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16. ABSTRACT
Highway engineers must play an important role in the enhancement and protection of the environment. They will have to consider a variety of factors in the environmental impact of any highway project and complete a number of studies prior to writing an impact statemnt. One of these studies is concerned with the gathering of field data, analysis of such data, and writing an air quality report. This manual explains the interaction between air pollutant sources and meterological conditions contributing to the ambient air quality of a community. Air pollutant sources within a highway corridor normally include stationary and mobile sources. Stationary sources include domestic heaters, industrial installations and power plants. Mobile sources include motor vehicle traffic on highways, local roads and streets. Guidelines are presented to: (1) determine the present ambient air quality along a proposed highway corridor from existing air monitoring station data, (2) determine the present ambient air quality by performing an on-site air quality survey, and (3) perform a mesoscale analysis of ambient air quality.

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AIR QUALITY MANUAL. Vol. VI.

Analysis of Ambient Air Quality for Highway Projects

J.L. Beaton, A.J. Ranzieri, E.C. Shirley, and J.B. Skog

California Department of Public Works
Division of Highways
1120 N Street, P.O. Box 1139
Sacramento, California 95814

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16. Abstract

Highway engineers must play an important role in the enhancement and protection of the environment. They will have to consider a variety of factors in the environmental impact of any highway project and complete a number of studies prior to writing an impact statement. One of these studies is concerned with the gathering of field data, analysis of such data, and writing an air quality report. This manual explains the interaction between air pollutant sources and meteorological conditions contributing to the ambient air quality of a community. Air pollutant sources within a highway corridor normally include stationary and mobile sources. Stationary sources include domestic heaters, industrial installations and power plants. Mobile sources include motor vehicle traffic on highways, local roads and streets. Guidelines are presented to: (1) determine the present ambient air quality along a proposed highway corridor from existing air monitoring station data, (2) determine the present ambient air quality by performing an on-site air quality survey, and (3) perform a mesoscale analysis of ambient air quality.

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FOREWORD

A number of studies must be completed prior to the writing of an Environmental Impact Statement for a highway project. One of these studies is concerned with the gathering of field data, analysis of such data, and writing an air quality report.

The California Division of Highways has embarked on a program of equipping and training district personnel to prepare air quality reports. This requires a two-week training course and the preparation of air quality manuals to be used as guides in the gathering of field data, analysis of results, and writing the report.

This volume is the sixth in a series of eight volumes, the titles of which follows:

1. Meteorology and Its Influence on the Dispersion of Pollutants from Highway Line Sources.
2. Motor Vehicle Emission Factors for Estimates of Highway Impact on Air Quality.
3. Traffic Information Requirements for Estimates of Highway Impact on Air Quality.
4. Mathematical Approach to Estimating Highway Impact on Air Quality.
5. Appendix to Volume 4.
6. Analysis of Ambient Air Quality for Highway Environmental Projects.
7. A Method for Analyzing and Reporting Highway Impact on Air Quality.
8. Synopsis of Air Quality.

The material presented in these volumes is subject to change as further research provides information. The following items are not discussed or, if presented, are subject to care in the interpretation of results.

1. There is no accepted emission factors for oxides of nitrogen relating emissions to speed.
2. There are no statistically validated photochemical models for different meteorological conditions which will permit calculations of oxidant formed downwind from a line source.
3. Further research is required to fully validate model calculations when winds blow parallel to the line source.

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This work was accomplished in cooperation with the United States Department of Transportation, Federal Highway Administration. The opinions, findings, and conclusions expressed in this publication are those of the California Division of Highways and not necessarily those of the Federal Highway Administration.

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INTRODUCTION

Air pollution generally results from the interaction between pollutant sources and meteorological conditions. Sources of air pollutants within a highway corridor normally include stationary and mobile sources. Stationary sources may include domestic heaters, industrial installations, and power plants. Mobile sources include the motor vehicle traffic on freeways and local roads and streets. All sources contribute to the ambient air quality of a community.

The primary pollutants emitted from motor vehicles are carbon monoxide (CO), hydrocarbons (HC), oxides of nitrogen (NO_x) and particulates (mainly lead). Hydrocarbons and oxides of nitrogen combine in a photochemical process to form smog. The formation of photochemical smog is extremely complex and is related to the amount of ultraviolet radiation present, the relative concentrations of each primary pollutant, and the time for this reaction to take place. Carbon monoxide is a stable gas and does not take part in the photochemical process.

The California Air Resources Board (ARB) made studies [1] of the percentages of pollutant loads attributed to stationary and mobile sources for the Los Angeles Basin, San Diego, and the San Francisco Bay area. The average percentages of pollutant loads for these areas indicate that about 90%, 61%, and 64%, respectively, of CO, HC, and NO_x are attributed to motor vehicles.

The primary purpose in determining ambient air quality is to aid the planner to evaluate the impact of the proposed highway on the air environment in terms of existing air quality. The ambient pollution levels describe the air quality before a highway is constructed. The pollutants generated from future highway traffic are estimated from a highway line source dispersion model [2]. The total pollutant concentration within the highway corridor is the additive sum of ambient concentrations and highway generated pollutants.

The main objectives of this manual are to present guidelines to:

1) Determine the present ambient air quality along a proposed highway corridor from existing air monitoring station data.

2) Determine the present ambient air quality along a proposed highway corridor by performing an on-site air quality survey.

3) Perform a mesoscale analysis of ambient air quality.

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OBTAINING AMBIENT AIR QUALITY INFORMATION FOR THE QUANTITATIVE AIR QUALITY REPORT

Ambient air quality information may be obtained from existing monitoring stations or by the use of sampling procedures within the corridor of the proposed highway. In either case the data must be comparable with that derived from the highway line source dispersion model [2] in order to determine total pollutant concentrations.

Ambient air quality is directly related to meteorological conditions. In order to use the information in terms of the mathematical model [2], data must be collected at certain periods related to the traffic load. In summary, ambient air quality data should be collected and analyzed for the following time periods and meteorological conditions.

1. Peak traffic hours (A.M. and P.M.)

2. Free flow traffic hours.

3. Wind direction and speed associated with the most probable and worst meteorological conditions.

These conditions may be fulfilled by collecting and analyzing both ambient air quality and meteorological data for the periods, 7-9 A.M., 11-1 P.M. and 4-6 P.M. as described in detail below. Other time periods may be dictated in special circumstances.

Assurance that ambient air quality data are collected under similar meteorological conditions depends on the amount of meteorological data that are available. Ideally, to collect data for similar meteorological conditions, measurements of surface wind speeds, wind directions, and the vertical temperature structure (which is a measure of the base of ground or elevated inversions) are required. Measurements of the vertical temperature structure are generally made twice daily at 4 A.M. and 4 P.M. Presently, inversion measurements in California on a scheduled daily basis are made at (1) San Diego, (2) Los Angeles International Airport, (3) El Monte, (4) Oakland, (5) San Jose, (6) Sacramento, and (7) Fresno. The primary purpose for analyzing the inversion base is to determine the mixing depth or height of the "lid" for the dispersion of pollutants. This is directly related to ambient air quality*. The inversion height can be analyzed with a frequency analysis** using a 500 foot class interval, from the surface up to 3000 feet. From the frequency analysis, the

*It should also be stressed for mesoscale analysis that the mixing depth is a parameter used in other mathematical models [10][11] and [12]. However, at the present time the Division of Highways does not have a mesoscale analysis using the mixing depth as a direct input to estimate pollutant concentrations.

