TABLE 27- 4

PROJECTED MAXIMUM LEAD CONCENTRATIONS IN CALIFORNIA
QUARTERLY AVERAGES

BASIN	COUNTY	Worst Case ug/m^3	Worst Case Year	Projected Lead Concentration in 1982 (µg/m^3)
Sacramento	Sacramento	2.11	1976	.65
San Diego	San Diego	3.25	1976	1.01
San Francisco	Alameda	1.99	1976	.43
	Contra Costa	2.26	1976	.62
	Marin	3.21	1976	.75
	Napa	2.01	1976	.56
	San Francisco	2.80	1976	.69
	San Mateo	3.59	1975	.77
	Santa Clara	4.13	1976	1.22
	Solano	2.17	1976	1.06
San Joaquin Valley	Fresno	4.83	1976	1.55/1.51*
	Kern	4.48	1977	1.44
	Madera	1.54	1976	.55
	Merced	2.35	1976	.79
South Central Coast	Santa Barbara	2.84	1976	.87
	Ventura	1.92	1977	.66
South Coast	Los Angeles	7.52	1976	1.96/1.72*
	Orange	4.57	1976	1.11
	Riverside	3.84	1976	.98
	San Bernardino	3.49	1976	.99

*Projected lead concentrations in 1984.

Description of Los Angeles County Situation

The highest lead levels are recorded at the Lennox air monitoring station, which is located near L.A. International Airport (Figure 27-4). At this station, the national ambient air quality standard for lead (1.5 $\mu g/m^3$) was exceeded in all four calendar quarters during the years 1974-1977, although the highest readings occurred in the winter months.

The Lennox station is also located near the intersection of two heavily travelled traffic arteries: La Cienega Boulevard and Imperial Highway. In addition, it is approximately 300 feet west of the San Diego Freeway. The relative contributions of motor vehicle emissions and aircraft emissions from the L.A. Airport to the lead problem at Lennox is unknown at this time.

The proportional model indicates that the lead levels at Lennox will continue to drop and attainment of the standard will be achieved in the late 1980's without the implementation of additional control measures. A recent South Coast Air Quality Management District report* concluded that assuming average meteorology, Lennox would attain the national lead standard by 1984. Under adverse meteorological conditions, the conclusion was Lennox would not attain until the late 1980's.

There are exceedances of the lead standard throughout the South Coast Basin. In addition to Lennox, particularly high readings (over 4.00 $\mu g/m^3$) have been recorded at monitoring stations located in downtown Los Angeles, Lynwood, Los Alamitos, Pasadena, and Pico Rivera (see Table 27-3).

Fresno County Situation

The high reading of 4.83 $\mu g/m^3$ in Fresno County occurred in the fourth quarter of 1976 at the monitoring station on Olive Street. At this site, the standard has been exceeded two out of four quarters in 1974, 1976, and 1977. In 1975, the standard was exceeded in three out of four calendar quarters. The map on the next page (Figure 27-5) shows the location of the monitoring site.

Further study of the Fresno area is needed to pinpoint the cause of the lead standard violations.

*Motor Vehicle Emissions and Atmospheric Lead Concentrations in the Los Angeles Area," South Coast Air Quality Management District Journal of Air Pollution Control Assoc. Vol. 28 No. 12.

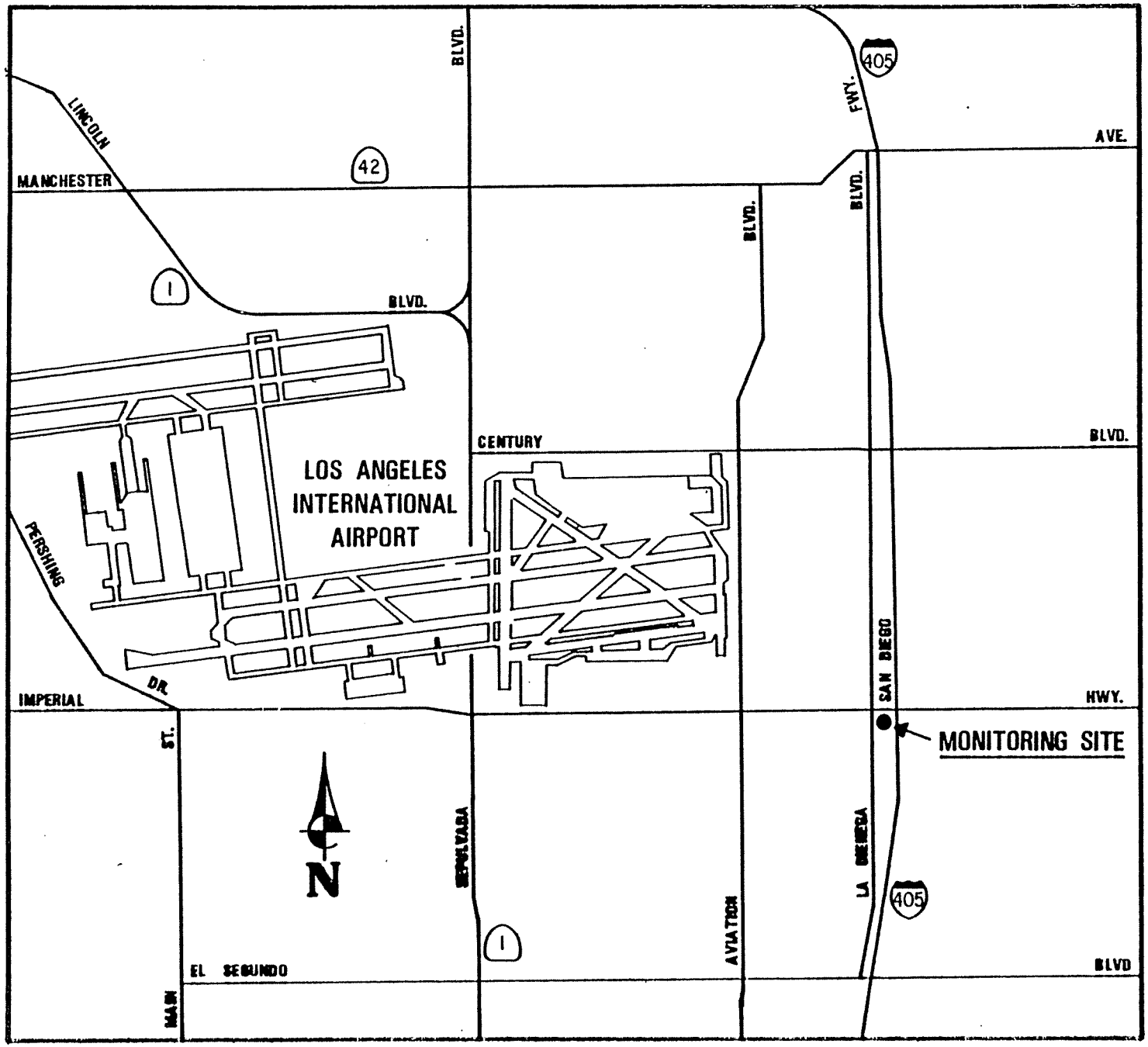
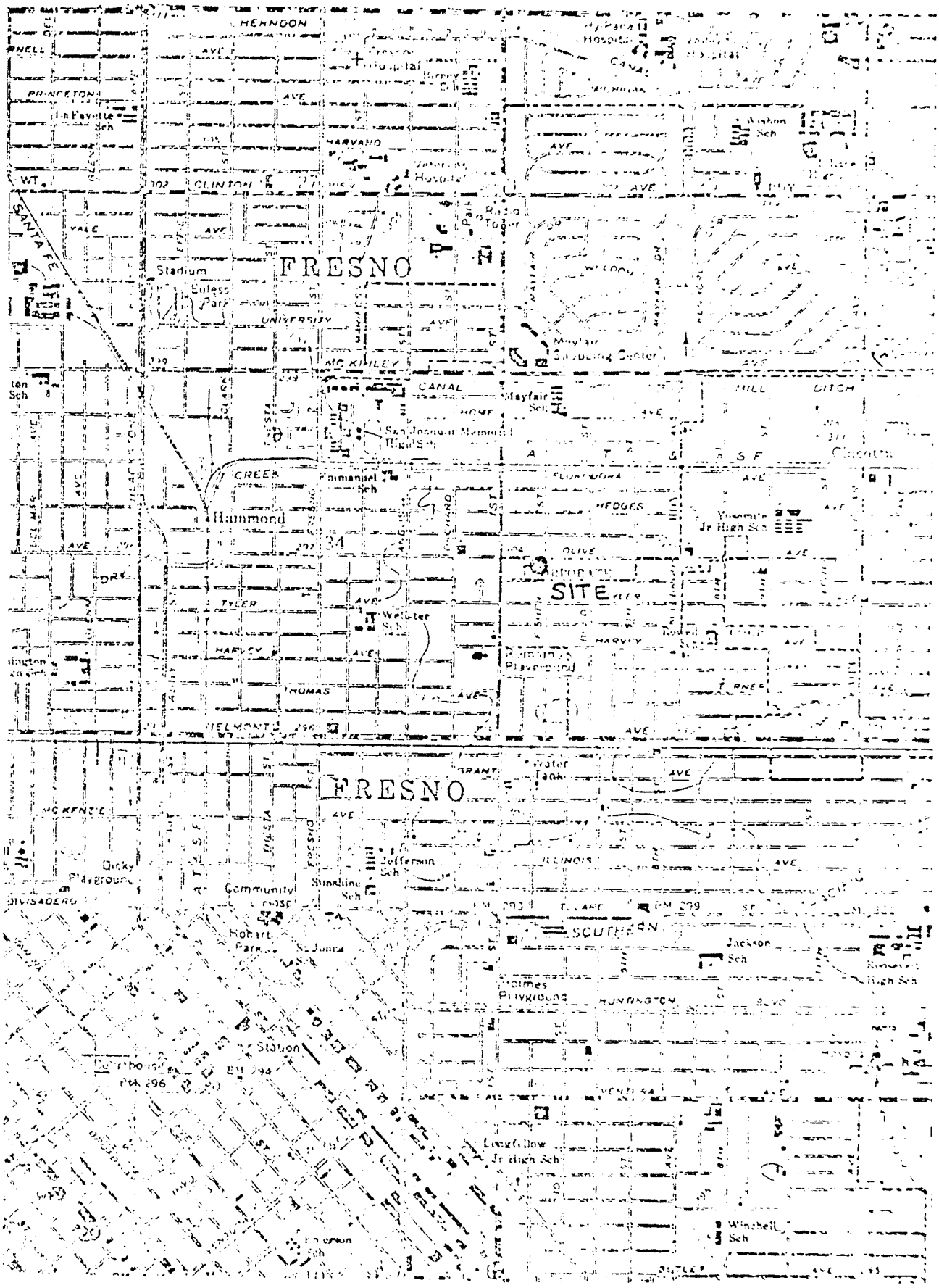

LOS ANGELES
INTERNATIONAL
AIRPORT
MONITORING SITE
N
LINCOLN
BLVD.
MANCHESTER
42
1
BLVD.
CENTURY
BLVD.
BLVD.
BLVD.
FWY.
405
AVE.
PERSHING
DR.
IMPERIAL
HWY.
SAN DIEGO
LA CIENEGA
405
AVIATION
SEPULVEDA
1
EL SEGUNDO
BLVD
MAIN
ST.

Figure 27-4

Figure 27-5


HERNDON
PRINCETON
La Fayette Sch
HARVARD
CLINTON
YALE
SANTA FE
Stadium
Euless Park
FRESNO
UNIVERSITY
McKINLEY
CANAL
Mayfair Sch
MILL DITCH
San Joaquin Memorial High Sch
CREEK
Emmanuel Sch
Hammond
HEDGES
Yosemite Jr High Sch
OLIVE
SITE
TYLER
Webster Sch
HARVEY
THOMAS
HELMONT
FRESNO
Water Tank
McKENZIE
Jefferson Sch
Community Hosp
Sunshine Sch
Dicky Playground
Hobart Park
St Johns Sch
ILLINOIS
SOUTHERN
Jackson Sch
Holmes Playground
HUNTINGTON
Station
Longfellow Jr High Sch
Winchell Sch
Emerson Sch

VII. REQUEST FOR A TWO-YEAR EXTENSION FOR FRESNO AND LOS ANGELES COUNTIES

As noted earlier, despite the implementation of California's regulation for the phasedown of lead in gasoline, the NAAQS cannot be attained in Fresno and Los Angeles Counties by October 1982. In accordance with Clean Air Act Sections 110(e)(1) and (2), and 40 CFR 51.30, California requests a two-year extension to October 31, 1984 of the attainment date for the NAAQS for lead in the following areas:

South Coast Air Basin (Los Angeles Metropolitan AQCR)
San Joaquin Valley Air Basin

High lead levels in these air basins are principally caused by gasoline powered motor vehicles, i.e., heavy concentrations of passenger cars and trucks in the vicinity of the monitoring stations. The two basic alternatives for control are the reduction in tail pipe lead emissions and the reduction of motor vehicle traffic.

Tail pipe lead emissions reductions can be achieved through reductions in fuel lead content or through particulate exhaust emissions control systems. California has already implemented a control program to reduce fuel lead content as expeditiously as practicable. Since this measure is substantially more stringent than the comparable federal regulations, California believes that its lead regulations satisfy the reasonably available control measure requirements of Clean Air Act Section 110(e)(1) for fuel lead content.

Although various particulate exhaust emission control systems have been reported to the Air Resources Board by vehicle manufacturers in their annual progress reports, inadequate lead time exists to require the production of these systems before 1982. Even if these systems could be installed on new vehicles, they would not contribute significantly to reducing ambient lead concentrations since virtually all of the lead emissions come from older vehicles which use leaded (and not unleaded) gasoline. The Air Resources Board is not aware of any retrofit particulate emissions control systems which could be required for installation on older vehicles. Based on the above, California believes that at the present time, there are no reasonably available control measures, other than fuel lead content restrictions, for reducing motor vehicle lead emissions beyond those already in place in California.

If additional tail pipe emissions control is not a viable alternative for 1982, some means must be found to reduce vehicle traffic. Additional analysis is needed, including microscale modeling studies, to determine the most cost-effective transportation control measures for the various "hot spot" areas. The Clean Air Act Amendments of

1977 recognized the difficulty of developing effective transportation control measures and provided for extensions of up to five years for attainment of other NAAQS in areas which required the use of such measures. In addition, it should be noted that carbon monoxide standards are exceeded in the same locations that have the highest lead levels. Since transportation control measures that can reduce lead also affect carbon monoxide concentrations, control strategies for these pollutants must be coordinated. The California lead strategy calls for this coordination and for the implementation of transportation or other control measures in time for attainment of the lead standard by 1984.

Finally, in the interim California is implementing all reasonably available measures to control lead. As noted earlier, the California lead phasedown regulation is more stringent than parallel federal controls. Its inclusion in the SIP will ensure a steady reduction in ambient lead concentrations until other measures are implemented.

VIII. AIR QUALITY SURVEILLANCE

California has had an air quality monitoring network for lead since 1968 in metropolitan areas and since the mid-1970's for smaller cities (less than 50,000 population). Two methods for measuring ambient lead levels are currently in use.

Some local air pollution control districts (APCDs) are using the federal reference method. In this method, total suspended particulate matter is collected every sixth day on a glass fiber filter for 24 hours using a high volume sampler. The lead is separated from the other particulate matter by an extraction process which utilizes hot nitric acid to dissolve the lead. The lead content of the resulting solution is determined by flame atomic absorption spectroscopy.

A second method employed by some APCDs and ARB is X-Ray Fluorescence. This has been determined to be an equivalent method of analysis by the American Industrial Hygiene Laboratory. It is anticipated that the EPA will soon declare this method equivalent to the Federal Reference Method.

