUMBOLDT	60.185	13.295	73.480
IMPERIAL	89.869	28.120	117.990
INYO	24.779	5.706	30.485
KERN	375.663	171.532	547.195
KINGS	62.110	24.097	86.206
LAKE	27.580	5.246	32.826
LASSEN	24.084	7.845	31.929
LOS ANGELES	3646.628	605.117	4251.745
MADERA	71.576	28.109	99.685
MARIN	134.346	13.732	148.078
MARIPOSA	11.865	1.318	13.182
MENDOCINO	53.423	10.476	63.899
MERCED	120.394	46.937	167.332
MODOC	9.418	2.748	12.167
MONO	14.612	3.108	17.720
MONTEREY	166.251	38.666	204.917
NAPA	52.827	7.582	60.409
NEVADA	55.090	13.108	68.198
ORANGE	1202.892	169.489	1372.382
PLACER	159.860	35.036	194.895
PLUMAS	15.715	3.316	19.031
RIVERSIDE	890.263	221.917	1112.181
SACRAMENTO	549.436	92.771	642.207
SAN BENITO	24.875	7.486	32.361
SAN BERNARDINO	996.508	272.356	1268.864
SAN DIEGO	1301.605	180.726	1482.330
SAN FRANCISCO	158.358	14.095	172.453
SAN JOAQUIN	308.941	97.231	406.172
SAN LUIS OBISPO	135.040	27.762	162.802
SAN MATEO	306.382	31.909	338.291
SANTA BARBARA	169.554	27.535	197.089
SANTA CLARA	707.394	85.013	792.407
SANTA CRUZ	92.966	10.732	103.698
SHASTA	91.148	27.391	118.539
SIERRA	5.039	1.606	6.645
SISKIYOU	42.767	18.770	61.537
SOLANO	212.945	33.844	246.789
SONOMA	178.036	27.102	205.138
STANISLAUS	188.798	53.548	242.346
SUTTER	40.819	6.951	47.770
TEHAMA	44.264	16.183	60.447
TRINITY	8.153	1.960	10.112
TULARE	163.346	58.771	222.117
TUOLUMNE	29.736	4.318	34.054
VENTURA	312.083	44.404	356.487
YOLO	97.679	27.777	125.456
YUBA	31.760	7.898	39.658
TOTAL	15152.000	2946.000	18098.000

TABLE 3 - 2007 ESTIMATED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	636.910	124.289	761.199
ALPINE	2.690	0.330	3.020
AMADOR	20.301	3.206	23.507
BUTTE	81.071	14.532	95.603
CALAVERAS	18.456	2.388	20.843
COLUSA	27.497	15.678	43.174
CONTRA COSTA	378.530	46.783	425.313
DEL NORTE	11.995	3.576	15.571
EL DORADO	75.247	9.015	84.262
FRESNO	372.705	118.907	491.611
GLENN	22.721	17.352	40.073
HUMBOLDT	57.865	13.298	71.163
IMPERIAL	90.078	37.644	127.721
INYO	24.049	7.265	31.314
KERN	372.298	188.914	561.212
KINGS	64.377	27.359	91.736
LAKE	26.796	4.864	31.659
LASSEN	23.454	10.609	34.062
LOS ANGELES	3617.001	571.844	4188.845
MADERA	70.897	30.212	101.109
MARIN	131.563	11.472	143.035
MARIPOSA	11.918	0.550	12.468
MENDOCINO	54.338	12.131	66.469
MERCED	117.371	45.084	162.455
MODOC	9.565	5.336	14.901
MONO	14.517	2.736	17.253
MONTEREY	165.762	44.538	210.299
NAPA	54.708	6.151	60.859
NEVADA	54.429	16.191	70.620
ORANGE	1237.168	155.241	1392.409
PLACER	158.115	33.314	191.429
PLUMAS	16.016	6.539	22.554
RIVERSIDE	889.021	251.991	1141.012
SACRAMENTO	539.669	95.458	635.127
SAN BENITO	23.127	9.741	32.868
SAN BERNARDINO	972.005	315.321	1287.327
SAN DIEGO	1268.710	168.667	1437.378
SAN FRANCISCO	157.644	10.608	168.252
SAN JOAQUIN	297.078	112.155	409.234
SAN LUIS OBISPO	134.938	23.957	158.896
SAN MATEO	304.321	26.476	330.797
SANTA BARBARA	172.701	27.409	200.110
SANTA CLARA	694.341	83.603	777.944
SANTA CRUZ	90.059	10.813	100.873
SHASTA	89.671	29.284	118.955
SIERRA	4.965	1.756	6.721
SISKIYOU	43.105	28.882	71.987
SOLANO	212.772	35.571	248.343
SONOMA	188.025	28.842	216.867
STANISLAUS	186.641	60.302	246.943
SUTTER	41.735	7.650	49.385
TEHAMA	44.379	18.920	63.299
TRINITY	8.467	3.995	12.462
TULARE	169.506	60.709	230.215
TUOLUMNE	29.464	5.090	34.554
VENTURA	311.390	47.617	359.007
YOLO	93.437	25.633	119.071
YUBA	30.173	4.939	35.112
TOTAL	15017.751	3082.740	18100.912