**For a complete discussion on frequency analysis see Appendix B.

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most probable inversion base interval can be determined. This will represent the most probable meteorological condition in terms of mixing depth. This analysis should be made for the A.M. and P.M. measurement period. The worst meteorological condition in terms of mixing depth will be a surface based inversion. This corresponds to a class interval from the surface to 500 feet. This generally occurs for the A.M. period for all seasons of the year. For the P.M. measurements it is very probable that no surface based inversion will exist, especially during the spring, summer and fall seasons. If this is the case, the worst meteorological conditions are for the observations that occur in the class interval closest to the surface of the earth.

Once the mixing depth is determined, the surface wind speeds and directions must be considered. For the mathematical analysis of the impact of highways on the environment computer programs [7] STAROS* and WNDROS give prevailing wind speeds and directions for the most probable and worst surface atmospheric conditions. These are the wind speeds and directions that are used in the highway line source dispersion model [2].

Analyses of the most probable and lowest inversions base height, along with surface winds, will serve as guidelines for the collection of ambient air quality data. The following procedure is recommended to enable collecting ambient air quality data under similar meteorological conditions:

1. Perform a frequency analysis of the A.M. and P.M. inversion data if these are available. This will indicate height distribution of inversion bases. From this analysis calculate the most probable and the lowest inversion base height interval. This analysis should be made on a seasonal basis consistent with the guidelines presented in reference [7].

2. Perform a wind rose analysis [7]. This is the same analysis used in the mathematical model [2]. This gives the prevailing surface wind speeds and directions for the most probable and worst surface atmospheric conditions for time periods of interest throughout the day.

3. Collect air quality data under meteorological regimes corresponding to the most probable and lowest inversion base height intervals (Step 1), most probable and worst base wind directions and speeds (Step 2) for the time periods involved (A.M. and P.M. peak traffic).

4. Collect air quality data for off-peak traffic hours (mid-day) under conditions corresponding to the most probable and the lowest inversion height and for surface wind speeds and directions associated with this time period.

*The STAR2 computer program has replaced the STAROS program.

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The data collected (based on this approach) can probably be analyzed numerically. A frequency analysis can also be used to supplement the numerical analysis. These forms of data analysis are discussed in detail later in this manual.

In many areas of California no measurements are made of the vertical temperature structure for determining inversion bases. For these areas the collection of ambient air quality data for similar meteorological conditions is very difficult. Until such time as the Division develops capability for inversion measurements, the following procedure can be used as a guideline:

1. Perform a wind rose analysis [7] (same as used in the mathematical model). The time periods should be generally for 7-9 A.M., 11 A.M.-1 P.M. and 4-6 P.M. This gives the prevailing surface wind speeds and directions for the most probable and worst surface meteorological conditions.

2. Collect air quality data corresponding to the time period for which the wind rose analyses were made and corresponding to the prevailing wind speeds and directions.

It is very probable that the distribution of the collected data will be skewed. If the data are skewed (data taken from different populations or insufficient data available) it is recommended that a frequency analysis be made as will be discussed later.

Existing Ambient Air Quality Data

There are various air pollution districts and organizations which have air monitoring systems to measure ambient air quality. These organizations will give assistance and guidance to the Division of Highways in the collection of existing ambient air quality data. Some organizations may have very limited records. Ambient air quality data can be obtained from:

1) California Air Resources Board (ARB)

2) Local Air Pollution Districts

3) State and local Departments of Public Health, private consultants, and various colleges and universities.

The California Air Resources Board publishes a quarterly report termed "California Air Quality Data". This report is a summary of all the data from the continuous air monitoring stations in California. Appendix A illustrates the summary of ambient

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levels for June, July and August 1971. Copies of this report for other seasons of the year can be obtained from the Air Resources Board, whose address is as follows:

Air Resources Board
1025 P Street
Sacramento, CA 95814

Air pollution control districts in California:
Table 2 gives the locations and addresses of air pollution control districts in California that have air monitoring stations. Also indicated are the dates when the districts became activated. The list was obtained from the State Air Resources Board and stations are listed in alphabetical order.

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TABLE 1

AIR POLLUTION CONTROL DISTRICTS
IN CALIFORNIA

BAY AREA APCD
939 Ellis Street
San Francisco, CA 94109
(415) 771-6000 Activated September 1955
Mr. J. D. Callagan
Chief Administrative Officer

CALAVERAS COUNTY APCD
Government Center
El Dorado Road
San Andreas, CA 95249
(209) 754-4251 Activated March 6, 1970
D. L. Albasio, M.D.*
Senior Sanitarian

COLUSA COUNTY APCS
County Court House
Colusa, CA 95932
(916) 458-4516 Activated June 3, 1969
Mr. Andrew R. Clark
Executive Secretary to Board of Supervisors

FRESNO COUNTY APCD
516 South Cedar Avenue
Fresno, CA 93702
(209) 485-8000 Activated August 8, 1968
William A. DeFries, M.D.*
Health Officer
Mr. R. E. Bergstrom**
Director of Environmental Sanitation

HUMBOLDT COUNTY APCD
5630 South Broadway
Eureka, CA 95501
(707)443-3091 Activated February 4, 1964
Mr. Charles P. Sassenrath
Air Pollution Control Director

INYO COUNTY APCD
P. O. Box 218
Independence, CA 93526
(714) 878-2411 Activated May 18, 1970
Victor H. Hough, M.D.*
Health Officer
Walter S. Carrington, R.S.**
Director Division of Sanitation

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KERN COUNTY APCD
P. O. Box 997
Bakersfield, CA 93302
(1700 Flower Street)
(805) 325-5051 Activated March 12, 1968
Owen A. Kearns, M.D.*
Health Officer
Mr. Citron Toy**
Senior Sanitarian

KINGS COUNTY APCD
1221 West Lacey Boulevard
Hanford, CA 93230
(209) 582-3211 Activated March 19, 1968
Douglas B. Wilson, M.D.*
Health Officer
Mr. Tony Maniscalo
Director of Sanitation

LOS ANGELES COUNTY APCD
434 South San Pedro Street
Los Angeles, CA 90013
(213) 629-4711 Activated October 14, 1947
Mr. Robert L. Chass
Control Officer

MADERA COUNTY APCD
216 West Sixth Street
Madera, CA 93637
(209) 674-4641 Activated June 11, 1968
Douglas F. Pratt**
Director of Sanitation
(Acting APCO)

MARIPOSA COUNTY APCD
P. O. Box 5
Mariposa, CA 95338
(on Hwy. 140, next door to Frosty Shop)
(209) 966-3689 Activated April 9, 1968
Robert John Evans, M.D.*
Acting Health Officer
Mr. Herb Davis**
Chairman, Board of Supervisors
County Court House
(209) 966-2396
Home (209) 966-2109

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MERCED COUNTY APCD
P. O. Box 1350
Merced, CA 95341
(240 East 15th Street,
next to General Hospital)
(209) 723-2861 Activated January 14, 1969
A. Frank Brewer, M.D.*
Health Officer
Mr. Bill Norman**
Director of Sanitation

MONTEREY-SANTA CRUZ COUNTY UNIFIED APCD
P. O. Box 487
Salinas, CA 93901
(Courthouse)
(408) 758-3583 or 424-8611 Ext. 383
Activated July 1, 1968
Mr. Edward W. Munson
Control Officer

NEVADA COUNTY APCD
Willow Valley Road
East Basement Wing
Nevada City, CA 95959
(916) 265-2461 Ext. 264
Activated April 28, 1970
Peter J. Keenan, M.D.*
Health Officer
Mr. Hal Cox**
Senior Sanitarian