California maintains an ambient air quality surveillance network for all the criteria pollutants: ozone, carbon monoxide, particulates, nitrogen dioxide, sulfur dioxide, and total suspended particulates. Because of the limited resources available, it is often necessary to locate monitors for the various pollutants in the same station. In the past, monitors were located based on the requirements for other pollutants. Since high lead levels tend to be a localized problem, these stations may not be monitoring the maximum concentrations of lead in a given urban area. On the other hand, since high lead concentrations are generally found in the same areas as high carbon monoxide levels, and since most monitoring stations were sited based, in part, on the need to get representative CO data, the current monitoring network should be fairly representative for lead. A listing of stations monitoring lead in 1978 is in Table 27-11.

Simultaneous with the promulgation of the lead standard, new criteria were published for siting lead surveillance instrumentation. The new regulations require at least two permanent lead ambient air quality monitoring stations in each urbanized area (as defined by the U.S. Bureau of the Census) that has a 1970 population greater than 500,000 or where lead air quality concentrations currently exceed or have exceeded 1.5 $\mu g/m^3$ quarterly arithmetic mean measured since January 1, 1974. The monitoring system must

contain at least one roadway type monitoring site and at least one neighborhood site and must be sited in accordance with the procedures specified in EPA's "Supplementary Guidelines for Lead Implementation Plans". Table 27-12 shows, in the remarks column, how our present monitoring network in urbanized areas and other areas exceeding the standard relates to the EPA guidelines for the proposed network. The monitors must be operated on a minimum sampling frequency of one 24-hour sample every 6 days. A new monitoring network is being established in accordance with the new regulations and will be operational no later than two years after the EPA approves this plan. Until that time, California will continue to operate the existing network of stations.

A description of the monitoring system is available for public inspection and may be viewed at:

California Air Resources Board
Technical Services Division
1131 S Street
Sacramento, California

California Air Monitoring Stations

Measuring Lead in 1978

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
LAKE COUNTY AIR BASIN			
Lake County			
Lakeport-Lakeport Blvd.	1700713	Lake County APCD	
Middletown	1700716	" " "	( )
MOUNTAIN COUNTIES AIR BASIN			
El Dorado County			
Placerville Airport	0900672	California ARB	(*)
Placer County			
Weimar	3100812	California ARB	(*)
NORTH CENTRAL COAST AIR BASIN			
Monterey County			
Salinas-No. 2	2700544	Monterey Bay Unified APCD	
San Ardo Water District Office	2700545	California ARB	(*)
NORTH COAST AIR BASIN			
Mendocino County			
Fort Bragg-Central	2300756	Mendocino County APCD	
Fort Bragg-So. Main	2300760	" " "	

( ) indicate pollutant discontinued during year.

* Special study from--July 1977 through March 1978.
N --Neighborhood
R - Roadway
D - Does not presently meet EPA guidelines
M - Marginal - may meet EPA guidelines depending on strictness of interpretation
U - Unknown

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
NORTHEAST PLATEAU AIR BASIN			
Modoc County			
Alturas	2500761	Modoc County APCD	( )
SACRAMENTO VALLEY AIR BASIN			
Sacramento County			
Sacramento-"P" Street	3400282	California ARB	N-D
Red Bluff-Lincoln	5200906	" "	
SAN DIEGO AIR BASIN			
San Diego County			
El Cajon	8000104	San Diego County APCD	N-D
San Diego-Island Ave.	8000120	" " " "	R
SAN FRANCISCO BAY AREA AIR BASIN			
Alameda County			
Livermore-Railroad	6000335	Bay Area AQMD	
Fremont-Chapel Way	6000336	" " "	N
Contra Costa County			
Pittsburg	0700430	Bay Area AQMD	
Richmond-13th Street	0700433	" " "	R
Concord-Treat Blvd.	0700436	" " "	N-D
Marin County			
San Rafael	2100451	Bay Area AQMD	N
Napa County			
Napa-Jefferson St.	2800783	Bay Area AQMD	

( ) indicate pollutant discontinued during year.

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
SAN FRANCISCO BAY AREA AQMP (continued)			
San Francisco County			
San Francisco-Ellis St.	9000303	Bay Area AQMD	N-D
San Francisco-23rd St.	9000304	" " "	R-M
San Mateo County			
Redwood City	4100541	Bay Area AQMD	R
Burlingame-Burlingame Avenue	4100545	" " "	R-M
Millbrae Sewage Plant	4100546	" " "	
Santa Clara County			
San Jose-4th Street	4300382	Bay Area AQMD	N or R-M
Sunnyvale	4300384	" " "	( )
Gilroy-Monterey Street	4300385	" " "	
Saratoga-Hwy 85 & SP RR	4300388	" " "	N-D
Solano County			
Vallejo-304 Tuolumne	4800879	Bay Area AQMD	R-M
Sonoma County			
Santa Rosa-Humboldt St.	4900884	Bay Area AQMD	
SAN JOAQUIN VALLEY AIR BASIN			
Fresno County			
Fresno-Olive	1000234	California ARB	N-D
Kern County			
Bakersfield-Chester St.	1500203	California ARB	N-D
Bakersfield-Fruitvale Ave.	1500220	" "	(*)
Bakersfield-Foothill High	1500221	" "	(*)
Bakersfield-Fairview Ave.	1500222	" "	(*)
Bakersfield-2717 "O" St.	1500223	" "	(*)
Bakersfield-Armory	1500227	" "	(*)
Kern City Golf Course	1500228	" "	(*)

( ) indicate pollutant discontinued during year.

* Special study from--July 1977 through March 1978.

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
SAN JOAQUIN VALLEY AIR BASIN (continued)			
Kern County (continued)			
Bakersfield-Federal Bldg.	1500229	California ARB	(*)
Oildale Fire Station #63	1500230	" "	
Bakersfield-College	1500231	" "	(*)
Bakersfield-Health Dept.	1500232	" "	(*)
Bakersfield-Mt. Vernon School	1500233	" "	(*)
Merced County			
Merced-18th & "S" Sts.	2400524	California ARB	
SOUTH CENTRAL COAST AIR BASIN			
San Luis Obispo County			
Paso Robles	4000832	California ARB	
Santa Barbara County			
Santa Barbara-State St.	4200355	California ARB	R
Santa Maria-Library	4200356	Santa Barbara County APCD	
Lompoc	4200360	" " " "	
Ventura County			
Simi Valley	5600413	Ventura County APCD	N
SOUTH COAST AIR BASIN			
Los Angeles County			
Los Angeles-Downtown	7000001	South Coast AQMD	R-D
Azusa	7000060	" " "	N

( ) indicate pollutant discontinued during year.

* Special study from--July 1977 through March 1978.

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
SOUTH COAST AQMD (continued)			
Los Angeles County (continued)			
Reseda	7000074	South Coast AQMD	R-M
Lennox	7000076	" " "	N-D
Pasadena-Walnut	7000083	" " "	N-M R-M
Lynwood	7000084	" " "	N-M
Pico Rivera	7000085	" " "	N-M
West L.A.-Robertson	7000086	" " "	R-M
Orange County			
Anaheim	3000176	South Coast AQMD	N
La Habra	3000177	" " "	N
Costa Mesa-Harbor	3000185	" " "	N-D
El Toro	3000186	" " "	
San Juan Capistrano	3000188	" " "	( )
Los Alamitos-Orangewood	3000190	" " "	
Santa Ana-Weir Canyon Rd.	3000191	" " "	N
Riverside County			
Riverside-Rubidoux	3300144	South Coast AQMD	N
Riverside-Magnolia	3300146	California ARB	N-D
San Bernardino County			
San Bernardino	3600151	South Coast AQMD	N-D
Redlands	3600165	" " "	N
Rialto Airport	3600166	" " "	N-U
Chino-Riverside Ave.	3600173	" " "	( )
Upland-Civic Center	3600174	" " "	N
Fontana-Foothill	3600176	" " "	
Lake Gregory	3600181	" " "	
Big Bear Lake	3600184	" " "	( )
Ontario-Archibald Ave.	3600185	" " "	( )

( ) indicate pollutant discontinued during year.

TABLE 27-11

BASIN, COUNTY, AND STATION	STATION NUMBER	PARTICIPATING AGENCY	REMARKS
SOUTHEAST DESERT AIR BASIN			
Imperial County			
El Centro-Broadway	1300682	Imperial County APCD	
Los Angeles County			
Lancaster	7000082	Los Angeles County APCD	
Riverside County			
Palm Springs-Fire Station	3300137	South Coast AQMD	
Indio-Oasis Street	3300139	" " "	
Banning-Allesandro	3300150	" " "	
San Bernardino County			
Barstow	3600155	San Bernardino County APCD	
Victorville	3600168	" " " "	
Trona	3600188	" " " "	( )
Victorville-Fairgrounds	3600190	" " " "	

( ) indicate pollutant discontinued during year.

APPENDIX A

Discussion of Methodologies Employed in Air Quality Calculations

1. MODIFIED ROLLBACK AS SCREENING CALCULATION

The method employed for the air quality analysis for all areas of the state is a modified form of the proportional (rollback) model. The modification extends the basic rollback model to multiple categories of sources. In this case, the various sources consist of the different classes of motor vehicles (light-duty passenger (LDP), light-duty truck (LDT), medium-duty truck (MDT), heavy-duty gas trucks (HDG), and motorcycles (MCY)) plus nonmobile sources. This method was derived from the EPA publication, "Supplementary Guidelines for Lead Implementation Plans," EPA-450/2-78-038 dated August 1978, Appendix G.

The basic equation used is:

$$Cmax = b + (c_{max\text{-}base\ year} - b)\ \Sigma\ [fr_{j_{base\ year}}\ gf_j ef_j]$$

Where : Cmax = projected maximum lead concentration in future year of interest (1982)

Cmax-base year = highest measured lead concentration in base year

b = background level of lead: assumed to be 0.02 $\mu g/m^3$

fr_j = fractional contribution of source

$$gf_j \text{ - growth factor} = \frac{\text{population at year of interest}}{\text{population at time of measuring Cmax}}$$

$$ef_j = \text{emission factor} = \frac{\text{allowable emission rate per unit of population}}{\text{current emission rate per unit of population}}$$

The fractional contribution, fr_j, is determined by dividing the particular source emissions by the total emissions for the base year in question. The data necessary for this was obtained from ARB's Emission Inventories.

Calculation of lead emission factor is as follows;

$$ef = \text{emission factor} = \frac{\text{future emission rate}}{\text{current emission rate}}$$

$$= \frac{\left[\frac{a_s Pb_n VMT}{f_{n,s}}\right]_{future}}{\left[\frac{a_s Pb_n VMT}{f_{n,s}}\right]_{base\ year}} = \frac{grams/day}{grams/day}$$

Where: a_s = percentage of lead burned that is exhausted; assumed to remain constant through different years.

Pb_n = probable pooled average lead content of gasoline in year.

VMT = vehicle miles traveled daily.*

$f_{n,s}$ = average fleet fuel economy for calendar year n and composite driving cycle.

The probable pooled average lead contents of gasoline (Pb_n) for the 1974-1976 inventory years were based on historical lead content data. The source of this information was: Shelton, E.M., "Motor Gasolines," Bartlesville Energy Research Center, Oklahoma, U.S. Energy Research and Development Administration, Winter and Summer 1963-1977.

The average lead content of the pool of gasoline produced in 1977 and 1978 for California consumption was estimated to be 1.22 grams per gallon and 1.06 grams per gallon, respectively.**

The average lead content of leaded gasoline for future years (post 1978) is calculated based on the pool average lead content of gasoline given in the lead phasedown schedule (see Section IV of report).

*Source of VMT data was locally developed nonattainment plans where possible or ARB estimates where no other data available.

**State of California Air Resources Board, Report of Gasoline Product for Consumption in California, an internal memo to T. C. Austin from Engineering Evaluation Branch, August 1977.

Fuel Economy:

Light-Duty Passenger Cars

Pre-1977 model year passenger cars' fuel economy figures are taken from Motor Vehicle Facts and Figures '76*. These data represent sales-weighted city/highway combined fuel economy. Post-1977 model cars fuel economy is based on the federal fuel economy standards (next page). 1977 model year cars are assumed to have the same fuel economy as 1976 model year cars.

Light-Duty Trucks

Actual fuel economy figures for light-duty trucks are not available at this time. What little tests have been done (by EPA) on older light-duty trucks (LDTs) show that LDTs have the similar fuel economy as passenger cars for the same weight category. Therefore it is assumed that pre-1976 model year light-duty trucks have the same fuel economy as light-duty passenger cars and 1976-1977 model year LDTs, have a fuel economy of 17 MPG. For post-78 model year LDTs, fuel economy of 17.2 MPG is based on the light-duty truck federal fuel economy standard.

Medium and Heavy-Duty Trucks

Medium and heavy-duty truck fuel economy figures are taken from actual tests data published in EPA reports+.

*Motor Vehicle Manufacturers Association, "Motor Vehicle Facts and Figures '76," Detroit, Michigan, 1976.
+U.S. Environmental Protection Agency, "Mass Emissions from Ten Pre-Controlled Gasoline Trucks, and Comparisons Between Different Trucks on a Road Course," EPA-460/3-75-004, April 1975.
+U.S. Environmental Protection Agency, "A Study of Baseline Emissions on 6,000-14,000 lbs Gross Vehicle Weight Trucks," APTD - 1572, June 1973.
+U.S. Environmental Protection Agency, "In-Use Heavy Duty Gasoline Truck Emissions Part I: Mass Emissions from Trucks Operated Over a Road Course," EPA-460/3-73-002-a, February 1973.

Motorcycles

An average motorcycle fuel economy of 50 MPG is taken from Motor Vehicle Facts and Figures* and EPA Supplement #5.

Fuel Economy Standards:

The Congress, under the Energy Policy and Conservation Act of 1975 (public law 94-163), set passenger car fleet average fuel economy standards of 18, 19, 20, and 27.5 miles per gallon for the model years 1978, 1979, 1980, and 1985, respectively.

On June 27, 1977, the Secretary of Transportation set fleet average fuel economy standards of 22, 24, 26, and 27 miles per gallon for the model years 1981-84.

*Motor Vehicle Manufacturers Association, "Motor Vehicle Facts and Figures '76," Detroit, Michigan, 1976.

Appendix B

Emissions Inventories

TABLE 27- 5 .