TABLE 3 - 2008 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	649.983	121.679	771.662
ALPINE	2.745	0.323	3.068
AMADOR	20.718	3.139	23.857
BUTTE	82.735	14.227	96.962
CALAVERAS	18.834	2.338	21.172
COLUSA	28.061	15.348	43.409
CONTRA COSTA	386.300	45.800	432.100
DEL NORTE	12.241	3.501	15.742
EL DORADO	76.792	8.826	85.618
FRESNO	380.355	116.409	496.764
GLENN	23.187	16.988	40.175
HUMBOLDT	59.052	13.019	72.071
IMPERIAL	91.927	36.853	128.780
INYO	24.542	7.113	31.655
KERN	379.939	184.947	564.886
KINGS	65.699	26.784	92.483
LAKE	27.346	4.762	32.107
LASSEN	23.935	10.386	34.321
LOS ANGELES	3691.242	559.835	4251.077
MADERA	72.352	29.578	101.930
MARIN	134.264	11.231	145.495
MARIPOSA	12.162	0.539	12.701
MENDOCINO	55.454	11.876	67.330
MERCED	119.780	44.137	163.917
MODOC	9.761	5.224	14.986
MONO	14.815	2.678	17.493
MONTEREY	169.164	43.602	212.766
NAPA	55.831	6.022	61.853
NEVADA	55.546	15.851	71.397
ORANGE	1262.561	151.981	1414.542
PLACER	161.360	32.615	193.975
PLUMAS	16.344	6.402	22.746
RIVERSIDE	907.269	246.699	1153.968
SACRAMENTO	550.746	93.453	644.200
SAN BENITO	23.601	9.537	33.138
SAN BERNARDINO	991.957	308.699	1300.656
SAN DIEGO	1294.751	165.125	1459.877
SAN FRANCISCO	160.880	10.385	171.265
SAN JOAQUIN	303.176	109.800	412.976
SAN LUIS OBISPO	137.708	23.454	161.162
SAN MATEO	310.567	25.920	336.487
SANTA BARBARA	176.246	26.834	203.080
SANTA CLARA	708.592	81.848	790.440
SANTA CRUZ	91.908	10.586	102.494
SHASTA	91.512	28.669	120.181
SIERRA	5.067	1.719	6.786
SISKIYOU	43.990	28.276	72.266
SOLANO	217.139	34.824	251.963
SONOMA	191.885	28.236	220.121
STANISLAUS	190.472	59.036	249.508
SUTTER	42.592	7.489	50.081
TEHAMA	45.290	18.523	63.813
TRINITY	8.641	3.911	12.552
TULARE	172.985	59.434	232.419
TUOLUMNE	30.069	4.983	35.052
VENTURA	317.781	46.617	364.399
YOLO	95.355	25.095	120.450
YUBA	30.792	4.836	35.628
TOTAL	15326.000	3018.000	18344.000