ORANGE COUNTY APCD
1010 South Harbor Boulevard
Anaheim, CA 92805
(714) 774-0284 Activated September 1950
Mr. William Fitchen
Control Officer

PLACER COUNTY APCD
155 Fulweiler Avenue
Auburn, CA 95603
(916) 885-4517 Activated March 3, 1970
Gordon Seck, M.D.*
Health Officer
Mr. Albert A. Marino**
Chief, Division of Environmental Health

PLUMAS COUNTY APCD
P. O. Box 207
Quincy, CA 95971
(916) 283-1800 Activated May 18, 1970
Robert H. Hunter**
Supervisor
William Cullen
Chief Sanitarian

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RIVERSIDE COUNTY APCD
Room 234, Health-Finance Building
3575 Eleventh Street
Riverside, CA 92501
(714) 787-2416 Activated June 13, 1955

SACRAMENTO COUNTY APCD
2221 Stockton Boulevard
Sacramento, CA 95817
(916) 454-5458 Activated December 7, 1959
James T. Harrison, M.D.*
Director of Public Health
Mr. Philip S. Tow**
Chief, Division of Air Sanitation

SAN BERNARDINO COUNTY APCD
172 West Third Street
San Bernardino, CA 92401
(714) 889-0111, Ext. 376, 456, 548, 549
Activated June 19, 1956
Mr. John H. Fairweather
Control Officer

SAN DIEGO COUNTY APCD
Civic Center
1600 Pacific Highway
San Diego, CA 92101
(714) 239-7711 Activated May 1955
J. B. Askew, M.D.*
Health Officer
Mr. Clark L. Gaulding**
Chief, Air Pollution Control Services

SAN JOAQUIN COUNTY APCD
P. O. Box 2009
Stockton, CA 95201
(1601 East Hazelton Avenue)
(209) 466-6781 Activated May 9, 1967
Mr. J. Don Layson
Director of Environmental Health

SANTA CRUZ (See MONTEREY-SANTA CRUZ)

SAN LUIS OBISPO COUNTY APCD
P. O. Box 1499
San Luis Obispo, CA 93402
(2191 Johnson Avenue)
(805) 548-121 Activated April 6, 1970
Mr. Jim Gates**
Director of Sanitation

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SONOMA COUNTY APCD
3313 Chante Road
Santa Rosa, CA 95404
(707) 527-1111 Activated March 30, 1970
Walter C. Clowers, M.D.*
Health Officer

STANISLAUS COUNTY APCD
902 Scenic Drive
Modesto, CA 95350
(209) 524-1251 Activated August 20, 1968
Robert S. Westphal, M.D.*
Health Officer
Mr. James Rankin**
Director of Sanitation

SUTTER COUNTY APCD
Department of Agriculture
142 Garden Way
Yuba City, CA 95991
(916) 742-3276 Activated July 28, 1969
William A. Greene*
Air Pollution Control Officer

TULARE COUNTY APCD
County Civic Center
Visalia, CA 93277
(209) 732-5511 Activated June 25, 1968
Lowell F. Chemberlen, M.D.*
Health Officer
Mr. Pete Hanson**
Director of Sanitation

VENTURA COUNTY APCD
3147 Loma Vista Road
Ventura, CA 93001
(805) 648-6181 Activated March 12, 1968
Stephen A. Coray, M.D.*
Health Officer
Mr. Richard B. Atherton**
Air Pollution Control Engineer

SAN BENITO COUNTY APCD
439 Fourth Street
Hollister, CA 95023
(403) 637-5367 Activated August 24, 1970
James G. Telfer, M.D.*
Director of Public Health

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SANTA BARBARA COUNTY APCD
P. O. Box 119
4440 Calle Real
Santa Barbara, CA
(805) 967-2311 Activated September 14, 1970
Joseph T. Nardo, M.D.
Director of Public Health and Acting APCO

*Also appointed Air Pollution Control Officer

**In direct charge of Air Pollution Control Program

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Problems in Using Existing Fixed Location Air Quality Data for a Distant Highway Location:

The primary purpose of air monitoring stations is to measure the representative ambient air quality for an area. The location where the sample is drawn is extremely important. Special attention must be given to the data from an air monitoring station when using this data for estimating the ambient air quality for a proposed highway. For example, an air monitoring station may be located within the downtown area of a community. Traffic in this area may be heavy and possibly congested. This station would measure the ambient air quality for the downtown area. However, if a proposed highway is to be located some distance away from the downtown air monitoring station, the question arises as to the applicability of those measurements to the ambient levels in the vicinity of the proposed highway. To answer this question special consideration should be given to the following:

1) Local stationary or mobile sources between the proposed highway and the air monitoring station.

2) Placement of the sensor in a location such that it is taking a representative air sample.

3) Changes in topography and terrain features between the proposed highway and air monitoring station.

4) Changes in meteorological conditions (wind speed and direction) between the air monitoring station and proposed highway route.

5) Natural removal processes of the atmosphere between the air monitoring station and the proposed highway route.

Studies made by Johnson [3] show that local aerodynamic effects on the air flow in street canyons and around buildings can sometimes cause CO concentrations to vary as much as a factor of 3 from one side of the street to the other. An air monitoring station may have the sensor located in a street canyon or around buildings. The ambient air quality measured may be biased and not representative of the proposed highway route.

Recent studies made by Ott [4] indicate that, in general, if a sensor is located sufficiently remote from city streets it may be expected to provide data representative of the general area rather than levels associated with specific sources. Ott [4] has also shown that ambient CO concentrations will not change significantly over an extensive area and that a single sensor properly located (about 200 feet from the nearest surface streets) can provide representative data for the entire area.

Topography can have a significant effect on the air quality at different locations within an area. Local channeling of the

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surface winds may occur if hills are located between the air monitoring station and the proposed highway route. In this case the major part of the pollutants may be dispersed and transported by the channeling wind. This may possibly result in lower ambient air quality for the proposed highway route.

Measurements of HC, NO_x and O_3 at an air monitoring station may not be representative of the ambient air quality in the vicinity of the proposed highway route. The reason is that HC and NO_2 are involved in a photochemical reaction to form smog. O_3 is a product of this photochemical reaction. This reaction can occur within a period of 20 minutes to 2 hours [15] depending on the amount of HC and NO_2 present and the amount of ultraviolet radiation received from the sun. Another important reaction is that of nitric oxide (NO) and ozone which form nitrogen dioxide (NO_2).

Consider the following example: A proposed highway is located six miles downwind from an air monitoring station. Surface winds are light at 4 to 7 miles per hour. Are the concentrations of HC, NO_2 and O_3 measured at the air monitoring station representative of those at the location of the proposed highway?

With a wind speed of 4 mph, it would take pollutants approximately one and half hours of travel to reach the proposed highway. During this time interval, photochemical reaction may possibly occur, reducing the concentrations of HC and NO_2 while increasing the O_3 concentrations. The same thing would happen for a wind speed of 7 mph. Conversely, if the freeway were built, local ozone concentration would be considerably reduced due to the reaction of nitric oxide with ozone [9] which would result in an increase in the nitrogen dioxide concentration.

Therefore, special consideration is given to carbon monoxide in prediction of future air quality because it is a stable gas and is mostly attributed to motor vehicles.