LEAD EMISSIONS IN CALIFORNIA BY NON-
VEHICULAR SOURCES - 1977
(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTAL
Great Basin Valleys						
Alpine	-	-	-	-	-	-
Inyo	-	0.1	-	0.1	-	0.2
Mono	-	-	-	-	-	-
Total	-	0.1	-	0.1	-	0.2
Lake County						
Air Basin	-	0.2	0.1	0.2	-	0.5
Lake Tahoe						
El Dorado	-	0.2	-	0.1	-	0.3
Placer	-	0.1	-	-	-	0.1
Total	-	0.3	-	0.1	-	0.4
Mountain Counties						
Amador	-	0.1	-	0.1	-	0.2
Calaveras	-	0.8	-	0.1	-	0.9
El Dorado	-	0.3	-	0.2	-	0.5
Mariposa	-	0.1	-	-	-	0.1
Nevada	-	0.3	-	0.2	-	0.5

* a dash mark means emissions <0.05 tons/year

TABLE B7-5

LEAD EMISSIONS IN CALIFORNIA BY NON-VEHICULAR SOURCES - 1977
(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTA.
(Continued)						
Mountain Counties						
Placer	-	0.7	0.1	0.5	-	1.3
Plumas	-	0.1	0.1	0.1		0.3
[illegible]	-	-	-	-	-	-
Sierra	-	0.2	-	0.1	-	0.3
Total	-	2.6	0.2	1.3	-	4.1
North Central						
Coast						
[illegible]	-	1.4	0.5	1.5	2.7	6.1
[illegible]	-	0.1	0.1	0.1	-	0.3
[illegible]	-	1.1	0.1	0.0	0.1	2.2
[illegible]	-	.8	0.7	2.1	2.6	6.5
North Coast						
[illegible]	-	0.1	-	0.1	-	0.2
[illegible]	-	0.6	0.1	0.3	0.2	1.3
[illegible]		0.1	0.1	1.2	0.2	1.3
[illegible]	-	0.2	0.1	0.2	-	0.5
[illegible]	-	[illegible]	-	0.1	-	0.2
[illegible]		1.4	0.3	1.3	0.4	3.4

[illegible] from [illegible] metals emissions < 0.05 tons/year

TABLE 27-5

LEAD EMISSIONS IN CALIFORNIA BY NON-VEHICULAR SOURCES - 1977

(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTAL
Northeast Plateau						
Lassen	-	0.1	0.2	0.1	-	0.4
Modoc	-	0.1	0.4	-	-	0.5
Shasta	-	-	0.1	-	-	0.1
Siskiyou	-	0.2	0.6	0.2	-	1.0
Total	-	0.4	1.3	0.3	-	2.0
Sacramento Valley						
Butte	-	0.8	0.5	0.7	-	2.0
Colusa	-	0.1	0.5	0.1	-	0.7
Glenn	-	0.1	0.4	0.1	-	0.6
Sacramento	0.1	4.8	0.5	3.8	-	9.2
Shasta	-	0.6	0.1	0.5	-	1.2
Solano	-	0.3	0.3	0.2	-	0.8
Sutter	-	0.3	0.7	0.3	-	1.3
Tehama	-	0.2	0.2	0.2	-	0.6
Yolo	-	0.6	0.6	0.6	0.3	2.1
Yuba	-	0.2	0.2	0.2	-	0.6
Total	0.1	8.0	4.0	6.7	0.3	19.1
San Diego Air Basin	0.1	8.8	0.1	8.9	1.3	19.2

* A dash mark means emissions < 0.05 tons/year

TABLE 27-5

LEAD EMISSIONS IN CALIFORNIA BY NON-VEHICULAR SOURCES - 1977
(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTAL
San Francisco						
Bay Area						
Alameda	0.1	6.5	*	5.9	0.2	12.7
Contra Costa	0.1	4.6	0.1	3.2	9.8	17.8
Marin	-	1.5	-	1.2	-	2.7
Napa	-	0.6	0.1	0.5	-	1.2
San Francisco	0.1	3.0	-	3.5	0.5	7.1
San Mateo	0.1	3.9	-	3.1	-	7.1
Santa Clara	0.1	7.4	0.1	6.4	-	14.0
Solano	-	0.9	0.1	0.8	-	1.8
Sonoma	-	1.5	0.1	1.2	-	2.8
Total	0.5	29.9	0.5	25.8	10.5	67.2
San Joaquin Valley						
Fresno	-	2.8	2.5	2.5	0.2	8.0
Kern	-	1.7	1.8	1.6	8.7	13.8
Kings	-	0.3	1.3	0.4	-	2.0
Madera	-	0.3	0.6	0.3	-	1.2
Merced	-	0.6	1.0	0.7	1.1	3.4

* a dash mark means emissions <0.05 tons/year

TABLE 27-5

LEAD EMISSIONS IN CALIFORNIA BY NON-VEHICULAR SOURCES - 1977
(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
(continued)	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTAL
San Joaquin Valley						
San Joaquin	*	2.0	1.2	1.6	1.1	5.9
Stanislaus	-	1.6	0.7	1.3	0.1	3.7
Tulare	-	1.3	1.5	1.1	-	3.9
Total	-	10.6	10.6	9.5	11.2	41.9
South Central Coast						
San Luis Obispo	-	0.7	0.5	0.7	1.5	3.4
Santa Barbara	-	1.4	0.1	1.5	1.2	4.2
Ventura	-	2.3	0.2	2.5	1.2	6.2
Total	-	4.4	0.8	4.7	3.9	13.8
South Coast						
Los Angeles	0.6	32.8	0.1	37.2	37.2	107.9
Orange	0.1	9.6	0.1	9.5	1.7	21
Riverside	*	2.3	0.2	2.1	-	4.6
San Bernardino	0.1	3.6	0.1	3.2	7.3	14.3
Total	0.8	48.3	0.5	52.0	46.2	147.8

* A dash mark means emissions < 0.05 tons/year

TABLE 27-5

LEAD EMISSIONS IN CALIFORNIA BY NONVEHICULAR SOURCES - 1977
(Tons/Year)

BASIN & COUNTY	STATIONARY SOURCES					
	MARKETING	LAWN & UTILITY	FARM EQUIP.	HEAVY DUTY EQUIP.	POINT SOURCES	TOTAL
Southeast Desert						
Imperial	-	0.4	1.6	0.5	1.8	4.3
Kern	-	0.3	0.1	0.3	0.1	0.8
Los Angeles	-	0.4	-	0.4	-	0.8
Riverside	-	1.0	0.4	0.9	-	2.3
San Bernardino	-	0.8	-	0.7	1.7	3.2
San Diego	-	-	-	-	-	-
Total	-	2.9	2.1	2.8	3.6	11.4
Grand Total	1.5	120	21.2	116	80	339

* a dash mark means emissions <0.05 tons/year

DESCRIPTION OF 1982 MOBILE EMISSIONS INVENTORY

The 1982 mobile source emissions inventory is a listing of emissions from motor vehicles projected to occur in that year. The listing is by county and divides motor vehicles into five categories; light-duty passenger cars (LDP), light-duty trucks (LDT), medium-duty trucks (MDT), heavy-duty gasoline trucks (HDG), and motorcycles (MCY).

Basically, the emissions are estimated by calculating a composite lead emission factor in grams per mile and multiplying it by the vehicle miles travelled (VMT).

The composite emission factor for a specific year is a sum of emission factors weighted by vehicle miles of travel for each model year vehicles in-use in that year. The emission factor for each model year vehicles is calculated by dividing the lead content of leaded gasoline used by these vehicles by their average fuel economy. Lead content and fuel economy were discussed previously in Appendix A.

RUN DATE 5 3 1979

TABLE 27-6

CALIFORNIA AIR RESOURCES BOARD
ON-ROAD MOTOR VEHICLE LEAD EMISSIONS (TONS/YEAR)

INVENTORY YEAR 1975

AREA	LDP	LDT	MDT	HDG	MCY	TOTAL
GREAT BASIN VALLEYS A.B.						
ALPINE COUNTY	0.430	0.192	0.027	0.088	0.002	0.739
INYO COUNTY	7.833	5.203	0.741	2.374	0.072	18.222
MONO COUNTY	3.345	1.822	0.259	0.831	0.018	6.276
BASIN TOTAL	13.61	7.22	1.03	3.29	0.09	25.24
LAKE COUNTY A.B.						
LAKE COUNTY	16.472	6.743	0.960	3.078	0.093	27.346
BASIN TOTAL	16.47	6.74	0.96	3.08	0.09	27.35
LAKE TAHOE A.B.						
EL DORADO COUNTY	24.419	9.799	0.743	2.381	0.074	37.416
PLACER COUNTY	8.309	3.049	0.232	0.740	0.027	12.357
BASIN TOTAL	32.73	12.85	0.97	3.12	0.10	49.77
MOUNTAIN COUNTIES A.B.						
AMADOR COUNTY	8.616	4.667	0.665	2.130	0.061	16.139
CALAVERAS COUNTY	8.628	4.705	0.670	2.148	0.050	16.201
EL DORADO COUNTY	20.525	8.236	1.172	3.760	0.117	33.810
MARIPOSA COUNTY	4.485	2.250	0.321	1.028	0.029	8.113
NEVADA COUNTY	20.197	8.676	1.235	3.961	0.130	34.199
PLACER COUNTY	51.179	18.789	2.674	8.581	0.314	81.536
PLUMAS COUNTY	7.958	4.343	0.618	1.984	0.045	14.947
SIERRA COUNTY	1.344	0.898	0.129	0.412	0.008	2.791
TUOLUMNE COUNTY	14.659	7.453	1.062	3.403	0.094	26.671
BASIN TOTAL	137.59	60.02	8.54	27.41	0.85	234.41
NORTH CENTRAL COAST A.B.						
MONTEREY COUNTY	145.661	33.755	4.806	15.416	0.467	200.104
SAN BENITO COUNTY	10.693	4.432	0.630	2.024	0.037	17.816
SANTA CRUZ COUNTY	95.651	24.360	3.469	11.123	0.351	134.954
BASIN TOTAL	252.01	62.55	8.91	28.56	0.85	352.87
NORTH COAST A.B.						
DEL NORTE COUNTY	8.223	3.772	0.536	1.721	0.044	14.297
HUMBOLDT COUNTY	58.006	23.699	3.375	10.820	0.289	96.189
MENDOCINO COUNTY	31.385	15.012	2.138	6.856	0.170	55.561
SONOMA COUNTY	18.263	5.395	0.768	2.462	0.084	26.972
TRINITY COUNTY	4.396	2.839	0.404	1.295	0.044	8.978
BASIN TOTAL	120.27	50.72	7.22	23.15	0.63	202.00

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* * * PL/I DUMP * * *

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TABLE 27-6

INVENTORY YEAR 1975

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

	LDP	LDT	MDT	HDG	MCY	TOTAL
NORTHEAST PLATEAU A.B						
LASSEN COUNTY	8.933	5.306	0.755	2.422	0.071	17.487
MODOC COUNTY	4.016	3.024	0.431	1.382	0.019	8.872
SHASTA COUNTY	3.465	1.614	0.230	0.737	0.020	6.066
SISKIYOU COUNTY	18.980	11.798	1.679	5.387	0.104	37.948
BASIN TOTAL	35.39	21.74	3.10	9.93	0.21	70.37
SACRAMENTO VALLEY A.B.						
BUTTE COUNTY	68.407	26.555	3.781	11.998	0.428	111.168
COLUSA COUNTY	7.376	4.828	0.687	2.181	0.041	15.112
GLENN COUNTY	11.307	6.682	0.952	3.020	0.070	22.031
SACRAMENTO COUNTY	438.048	110.199	15.692	49.791	1.990	615.720
SHASTA COUNTY	47.541	22.147	3.154	10.007	0.273	83.123
SOLANO COUNTY	23.015	5.214	0.743	2.356	0.109	31.438
SUTTER COUNTY	25.905	10.965	1.562	4.953	0.150	43.534
TEHAMA COUNTY	17.415	9.078	1.293	4.103	0.096	31.985
YOLO COUNTY	55.743	19.720	2.808	8.909	0.285	87.466
YUBA COUNTY	23.062	8.865	1.261	4.004	0.146	37.339
BASIN TOTAL	717.82	224.25	31.93	101.32	3.59	1078.92
SAN DIEGO A.B.						
SAN DIEGO COUNTY	877.398	173.966	24.772	81.166	3.782	1161.080
BASIN TOTAL	877.40	173.97	24.77	81.17	3.78	1161.08
S.F. BAY AREA A.B.						
ALAMEDA COUNTY	602.908	113.164	16.113	53.971	2.489	788.645
CONTRA COSTA COUNTY	354.942	62.373	8.882	29.748	1.521	457.466
MARIN COUNTY	135.799	19.095	2.720	9.106	0.518	167.237
NAPA COUNTY	51.547	14.303	2.036	6.823	0.266	74.976
SAN FRANCISCO COUNTY	306.247	52.584	7.487	25.080	0.728	392.126
SAN MATEO COUNTY	382.153	58.476	8.327	27.888	1.246	478.090
SANTA CLARA COUNTY	716.011	125.916	17.929	60.054	2.911	922.820
SOLANO COUNTY	77.214	17.493	2.491	8.344	0.386	105.928
SONOMA COUNTY	125.022	36.929	5.259	17.615	0.601	185.425
BASIN TOTAL	2751.84	500.33	71.24	238.63	10.66	3572.71

FLC 2 INTC 0033

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USTL	0000011E	ECB	8080DE48	UBET	8E31F180	TLCH	00000000
MCH	00000000	ASXB	0080F300	SWOP	190D0000	SRBS	00000000
LOCK	00000000	LSQH	00000000	QECB	00000000	MECB	40000000
FMCT	00460000	XMPQ	00000000	IQEA	00000000	RTWA	00000000
BNS	00FAD628	SRQ	00000000	VGTT	00000000	PCTT	00000000
SRBT	00000000	ATME	7471DB3E	LSMQ	00000000	LSPL	00000000
PRB	0080EA20	SRDP	71FFFFFF	RESV	00000000	RESV	00000000

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TABLE 27-6

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1975

	LDP	LDT	MDT	HDG	MCY	TOTAL
SAN JOAQUIN VALLEY A.B.						
FRESNO COUNTY	253.755	83.078	11.829	37.935	1.096	387.693
KERN COUNTY	162.595	60.154	8.565	27.469	1.004	259.787
KINGS COUNTY	33.172	13.312	1.895	6.079	0.216	54.674
MADERA COUNTY	24.898	11.796	1.679	5.387	0.111	43.871
MERCED COUNTY	59.475	23.171	3.299	10.580	0.274	96.799
SAN JOAQUIN COUNTY	172.460	54.078	7.701	24.693	0.799	259.731
STANISLAUS COUNTY	125.768	43.939	6.257	20.065	0.599	196.629
TULARE COUNTY	107.523	42.875	6.105	19.580	0.571	176.654
BASIN TOTAL	939.65	332.40	47.33	151.79	4.67	1475.84
SOUTH CENTRAL COAST A.B.						
SAN LUIS OBISPO COUNTY	75.781	23.861	3.398	10.241	0.356	113.637
SANTA BARBARA COUNTY	178.305	37.783	5.381	16.218	0.740	238.427
VENTURA COUNTY	270.639	56.647	8.065	24.314	1.169	360.834
BASIN TOTAL	524.73	118.29	16.84	50.77	2.27	712.90
SOUTH COAST A.B.						
LOS ANGELES COUNTY	4546.020	718.452	102.300	308.391	15.143	5690.310
ORANGE COUNTY	1145.400	195.735	27.870	84.018	4.670	1457.690
RIVERSIDE COUNTY	225.241	59.246	8.435	25.430	0.934	319.286
SAN BERNARDINO COUNTY	347.217	91.769	13.068	39.390	1.638	493.081
BASIN TOTAL	6263.88	1065.20	151.67	457.23	22.38	7960.37
SOUTHEAST DESERT A.B.						
IMPERIAL COUNTY	43.207	17.254	2.456	7.877	0.157	70.952
KERN COUNTY	31.595	11.688	1.665	5.339	0.195	50.482
LOS ANGELES COUNTY	48.839	7.718	1.100	3.523	0.173	61.353
RIVERSIDE COUNTY	83.157	21.873	3.114	9.989	0.367	118.499
SAN BERNARDINO COUNTY	69.281	18.311	2.607	8.362	0.348	98.909
BASIN TOTAL	276.08	76.84	10.94	35.09	1.24	400.19
SOUTH CENTRAL COAST A.S.						
SAN LUIS OBISPO COUNTY	71.234	22.429	3.194	10.241	0.356	107.454
SANTA BARBARA COUNTY	72.624	15.390	2.192	7.028	0.321	97.554
BASIN TOTAL	143.86	37.82	5.39	17.27	0.68	205.01

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TABLE 27- 6

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1975

	LDP	LDT	MDT	HDG	MCY	TOTAL
SOUTH COAST A.S.						
LOS ANGELES COUNTY	4546.020	718.452	102.300	308.391	15.143	5690.310
ORANGE COUNTY	1145.400	195.735	27.870	84.018	4.670	1457.690
RIVERSIDE COUNTY	225.241	59.246	8.435	25.430	0.934	319.286
SAN BERNARDINO COUNTY	347.217	91.769	13.068	39.390	1.638	493.081
SANTA BARBARA COUNTY	101.046	21.411	3.049	9.190	0.420	135.115
VENTURA COUNTY	270.639	56.647	8.065	24.314	1.169	360.834
BASIN TOTAL	6635.57	1143.26	162.79	490.73	23.97	8456.32
STATE TOTAL	12959.50	2713.12	385.46	1214.54	51.43	17324.00