TABLE 3 - 2010 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	667.074	131.274	798.349
ALPINE	2.817	0.348	3.165
AMADOR	21.262	3.387	24.649
BUTTE	84.910	15.349	100.260
CALAVERAS	19.330	2.522	21.852
COLUSA	28.799	16.559	45.358
CONTRA COSTA	396.458	49.412	445.870
DEL NORTE	12.563	3.777	16.340
EL DORADO	78.811	9.522	88.333
FRESNO	390.356	125.589	515.946
GLENN	23.797	18.328	42.124
HUMBOLDT	60.605	14.045	74.650
IMPERIAL	94.344	39.759	134.103
INYO	25.188	7.674	32.861
KERN	389.930	199.532	589.462
KINGS	67.426	28.896	96.323
LAKE	28.065	5.137	33.202
LASSEN	24.564	11.205	35.769
LOS ANGELES	3788.304	603.984	4392.288
MADERA	74.255	31.910	106.165
MARIN	137.794	12.117	149.911
MARIPOSA	12.482	0.581	13.063
MENDOCINO	56.912	12.813	69.724
MERCED	122.930	47.618	170.548
MODOC	10.018	5.636	15.654
MONO	15.205	2.889	18.094
MONTEREY	173.612	47.041	220.653
NAPA	57.299	6.496	63.796
NEVADA	57.007	17.101	74.108
ORANGE	1295.761	163.966	1459.727
PLACER	165.603	35.187	200.790
PLUMAS	16.774	6.906	23.680
RIVERSIDE	931.126	266.154	1197.280
SACRAMENTO	565.228	100.823	666.051
SAN BENITO	24.222	10.289	34.511
SAN BERNARDINO	1018.040	333.043	1351.083
SAN DIEGO	1328.797	178.147	1506.944
SAN FRANCISCO	165.110	11.204	176.314
SAN JOAQUIN	311.148	118.459	429.607
SAN LUIS OBISPO	141.329	25.304	166.633
SAN MATEO	318.734	27.964	346.698
SANTA BARBARA	180.880	28.950	209.830
SANTA CLARA	727.225	88.302	815.527
SANTA CRUZ	94.325	11.421	105.746
SHASTA	93.918	30.929	124.848
SIERRA	5.200	1.854	7.055
SISKIYOU	45.147	30.505	75.652
SOLANO	222.849	37.570	260.419
SONOMA	196.930	30.463	227.393
STANISLAUS	195.481	63.691	259.172
SUTTER	43.712	8.080	51.792
TEHAMA	46.481	19.984	66.464
TRINITY	8.868	4.220	13.088
TULARE	177.534	64.121	241.655
TUOLUMNE	30.860	5.376	36.236
VENTURA	326.138	50.294	376.431
YOLO	97.863	27.074	124.937
YUBA	31.602	5.217	36.819
TOTAL	15729.000	3256.000	18986.000

TABLE 3 - 2015 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	748.460	146.192	894.652
ALPINE	3.161	0.388	3.549
AMADOR	23.857	3.771	27.628
BUTTE	95.270	17.093	112.363
CALAVERAS	21.688	2.809	24.497
COLUSA	32.312	18.441	50.753
CONTRA COSTA	444.827	55.027	499.854
DEL NORTE	14.095	4.206	18.302
EL DORADO	88.426	10.604	99.030
FRESNO	437.981	139.861	577.842
GLENN	26.700	20.410	47.110
HUMBOLDT	67.999	15.641	83.641
IMPERIAL	105.854	44.277	150.131
INYO	28.261	8.546	36.806
KERN	437.503	222.206	659.709
KINGS	75.653	32.180	107.833
LAKE	31.489	5.721	37.210
LASSEN	27.561	12.478	40.039
LOS ANGELES	4250.492	672.618	4923.110
MADERA	83.314	35.536	118.850
MARIN	154.606	13.494	168.100
MARIPOSA	14.005	0.647	14.652
MENDOCINO	63.855	14.269	78.124
MERCED	137.928	53.029	190.957
MODOC	11.240	6.277	17.517
MONO	17.060	3.218	20.277
MONTEREY	194.793	52.386	247.180
NAPA	64.290	7.235	71.525
NEVADA	63.962	19.045	83.006
ORANGE	1453.848	182.599	1636.447
PLACER	185.807	39.185	224.993
PLUMAS	18.821	7.691	26.512
RIVERSIDE	1044.727	296.399	1341.125
SACRAMENTO	634.189	112.280	746.469
SAN BENITO	27.177	11.458	38.635
SAN BERNARDINO	1142.245	370.889	1513.134
SAN DIEGO	1490.916	198.391	1689.307
SAN FRANCISCO	185.254	12.477	197.731
SAN JOAQUIN	349.109	131.920	481.029
SAN LUIS OBISPO	158.572	28.179	186.751
SAN MATEO	357.620	31.142	388.762
SANTA BARBARA	202.948	32.239	235.188
SANTA CLARA	815.949	98.336	914.286
SANTA CRUZ	105.833	12.719	118.551
SHASTA	105.377	34.444	139.821
SIERRA	5.835	2.065	7.900
SISKIYOU	50.655	33.972	84.627
SOLANO	250.037	41.840	291.877
SONOMA	220.957	33.925	254.881
STANISLAUS	219.330	70.929	290.259
SUTTER	49.045	8.998	58.043
TEHAMA	52.152	22.254	74.406
TRINITY	9.950	4.699	14.650
TULARE	199.194	71.407	270.601
TUOLUMNE	34.625	5.987	40.612
VENTURA	365.928	56.009	421.936
YOLO	109.802	30.151	139.953
YUBA	35.457	5.810	41.267
TOTAL	17648.000	3626.000	21274.000