The localized removal of material from the atmosphere may occur in a number of ways. Particles large enough and heavy enough will settle to the ground due to the action of gravity. Some gaseous pollutants may be removed by absorption upon particulate matter in the atmosphere or by chemical reactions changing the material into a new compound (photochemical smog). Absorption may also take place at the earth's surface or by vegetation. Impaction of particles onto buildings and vegetation and turbulent impaction upon the earth's surface are very significant removal processes.

All of the items discussed above should be given special consideration when analyzing data from a permanent or temporary air monitoring station when applied for the ambient level for the proposed highway route. It is recommended that before any data are obtained, a

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field survey be made of the (1) air monitoring stations for proper location, (2) general sources within the area and (3) general topography and terrain features.

Ambient Air Quality Data to be Obtained from Existing Stations: Obtain from station data sheets the average hourly results for carbon monoxide, hydrocarbons, nitrogen dioxide, oxidant, particulates and lead. Record these data in the form shown in Figure 2 and evaluate as noted in the section on statistical analysis of ambient air quality data.

The State of California and recently the Environmental Protection Agency of the Federal Government have published ambient air quality standards. These standards are compared in Table 2. If comparisons are to be made with these standards one should carefully note the averaging time. As an example note that carbon monoxide has different maximum concentrations for different averaging times.

It should be stressed again that ambient air quality, in terms of use with the Division of Highways mathematical model [2] shall be stated in terms of hourly averages corresponding to the time periods of the meteorological data.

On-site Ambient Air Quality Survey

An ambient air quality survey is required when an air monitoring station is not located in the vicinity of the proposed highway or when such a station is not measuring representative levels as previously discussed. This survey may be performed by using a bag sampling method or a mobile van or a combination of both. The basic procedure detailed below applies to both sampling methods but at the present time the bag sampling method is stressed.

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Table 2

AMBIENT AIR QUALITY STANDARDS
APPLICABLE IN CALIFORNIA

Pollutant	Averaging Time	California Standards		Federal Standards[4]		
		Concentration[7]	Method[1]	Primary[2,7]	Secondary[3,7]	Method[5]
Photochemical Oxidants (Corrected for NO_2)	1 hour	0.10 ppm (200 µg/m³)	Neutral Buffered KI	160 µg/m³ [8] (0.08 ppm)	Same as Primary Std.	Chemiluminescent Method
Carbon Monoxide	12 hours	10 ppm (11 mg/m³)	Non-Dispersive Infrared Spectroscopy	---	Same as Primary Standards	Non-Dispersive Infrared Spectroscopy
	8 hours	---		10 mg/m³ (9 ppm)		
	1 hour	40 ppm (46 mg/m³)		40 mg/m³ (35 ppm)		
Nitrogen Dioxide	Annual Average	---	Saltzman Method	100 µg/m³ (0.05 ppm)	Same as Primary Standard	Colorimetric Method Using NaOH
	1 hour	0.25 ppm (470 µg/m³)		---		
Sulfur Dioxide	Annual Average	---	Conductimetric Method	80 µg/m³ (.03 ppm)	60 µg/m³ (0.02 ppm)	Pararosaniline Method
	24 hours	0.04 ppm (105 µg/m³)		365 µg/m³ (0.14 ppm)	260 µg/m³ (0.10 ppm)	
	3 hours	---		---	1300 µg/m³ (0.5 ppm)	
	1 hour	0.5 ppm (1310 µg/m³)		---	---	
Suspended Particulate Matter	Annual Geometric Mean	60 µg/m³	High Volume Sampling	75 µg/m³	60 µg/m³	High Volume Sampling
	24 hours	100 µg/m³		260 µg/m³	150 µg/m³	
Lead (Particulate)	30 Day Average	1.5 µg/m³	High Volume Sampling, Dithizone Method	---	---	---
Hydrogen Sulfide	1 hour	0.03 ppm (42 µg/m³)	Cadmium Hydroxide STRactan Method	---	---	---
Hydrocarbons (Corrected for Methane)	3 hours (6-9 a.m.)	---	---	160 µg/m³ (0.24 ppm)	Same as Primary Standard	Flame Ionization Detection Using Gas Chromatography
Visibility Reducing Particles	1 observation	In sufficient amount to reduce the prevailing visibility[6] to 10 miles when the relative humidity is less than 70%		---	---	---

NOTES:

1. Any equivalent procedure which can be shown to the satisfaction of the Air Resources Board to give equivalent results at or near the level of the air quality standard may be used.

2. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health. Each state must attain the primary standards no later than three years after that state's implementation plan is approved by the Environmental Protection Agency (EPA).

3. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. Each state must attain the secondary standards within a "reasonable time" after implementation plan is approved by the EPA.

4. Federal standards, other than those based on annual averages or annual geometric means, are not to be exceeded more than once per year.

5. Reference method as described by the EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" to be approved by the EPA.

6. Prevailing visibility is defined as the greatest visibility which is attained or surpassed around at least half of the horizon circle, but not necessarily in continuous sectors.

7. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25° C and a reference pressure of 760 mm of mercury.

8. Corrected for SO_2 in addition to NO_2.

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At the present time, the California Division of Highways is completing two mobile vans for performing an ambient air quality survey. These vans will be equipped to measure carbon monoxide, hydrocarbons, nitrogen dioxide, oxidant, and particulates including lead. They will also be equipped with a wind system which will provide a record of meteorological conditions at the van during measurements.

The two vans will be field tested for six months to one year by two large urban districts: the San Francisco and Los Angeles areas. At the conclusion of this study, an addendum to this manual will be provided. This addendum will provide complete information on the operation of the van together with test methods and calibration procedures.

Sampling Procedures

The basic procedures for an ambient air quality survey are presented below:

1. Locate all existing air monitoring stations within the vicinity of the proposed highway. The exact locations of air monitoring stations can be obtained from the local air pollution district or the California Air Resources Board.

2. Consider the proper exposure of the air monitoring station. This applies to aerodynamic considerations in taking a representative air sample. This is extremely important if the air monitoring station is near a pollutant source.

3. Ambient air quality surveys will be made initially with bag samples. Each bag will be filled by a portable pump. The time to fill the bag should be one hour. This sampling time will not only tend to smooth out the instantaneous peaks, but will serve as a comparison to the state health standards for a one hour duration of exposure. The one hour sampling time will also reduce the manpower requirements for changing the sample bags. Hourly bag samples should be taken throughout the day beginning with morning peak traffic and continuing through the evening peak traffic hours.

4. To reduce the amount of time required for bag sampling in the vicinity of the proposed highway, a correlation of actual field measurements should be made with historical data from the nearest permanent air monitoring station. Before any ambient air quality survey is made, the air intake for the sample should be located near the permanent air monitoring station air intake. In this way both are sampling the same air and a correlation of the different analyzers and of the

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different sampling procedures can be evaluated. This may require one to perhaps five days of measurement, depending on meteorological conditions, before a correlation can be made.

5. Once the correlation between the air monitoring station and field measurement has been established, the number of sampling sites must be considered. The exact number of sites will depend on the variety of homogeneous areas within the vicinity of the proposed highway corridor. Homogeneous areas can be selected on the basis of land use patterns, common meteorological regimes, types of highway design, and sensitive areas. Following are a few examples of each:

   A. Land Use Patterns.

      1) Forested areas
      2) Agricultural areas
      3) Urban areas
      4) Industrial areas

   B. Meteorological Regimes.

      1) Effects of topography
      2) Winds parallel to highway alignment
      3) Winds not parallel to highway alignment
      4) Localized drainage winds.