LDP=LIGHT DUTY PASSENGER VEHICLES
LDT=LIGHT DUTY TRUCKS
MDT=MEDIUM DUTY TRUCKS
HDG=HEAVY DUTY GASOLINE TRUCKS
MCY= MOTORCYCLES

LEAD EMISSIONS FROM DIESEL OPERATED VEHICLES ARE NEGLIGIBLE

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0GG19AQ	EPA	00B4A000	XL/MJ	00FB83F0	USE	00130000	ATTR	B922000
3MBSTVA	EPA	00081128	XL/MJ	0080C0A8	USE	00020000	ATTR	3122000
0GG19DJ	EPA	00B31A28	XL/MJ	00FD0870	USE	00180000	ATTR	B922000
3MBSTAB	EPA	000B12E8	XL/MJ	007E9180	USE	00010000	ATTR	3122000
B42PGRA	EPA	000B2CA8	XL/MJ	0080C888	USE	00010000	ATTR	3122000

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9220	000ECB18				
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RUN DATE 3 1979

TABLE 27-7

CALIFORNIA AIR RESOURCES BOARD
ON-ROAD MOTOR VEHICLE LEAD EMISSIONS (TONS/YEAR)

INVENTORY YEAR: 1976

AREA	LDP	LDT	MDT	HDG	MCY	TOTAL
GREAT BASIN VALLEYS A.B.						
ALPINE COUNTY	0.400	0.133	0.029	0.092	0.002	0.706
INYO COUNTY	9.143	5.146	0.817	2.584	0.079	17.770
MONO COUNTY	3.205	1.831	0.290	0.919	0.020	6.265
BASIN TOTAL	12.75	7.16	1.14	3.59	0.10	24.74
LAKE COUNTY A.B.						
LAKE COUNTY	15.357	6.651	1.056	3.341	0.102	26.507
BASIN TOTAL	15.36	6.65	1.06	3.34	0.10	26.51
LAKE TAHOE A.B.						
EL DORADO COUNTY	23.193	9.824	0.831	2.627	0.083	36.557
PLACER COUNTY	7.874	3.049	0.259	0.814	0.030	12.026
BASIN TOTAL	31.07	12.87	1.09	3.44	0.11	48.58
MOUNTAIN COUNTIES A.B.						
AMADOR COUNTY	8.029	4.640	0.737	2.330	0.068	15.804
CALAVERAS COUNTY	8.025	4.658	0.740	2.340	0.056	15.820
EL DORADO COUNTY	19.495	8.257	1.311	4.148	0.131	33.341
MARIPOSA COUNTY	4.191	2.225	0.354	1.119	0.032	7.921
NEVADA COUNTY	18.911	8.545	1.357	4.292	0.145	33.251
PLACER COUNTY	48.503	18.784	2.982	9.440	0.348	80.057
PLUMAS COUNTY	7.432	4.225	0.670	2.124	0.050	14.502
SIERRA COUNTY	1.230	0.873	0.139	0.441	0.009	2.692
TUOLUMNE COUNTY	13.630	7.362	1.170	3.698	0.104	25.964
BASIN TOTAL	129.45	59.57	9.46	29.93	0.94	229.35
NORTH CENTRAL COAST A.B.						
MONTEREY COUNTY	135.075	33.305	5.289	16.737	0.515	190.921
SAN BENITO COUNTY	9.858	4.327	0.687	2.175	0.042	17.089
SANTA CRUZ COUNTY	89.546	24.128	3.832	12.123	0.383	130.012
BASIN TOTAL	234.48	61.76	9.81	31.03	0.94	338.02
NORTH COAST A.B.						
DEL NORTE COUNTY	7.621	3.593	0.570	1.805	0.047	13.636
HUMBOLDT COUNTY	53.644	23.258	3.694	11.685	0.318	92.599
MENDOCINO COUNTY	29.243	14.678	2.331	7.376	0.189	53.817
SONOMA COUNTY	17.343	5.425	0.861	2.724	0.093	26.445
TRINITY COUNTY	4.083	2.775	0.440	1.393	0.048	8.740
BASIN TOTAL	111.93	49.73	7.90	24.98	0.70	195.24

ATION 007ECD44

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0009 LENGTH    L7       AMTYPE    20        TBLOF    0004
DA   08000000  PATB     0F000100
DR   8F0CB504  APPADR   047ECD20
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ATION 007ECDFC

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 A   08000000  PATB     00000100
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TABLE 27- 7

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1976

	LDP	LDT	MDT	HDG	MCY	TOTAL
NORTHEAST PLATEAU A.B.						
LASSEN COUNTY	8.202	5.209	0.827	2.616	0.078	16.933
MODOC COUNTY	3.635	2.884	0.459	1.451	0.020	8.449
SHASTA COUNTY	3.221	1.593	0.253	0.800	0.022	5.889
SISKIYOU COUNTY	17.527	11.536	1.831	5.795	0.115	36.804
BASIN TOTAL	32.59	21.22	3.37	10.66	0.24	68.08
SACRAMENTO VALLEY A.B.						
BUTTE COUNTY	63.621	26.241	4.167	13.046	0.470	107.546
COLUSA COUNTY	6.671	4.658	0.739	2.315	0.046	14.428
GLENN COUNTY	10.537	6.508	1.034	3.236	0.076	21.392
SACRAMENTO COUNTY	406.925	109.597	17.407	54.488	2.215	590.632
SHASTA COUNTY	44.194	21.854	3.472	10.866	0.305	80.691
SOLANO COUNTY	21.426	5.165	0.821	2.568	0.120	30.101
SUTTER COUNTY	23.926	10.843	1.722	5.389	0.163	42.044
TEHAMA COUNTY	16.085	8.997	1.429	4.474	0.107	31.092
YOLO COUNTY	52.064	19.519	3.101	9.703	0.315	84.702
YUBA COUNTY	21.290	8.736	1.387	4.342	0.159	35.914
BASIN TOTAL	666.74	222.12	35.28	110.43	3.98	1038.54
SAN DIEGO A.B.						
SAN DIEGO COUNTY	824.642	174.758	27.756	89.716	4.221	1121.090
BASIN TOTAL	824.64	174.76	27.76	89.72	4.22	1121.09
S.F. BAY AREA A.B.						
ALAMEDA COUNTY	555.067	111.797	17.755	58.669	2.757	746.045
CONTRA COSTA COUNTY	330.364	61.967	9.842	32.520	1.689	436.383
MARIN COUNTY	126.555	18.925	3.006	9.931	0.578	158.996
NAPA COUNTY	48.024	14.059	2.232	7.380	0.298	71.993
SAN FRANCISCO COUNTY	276.723	50.329	7.993	26.413	0.812	362.270
SAN MATEO COUNTY	353.967	57.936	9.202	30.402	1.377	452.885
SANTA CLARA COUNTY	672.247	126.406	20.075	66.336	3.276	888.341
SOLANO COUNTY	71.881	17.330	2.752	9.096	0.427	101.485
SONOMA COUNTY	118.723	37.132	5.898	19.489	0.661	181.903
BASIN TOTAL	2553.55	495.88	78.76	260.24	11.88	3400.30

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[illegible]ION 00750c18

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Table 27-7

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1976

	LDP	LDT	MDT	HDG	MCY	TOTAL
SAN JOAQUIN VALLEY A.B.						
FRESNO COUNTY	234.833	81.847	12.999	41.123	1.207	372.008
KERN COUNTY	150.016	59.286	9.415	29.788	1.117	249.622
KINGS COUNTY	30.569	13.059	2.073	6.562	0.238	52.502
MADERA COUNTY	23.125	11.620	1.845	5.839	0.126	42.554
MERCED COUNTY	55.384	22.867	3.631	11.489	0.306	93.677
SAN JOAQUIN COUNTY	159.335	53.374	8.477	26.817	0.880	248.883
STANISLAUS COUNTY	116.379	43.578	6.922	21.897	0.649	189.425
TULARE COUNTY	100.088	42.223	6.706	21.217	0.618	170.852
BASIN TOTAL	869.73	327.85	52.07	164.73	5.14	1419.52
SOUTH CENTRAL COAST A.B.						
SAN LUIS OBISPO COUNTY	71.006	23.776	3.776	11.228	0.393	110.178
SANTA BARBARA COUNTY	165.444	37.251	5.918	17.596	0.818	227.027
VENTURA COUNTY	255.172	56.418	8.959	26.645	1.296	348.491
BASIN TOTAL	491.62	117.45	18.65	55.47	2.51	685.70
SOUTH COAST A.B.						
LOS ANGELES COUNTY	4170.120	704.344	111.864	332.669	16.716	5335.710
ORANGE COUNTY	1077.660	197.255	31.328	93.165	5.220	1404.630
RIVERSIDE COUNTY	210.601	58.754	9.330	27.749	1.037	307.471
SAN BERNARDINO COUNTY	322.046	90.729	14.411	42.852	1.818	471.857
BASIN TOTAL	5780.43	1051.08	166.93	496.44	24.79	7519.68
SOUTHEAST DESERT A.B.						
IMPERIAL COUNTY	40.320	16.854	2.676	8.466	0.175	68.491
KERN COUNTY	29.151	11.520	1.830	5.790	0.217	48.507
LOS ANGELES COUNTY	44.801	7.567	1.202	3.800	0.191	57.561
RIVERSIDE COUNTY	77.752	21.691	3.444	10.900	0.407	114.194
SAN BERNARDINO COUNTY	64.259	18.103	2.875	9.097	0.386	94.720
BASIN TOTAL	256.28	75.73	12.03	38.05	1.38	383.47
SOUTH CENTRAL COAST A.S.						
SAN LUIS OBISPO COUNTY	66.745	22.349	3.549	11.228	0.393	104.265
SANTA BARBARA COUNTY	67.386	15.173	2.411	7.625	0.354	92.949
BASIN TOTAL	134.13	37.52	5.96	18.85	0.75	197.2[illegible]

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TABLE 27-7

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1976

	LDP	LDT	MDT	HDG	MCY	TOTAL
SOUTH COAST A.S.						
LOS ANGELES COUNTY	4170.120	704.344	111.864	332.669	16.716	5335.710
ORANGE COUNTY	1077.660	197.255	31.328	93.165	5.220	1404.630
RIVERSIDE COUNTY	210.601	58.754	9.330	27.749	1.037	307.471
SAN BERNARDINO COUNTY	322.046	90.729	14.411	42.852	1.818	471.857
SANTA BARBARA COUNTY	93.757	21.110	3.353	9.971	0.463	128.654
VENTURA COUNTY	255.172	56.418	8.959	26.645	1.296	348.491
BASIN TOTAL	6129.36	1128.61	179.24	533.05	26.55	7996.82
STATE TOTAL	12010.60	2683.84	425.29	1322.06	57.02	16498.80

LDP=LIGHT DUTY PASSENGER VEHICLES
LDT=LIGHT DUTY TRUCKS
MDT=MEDIUM DUTY TRUCKS
HDG=HEAVY DUTY GASOLINE TRUCKS
MCY= MOTORCYCLES

LEAD EMISSIONS FROM DIESEL OPERATED VEHICLES ARE NEGLIGIBLE

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E3C6C4C2 C8D9E440   *NFORM PROCESSING DATA SET  THRU *
C3D6E3C6 C3E3D3C6   *CONFORMCTLFCT  WRITING THRU CTLF*
C3E3D6C3 C5D6E3D6   *CT TO DATA SET ..  ENDING DUE TO*
E3C6C4C4 C5E3E4D9   * UNDEFINED FILE ERROR .... RETUR*
C3D6E4C4 E6D54050   *N CODE SET TO 32 .. GOING DOWN .*
F0F0D5C3 E4D5C3C2   *...RETURN CODE SET TO  990NFUNAB*
C5C3C4D4 C4D3E2E3   *LE TO OPEN FILE .. MISSING DD ST*
C5D4C3C5 D9D9D6D9   *ATEMENT..  PLI CODE ...... ERROR*
C3D6D5C4 D9C9D5C7   *   PLI. DURING CONVERSION DURING*
C3E3D9C9 D5C7407F   * CONVERSION IN FILE  OF STRING .*
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RUN DATE 3 3 1979 TABLE 27-8 CALIFORNIA AIR RESOURCES BOARD

ON-ROAD MOTOR VEHICLE LEAD EMISSIONS (TONS/YEAR)

INVENTORY YEAR: 1977

AREA	LDP	LDT	MDT	HDG	MCY	TOTAL
GREAT BASIN VALLEYS A.B.						
ALPINE COUNTY	0.324	0.143	0.027	0.108	0.002	0.605
INYO COUNTY	7.420	4.186	0.779	3.164	0.074	15.642
MONO COUNTY	2.673	1.510	0.288	1.141	0.018	5.631
BASIN TOTAL	10.42	5.84	1.11	4.41	0.09	21.88
LAKE COUNTY A.B.						
LAKE COUNTY	12.494	5.396	1.030	4.080	0.093	23.093
BASIN TOTAL	12.49	5.40	1.03	4.08	0.09	23.09
LAKE TAHOE A.B.						
EL DORADO COUNTY	19.195	8.088	0.822	3.256	0.077	31.438
PLACER COUNTY	6.504	2.503	0.255	1.007	0.028	10.298
BASIN TOTAL	25.70	10.59	1.08	4.26	0.11	41.74
MOUNTAIN COUNTIES A.B.						
AMADOR COUNTY	6.529	3.791	0.724	2.866	0.064	13.974
CALAVERAS COUNTY	6.515	3.792	0.724	2.868	0.052	13.952
EL DORADO COUNTY	16.134	6.798	1.297	5.141	0.122	29.492
MARIPOSA COUNTY	3.417	1.809	0.346	1.370	0.030	6.972
NEVADA COUNTY	15.448	6.923	1.321	5.234	0.136	29.063
PLACER COUNTY	40.063	15.425	2.943	11.670	0.325	70.425
PLUMAS COUNTY	6.057	3.384	0.645	2.561	0.046	12.693
SIERRA COUNTY	0.983	0.699	0.134	0.531	0.008	2.355
TUOLUMNE COUNTY	11.060	5.981	1.142	4.523	0.096	22.802
BASIN TOTAL	106.21	48.60	9.28	36.76	0.88	201.73
NORTH CENTRAL COAST A.B.						
MONTEREY COUNTY	109.340	27.026	5.158	20.445	0.477	162.446
SAN BENITO COUNTY	7.936	3.478	0.663	2.631	0.039	14.747
SANTA CRUZ COUNTY	73.134	19.648	3.751	14.861	0.352	111.745
BASIN TOTAL	190.41	50.15	9.57	37.94	0.87	288.94
NORTH COAST A.B.						
DEL NORTE COUNTY	6.165	2.821	0.538	2.132	0.042	11.697
HUMBOLDT COUNTY	43.311	18.780	3.585	14.203	0.294	80.173
MENDOCINO COUNTY	23.778	11.810	2.254	8.934	0.177	46.954
SONOMA COUNTY	14.351	4.478	0.855	3.384	0.086	23.153
TRINITY COUNTY	3.310	2.233	0.426	1.687	0.044	7.700
BASIN TOTAL	90.92	40.12	7.66	30.34	0.64	169.68