TABLE 3 - 2020 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	823.272	161.271	984.543
ALPINE	3.477	0.428	3.905
AMADOR	26.241	4.160	30.401
BUTTE	104.792	18.857	123.649
CALAVERAS	23.856	3.098	26.954
COLUSA	35.542	20.343	55.885
CONTRA COSTA	489.290	60.703	549.993
DEL NORTE	15.504	4.640	20.144
EL DORADO	97.265	11.698	108.962
FRESNO	481.760	154.287	636.047
GLENN	29.369	22.515	51.884
HUMBOLDT	74.796	17.255	92.051
IMPERIAL	116.435	48.844	165.279
INYO	31.085	9.427	40.513
KERN	481.233	245.125	726.358
KINGS	83.215	35.499	118.714
LAKE	34.636	6.311	40.947
LASSEN	30.316	13.765	44.081
LOS ANGELES	4675.348	741.995	5417.343
MADERA	91.642	39.202	130.843
MARIN	170.059	14.886	184.945
MARIPOSA	15.405	0.714	16.119
MENDOCINO	70.238	15.740	85.978
MERCED	151.714	58.499	210.213
MODOC	12.364	6.924	19.288
MONO	18.765	3.550	22.314
MONTEREY	214.264	57.790	272.054
NAPA	70.716	7.981	78.697
NEVADA	70.355	21.009	91.364
ORANGE	1599.167	201.433	1800.600
PLACER	204.380	43.227	247.607
PLUMAS	20.702	8.484	29.186
RIVERSIDE	1149.152	326.970	1476.123
SACRAMENTO	697.579	123.861	821.440
SAN BENITO	29.893	12.640	42.533
SAN BERNARDINO	1256.418	409.144	1665.562
SAN DIEGO	1639.940	218.854	1858.793
SAN FRANCISCO	203.771	13.764	217.535
SAN JOAQUIN	384.004	145.527	529.531
SAN LUIS OBISPO	174.422	31.086	205.508
SAN MATEO	393.366	34.354	427.720
SANTA BARBARA	223.234	35.565	258.799
SANTA CLARA	897.507	108.479	1005.986
SANTA CRUZ	116.411	14.031	130.442
SHASTA	115.910	37.997	153.906
SIERRA	6.418	2.278	8.696
SISKIYOU	55.718	37.476	93.194
SOLANO	275.030	46.155	321.185
SONOMA	243.042	37.424	280.466
STANISLAUS	241.253	78.245	319.498
SUTTER	53.947	9.926	63.873
TEHAMA	57.365	24.550	81.914
TRINITY	10.945	5.184	16.129
TULARE	219.104	78.773	297.877
TUOLUMNE	38.086	6.604	44.690
VENTURA	402.504	61.786	464.290
YOLO	120.778	33.260	154.038
YUBA	39.002	6.409	45.411
TOTAL	19412.000	4000.000	23413.000