   C. Highway Design Features.

      1) Major highway interchanges
      2) Location of peak traffic volumes on a given segment of a highway
      3) Areas of possible potential traffic "bottlenecks"
      4) Types of highway design

         a) At grade section
         b) Elevated sections
         c) Cut sections
         d) Fill sections

      5) Metered ramps

   D. Other areas where special consideration should be given to sampling are:

      1) Sensitive receptor areas

         a) Schools
         b) Hospitals
         c) Parks for children's activities
         d) Convalescent Homes
         e) Residential areas

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2) Areas where a freeway is located on a fill that crosses a valley or canyon which will influence the wind flow pattern immediately upwind and downwind for sea breezes and drainage winds.

3) Any location where air pollution considerations are a special focus of public interest.

All of these features should be considered and may be plotted on a map of the area. Ideally, air samples should be taken at each of the different homogeneous sections along the highway corridor. However, manpower requirements may possibly restrict the number of sampling sites to those which are the most critical areas along the proposed route.

6. After a field measurement program is established, all sites along the highway corridor should be sampled simultaneously over the same time period to provide a temporal and spatial distribution of pollutants.

7. The exact location of the bag samples at each site should be sufficiently removed from any local point source, or street with traffic, to minimize non-representative samples. The bag samples should be taken 5 feet above the ground surface except where higher level receptors are found.

8. The field measurements should be correlated with measurements made at the closest air monitoring station. This correlation (if it exists) should indicate the temporal trends at the air monitoring station corresponding to the temporal trends of the field measurements. Once this correlation is established along with the previously mentioned correlation of analyzers and sampling techniques, the historical records can be used to extrapolate ambient levels for other periods of the year. This approach can significantly reduce the number of bag samples required and is recommended if it is possible.

9. If no correlation of temporal trends exists between the field measurements and the closest air monitoring station, a more extensive field measurement program is in order. This field measurement program should last at least one year to fully consider seasonal variation in pollutant levels. Field measurements are not necessarily required for every day of each month. If a nearby meteorological data source records cloud cover, ceiling height, wind speed, and direction, the probability of the surface atmospheric conditions can be estimated from computer programs STAROS or WINDROS [7]. This will serve as a guide to months having similar meteorological conditions and months having the worst meteorological conditions. During the months which have the greatest potential for air pollution, field measurements

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of the ambient air quality should be made daily. During months with more favorable meteorological conditions, field measurements can possibly be reduced, except during an air pollution episode in which sampling should be done on a daily basis. As a guideline for reducing the number of days of sampling, historical air quality data (maximum hourly average concentrations) should be analyzed by month. For example it may be determined that during the month of January for the past ten years that sampling once every 3 days is 95% as accurate as daily sampling. The Materials and Research Department is currently investigating this approach and any questions regarding it should be directed to this office.

The bag sampling program should continue throughout the day from peak morning through peak evening traffic hours. This approach may change depending on available manpower. Special cases may warrant 24 hour monitoring depending on receptor's location with respect to the highway route. In the absence of any meteorological source to give surface atmospheric stabilities, consult with the Materials and Research Department in Sacramento for guidance and assistance for evaluating the months for the greatest air pollution potential.

10. All the ambient air quality data from the field program should be summarized for a one hour averaging time. Concentration contours can be plotted on a map of the area indicating any possible high concentration areas.

Figure 1 shows a flow chart for an ambient air quality survey.

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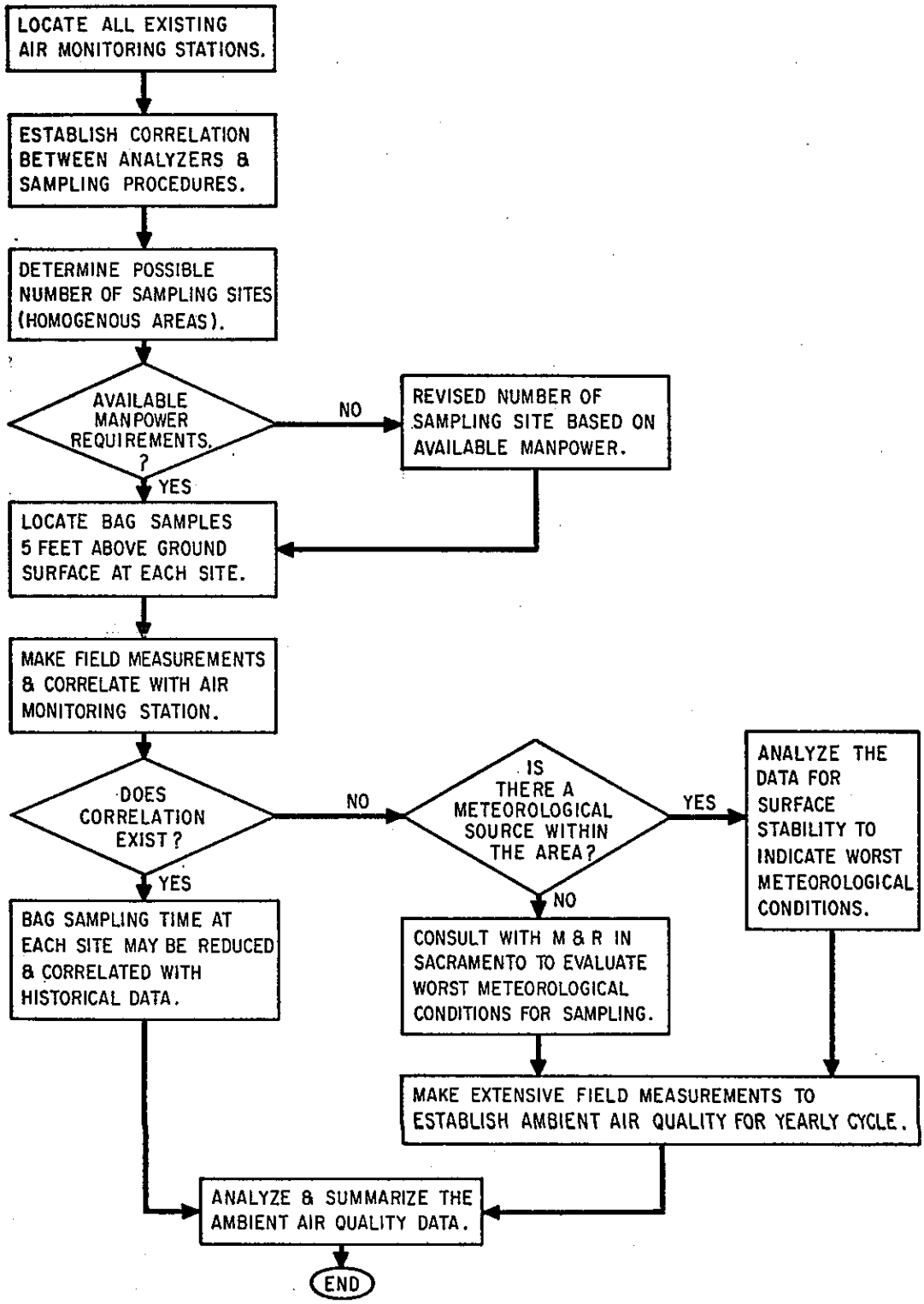

Figure 1 FLOW CHART FOR AN AMBIENT AIR QUALITY SURVEY

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Statistical Analysis of Ambient Air Quality Data

The primary purpose in collecting and analyzing ambient air quality data is to obtain a representative estimate of existing air quality within the project area. Air quality can have considerable temporal variation depending on the meteorological conditions and upon the growth of the community. The meteorological conditions that significantly influence air quality are (1) wind speed, (2) wind direction, (3) surface based inversions, and (4) elevated inversions. These meteorological conditions must be considered when collecting and analyzing air quality data. When using the highway line source dispersion model [2], the concentrations of pollutants are estimated for the most probable as well as for the worst surface meteorological conditions. This involves a particular stability class associated with a prevailing wind speed and direction. To obtain representative air quality data, the samples must be collected under similar meteorological conditions. This will make possible a statistical analysis using data taken from the same population.