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0500710  40400701          *............ ....... ... ... .P.*
47F031AE 4880058           * . ....0 ..... ...........0.... .*
47800004 12554720          *........... ... ............4....*
00254780 1110312A          *..U...................0.... .......*
0000     0000000 0000701   *..........0.... .....N. . .....P.*
1C6      00584770 314E02F1 * . ... ....0 ..... ............1*
317180E  91020059          *........... ..0................*
0003170  18751767          *....... ....... ................ . ... .*
5060408  91204024          *.. ....K...H.............. ..........*
4BEA0030 07FE5602          *....... ....0 ..... ............*
47103186 95804025          * ....0 ..... ....0.... ....... .*
3120024  4780220A          *.. ..... . .........H....... .....*
00000    30440078          *.. ....0 ...K......K.... .......0..*
1250201  00503202          *........... ..0..K....F.0..K....B*
1800000  38D00004          *K.... .......0.....................*
```

TABLE 27-8

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1977

	LDP	LDT	MDT	HDG	MCY	TOTAL
NORTHEAST PLATEAU A.B.						
LASSEN COUNTY	6.577	4.208	0.803	3.181	0.072	14.841
MODOC COUNTY	2.875	2.267	0.433	1.716	0.018	7.308
SHASTA COUNTY	2.613	1.293	0.247	0.977	0.021	5.151
SISKIYOU COUNTY	14.131	9.282	1.771	7.019	0.107	32.310
BASIN TOTAL	26.20	17.05	3.25	12.89	0.22	59.61
SACRAMENTO VALLEY A.B.						
BUTTE COUNTY	51.641	21.324	4.070	15.960	0.434	93.428
COLUSA COUNTY	5.270	3.701	0.705	2.769	0.043	12.488
GLENN COUNTY	8.568	5.218	0.997	3.906	0.069	18.758
SACRAMENTO COUNTY	329.941	89.579	17.099	67.044	2.070	505.732
SHASTA COUNTY	35.856	17.736	3.386	13.275	0.285	70.538
SOLANO COUNTY	17.407	4.207	0.804	3.149	0.112	25.679
SUTTER COUNTY	19.294	8.816	1.683	6.596	0.149	36.539
TEHAMA COUNTY	12.971	7.330	1.399	5.487	0.100	27.287
YOLO COUNTY	42.430	15.885	3.033	11.888	0.292	73.527
YUBA COUNTY	17.161	7.081	1.351	5.298	0.145	31.035
BASIN TOTAL	540.54	180.88	34.53	135.37	3.70	895.01
SAN DIEGO A.B.						
SAN DIEGO COUNTY	675.970	144.126	27.511	111.386	3.952	962.945
BASIN TOTAL	675.97	144.13	27.51	111.39	3.95	962.95
S.F. BAY AREA A.B.						
ALAMEDA COUNTY	446.224	90.823	17.335	71.750	2.565	628.698
CONTRA COSTA COUNTY	268.355	50.601	9.659	39.976	1.575	370.166
MARIN COUNTY	102.923	15.420	2.944	12.182	0.541	134.010
NAPA COUNTY	39.046	11.368	2.169	8.983	0.280	61.846
SAN FRANCISCO COUNTY	218.424	39.681	7.574	31.349	0.760	297.788
SAN MATEO COUNTY	286.210	47.190	9.008	37.279	1.279	380.966
SANTA CLARA COUNTY	550.511	104.188	19.886	82.311	3.092	759.989
UPLAND COUNTY	58.400	14.114	2.694	11.152	0.396	86.756
SONOMA COUNTY	98.241	30.649	5.851	24.216	0.611	159.568
BASIN TOTAL	2068.33	404.04	77.12	319.20	11.10	2879.79

```
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[illegible] 478030C8 41830008 46A03078  *...H.........0.... ....H........*
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[illegible] 96EBD00C 07FF98E6 D00C5820  *.............................*
[illegible] 41300066 205D4100 D0680700  *........0......K.....K...........*
[illegible] 05305040 006CD201 D0683014  *.........0..IBMBRE A... ..K......*
[illegible] 00000000 00000000 00000000  *.....0........................*
[illegible] 07009059 D00C0530 47F0300C  *....IBMBOPAA...........Z......0..*
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[illegible] 008 00044010 41100050  *K.....0.....0.UK.....K... .....*
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[illegible] 07E 501D0018 0203D0AC  *.0....T..............0......K...*
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[illegible] 8A0 00740F5F 58F00048  *.0.......................0.....0..*
[illegible] 0820 00046800 40135FF6  *.0........J.......................6*
[illegible] 0010 0554000 41103143  *.....................0A.........*
[illegible] 0031 04050700 41060004  *.....................0.............*
[illegible] 0000 00200000 47803000  *.....................................*
[illegible] 0055 4481F1A 02022009  *.J..N.A......... A..........A.K...*
[illegible] 0740 02070047 20000208  *..K.....K.........K.....K.....K.*
[illegible] 0001 70F10018 41100054  *.............0...........1......*
[illegible] 0040752 98180018  *.6.........U...............2....*
[illegible] 0009 00000550  *K........IEAXPSIM...............*
[illegible] 0910 20330710  *...............0..BEFL 815......*
[illegible] 4100 47100002  *............... ..K..0.0........*
[illegible] 78C040 12044700  *..... .......S.................*
[illegible] 0004 30041890  *.8.......S....... ...........M..*
[illegible] 0040 00100040 02032040  *...............0.............K...*
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[illegible] 0000 12A04780 30EF18A9  *................ .............*
[illegible] 0000A68 98000004 96EBD00C  *.....  .K. . .....K.............*
[illegible] 0 0104710 31004860 C04C5840  *...............0.6............ *
[illegible] 56 00000 0240000 1F541E85  *....... .M. ...S...............V*
[illegible] 0 0002 00000000 C04C4780  *............5...S...............0*
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TABLE 27-8

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1977

	LDP	LDT	MDT	HDG	MCY	TOTAL
SAN JOAQUIN VALLEY A B.						
FRESNO COUNTY	189.722	66.322	12.659	50.164	1.117	319.985
KERN COUNTY	120.849	48.058	9.172	36.350	1.043	215.472
KINGS COUNTY	24.598	10.541	2.011	7.974	0.219	45.344
MADERA COUNTY	18.746	9.415	1.797	7.122	0.120	37.199
MERCED COUNTY	45.009	18.559	3.542	14.037	0.287	81.434
SAN JOAQUIN COUNTY	128.524	43.323	8.270	32.768	0.813	213.697
STANISLAUS COUNTY	94.014	35.530	6.782	26.876	0.591	163.793
TULARE COUNTY	81.309	34.202	6.528	25.873	0.562	148.475
BASIN TOTAL	702.77	265.95	50.76	201.16	4.75	1225.40
SOUTH CENTRAL COAST A.B.						
SAN LUIS OBISPO COUNTY	58.039	19.466	3.716	13.839	0.364	95.423
SANTA BARBARA COUNTY	133.997	30.207	5.767	21.481	0.758	192.211
VENTURA COUNTY	209.778	46.173	8.812	32.827	1.207	298.796
BASIN TOTAL	401.81	95.85	18.30	68.15	2.33	586.43
SOUTH COAST A B.						
LOS ANGELES COUNTY	3340.670	568.161	108.446	403.972	15.500	4436.750
ORANGE COUNTY	884.236	163.141	31.139	115.996	4.896	1199.410
RIVERSIDE COUNTY	171.801	47.898	9.141	34.055	0.966	263.862
SAN BERNARDINO COUNTY	260.736	73.760	14.080	52.444	1.695	402.715
BASIN TOTAL	4657.45	852.96	162.81	606.47	23.06	6302.73
SOUTHEAST DESERT A.B.						
IMPERIAL COUNTY	32.833	13.548	2.586	10.246	0.164	59.376
KERN COUNTY	23.483	9.338	1.783	7.065	0.203	41.872
LOS ANGELES COUNTY	35.890	6.104	1.166	4.615	0.177	47.951
RIVERSIDE COUNTY	63.427	17.683	3.375	13.377	0.379	98.242
SAN BERNARDINO COUNTY	52.026	14.717	2.809	11.134	0.360	81.045
BASIN TOTAL	207.66	61.39	11.72	46.44	1.28	328.49
SOUTH CENTRAL COAST A.S.						
SAN LUIS OBISPO COUNTY	54.556	18.298	3.493	13.839	0.364	90.550
SANTA BARBARA COUNTY	54.577	12.304	2.350	9.308	0.329	78.868
BASIN TOTAL	109.13	30.60	5.84	23.15	0.69	169.42

```
F008040 12004780 33761BAA 50A0D064  *.8.............................*
 031AE 01042076 478031AE D203D06C  * ... ....S.................K...*
 00001 00A9E000 943FD06E 43AE0000  *............0.. ...K.............*
 0140 10284780 31DE41AA 000443AA  *............... ... ............*
2844580 15A0D205 40000072 948F1028  *......................K. .......*
 20000 12E84740 321E9610 10289600  *......0...........S..... ........*
 8000068 02034000 D06A9108 10284780  *..K. ........0......K. .........*
 000D06A 1101028 47103280 45E03502  *...  ......0..K. ..............*
 0644500 247A47F0 3280D205 40000D06A  *........K. ............0..K. ...*
 5A0D078 D700D078 00781810 41908048  *....................P...........*
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 03376 45E03520 5840D074 12444780  *.......................... ......*
 F00102 98E20000 12EE4780 33029280  *...........P......0...S..........*
 1E040F 10104EE0 36024FF0 33769120  *.......0... ..............C.....*
 D0078 45E03680 47F03376 91201010  *........S................0......*
 174 12444780 337692A0 007845E0  *..... ........... .............*
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 EE 0029806 001453FD 000C04F0  *.............................0*
 F0 0401E1 55000000C 47003305  *............7................F*
 38700 12000001 5820D004  *.0.....0...0.......J............*
 125 47803412 45E03520  *...... ............. ..........*
 2F2 47803420 46081029  *. ..K. ........0...2...2........*
 0 1004780 340445E0 15205840  *.............................. *
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 0000 07FE2850 101C1255  *.0...2...2..... ...K............*
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 0 47803428 32012001 478034CC  *....K.........K......0.Y........*
 03980 06A0 2240 50000206  *........................... ..K.*
 3 36E4010 5820D004  *.......H...........8............*
 40 1021040 101407FE  *... ...7....... ... ... ... ....*
 0 03540 01085000 47103520  *...................... .........*
 0 0011720 35769104  *...............K..............*
 0 0045355 00105855  *..............................*
 0 0074156 00005560  *..............................*
 0 0005850 00504660  *....................K.........*
 720 6DE41A0 0006185A  *.. ............................*
 0 0 0 5080D074  *....................K.........*
 0 0 0 41109048  *............. ...............*
 0 0 0014780 36205860  *..............................*
 0 0 707647 0 36625877  *...........0..................*
 0 0 0 14A03A22  *..............................*
 0 0 0 91101010  *............. ........... ......*
 0 0 0 47F03 58701034  *.......................0......*
 0 0 00044140 00019680  *..... ..... . ................*
 0 0 0 10104A7 00005047  *..............................*
 0 0 0 0 07755090  *............. ...............*
 0 0 0 47803740 58440004  *..... ........ .... .. .... ....*
 0 0 0 39951350 40048850  *.............................. ...*
 0 0 0 41440000 41778000  *........ .K.....................*
 0 0 0 39400002 39400002  *................ ....... ... ..*
 0 0 0 35965080 00585840  *N. ..Q...............M.........O*
 0 0 0 02033000 40055000  *..................... ..K... ...*
 0 0 0 00587000 02030050  *........ ........... .K.....K...*
 0 0 0 00655040 00584740  *............................ ... *
 0 0 0 00028503 40003AD8  *... ... ........... ... ..N. ..Q*
 0 0 0 00042A0 02584144  *...N..............O..K... .......*
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TABLE 27- 8

INVENTORY YEAR 1977

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

	LDP	LDT	MDT	HDG	MCY	TOTAL
SOUTH COAST A S						
LOS ANGELES COUNTY	3340.670	568.161	108.446	403.972	15.500	4436.750
ORANGE COUNTY	884.236	163.141	31.139	115.996	4.896	1199.410
RIVERSIDE COUNTY	171.801	47.898	9.141	34.055	0.966	263.862
SAN BERNARDINO COUNTY	260.736	73.760	14.080	52.444	1.695	402.715
SANTA BARBARA COUNTY	75.936	17.118	3.268	12.173	0.430	108.924
VENTURA COUNTY	209.778	46.173	8.812	32.827	1.207	298.796
BASIN TOTAL	4943.16	916.25	174.89	651.47	24.69	6710.46
STATE TOTAL	9716.87	2182.93	415.72	1618.86	53.07	13987.40

LDP=LIGHT DUTY PASSENGER VEHICLES
LDT=LIGHT DUTY TRUCKS
MDT=MEDIUM DUTY TRUCKS
HDG=HEAVY DUTY GASOLINE TRUCKS
MCY= MOTORCYCLES

LEAD EMISSIONS FROM DIESEL OPERATED VEHICLES ARE NEGLIGIBLE

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47203896 45603A6C D5034000 70004780  *..N. ....................N. .....*
197847D0 3884D203 70004000 41550001  *.......................K... .....*
3860000F 41660001 41704008 18554147  *..........0.... ........... .....*
49540000 47B038DC 48540000 41440004  *..K.............................*
39400002 41600024 41464007 54403AD4  *... ............ ........ .. ..M*
C05C50A0 10104161 00185046 00084146  *.........0......................*
46603928 41710018 50507004 5860B04C  *..............................*
20801004 50701014 50A07000 5870D050  *..............................*
02065001 500006A0 44A03AC8 47F0368C  *............... ..K..........H.O..*
D203D050 70001A7A 41A00004 1B7AD203  *................OK..............K.*
31809000 4780372C 5889002C 58808020  *..............6...............*
41770048 58770000 12774780 39B05957  *..............................*
00245DE0 D05058F0 C06C05EF 58E0D050  *.....M.................0........*
02081004 70044191 00185090 1014D20B  *................K..............K.*
91107010 47803A5C 4188000C 96101010  *..............................*
41990008 46603A40 47F0368C 50A90000  *......................... .0......*
41770000 18F589F0 0003D203 00604000  *.........0...........5.0..K... .*
20004740 3AAE4720 3A9E1A78 07F61A78  *..................... .........6..*
12080786 47F03A84 58FF0008 07FF0000  *.....8.0...0...8.....0..........*
1[illegible]000 [illegible]FFFFFF8 0E0E0E0E 000C0008  *........K.....N........8........*
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[illegible]0940 C3C8C3D2 C3D5D5C4 D2C5E840  *STRGSUBGAREAERR FIN CHCKCONDKEY *
[illegible]C5 C5D5C4D7 C2E3D6D3 C5D5C4E5  *REC UNDFENDFTMITNAMEENDPBVOLENDV*
[illegible]460 C0A0402 08060A00 0000001E  *PENDATTNON.     ................*
[illegible]AA 00000000 90EB000C 053047F0  *...............................0*
30200004 50E0D04C 9120C000 4780302C  *..8KDM 3.0.......................*
[illegible]050 4100316E 1B110A08 18F01816  *.....0A.......................0..*
[illegible]840 C124189C 18AD98CD 40005880  *...........0....... A....... ...*
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[illegible]A0 98C04000 5800C000 50A0803C  *.0...I................ .........*
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47F03076 91102000 47803120 4110316C  *................0.6............*
584D0048 18644A44 0B0213F8 05EF53FD  *.0........... .............S....*
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[illegible]2D 98D0D048 50200004 50E0D04C  *.U......0..BPRC 3.0..............*
[illegible]F0 303E4040 C0464110 304858F0  *........ .... .X.......  .......0*
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00000000 00030000 00000000 00800000  *..H...G.........................*
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[illegible]FF 00006000 1A811A61 1B9147F0  *....0........... 0.K............0*
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[illegible]200 00B03044 9240D0D1 02A02002  *J...K.............K...... .JK..K*
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[illegible]490 80080207 9000D0FC 46803018  *. ..... J... ... .....K.........*
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[illegible]4000 58704004 1A907000 41600034  * ..H......... J... ... .........*
00804350 381A4740 20A44460 209E47F0  *........ ...K........... .......0*
[illegible]0D0 30454780 220A4880 301C48A0  *..K...... ......N...............*
```

LEAD EMISSIONS FROM IDENTIFIED POINT SOURCES IN

CALIFORNIA EMITTING MORE THAN ONE TON PER YEAR
1977

	PROCESS	LEAD EMISSIONS, TONS/YEAR
North Central Coast Air Basin		
Monterey County		
PG&E Power Plant, Moss Landing	Oil Combustion	3
San Francisco Bay Area Air Basin		
Contra Costa County		
PG&E, Wilbur Ave., Antioch	Oil Combustion	1
Willow Pass Road, Pittsburg	Oil Combustion	3
E.I. Du Pont & Co., Bridehead Road, Antioch	Lead Melting Pots	4
South Central Coast Air Basin		
San Luis Obispo County		
PG&E, Moro Bay	Oil Combustion	2

* Except at noted all of combustion lead emissions are based on a fuel oil lead content of 3.94 ppm.