TABLE 3 - 2025 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	893.292	175.624	1068.916
ALPINE	3.772	0.466	4.239
AMADOR	28.473	4.531	33.004
BUTTE	113.705	20.535	134.240
CALAVERAS	25.885	3.374	29.259
COLUSA	38.565	22.153	60.718
CONTRA COSTA	530.904	66.105	597.009
DEL NORTE	16.823	5.053	21.876
EL DORADO	105.537	12.739	118.276
FRESNO	522.734	168.018	690.752
GLENN	31.867	24.519	56.386
HUMBOLDT	81.158	18.790	99.948
IMPERIAL	126.338	53.191	179.529
INYO	33.729	10.266	43.995
KERN	522.162	266.941	789.104
KINGS	90.292	38.659	128.951
LAKE	37.582	6.873	44.455
LASSEN	32.894	14.990	47.885
LOS ANGELES	5072.989	808.033	5881.022
MADERA	99.436	42.691	142.127
MARIN	184.523	16.211	200.733
MARIPOSA	16.715	0.777	17.493
MENDOCINO	76.212	17.141	93.353
MERCED	164.618	63.705	228.323
MODOC	13.415	7.540	20.956
MONO	20.361	3.866	24.226
MONTEREY	232.487	62.933	295.420
NAPA	76.731	8.691	85.422
NEVADA	76.339	22.879	99.217
ORANGE	1735.177	219.360	1954.538
PLACER	221.762	47.074	268.837
PLUMAS	22.462	9.240	31.702
RIVERSIDE	1246.888	356.071	1602.959
SACRAMENTO	756.908	134.885	891.793
SAN BENITO	32.436	13.765	46.201
SAN BERNARDINO	1363.277	445.558	1808.835
SAN DIEGO	1779.417	238.332	2017.749
SAN FRANCISCO	221.102	14.989	236.091
SAN JOAQUIN	416.664	158.479	575.143
SAN LUIS OBISPO	189.256	33.853	223.109
SAN MATEO	426.822	37.411	464.233
SANTA BARBARA	242.220	38.730	280.950
SANTA CLARA	973.841	118.134	1091.974
SANTA CRUZ	126.312	15.280	141.591
SHASTA	125.768	41.379	167.146
SIERRA	6.964	2.481	9.445
SISKIYOU	60.457	40.811	101.268
SOLANO	298.421	50.263	348.684
SONOMA	263.713	40.755	304.468
STANISLAUS	261.772	85.208	346.980
SUTTER	58.535	10.810	69.345
TEHAMA	62.243	26.735	88.978
TRINITY	11.876	5.645	17.521
TULARE	237.739	85.783	323.522
TUOLUMNE	41.325	7.192	48.517
VENTURA	436.737	67.285	504.022
YOLO	131.050	36.221	167.270
YUBA	42.319	6.979	49.298
TOTAL	21063.000	4356.000	25419.000

TABLE 3 - 2030 PROJECTED VFC BY COUNTY AND FUEL TYPE (MILLION GALLONS)

COUNTY	GASOLINE	DIESEL	TOTAL
ALAMEDA	1001.311	192.920	1194.231
ALPINE	4.229	0.512	4.741
AMADOR	31.916	4.977	36.893
BUTTE	127.455	22.557	150.012
CALAVERAS	29.015	3.706	32.721
COLUSA	43.228	24.335	67.563
CONTRA COSTA	595.102	72.616	667.718
DEL NORTE	18.857	5.551	24.408
EL DORADO	118.299	13.993	132.292
FRESNO	585.944	184.566	770.510
GLENN	35.720	26.934	62.654
HUMBOLDT	90.971	20.641	111.612
IMPERIAL	141.615	58.430	200.045
INYO	37.808	11.277	49.085
KERN	585.304	293.231	878.535
KINGS	101.210	42.466	143.676
LAKE	42.127	7.550	49.676
LASSEN	36.872	16.467	53.339
LOS ANGELES	5686.430	887.611	6574.041
MADERA	111.460	46.895	158.355
MARIN	206.836	17.807	224.643
MARIPOSA	18.737	0.854	19.590
MENDOCINO	85.427	18.829	104.257
MERCED	184.524	69.979	254.503
MODOC	15.038	8.283	23.321
MONO	22.823	4.246	27.069
MONTEREY	260.600	69.131	329.731
NAPA	86.009	9.547	95.556
NEVADA	85.570	25.132	110.702
ORANGE	1945.000	240.964	2185.964
PLACER	248.579	51.710	300.289
PLUMAS	25.179	10.150	35.328
RIVERSIDE	1397.665	391.138	1788.804
SACRAMENTO	848.436	148.169	996.605
SAN BENITO	36.358	15.121	51.479
SAN BERNARDINO	1528.128	489.439	2017.567
SAN DIEGO	1994.590	261.804	2256.393
SAN FRANCISCO	247.838	16.465	264.303
SAN JOAQUIN	467.048	174.087	641.135
SAN LUIS OBISPO	212.142	37.187	249.329
SAN MATEO	478.435	41.096	519.530
SANTA BARBARA	271.510	42.544	314.055
SANTA CLARA	1091.600	129.768	1221.368
SANTA CRUZ	141.586	16.784	158.370
SHASTA	140.976	45.454	186.430
SIERRA	7.806	2.725	10.531
SISKIYOU	67.768	44.831	112.598
SOLANO	334.507	55.213	389.720
SONOMA	295.602	44.768	340.371
STANISLAUS	293.426	93.600	387.026
SUTTER	65.614	11.874	77.488
TEHAMA	69.770	29.368	99.138
TRINITY	13.312	6.201	19.513
TULARE	266.487	94.232	360.719
TUOLUMNE	46.322	7.900	54.222
VENTURA	489.548	73.911	563.460
YOLO	146.897	39.788	186.684
YUBA	47.436	7.667	55.103
TOTAL	23610.000	4785.000	28395.000