Data may be presented either graphically (or tabular) or numerically. The following describes each type of presentation:

I. Graphical or Tabular Presentation

   a. Frequency distribution
   b. Relative frequency distribution
   c. Cumulative frequency distribution
   d. Relative cumulative frequency distribution
   e. Histograms

II. Numerical Presentation

   a. Central tendency
   b. Dispersion

When analyzing aerometric data, there are various statistical distributions of pollutant concentrations that may exist.* One possible distribution is the gaussian or normal distribution which is characterized by a mean and a standard deviation. These are measures of the central point and spread of the bell shape distribution curve. Much of the data analyzed on air pollutant concentrations indicate that a normal distribution is usually not characteristic [13] and [14].

Larsen [15] has shown that the lognormal distribution more accurately describes the pollutant concentrations measured in the atmosphere. In the lognormal distribution the concentrations must be transformed to their logarithms of base 10. Once this transformation has been

*The following discussion was extracted and summarized from a paper "Simplified Methods for Statistical Interpretation of Monitoring Data" by B. E. Saltzman.

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made, a statistical analysis of the data can be performed. Antilogarithm of the mean logarithm is then known as the geometric mean. The antilogarithm of the standard deviation of the logarithms is known as the standard geometric deviation.

The easiest method of examining the data distribution is by plotting on logarithmic probability paper. The cumulative frequency distribution is plotted. If the numbers follow a lognormal distribution, a straight line can be fitted to the data. The concentration related to the 50% value is the geometric mean. The slope of the line is a measure of the standard geometric deviation. The standard geometric deviation is numerically equal to the ratio of the 15.85% concentration to the 50% concentration.

In drawing the line of best fit, more attention should be given to points near the center of the distribution than those near the extremes. Tails are bound to show scatter since the actual number of observations in that region is usually small.

It should be stressed that lognormal distribution is applicable only if the sampling is random. The concentrations of pollutants in the atmosphere fluctuate in cycles depending on meteorological conditions. Random samples of pollutant must be collected over a period of time long enough to include many cycles. Sampling over a period as long as one month can in some cases deviate seriously from random sampling relationships. When neither the normal nor the lognormal distributions are representative of the data the use of nonparametric statistics is recommended. In this case, no assumptions are made about the underlying distribution of the data, and it is assumed the observations are made independent of each other.

Some of the advantages of nonparametric statistics [13] are: (1) they are more appropriate for non-random data (2) statistical tests are more desirable especially with small samples and (3) effects of outliers are minimized. It should be stressed that if the underlying distribution is known, the use of a nonparametric analysis is not the best approach. Under these conditions the use of classical statistics is recommended.

In the analysis of ambient air quality data the mean and standard deviation are calculated from the same set of data and then the t_{n-1} distribution is applied to determine the confidence interval of the mean. The following equation can be used:

$$\text{Confidence Interval} = \bar{X} \pm t_{n-1}\left[\frac{S}{\sqrt{n}}\right] \qquad (1)$$

where $\bar{X}$ = mean
S = standard deviation
n = number of samples
t_{n-1} = tabulated statistic for various confidence limits and degrees of freedom.

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Example calculations of confidence intervals are presented in Appendix B.

At the present time the Division of Highways is developing an additional training manual on the procedures and applications of nonparametric statistics in analyzing aerometric data. Until this manual is completed the above procedures should be followed when analyzing aerometric data in environmental impact reports.

If sufficient data are available, it is recommended that a numerical analysis be made. However, in many cases, lack of historical data or data collected from different meteorological regimes may result in skewed distribution of the data. For this condition a frequency analysis should be made along with numerical averages for a given meteorological condition. Appendix B describes in detail the graphical and numerical analysis. Figure 2 shows a work sheet for logging air quality data for statistical analysis.

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DATA RETRIEVAL NO:_____

STATION NAME:_____ LOCATION_____

MONTH:_____ YEAR:_____ TIME_____

	METEOROLOGICAL CONDITIONS			POLLUTANT CONCENTRATION (PPM)					
	WIND		INVERSION BASE INTERVAL						
DAY	DIRECTION	SPEED INTERVAL		CO	NO_2	HC	O_3	PARTICULATES	LEAD

Fig.2 WORK SHEET FOR COLLECTING AMBIENT AIR QUALITY DATA

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MESOSCALE ANALYSIS OF AMBIENT AIR QUALITY DATA

The mesoscale analysis of ambient air quality is important in assessing the impact of the highway on the environment. There are three primary purposes for this analysis: (1) to estimate the amount of pollutants transported into the project area from other areas, (2) to estimate the effects that emission control devices have on air quality and (3) to estimate future trends in air quality.

Transported Air Pollution

Air pollutants can be transported many miles. On-site pollutants may be generated many miles distant. Under certain meteorological conditions these pollutants may be transported to a downwind location. This can degrade ambient air quality for the downwind area especially when added to the area's own sources of pollution. Typical examples of areas where transported air pollutants occur in California are:

1) From the Los Angeles Basin into the Riverside and upland desert areas.

2) From the San Francisco Bay Area into San Jose.

3) From the San Francisco Bay Area into the Central Valley of California.

In all cases the transport of air pollutants is primarily caused by surface winds. The first step in a mesoscale study is to analyze the surface wind streamlines. An analysis developed by Crawford[6] involves a tracer pollutant (usually CO) and meteorological records for the proposed highway route area and the upwind pollutant source area. The procedure is as follows:

1) Select typical days where historical data show adverse air pollutation conditions for the downwind location.

2) Compare the wind data for both the upwind and downwind stations for these days to make sure that surface winds could have transported the pollutants from the upwind source to the downwind receptor area.

3) For these typical days plot the data for concentrations at the downwind location vs. time of day.

4) Estimate the transport of pollutants from the dual peaks (if they exist) from the curve plotted in Step 3.

Figure 3 illustrates this concept. The travel time, as indicated on Figure 3, should be correlated with the wind speed and direction and distance of the upwind source from the downwind area. The

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travel time is the time it takes the surface winds to transport the pollutants from the upwind source to the downwind area. The percentage of transported pollutants into an area can be estimated by the following equation:

$$\% \text{ transported} = \frac{H - L}{L} \times 100\% \quad \text{(expressed as a \% of the low peak concentration)} \qquad (2)$$