TABLE 27-9

	PROCESS	LEAD EMISSIONS TONS/YEAR
South Coast Air Basin Los Angeles County Southern California Edison Co.	Oil Combustion	
7th & Studebaker, Long Beach	(0.91 ppm)	1
1100 Harbor Drive, Redendo Beach	(0.91 ppm)	1
Los Angeles Department of Water & Power	Oil Combustion (9.7ppm)	
12700 Vista Mar, Playa Del Ray	(9.7ppm)	1
Haynes - 7033 Westminster, Long Beach	(9.7ppm)	8
Valley Steam Plant, 9430 San Fernando, Sun Valley	(9.7 ppm)	1
Shell Oil Co., P.O. Box 728, Wilmington	Oil Combustion	1
Los Angeles County Hospital, 1200 N. State St., L.A	Oil Combustion	1
U.S. Steel Corp., 840 Van Ness Ave., Torrance	Steel Furnaces	2
N.L. Industries, 2717 Indiana St., L.A.	Secondary Lead Furnaces	3
Bethlehem Steel, 3300 E. Slauson, Vernon	Steel Furnaces	1
Quemetco, Inc., 720 S. 7th Ave., City of Industry	Secondary Lead Furnaces	1
H. Kramer & Co., No. 1, Chapman Way, El Segundo	Brass-bronze & copper smelting	2
General Battery, 13110 Louden Lane, Industry	Battery mfg.	1
ESB, Inc., 5700 E. Olympic Blvd., L.A.	Battery mfg.	1
Gould, Inc. 7040 Motz, Paramount 14500 E. Nelson Ave., City of Industry	Battery mfg.	1

TABLE 27-9

	PROCESS	LEAD EMISSIONS TONS/YEAR
South Coast Air Basin (Continued)		
Los Angeles County		
DAELCO, 1629 W. 132nd, Gardena	Battery mfg.	3
Alco Mining Co., 16914 S. Broadway, Gardena		1
San Bernardino County		
Kaiser Steel, 9400 Cherry, Fontana	Waste oil Combustion	7
Orange County		
Elpower, Inc. 2117 S. Anne St., Santa Ana	Battery mfg.	1
Southeast Desert Air Basin		
San Bernardino County		
Riverside Cement Company, Oro Grande	Coal Combustion	2
Imperial County		
Imperial Irrigation District, El Centro	Oil Combustion	2
San Joaquin Valley Air Basin		
Kern County		
ARCO Production Field, 10 mi NW Bakersfield	Oil Combustion	1
Chanslor - Western Oil, P.O. Box H., Fellows, 5 mi NE Bakersfield	Oil Combustion	1
Getty Oil Col, Reed Field, 2 - 6 mi ENE Bakersfield	Oil Combustion	1
Mobil Oil Corp., 10 mi NW McKittrick & 6 mi NW Bakersfield	Oil Combustion	1
Standard Oil of California, 4 mi NE Bakersfield	Oil Combustion	1

TABLE 27-9

	PROCESS	LEAD EMISSIONS, TONS/YEAR
San Joaquin Valley Air Basin (Continued)		
Kern County		
Teneco Oil, 2 mi W. Fellows & 5 mi NNE Bakersfield	Oil Combustion	1
Shell Oil, 5 mi NW Fellows	Oil Combustion	1
Getty Oil Co., East Kern Field, 2 - 7 mi N Bakersfield	Oil Combustion	2
Merced County		
Carnation Can Co., 771 Hunt Road, Gustine	Oil Combustion	1

RUN DATE 5 3 1979

TABLE 27-10 CALIFORNIA AIR RESOURCES BOARD

ON-ROAD MOTOR VEHICLE LEAD EMISSIONS (TONS/YEAR)

INVENTORY YEAR 1982

AREA	LDP	LDT	MDT	HDG	MCY	TOTAL
GREAT BASIN VALLEYS A.B.						
ALPINE COUNTY	0.082	0.040	0.008	0.074	0.002	0.205
INYO COUNTY	1.874	1.374	0.277	2.541	0.058	6.124
MONO COUNTY	0.752	0.523	0.105	0.967	0.014	2.362
BASIN TOTAL	2.71	1.94	0.39	3.58	0.07	8.69
LAKE COUNTY A.B.						
LAKE COUNTY	3.188	1.753	0.354	3.244	0.069	8.608
BASIN TOTAL	3.19	1.75	0.35	3.24	0.07	8.61
LAKE TAHOE A.B.						
EL DORADO COUNTY	5.247	2.781	0.299	2.740	0.063	11.129
PLACER COUNTY	1.764	0.853	0.092	0.839	0.022	3.571
BASIN TOTAL	7.01	3.63	0.39	3.58	0.09	14.70
MOUNTAIN COUNTIES A.B.						
AMADOR COUNTY	1.663	1.267	0.256	2.343	0.052	5.580
CALAVERAS COUNTY	1.647	1.249	0.252	2.312	0.042	5.503
EL DORADO COUNTY	4.411	2.337	0.471	4.326	0.099	11.644
MARIPOSA COUNTY	0.880	0.593	0.120	1.099	0.025	2.716
NEVADA COUNTY	4.009	2.236	0.451	4.138	0.111	10.946
PLACER COUNTY	10.868	5.253	1.059	9.727	0.260	27.168
PLUMAS COUNTY	1.557	1.043	0.210	1.931	0.037	4.777
SIERRA COUNTY	0.232	0.214	0.043	0.399	0.006	0.895
TUOLUMNE COUNTY	2.792	1.953	0.394	3.615	0.075	8.830
BASIN TOTAL	28.06	16.15	3.26	29.89	0.71	78.06
NORTH CENTRAL COAST A.B.						
MONTEREY COUNTY	27.312	8.789	1.773	16.273	0.372	54.519
SAN BENITO COUNTY	1.934	1.087	0.219	2.013	0.033	5.287
SANTA CRUZ COUNTY	18.966	6.479	1.307	11.993	0.264	39.008
BASIN TOTAL	48.21	16.36	3.30	30.28	0.67	98.81
NORTH COAST A.B.						
DEL NORTE COUNTY	1.536	0.794	0.160	1.468	0.028	3.985
HUMBOLDT COUNTY	10.698	5.986	1.208	11.080	0.227	29.199
MENDOCINO COUNTY	6.054	3.710	0.749	6.870	0.143	17.526
SONOMA COUNTY	3.921	1.554	0.314	2.875	0.066	8.730
TRINITY COUNTY	0.832	0.701	0.141	1.297	0.033	3.005
BASIN TOTAL	23.04	12.75	2.57	23.59	0.50	62.44

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TABLE 27- 10

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1982

	LDP	LDT	MDT	HDG	MCY	TOTAL
NORTHEAST PLATEAU A.B.						
LASSEN COUNTY	1.576	1.343	0.271	2.485	0.056	5.731
MODOC COUNTY	0.645	0.641	0.129	1.188	0.012	2.615
SHASTA COUNTY	0.659	0.421	0.085	0.778	0.017	1.960
SISKIYOU COUNTY	3.469	2.916	0.588	5.397	0.084	12.455
BASIN TOTAL	6.35	5.32	1.07	9.85	0.17	22.76
SACRAMENTO VALLEY A B.						
BUTTE COUNTY	13.052	6.974	1.407	12.774	0.333	34.540
COLUSA COUNTY	1.177	1.101	0.222	2.017	0.034	4.551
GLENN COUNTY	2.182	1.615	0.326	2.959	0.050	7.132
SACRAMENTO COUNTY	83.002	29.968	6.047	54.893	1.670	175.579
SHASTA COUNTY	9.045	5.770	1.164	10.569	0.232	26.780
SOLANO COUNTY	4.417	1.388	0.280	2.543	0.088	8.716
SUTTER COUNTY	4.740	2.890	0.583	5.292	0.110	13.616
TEHAMA COUNTY	3.187	2.422	0.489	4.437	0.081	10.615
YOLO COUNTY	10.906	5.225	1.054	9.571	0.229	26.985
YUBA COUNTY	4.208	2.292	0.462	4.198	0.105	11.265
BASIN TOTAL	135.92	59.65	12.03	109.25	2.93	319.78
SAN DIEGO A B						
SAN DIEGO COUNTY	177.930	49.875	10.063	94.337	3.219	335.424
BASIN TOTAL	177.93	49.88	10.06	94.34	3.22	335.42
S F BAY AREA A.B.						
ALAMEDA COUNTY	108.139	29.671	5.986	57.368	2.035	203.200
CONTRA COSTA COUNTY	68.036	16.866	3.403	32.611	1.262	122.179
MARIN COUNTY	26.225	5.097	1.029	9.854	0.441	42.646
NAPA COUNTY	9.937	3.645	0.735	7.049	0.231	21.598
SAN FRANCISCO COUNTY	48.562	11.401	2.300	22.045	0.617	84.926
SAN MATEO COUNTY	71.150	15.577	3.143	30.116	1.008	120.993
SANTA CLARA COUNTY	144.335	35.977	7.259	69.562	2.594	259.726
SOLANO COUNTY	14.817	4.657	0.940	9.006	0.310	29.731
SONOMA COUNTY	26.839	10.639	2.147	20.572	0.473	60.670
BASIN TOTAL	518.04	133.53	26.94	258.18	8.97	945.67

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TABLE 27-10

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1982

	LDP	LDT	MDT	HDG	MCY	TOTAL
SAN JOAQUIN VALLEY A B.						
FRESNO COUNTY	46.994	21.447	4.327	39.702	0.868	113.339
KERN COUNTY	29.557	15.563	3.140	28.810	0.842	77.911
KINGS COUNTY	5.986	3.355	0.677	6.212	0.168	16.398
MADERA COUNTY	4.712	3.044	0.614	5.634	0.103	14.107
MERCED COUNTY	11.433	6.040	1.218	11.180	0.236	30.108
SAN JOAQUIN COUNTY	31.616	14.104	2.846	26.108	0.629	75.303
STANISLAUS COUNTY	23.278	11.771	2.375	21.793	0.428	59.645
TULARE COUNTY	20.622	11.045	2.228	20.448	0.406	54.749
BASIN TOTAL	174.20	86.37	17.43	159.89	3.68	441.56
SOUTH CENTRAL COAST A B						
SAN LUIS OBISPO COUNTY	15.101	6.555	1.323	11.405	0.284	34.668
SANTA BARBARA COUNTY	33.550	9.796	1.978	17.056	0.595	62.975
VENTURA COUNTY	55.866	15.523	3.132	27.011	0.961	102.492
BASIN TOTAL	104.52	31.87	6.43	55.47	1.84	200.13
SOUTH COAST A B.						
LOS ANGELES COUNTY	796.885	180.375	36.393	313.881	12.136	1339.670
ORANGE COUNTY	233.664	57.043	11.509	99.263	4.011	405.491
RIVERSIDE COUNTY	44.339	15.864	3.200	27.605	0.772	91.781
SAN BERNARDINO COUNTY	65.180	24.164	4.876	42.048	1.356	137.624
BASIN TOTAL	1140.07	277.45	55.98	482.80	18.28	1974.57
SOUTHEAST DESERT A B						
IMPERIAL COUNTY	8.410	4.241	0.855	7.849	0.133	21.488
KERN COUNTY	5.743	3.024	0.610	5.600	0.164	15.141
LOS ANGELES COUNTY	8.561	1.938	0.391	3.586	0.139	14.614
RIVERSIDE COUNTY	16.370	5.857	1.181	10.843	0.303	34.554
SAN BERNARDINO COUNTY	13.006	4.821	0.973	8.927	0.288	28.014
BASIN TOTAL	52.09	19.88	4.01	36.80	1.03	113.81
SOUTH CENTRAL COAST A.S						
SAN LUIS OBISPO COUNTY	14.195	6.162	1.243	11.405	0.284	33.289
SANTA BARBARA COUNTY	13.665	3.990	0.806	7.391	0.258	26.109
BASIN TOTAL	27.86	10.15	2.05	18.80	0.54	59.40

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TABLE 27- 10

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1982

	LDP	LDT	MDT	HDG	MCY	TOTAL
SOUTH COAST A.S						
LOS ANGELES COUNTY	796.885	180.375	36.393	313.881	12.136	1339.670
ORANGE COUNTY	233.664	57.043	11.509	99.263	4.011	405.491
RIVERSIDE COUNTY	44.339	15.864	3.200	27.605	0.772	91.781
SAN BERNARDINO COUNTY	65.180	24.164	4.876	42.048	1.356	137.624
SANTA BARBARA COUNTY	19.013	5.551	1.121	9.665	0.337	35.687
VENTURA COUNTY	55.866	15.523	3.132	27.011	0.961	102.492
BASIN TOTAL	1214.95	298.52	60.23	519.47	19.57	2112.74
STATE TOTAL	2421.33	716.51	144.22	1300.74	42.22	4625.03

LDP=LIGHT DUTY PASSENGER VEHICLES
LDT=LIGHT DUTY TRUCKS
MDT=MEDIUM DUTY TRUCKS
HDG=HEAVY DUTY GASOLINE TRUCKS
MCY= MOTORCYCLES