APPENDIX D

STATEWIDE TOTALS

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Table 4: Statewide Vehicle Miles Traveled

Vehicle-Miles (Billions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	114.885	1.257	116.143	20.745	0.154	20.900	14.029	0.006	14.036	1.496	0.517	2.013	0.121	5.028	5.148	1.801	160.041
1985	143.636	3.533	147.169	28.157	0.680	28.836	15.326	0.929	16.256	1.433	1.131	2.564	0.052	5.626	5.678	1.561	202.065
1990	179.209	2.806	182.014	45.840	0.422	46.263	16.400	1.392	17.792	2.035	2.832	4.867	0.024	6.710	6.734	1.334	259.003
1995	196.198	1.905	198.103	41.470	0.275	41.745	19.776	1.909	21.685	1.922	5.872	7.794	0.020	6.516	6.536	1.105	276.968
2000	218.062	1.386	219.448	41.934	0.100	42.034	23.357	2.412	25.768	1.866	8.194	10.059	0.010	8.141	8.152	0.910	306.371
2005	233.191	1.197	234.388	33.908	0.017	33.925	33.161	3.769	36.931	2.037	9.960	11.997	0.014	8.725	8.740	1.466	327.446
2006	234.461	1.194	235.655	32.890	0.017	32.907	33.939	3.857	37.796	2.163	10.576	12.739	0.015	9.143	9.158	1.515	329.775
2007	235.361	0.981	236.342	34.057	0.014	34.070	33.287	3.562	36.849	2.177	10.169	12.346	0.018	9.188	9.206	1.601	330.415
2008	237.557	0.907	238.464	34.381	0.012	34.394	33.431	3.485	36.916	2.209	10.106	12.314	0.020	9.265	9.285	1.606	332.979
2009	241.580	0.851	242.431	35.008	0.011	35.020	33.802	3.439	37.241	2.393	10.737	13.130	0.022	9.986	10.009	1.589	339.419
2010	246.089	0.806	246.895	35.755	0.011	35.765	34.234	3.406	37.640	2.473	10.882	13.355	0.024	10.273	10.298	1.593	345.546
2015	281.079	0.698	281.776	41.535	0.007	41.542	38.279	3.510	41.790	2.907	11.868	14.775	0.034	12.028	12.062	1.649	393.595
2020	312.210	0.653	312.863	46.348	0.005	46.353	41.844	3.685	45.530	3.290	12.993	16.283	0.040	13.656	13.696	1.657	436.381
2025	339.992	0.655	340.647	50.473	0.004	50.477	45.422	3.962	49.384	3.627	14.220	17.846	0.045	15.043	15.087	1.666	475.108
2030	382.013	0.713	382.726	56.435	0.003	56.438	50.845	4.427	55.273	4.024	15.719	19.743	0.050	16.601	16.651	1.677	532.508

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Table 5: Statewide Vehicle Fuel Consumption

Gallons (Billions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	7.607	0.051	7.658	1.450	0.008	1.458	1.253	0.000	1.253	0.208	0.079	0.288	0.025	1.017	1.042	0.036	11.734
1985	8.166	0.138	8.304	1.710	0.028	1.739	1.322	0.047	1.369	0.231	0.174	0.405	0.011	1.108	1.119	0.031	12.966
1990	8.431	0.109	8.540	2.590	0.019	2.609	1.433	0.074	1.506	0.306	0.389	0.695	0.006	1.296	1.302	0.027	14.679
1995	8.803	0.072	8.875	2.200	0.012	2.212	1.539	0.101	1.640	0.271	0.757	1.028	0.004	1.163	1.167	0.022	14.944
2000	9.962	0.051	10.013	2.251	0.004	2.255	1.708	0.134	1.842	0.260	1.030	1.291	0.002	1.413	1.415	0.018	16.834
2005	10.815	0.042	10.858	1.831	0.001	1.832	2.278	0.215	2.493	0.281	1.233	1.513	0.002	1.473	1.475	0.029	18.201
2006	10.700	0.040	10.740	1.789	0.001	1.790	2.329	0.209	2.538	0.300	1.240	1.540	0.003	1.457	1.460	0.031	18.098
2007	10.678	0.035	10.713	1.797	0.001	1.797	2.215	0.207	2.421	0.294	1.277	1.570	0.003	1.564	1.567	0.031	18.100
2008	10.897	0.032	10.929	1.839	0.001	1.839	2.252	0.199	2.451	0.303	1.245	1.548	0.003	1.542	1.545	0.032	18.344
2009	11.019	0.030	11.049	1.867	0.000	1.867	2.267	0.196	2.464	0.328	1.321	1.648	0.004	1.655	1.659	0.032	18.718
2010	11.165	0.028	11.193	1.901	0.000	1.902	2.288	0.195	2.483	0.338	1.337	1.676	0.004	1.696	1.700	0.032	18.986
2015	12.491	0.024	12.516	2.188	0.000	2.189	2.533	0.201	2.733	0.397	1.454	1.851	0.006	1.947	1.953	0.033	21.274
2020	13.736	0.023	13.759	2.430	0.000	2.430	2.758	0.211	2.968	0.449	1.589	2.038	0.007	2.177	2.184	0.033	23.413
2025	14.892	0.023	14.915	2.644	0.000	2.644	2.991	0.226	3.217	0.495	1.738	2.233	0.008	2.368	2.376	0.033	25.419
2030	16.719	0.025	16.744	2.954	0.000	2.954	3.347	0.253	3.600	0.548	1.921	2.470	0.008	2.585	2.594	0.034	28.395