Where H = pollutant concentration at higher peak

L = pollutant concentration at lower peak

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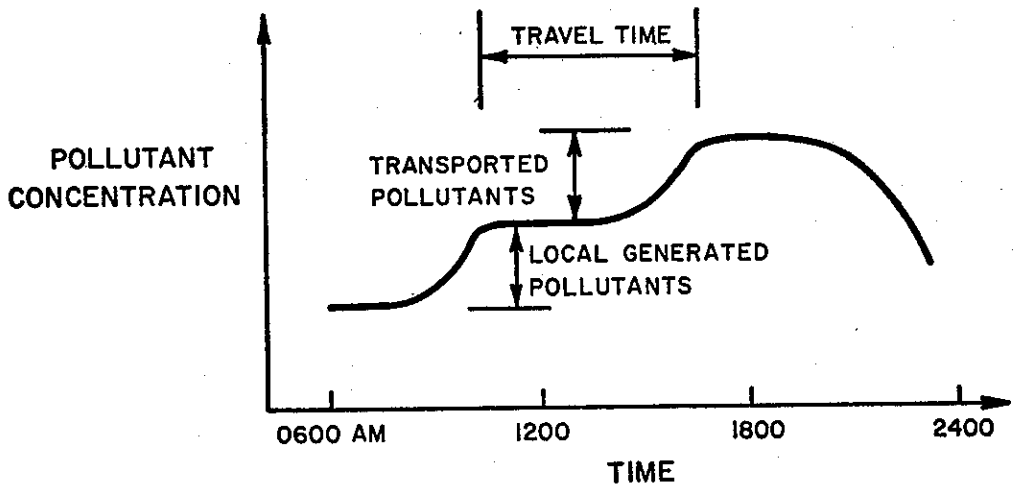

Fig. 3 ESTIMATES OF TRANPORTED POLLUTANTS FROM OTHER AREAS BY DUAL PEAK ANALYSIS

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Another possible approach to estimate the amount of pollutants that are transported into the highway project area from an upwind source area is to give special consideration to wind speeds. The procedure is as follows:

1. Select typical days both within the highway project area and the upwind source area where historical meteorological conditions indicate light winds (less than 4 mph).

2. For these typical days (light winds), within the project area, plot pollutant concentration vs. time of day. This can indicate the pollutants generated within the project area.

3. Select typical days when the meteorological conditions indicate moderate to strong surface winds blowing from the upwind source area to the highway project area. Moderate surface winds can be considered as winds 8 to 12 mph while strong surface winds are greater than 13 mph.

4. For these typical days (moderate to strong winds), plot pollutant concentration vs. time of day.

5. Estimate the transport of pollutants by differences in concentrations (if they exist).

Figure 4 illustrates this concept.

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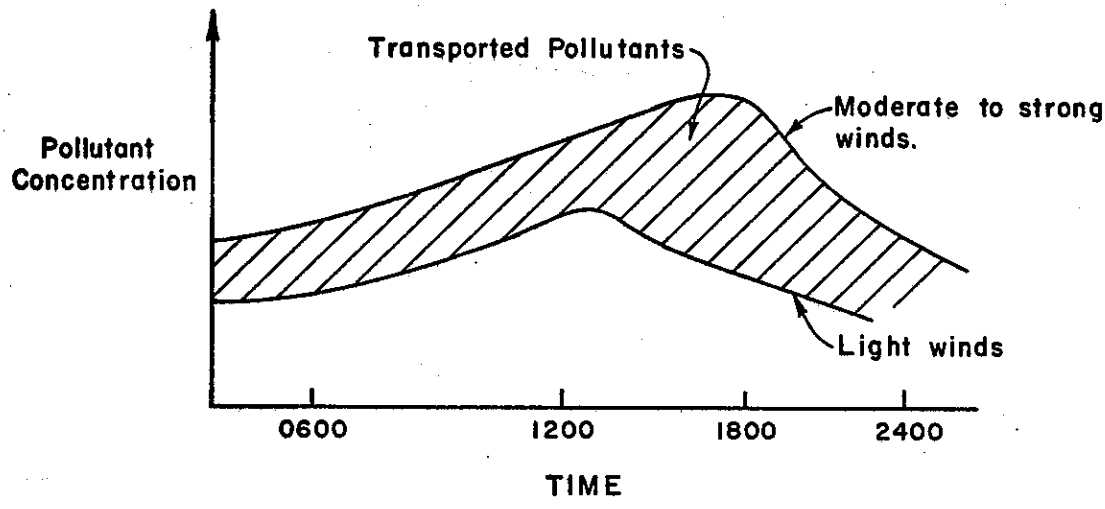

Fig. 4 ESTIMATES OF TRANSPORTED POLLUTANTS FROM OTHER AREAS BY SURFACE WIND ANALYSIS

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Time History of Number of Adverse Days

An adverse day is said to exist when the pollutant concentration on a given day exceeds an arbitary upper limit. A tabulation of the number of adverse days per year can be made for all the years from which historical data are available. Figure 5 illustrates this analysis for a hypothetical situation.

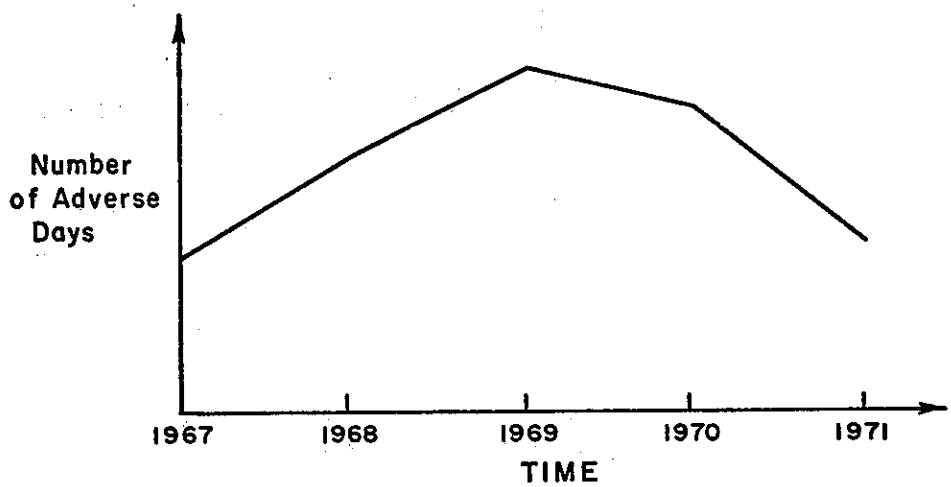

Fig. 5 NUMBER OF ADVERSE DAYS AT AIR MONITORING STATION

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Figure 5 shows a gradual increase in the number of adverse days up to 1969. From 1969 to 1971 there are significantly fewer adverse days. This can be attributed to such things as: (1) changes in meteorological conditions (better ventilation), (2) the increasing number of vehicles that have emission control devices, and (3) the combined effects of both. To distinguish between the effect of meteorological conditions and emission devices on vehicles, the meteorological records should be studied. This study should include: wind rose analysis of surface winds to compare wind speeds and directions, and comparison of elevated inversions aloft (if these data are available). If there were no significant changes in meteorology from 1967 to 1971, as in this example, the reduction in the number of adverse days can possibly be attributed to the increased number of vehicles with emission control devices (assuming the emissions of pollutants from industrial sources are controlled). If there were changes in meteorological conditions, the reduction would be due both to these changes and to emission control devices on vehicles.

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Pollutant Burden Concept

A method of estimating pollutant burden within an area was discussed in an earlier report [2]. Figure 6 shows typical curves of pollutant burden vs. time as described in that report. The total pollutant burden is that attributed both to the freeway and the local traffic network. The curves in Figure 6 are the product of the daily vehicle miles traveled both on the freeway and on the local traffic network and the corresponding emission factors. These curves can be constructed for CO and HC.