LEAD EMISSIONS FROM DIESEL OPERATED VEHICLES ARE NEGLIGIBLE

```
47802[illegible]E 41880000 59B0D070 47703202   *........A.......................B*
[illegible] 01[illegible]98 [illegible]008D248F 00008014   *...0.............K..A.....K......*
[illegible] [illegible]040904C 509D0004 92F17000   *K.....K....MK....QK...........I..*
[illegible]78 45E03548 D2217005 36624580   *..........0..............K........*
[illegible] 02030834 B0D0D201 0BB0B004   *...............K.....K.....K....M*
[illegible] 0040D054 02030004 00504180   *K....Q...........A.K.....K.......*
[illegible]E 90043623 92F07000 45E03548   *..................K......0......*
[illegible]E 50E00078 92FF7000 45E03548   *.0..K....0K.......................*
[illegible]84 020F4000 35D05820 10041BAA   *............... ... ..K. ..........*
[illegible]110 40005020 100492F3 10029238   *...................Y.. ......3....*
[illegible]0 91021066 478034FC 47F03404   *............. ..............0..*
[illegible]2 928E1003 50A01008 92561000   *........... ......T..............*
[illegible]50 00589180 80015880 902C58A0   *..................................*
[illegible]0 10050A0 10089257 10000A33   *........ ......3................*
[illegible]3 50A01008 92551000 0A339102   *.0.... ......S.................*
[illegible]80 80201288 47703480 4A8035E8   *.............................Y*
[illegible] 00000020 12884770 34A45890   *.....0.........................*
[illegible] 90021002 50A01008 92591000   *............... ......8..........*
[illegible] 47703 80 4A8035E8 47F0348A   *...........................Y.0..*
[illegible] 00058F 91100066 47103524   *........0...........0............*
[illegible] [illegible] 00589447 00058D0   *.0...0.............0.......7....*
[illegible] 00592F 50100058 01801000   *....................0............*
[illegible] 001021 4510F004 05000050   *........... ..K.......S.0....0.....*
[illegible] 00CF04[illegible] 5840CD22 41140020   *........0K..........K...0.. ......*
[illegible] 0A55DD 00048038 002047F0   *.......0......N........0...........0*
[illegible] 00000200 00100000 00000030   *0.....K........1KMR..............*
[illegible] 5040C040 5C40C505 C440D606   *.......4......80...... . . END OF*
[illegible] 40D1482 0E0940F2 C40D5E3   * . . . PL.I DUMP . . .USER IDENT*
[illegible] 0043407 40C7074 C5D540C2   *IFIER .DYNAMIC CORE DUMP GIVEN B*
[illegible] 0540D7 [illegible]4 D4D74009   *ECAUSE OF INTERRUPT IN PLIDUMP R*
[illegible] 00FD540 [illegible] 02D6E483   *OUTINECHAINING ERROR IN CHECKOUT*
                                           * TASKING...8.....                *

[illegible] 0 01834710 46DEC40A   *                 ...............*
[illegible] 0000[illegible] 00000830 98F04048   *.....D. ......................0 .*
[illegible] [illegible]FF0000   *.............K..........P..........*
[illegible] 0004[illegible] 478030AA   *K...0........ .........0........*
[illegible] 0[illegible]50 80AA9120   *..............................*
[illegible] 00000700 41003486   *...........U...0...0...0........*
[illegible] 00000000 [illegible]36[illegible]100   *.............................. .....*
[illegible] 1000001 471001 [illegible] 9[illegible]001   *.....K.....................  ..*
[illegible] 1400003 41770002 47703[illegible]1A   *..................... .......0..*
[illegible] 00001299 47003150   *K..........K.......................*
[illegible] 00000590 47F03186   *K.............................0..*
[illegible] 1400700 47700C0   *K.....03.......0........K.. ......*
[illegible] 00000[illegible]F 47203434   *.........................0A.......*
[illegible] 28100009 [illegible]   *.2.......K........ ........... ..*
[illegible] 00005000 [illegible]104   *....0K....W.....0...............D*
[illegible] [illegible]78[illegible]1F8 91805076   *.5...0.....0...............8....*
[illegible] 0[illegible]52[illegible] 91[illegible]507[illegible] 47803211   *....8.............................*
[illegible] 00[illegible]177 00[illegible]0[illegible] 00101626   *.......0........K...............*
[illegible] 000[illegible]F [illegible] 41E[illegible]001   *....Y...............M.....0......*
[illegible] 00[illegible] [illegible] 12884720   *.....K...............2..........*
[illegible] 81000095 [illegible] 02087000   *.......0..K...................K...*
[illegible] 0001021 [illegible] [illegible]320E   *.....................K...............*
```

1979 TABLE 27-12 CALIFORNIA AIR RESOURCES BOARD

ON-ROAD MOTOR VEHICLE LEAD EMISSIONS (TONS/YEAR)

[illegible] 1984

AREA	LDP	LDT	MDT	HDG	MCY	TOTAL
GREAT BASIN VALLEYS A B						
[illegible]	0.059	0.034	0.007	0.093	0.002	0.196
[illegible]	1.458	1.247	0.259	3.377	0.077	6.317
MONO [illegible]	0.564	0.482	0.100	1.306	0.019	2.471
BASIN TOTAL	1.98	1.76	0.37	4.78	0.10	8.98
[illegible] A B						
[illegible]	2.318	1.586	0.330	4.297	0.090	8.620
BASIN TOTAL	2.32	1.59	0.33	4.30	0.09	8.62
[illegible]						
[illegible]	3.878	2.559	0.283	3.692	0.084	10.515
[illegible]	1.308	0.782	0.087	1.128	0.030	3.334
BASIN TOTAL	5.21	3.34	0.37	4.82	0.11	13.85
MOUNTAIN COUNTIES A B						
[illegible]	1.208	1.156	0.240	3.131	0.069	5.804
[illegible] COUNTY	1.194	1.135	0.236	3.076	0.056	5.697
[illegible] COUNTY	3.276	2.151	0.447	5.828	0.132	11.835
[illegible]	0.642	0.538	0.112	1.460	0.033	2.784
[illegible]	2.930	2.020	0.420	5.472	0.149	10.991
[illegible]	8.055	4.821	1.002	13.070	0.345	27.293
[illegible]	1.134	0.927	0.193	2.514	0.049	4.817
[illegible]	0.165	0.190	0.040	0.518	0.008	0.921
[illegible] COUNTY	2.023	1.770	0.368	4.796	0.099	9.056
BASIN TOTAL	20.63	14.71	3.06	39.87	0.94	79.20
[illegible] CENTRAL COAST A B						
[illegible] COUNTY	19.713	7.954	1.654	21.563	0.490	51.374
[illegible] COUNTY	1.385	0.972	0.202	2.634	0.045	5.237
SANTA CRUZ COUNTY	13.859	5.888	1.224	15.960	0.343	37.275
BASIN TOTAL	34.96	14.81	3.08	40.16	0.88	93.89
NORTH COAST A B						
[illegible] COUNTY	1.107	0.683	0.142	1.851	0.035	3.819
[illegible] COUNTY	7.692	5.383	1.119	14.590	0.298	29.082
[illegible] COUNTY	4.378	3.321	0.691	9.004	0.190	17.603
[illegible] COUNTY	2.912	1.434	0.298	3.885	0.087	8.616
[illegible]	0.602	0.628	0.130	1.699	0.044	3.102
BASIN TOTAL	16.71	11.45	2.38	31.03	0.65	62.22

```
00005820 80605820 20404850 20001842   *......0 ................ ......*
[illegible] 18051814 58F00010 58F0F1F8   *. .......0FM..X...F.......0...018*
[illegible] 00084150 00F05840 021C5870   *...0......0 ..............0. ....*
[illegible] 58F00010 58F0F1F8 05EF58F0   *.....0G...X...G.......0...018...0*
[illegible] A0101891 D201A022 900E5870   *.......0............ ....K.......*
[illegible] 58D002FC 948DD228 05ED18BF   *.........................K.....*
[illegible] 05ED18BF 18FD18C0 18D14110   *.....J............K...........J..*
[illegible] 02FC58D0 D24805ED 188F18FD   *.........................K.......*
[illegible] 18F18FD 18C018D1 41500020   *...J............K..........J....*
[illegible] 18051819 58F00010 58F0F1F8   *. .......0GM......G.......0...018*
[illegible] 00105840 40F01947 478CC95A   *... ............... ...  0....I.*
[illegible] 1F864360 90204170 000147F0   *.  .....I.......................0*
[illegible] 50204770 594C9200 501C9102   *I........I.. ... ... ....I........*
[illegible] 47F047E0 090A9104 50294770   *....I..0....... .... 0..I........*
[illegible] 4770036A 18FB180C 18105800   *I......0.0...0........H.........*
[illegible] 181D58D0 02FC58D0 D25405ED   *....K..........J............K...*
[illegible] 88E3D7D3 18110A08 5000A014   *........J..H..0H.IEDAYTPQ........*
[illegible] 18C018D1 18FB180C 181D5800   *............K..........J........*
[illegible] 18305100 9050050F   *....K..........J.0..............*
[illegible] 50004800   *.....L......I.......I...... ....*
[illegible] 58400010 58404008   * ......................... ...  H*
[illegible] A00807FE 00E0A008   *.0 ....L............H..........*
[illegible] 0A4443F0 80025400   *..... ...0.... ............0...0*
[illegible] 0C18FB 180C181D   *...0 ............. ............*
[illegible] 58D002FC 58D00254   *.......K..........J............K.*
[illegible] 181D58D0 02FC58D0   *.........J........H..............*
[illegible] 021C85ED 188F18FD   *K..........J............K........*
[illegible] 100045E0 07321814   *.....J.. . ... ...............G...*
[illegible] 5A567070 4770C992   *...EQ.0............ ...........I.*
[illegible] 80000001 80000000   *.. ...........I...................*
[illegible] 00000000 00000000   *.....................................*
[illegible] 00000000 00000000   *.....................................*

[illegible] 47F0F010 10C9C5C1   *.........................00..IEA*
[illegible] 0A0A10A1   *VEMDL  78.010....................*
[illegible] A0205090   *........K.....K.....P............*
[illegible] 5810A000   *.........K.......................*
[illegible] 5703C08C   *.....0...02.........K........P...*
[illegible] 50E0A004   *................P...............*
[illegible] 8061813   *.................0.B...8.8.A.....*
[illegible] 5A018820 A0185BD6   *.......0.....W.................*
[illegible] 001058F0   *.....................................0*
[illegible] 70005380 700405C3   *....2.K...2....................N.*
[illegible] 01525080   *.....................................*
[illegible] 58C00010   *...0........A............0......*
[illegible] 00002FC   *..A.......8...B...B...... ......*
[illegible] 5A1A1800   *.................0.....8.8....*
[illegible] 4100C0C0   *................8......P........0*
[illegible] 50E0A01+   *..P.. ...0....5..0.Q............*
[illegible] 4900F01A   *.....................................0.*
[illegible] 58F10000   *..0..2............0..........1..*
[illegible] A01C4110   *.................0............*
[illegible] 4707D0F3   *......... ....................8*
[illegible] 00181600   *....P........0..P........5......*
[illegible] 5A809506   *.................F............*
```

TABLE 27-12

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES).

[illegible] 1984

	LDP	LDT	MDT	HDG	MCY	TOTAL
NORTHEAST PLATEAU A B						
[illegible] COUNTY	1.121	1.209	0.251	3.274	0.074	5.928
MODOC COUNTY	0.447	0.553	0.115	1.500	0.016	2.631
SHASTA COUNTY	0.477	0.381	0.079	1.031	0.023	1.991
SISKIYOU COUNTY	2.489	2.610	0.543	7.074	0.111	12.826
BASIN TOTAL	4.53	4.75	0.99	12.88	0.22	23.39
SACRAMENTO VALLEY A.B.						
BUTTE COUNTY	9.458	6.322	1.314	16.956	0.437	34.488
[illegible] COUNTY	0.815	0.968	0.201	2.595	0.045	4.624
GLENN COUNTY	1.585	1.439	0.299	3.859	0.063	7.246
SACRAMENTO COUNTY	60.051	27.356	5.688	73.371	2.223	168.689
[illegible] COUNTY	6.550	5.222	1.086	14.007	0.309	27.174
[illegible] COUNTY	3.205	1.262	0.263	3.385	0.116	9.229
[illegible] COUNTY	3.402	2.622	0.545	7.030	0.142	13.742
TEHAMA COUNTY	2.287	2.203	0.458	5.909	0.107	10.964
YOLO COUNTY	7.946	4.746	0.987	12.727	0.302	26.708
YUBA COUNTY	3.018	2.072	0.430	5.554	0.136	11.209
BASIN TOTAL	98.32	54.21	11.27	145.39	3.88	313.07
SAN DIEGO A B						
SAN DIEGO COUNTY	130.639	45.984	9.562	127.352	4.296	317.832
BASIN TOTAL	130.64	45.98	9.56	127.35	4.30	317.83
S.F. BAY AREA A B.						
ALAMEDA COUNTY	77.240	26.890	5.591	76.127	2.694	188.542
CONTRA COSTA COUNTY	47.351	15.380	3.198	43.541	1.676	113.145
MARIN COUNTY	19.054	4.636	0.964	13.124	0.589	38.367
NAPA COUNTY	7.217	3.284	0.683	9.299	0.310	20.793
SAN FRANCISCO COUNTY	33.587	9.894	2.057	28.012	0.823	74.373
SAN MATEO COUNTY	51.270	14.161	2.945	40.090	1.332	109.798
SANTA CLARA COUNTY	105.841	33.149	6.892	93.848	3.492	243.222
SOLANO COUNTY	10.751	4.234	0.880	11.988	0.410	28.262
SONOMA COUNTY	19.932	9.817	2.041	27.797	0.622	60.209
BASIN TOTAL	374.24	121.45	25.25	343.82	11.95	876.71

```
5F189280 0A7194DF A0189110 A01847E0   *.0.....8.8.......................*
02074110 F3140207 4134931C 58D0A038   *.0........K.....K.....K..........*
00100FFE 07FE47F0 91F60001 00080FF0   *........................0.6.....0*
C4C0D5C5 E2E3C1C5 80000000 16D3165C   *.....L..IEAVEMDLMDLESTAE.....L..*
00000000 00000000 00D31784 00000000   *.........................L......*
00000000 2CC9C5C1 E5C5D4C4 D5D4D4D4   *......................IEAVEMDL. M*
D5D9D4C1 D5E4E3C5 D9D4C9D5 C1E3C9D6   *EMORY DELETE ABNORMAL TERMINATIO*
00000000 00000000 00000000 00000000   *N.............................*
E5E3C4D4 E3D4D4F7 F748F1F2 F30090EC   *.........00..IEAVTMMT  77.123...*
D718F000 F000181F 4100C2E4 BE071001   *..............0.QP.0.0.....BU....*
60D05324 41F05320 50F00008 18DF5860   *............. .......0...0......*
02784110 02C4960F 51F45870 52D8D707   *C....4..BQ.....0.....D...4...QP.*
4009C0FF 04065E60 C360D507 6000C584   *............K... ..7....C.N...C.*
51E2C110 52C458F0 421C12FF 4780C09E   *.....................D.0........F*
40C058F0 F00012FF 4780C0BA 05EF4100   *..............D.0 H.00...........*
4780C0D2 05EF4100 C0EA5000 51E04110   *.K.......D.0.......K.............*
C1E2C000 51E04110 52C458F0 439412FF   *.D.0.............A........D.0....*
12C058F0 C36818F0 12FF4780 C12C58F0   *...A.....A........D..C..0....A..0*
58F0C36C 18F012FF 4780C13E 58F0C36C   *C.....A........D..C..0....A..0C.*
4780C13A 05EF4100 C0EA5000 51E04110   *....A........D.0 H.00....A......*
51E04110 52C458F0 436C12FF 4780C18A   *A........D.0......A.............*
05EF4100 C1EA5000 51E04110 52C458F0   *.D.0......A.....A........D.0....*
41C412FF 4780C21A 05EF4100 C23858F0   *...A.....A........D.0......A.....*
C27005EF 4100C256 58F0C37C 05EF4100   *AK.......D.0......AK....A.......*
C2945000 51E04110 52C458F0 41C412FF   *.D.0......A.....B........D.0.D...*
4780C21A 05EF4100 C23858F0 C27005EF   *...B.....B........D.0.H....B.....*
4100C256 58F0C37C 05EF4100 00C2945000 *B........D..C..0....B..0C.....B.*
51E04110 52C458F0 41C412FF 4780C21A   *.......D..C..0....B..0C.....B...*
05EF4100 C1EA5000 51E04110 52C458F0   *...0.H.5..0..........0.P........F*
41C412FF 4780C18A 05EF4100 C0EA5000   *0.............0...0..........N.*
51E00501 58F0C37C 13F012FF 4780C2C2   *...C...BB..BB.......D..C..0....BB*
41F0C086 05EF4100 00C087FE 41F0C086   *.0C.........................0...*
1FFF07FE 41F0C016 4780F016 1FFF07FE   *.0....0...0..0...0..........0.....*
68501000 00C087FE 00EC0000 68501000   *................0..0.............*
51F45820 07FE1088 07FE5820 51F45820   *........0............00.K....4...*
11F407FE 07FE5820 07FE9820 11F407FE   *................0..............4...*
07D37490 00D31788 00D31788 07D37490   *.............K...L...L...L...L...*
00000001 00000000 00000000 00000001   *.L...............................*
00C953C1 07F0F016 47F0F016 00C953C1   *.........................00..IEA*
7A7A3D 78.086.............P......   *VTA3D  78.086.............P.....*
0047010 2F2D293 71F2D293 0047010   *................AP........2K.....*
47E06050 9801F003 9801F003 47E06050   *...4.........................*
7130C7F0 1FE5F0E0 1FE5F0E0 7130C7F0   *.............................0*
0001F22 C0049150 C0049150 0001F22   *.................B.0.............*
7A0A4170 35078120 35078120 7A0A4170   *.C..N..........N.........N......*
4F0B0029 4F0B0029 4F0B0029 4F0B0029   *.............................Q.X..*
D5077134 801C0007 71345690 D5077134   *...............B.0..K.....N.....*
47F06108 47F06108 D5077134 47F06108   *..........S.............B.0..N...*
71C24090 71C24090 61480507 71C24090   *.............S....B........B.0..N.*
91807102 91807102 91807102 91807102   *...............S....7........S...B*
50E072E0 50E072E0 41E072F4 50E072E0   *...........0..K....B........U...4*
47B06180 47B06180 47B06180 47B06180   *...YK.....K..4..........R. ......*
72B055C2 72B055C2 72B055C2 72B055C2   *.............................K....B*
00029180 00029180 00029180 00029180   *............ .....Q..............*
71B43F0 71B43F0 71B43F0 71B43F0       *..........B...0............K...Q.0*
[illegible] [illegible] [illegible] [illegible]   *..B.....................H...4........*
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TABLE 27-12

ON-ROAD MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

INVENTORY YEAR 1984

	LDP	LDT	MDT	HDG	MCY	TOTAL
SAN JUAQUIN VALLEY A.B.						
FRESNO COUNTY	33.821	19.376	4.029	52.518	1.142	110.885
KERN COUNTY	21.179	14.066	2.924	38.126	1.120	77.416
KINGS COUNTY	4.282	3.016	0.627	8.175	0.221	16.321
MADERA COUNTY	3.408	2.749	0.572	7.452	0.140	14.321
MERCED COUNTY	8.278	5.467	1.137	14.818	0.316	30.037
SAN JOAQUIN COUNTY	22.700	12.768	2.655	34.608	0.826	73.557
STANISLAUS COUNTY	16.751	10.714	2.228	29.043	0.549	59.286
TULARE COUNTY	14.960	9.973	2.074	27.036	0.521	54.564
BASIN TOTAL	125.40	78.13	16.24	211.78	4.83	436.39
SOUTH CENTRAL COAST A.B.						
SAN LUIS OBISPO COUNTY	11.047	5.996	1.247	15.275	0.374	33.938
SANTA BARBARA COUNTY	24.235	8.858	1.843	22.583	0.784	58.303
VENTURA COUNTY	41.168	14.191	2.950	36.157	1.273	95.739
BASIN TOTAL	76.45	29.04	6.04	74.01	2.43	187.98
SOUTH COAST A.B.						
LOS ANGELES COUNTY	565.992	161.999	33.684	412.771	15.999	1190.440
ORANGE COUNTY	171.772	52.748	10.967	134.399	5.363	375.249
RIVERSIDE COUNTY	32.350	14.438	3.002	36.786	1.025	87.600
SAN BERNARDINO COUNTY	47.057	21.918	4.558	55.845	1.800	131.177
BASIN TOTAL	817.17	251.10	52.21	639.80	24.19	1784.47
SOUTHEAST DESERT A.B.						
IMPERIAL COUNTY	6.121	3.791	0.788	10.274	0.177	21.152
KERN COUNTY	4.116	2.733	0.568	7.411	0.218	15.045
LOS ANGELES COUNTY	6.081	1.740	0.362	4.715	0.183	13.081
RIVERSIDE COUNTY	11.943	5.330	1.108	14.449	0.403	33.234
SAN BERNARDINO COUNTY	9.390	4.373	0.909	11.856	0.382	26.910
BASIN TOTAL	37.65	17.97	3.74	48.70	1.36	109.42
SOUTH CENTRAL COAST A.S						
SAN LUIS OBISPO COUNTY	10.384	5.636	1.172	15.275	0.374	32.840
SANTA BARBARA COUNTY	9.871	3.608	0.751	9.786	0.340	24.356
BASIN TOTAL	20.25	9.24	1.92	25.06	0.71	57.20