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Table 6: Statewide Registered Vehicles

Vehicles (Millions)

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total
	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	Diesel	Total	Gas	
1980	11.415	0.090	11.505	2.118	0.010	2.128	1.200	0.000	1.200	0.177	0.021	0.198	0.018	0.127	0.144	0.573	15.748
1985	12.527	0.258	12.785	2.500	0.043	2.544	1.320	0.054	1.374	0.148	0.035	0.182	0.009	0.110	0.119	0.651	17.654
1990	14.720	0.255	14.975	3.666	0.037	3.702	1.471	0.095	1.565	0.182	0.081	0.263	0.005	0.125	0.130	0.606	21.242
1995	15.264	0.189	15.454	3.291	0.030	3.321	1.723	0.132	1.856	0.160	0.165	0.325	0.002	0.101	0.103	0.500	21.559
2000	16.821	0.150	16.971	3.389	0.018	3.407	1.852	0.173	2.025	0.149	0.232	0.381	0.001	0.126	0.127	0.414	23.326
2005	18.598	0.140	18.738	3.059	0.009	3.068	2.351	0.264	2.614	0.150	0.296	0.446	0.001	0.136	0.137	0.667	25.669
2006	18.899	0.143	19.041	3.010	0.009	3.019	2.432	0.273	2.705	0.155	0.307	0.462	0.001	0.139	0.140	0.688	26.055
2007	19.412	0.123	19.535	3.200	0.008	3.208	2.465	0.268	2.734	0.153	0.309	0.462	0.001	0.140	0.141	0.726	26.806
2008	19.792	0.115	19.907	3.266	0.007	3.273	2.519	0.269	2.789	0.155	0.314	0.469	0.001	0.142	0.144	0.730	27.311
2009	20.155	0.108	20.263	3.328	0.007	3.335	2.571	0.271	2.842	0.157	0.319	0.476	0.001	0.144	0.146	0.722	27.784
2010	20.528	0.101	20.630	3.393	0.006	3.399	2.624	0.272	2.896	0.159	0.325	0.484	0.001	0.146	0.148	0.724	28.280
2015	22.550	0.078	22.628	3.736	0.004	3.740	2.907	0.280	3.187	0.173	0.353	0.526	0.001	0.158	0.160	0.750	30.989
2020	24.543	0.066	24.608	4.071	0.003	4.074	3.180	0.292	3.472	0.189	0.380	0.568	0.001	0.171	0.172	0.753	33.648
2025	26.452	0.060	26.512	4.392	0.002	4.393	3.437	0.306	3.744	0.204	0.406	0.610	0.002	0.183	0.184	0.757	36.201
2030	28.502	0.059	28.561	4.734	0.001	4.735	3.709	0.326	4.035	0.221	0.435	0.655	0.002	0.196	0.198	0.762	38.947

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Table 7: Statewide Vehicle Fuel Economy