```
DATE 79099     ID = 088

[illegible]  A5205BD0 02F058D0 024805ED   *.....7. .R.................K...*
             [illegible]0010 58F0F1F8 C58F58D0   *.0...W...............0...018....*
[illegible]  [illegible]0812FF 47806290 41107 2E0   *....K.............R. .Q..........*
[illegible]  [illegible]2C 4[illegible]6270 6A500203 713C5085   *.........................K.....*
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[illegible]  [illegible]0038000 70104180 20E850A0   *....................K........7..*
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[illegible]  [illegible]0D2F180   *....T.......................................*
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TABLE 27-12

[illegible] MOTOR VEHICLES LEAD EMISSIONS(CONTINUES)

[illegible]	[illegible]	LDT	MDT	HDG	MCY	TOTAL
[illegible]	[illegible]	161.999	33.684	412.771	15.999	1190.440
[illegible]	171.777	52.748	10.967	134.399	5.363	375.249
[illegible]	[illegible]	[illegible]	3.002	36.786	1.025	87.600
[illegible] COUNTY	47.057	21.918	4.558	55.845	1.800	131.177
[illegible] COUNTY	[illegible]	[illegible]	1.044	12.797	0.444	33.040
[illegible]	41.168	14.191	2.950	36.157	1.273	95.739
[illegible]	872.07	270.31	56.21	688.75	25.90	1913.25
[illegible]	1746.20	650.20	134.89	1728.69	55.93	4316.02

LDP=LIGHT DUTY PASSENGER VEHICLES
LDT=LIGHT DUTY TRUCKS
MDT=MEDIUM DUTY TRUCKS
HDG=HEAVY DUTY GASOLINE TRUCKS
MCY= MOTORCYCLES

LEAD EMISSIONS FROM DIESEL OPERATED VEHICLES ARE NEGLIGIBLE

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B00C5880 C0045880 B00C[illegible]236 EC00D2C7   *.B..........................K.*
020FE015 [illegible]0081F33 BF37B011 18038830   *...FK.....K......K.............*
C028CC2D 98F0C02C 58E0C019 E207E02F   *.............0......0......K...*
[illegible]030C02C F542C028 C0204[illegible]E0 55E85EE0   *..K......0...........3.......Y..*
[illegible]6009240 [illegible]0350202 E03[illegible]C029 5810C01C   *............K....Q.  ..K.........*
71C818[illegible]F 12F[illegible]47[illegible]0 69CE49F0 56834770   *. .H...Q.........H..........0....*
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18110A23 47F06A18 D2551000 5ABD58E0   *X.........K............0..K........*
41100[illegible]FD 69100010 16011[illegible] CA0A47F0   *..K...........................0*
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02205[illegible] [illegible]0[illegible]47F0 6B0241E0 01001EE7   *....K......K.....K......0.......X*
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6B02[illegible]1E0 01001EE7 418000EC 58400010   *..K.....K.......0........X.....  ..*
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[illegible] [illegible] [illegible] [illegible]   *.......  .........................K...........*
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[illegible] [illegible] [illegible] [illegible]   *...................0.Y...................*
[illegible] [illegible] [illegible] [illegible]   *.0.U...................................*
[illegible] [illegible] [illegible] [illegible]   *........R...7.................................*
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[illegible] [illegible] [illegible] [illegible]   *.....  .B.....0..............................*
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Appendix C

Locally Prepared Plans

1. San Diego Air Pollution Control District
2. Bay Area Air Quality Management District

No. 1 APCB WEDNESDAY, JULY 18, 1979

Re National Ambient)
Air Quality Standard)
for Lead . . . . . .)

RESOLUTION ADOPTING A PLAN FOR THE
ATTAINMENT OF THE NATIONAL AMBIENT
AIR QUALITY STANDARD FOR LEAD

On motion of Member Hamilton, seconded by Member Hedgecock, the following resolution is adopted:

WHEREAS, on October 5, 1978, the Federal Environmental Protection Agency, pursuant to Sections 109 and 310 of the Clean Air Act as amended, promulgated national primary and secondary ambient air quality standards for lead; and

WHEREAS, the said standards are exceeded in the San Diego Air Quality Control Region (Air Basin); and

WHEREAS, Section 110 of the Clean Air Act as amended requires each State to adopt and submit to the Administrator of the Environmental Protection Agency (EPA), within nine months after promulgation of a National Ambient Air Quality Standard, State Implementation Plan (SIP) revision which provides for attaining, maintaining and enforcing such standard in each air quality control region of the State within three years after approval of the plan by the Administrator of EPA; and

WHEREAS, in California, SIP revisions are prepared by air pollution control districts and air quality management districts for approval by the State and submittal to the Environmental Protection Agency; and

WHEREAS, the San Diego County Air Pollution Control District has prepared a plan which provides for attaining the national primary and secondary air quality standards for lead by 1982 and maintaining them thereafter; and

WHEREAS, the San Diego County Air Pollution Control Board desires to adopt said plan; and

WHEREAS, notice has been given and a public hearing has been had relating to the adoption of said plan pursuant to Section 51.4, Part 51, Title 40 of the Code of Federal Regulations;

NOW THEREFORE IT IS RESOLVED AND ORDERED that the attached San Diego Air Basin Plan for the Attainment of the National Ambient Air Quality Standard for Lead be and hereby is adopted; and

IT IS FURTHER RESOLVED AND ORDERED that said plan be forwarded without delay to the California Air Resources Board for inclusion in the State Implementation Plan.

PASSED AND ADOPTED by the Air Pollution Control Board of the San Diego County Air Pollution Control District, State of California, this 18th day of July, 1979, by the following vote:

AYES: Members Hamilton, Hedgecock. Bates and Eckert
NOES: Members None
ABSENT: Member Moore

- - -

STATE OF CALIFORNIA)
County of San Diego) ss.

I, PORTER D. CREMANS, Clerk of the Air Pollution Control Board of the San Diego County Air Pollution Control District, State of California, hereby certify that I have compared the foregoing copy with the original resolution adopted by said Board at a regular meeting thereof, at the time and by the vote therein stated, which original resolution is now on file in my office; that the same contains a full, true and correct transcript therefrom and of the whole thereof.

Witness my hand and the seal of said Air Pollution Control Board, this 18th day of July, 1979.

PORTER D. CREMANS
Clerk of the Air Pollution Control Board
San Diego County Air Pollution Control District

By Beatrice Mitchell
Deputy

(SEAL)

APPROVED AS TO FORM AND LEGALITY
COUNTY COUNSEL
BY [signature]
DEPUTY

SAN DIEGO AIR BASIN
PLAN FOR THE ATTAINMENT OF THE NATIONAL AMBIENT AIR QUALITY STANDARD FOR LEAD

July, 1979

San Diego County Air Pollution Control District
9150 Chesapeake Drive
San Diego, California 92123

This revision to the 1979 State Implementation Plan (SIP) for San Diego County to attain and maintain the National Ambient Air Quality Standard for lead has been prepared in accordance with the applicable sections of Part 51 of Title 40 of the Code of Federal Regulations, "Requirements for Preparation, Adoption, and Submittal of Implementation Plans", to comply with Section 110 of the Clean Air Act as amended in 1977.

This SIP revision for lead covers the same geographical area as that for ozone, carbon monoxide, nitrogen oxides and particulates. The non-attainment plan (revised Regional Air Quality Strategy for San Diego County) prepared for these criteria pollutants was adopted by local governmental agencies in October, 1978 and by the ARB (conditionally) in February, 1979.

All lead air quality monitoring data for San Diego County from January 1, 1974 to December 31, 1978 was reviewed. Lead concentrations in excess of the federal lead standard of 1.5 $\mu g/m^3$ (averaged over a calendar quarter) were measured with a maximum mean measured quarterly reading of 3.25 $\mu g/m^3$ measured in 1976. Of the twenty quarters for which lead air monitoring data were reviewed, the mean measured values exceeded the standard in ten quarters. It was therefore determined that a plan to achieve the federal lead standard by 1982 would have to be formulated.

A lead emissions inventory was developed for San Diego County to determine where lead emissions could most effectively be controlled. Since the maximum

quarterly averaged ambient lead concentration (3.25 $\mu g/m^3$) was measured in 1976, that year was chosen as the baseline year for which the lead inventory would be compiled. Total lead emissions during 1976 were 1146.7 tons. Of this total, 1121.1 tons were emitted from motor vehicles, 17.9 tons came from area sources (lawn and utility, gasoline marketing, and heavy-duty and farm equipment) and 1.5 tons came from stationary sources. There were no stationary sources emitting more than 0.30 tons per year.

Since there are no large stationary sources of lead emissions in San Diego County, attention was focused on reducing lead emissions from motor vehicles. The impact of the California Air Resources Board's (ARB's) lead phase-down program for gasoline was evaluated using a modified rollback model. This lead phase-down program requires that by January 1, 1980 and thereafter the average lead content for gasoline from small refineries (having a gasoline production capacity of less than 40,000 barrels per day) have no more than 1.4 grams of lead per gallon of gasoline and from large refineries an average lead content of no more than 0.4 grams of lead per gallon of gasoline. The average lead content must be met for each consecutive three month period beginning on January 1, 1979 and is determined by dividing the total grams of lead used at a refinery in the manufacture of gasoline by the total gallons of gasoline manufactured at that refinery. This assures that unleaded gasoline will be available for use in automobiles that require unleaded gasoline. Most new automobiles since 1975 require unleaded gasoline for proper operation of pollution control devices (catalytic converters). Using the modified rollback model this region shows compliance with the federal lead standard by 1982 through the implementation of the ARB lead phase-down program for gasoline. The standard will be maintained at least through 1984 and likely thereafter. The projected quarterly averaged lead concentration for 1982 is 1.01 $\mu g/m^3$ and for 1984 is 0.931 $\mu g/m^3$.

The EPA document titled Supplementary Guidelines for Lead Implementation Plans (final version dated August, 1978), was used to develop the lead plan. Section 2.0 General SIP Development Guidelines specified those portions of the 40 CFR 51 regulations, "Requirements for Preparation Adoption, and Submittal of Implementation Plans" that might be applicable to the development of a lead SIP. The requirements of each section were analyzed as follows:

51.3 Classification of regions

This section does not apply to lead SIP's.

51.4 Public hearings

A public hearing has been held on the proposed revision to the San Diego SIP in accordance with the requirements of this section.

51.5 Submission of plans: preliminary review of plans

Five copies of the San Diego SIP revision for lead have been submitted.

51.6 Revisions

This section is not applicable at this time.

51.7 Reports

The California Air Resources Board (ARB) will report San Diego County lead air quality data to the Environmental Protection Agency (EPA) on a quarterly basis. The data will be in the specified format for conversion to machine-readable format.

The San Diego Air Pollution Control District (APCD) will report lead emissions from point sources to the ARB whenever there is a change in emissions such as a new source beginning operation or a source ceasing operation. The ARB will submit the emissions data to the EPA in the specified format for conversion to machine-readable format.

51.10 General requirements

Through the implementation of the ARB's lead phase-down program for gasoline, the national standard for lead will be attained in San Diego County by 1982 and maintained thereafter. The control strategy is detailed in section 51.12.

No information available to the San Diego APCD indicates that the San Diego attainment plan for lead will interfere with the attainment and maintenance of the lead standard in any other Air Quality Control Region (AQCR). Emission data from all lead sources, correlated with allowable emissions, will be available to the public.

51.11 Legal authority

The San Diego APCD is a California Air Pollution Control District operating under and deriving its legal authority from the California Health and Safety Code, Division 26 (Air Resources), Part 3 (Air Pollution Control Districts).