Miles Per Gallon

Year	Auto			Truck1			Truck2			Truck3			Truck4			MC	Total*
	Gas	Diesel	Total*	Gas	Diesel	Total*	Gas	Diesel	Total*	Gas	Diesel	Total*	Gas	Diesel	Total*	Gas	
1980	15.103	24.773	15.167	14.308	18.981	14.334	11.200	20.620	11.202	7.179	6.512	6.995	4.787	4.945	4.941	50.000	13.638
1985	17.590	25.527	17.722	16.466	23.844	16.587	11.593	19.897	11.876	6.205	6.493	6.329	4.760	5.079	5.076	50.000	15.584
1990	20.814	25.766	20.877	18.567	23.912	18.605	11.902	19.645	12.280	6.603	7.109	6.886	5.245	5.353	5.352	50.000	17.605
1995	22.182	26.264	22.215	18.759	23.254	18.783	12.790	18.872	13.164	7.069	7.718	7.547	5.661	5.576	5.577	50.000	18.446
2000	21.910	27.303	21.937	18.644	23.591	18.654	13.691	17.985	14.004	7.161	7.953	7.793	5.693	5.760	5.760	50.000	18.215
2005	21.562	28.205	21.588	18.518	23.574	18.520	14.555	17.545	14.812	7.259	8.080	7.928	5.767	5.924	5.924	50.000	17.991
2006	21.543	28.224	21.361	18.567	25.537	18.387	14.717	17.528	14.893	7.271	8.092	8.270	5.776	5.954	6.275	50.000	17.925
2007	22.042	27.828	22.061	18.955	23.574	18.957	15.031	17.220	15.218	7.408	7.966	7.862	5.885	5.877	5.877	50.852	18.255
2008	21.800	28.364	21.820	18.701	24.000	18.702	14.847	17.513	15.063	7.290	8.118	7.956	5.795	6.009	6.008	50.000	18.152
2009	21.924	28.598	21.942	18.755	24.000	18.757	14.910	17.511	15.117	7.302	8.131	7.966	5.799	6.034	6.033	50.000	18.133
2010	22.041	28.616	22.057	18.804	24.000	18.805	14.960	17.509	15.160	7.308	8.137	7.970	5.804	6.058	6.058	50.000	18.200
2015	22.502	28.482	22.513	18.980	24.000	18.981	15.115	17.504	15.290	7.327	8.162	7.983	5.827	6.178	6.177	50.000	18.501
2020	22.729	28.354	22.738	19.077	24.000	19.077	15.174	17.499	15.339	7.333	8.175	7.990	5.836	6.272	6.271	50.000	18.639
2025	22.830	28.320	22.839	19.090	24.000	19.091	15.186	17.500	15.349	7.333	8.181	7.993	5.846	6.352	6.350	50.000	18.691
2030	22.849	28.320	22.858	19.106	24.000	19.106	15.192	17.500	15.354	7.339	8.181	7.994	5.846	6.421	6.419	50.000	18.754

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GLOSSARY

Corporate Average Fuel Economy (CAFE): the required average fuel economy for a vehicle manufacturer's entire fleet of passenger cars and light trucks for each model year. It applies to passenger cars and light trucks with a gross vehicle weight rating (GVWR) of 8,500 pounds or less manufactured for sale in the United States. CAFE values are obtained using the same test data generated by the fuel economy tests used to determine the fuel economy estimates for the Guide and labels, but the test results are not adjusted to account for real-world conditions. Instead, the results from the city and highway tests are combined. Environmental Protection Agency (EPA) administers the testing program, which generates the fuel economy data and determines the procedures for calculating the fuel economy values for CAFE. The National Highway Traffic and Safety Administration (NHTSA), which is part of the Department of Transportation is responsible for establishing and amending the CAFE standards for trucks. Congress sets the CAFE standards for cars. EPA reports the CAFE results for each manufacturer to NHTSA annually, and NHTSA determines if the manufacturers comply with the CAFE standards and assesses penalties as required.

Vehicle Body Types: The motor vehicle fleet is stratified into six classes by body type as follows:

AUTOS	Passenger vehicles registered as regular autos and station wagons
TRUCK1	Truck Gross Vehicle Weight Class 1 trucks (GVW 0 to 6,000 pounds)
TRUCK2	Truck Gross Vehicle Weight Class 2 trucks (GVW 6,001 to 10,000 pounds)
TRUCK3	Truck Gross Vehicle Weight Class 3 (GVW 10,001 to 14,000 pounds), Class 4 (GVW 14,001 to 16,000 pounds), Class 5 (GVW 16,001 to 19,500 pounds), Class 6 (GVW 19,501 to 26,000 pounds), and Class 7 (GVW 26,001 to 33,000 pounds)
TRUCK4	Truck Gross Vehicle Weight Class 8 and above (GVW 33,001 + pounds)
MC	Registered motorcycles, which exclude motor-bicycles and off-road motor-powered bikes.

Vehicle Fuel Consumption (VFC): Total fuel consumed by all vehicles during selected time period in geographic segment.

Vehicle Miles Traveled (VMT): Total distance traveled by all vehicles during selected time period in geographic segment.