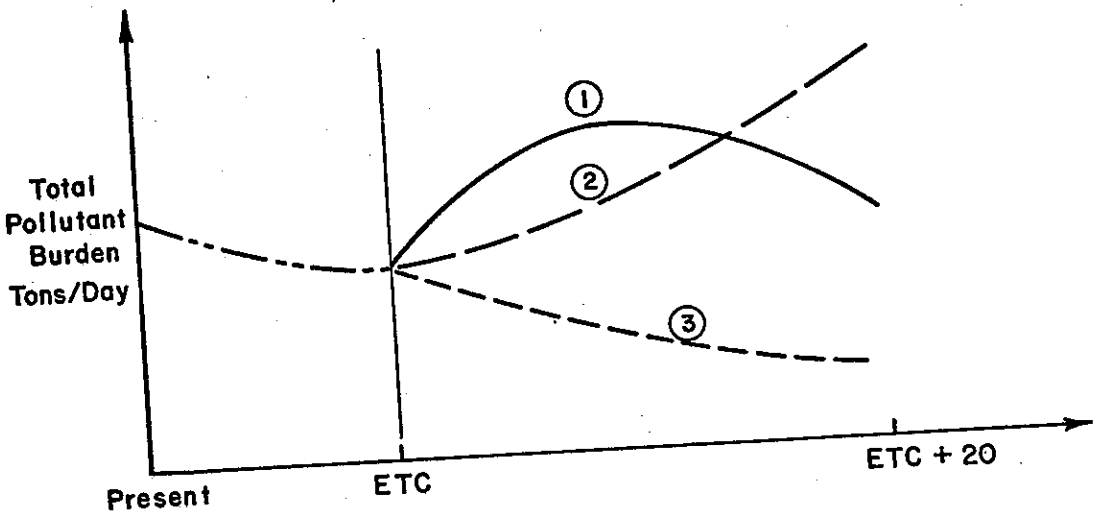

Fig. 6 TOTAL POLLUTANT BURDEN VS TIME

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Curve 1 indicates that the critical year for pollutant burden occurs between the estimated time of completion and twenty years hence. Curve 2 indicates a situation where the rate of traffic increase overpowers the effect of emission control devices on motor vehicles. Curve 3 indicates an opposite situation where the rate of traffic increase is offset by the effectiveness of emission controls on vehicles.

The three curves in Figure 6 may aid in estimating future air pollution potential. For example: Suppose that Figure 5 represents an actual number of adverse days per year from air monitoring station records. Assume that curve 3 in Figure 6 represents the projected pollutant burden of HC within the area where the air monitoring station is located.* Since Curve 3 in Figure 6 indicates a reduction in the total burden of HC and Figure 5 indicates that the number of adverse days are reducing, a conclusion can be made that in general, the number of adverse days within the area are expected to be less in the future years. The total burden of HC includes sources other than automobiles and this fact should be reflected in the analysis.

*In the analysis HC is used as a measure of the possible photochemical reaction to produce O_3.

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PREDICTION OF FUTURE POLLUTANT CONCENTRATIONS

This analysis for predicting future pollutant concentrations is limited to CO because it is a relatively inert pollutant and is generated primarily by motor vehicles. The analysis further assumes that traffic originating from future changes in land use is considered in the traffic estimates and is based on a master plan of development for the impact area. It is important to emphasize that highways can have a very significant influence on land use patterns. It should be determined whether the master plan actually includes the highway or freeway in question. New industrial point sources will not normally make significant contributions to CO concentration as compared to highways. However, land use plans should be examined for future point source locations and their effect on future ambient air quality estimated.

When evaluating the impact of a highway on the air environment, it is necessary to know the existing ambient air quality within the proposed highway corridor and impact area. For a complete analysis, an air quality comparison must be made with and without the new highway for a period encompassing the estimated time of completion (ETC) and twenty years afterward (ETC+20). It is necessary to make this estimate of ambient air quality for ETC and ETC+20 using only existing and historical data. Knowing the historical ambient air quality associated with given meteorological conditions, estimates or predictions of future pollutant concentrations within the highway impact area can be made.

Beaton, et al [2] discussed an analysis for the critical year of the total CO burden. Those basic techniques can also be applied to future estimates of pollutant concentrations of CO within the highway corridor and impact area. Figure 6 summarizes three possibilities of the critical year concept.

The estimates of future CO concentrations can be made with the following assumptions:

1. Ambient air quality, as represented by CO, is influenced by the proposed highway and the associated changes in traffic on the surface network.

2. Future predictions of ambient CO concentration can be based on analysis of the present and historical air quality for different seasonal meteorological regimes and time periods as previously discussed in this manual.

3. The change (increase or decrease) in future ambient CO concentration can be predicted from an analysis similar to that shown in Figure 6.

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Figure 7 illustrates a future change in CO levels (assuming a curve of Type 3 in Figure 6). Figure 7 is for a particular meteorological regime; for example, winter months, a.m. peak traffic period. Similar curves can be made for other seasons and time periods as discussed in reference [7].

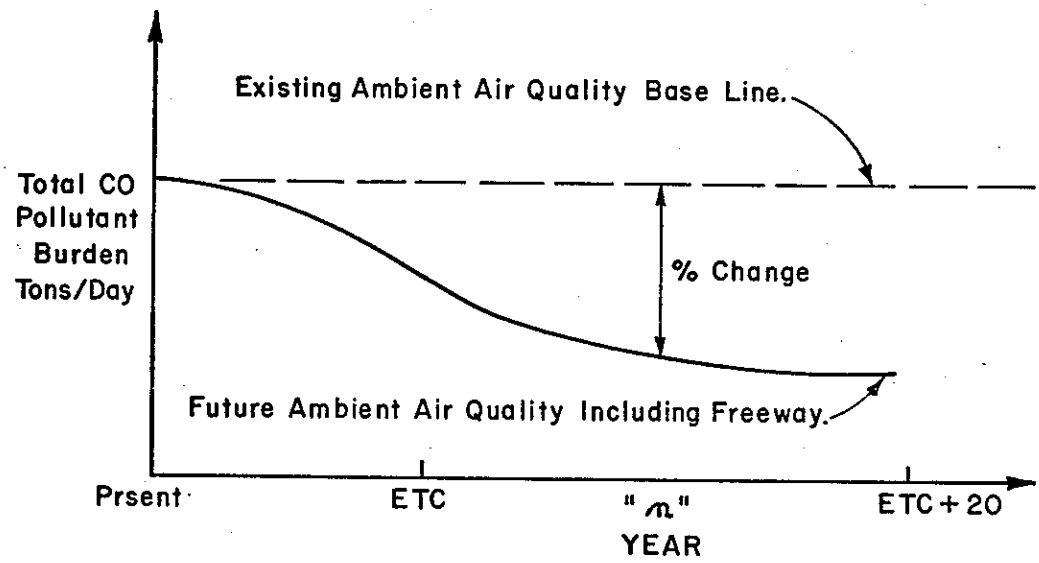

Fig. 7 FUTURE CHANGE IN CO BURDEN UNDER A PARTICULAR METEOROLOGICAL REGIME

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In Figure 7 the percent change is defined as follows:

$$\% \text{ Change} = \frac{(TPB)_n - (TPB)_p}{(TPB)_p} \times 100\% \qquad (3)$$

where $(TPB)_n$ = total pollutant burden in tons per day at future time "n".

$(TPB)_p$ = total pollutant burden in tons per day at present time "p".

A negative percent change indicates that ambient air quality is improving while a positive change indicates a degradation in ambient air quality. The percent change can be determined on an incremental basis from the present to the end of the period.

To make future estimates of CO for a given meteorological condition the procedures are as follows:

1. Determine the present air quality for CO from existing sources or field measurements. This analysis should be made for the most probable and worst meteorological conditions for each peak and off-peak traffic period.

2. Determine the percent change for future years in the total pollutant burden using equation 3.

3. Reduce or increase the present (as determined in Step 1) pollutant concentration to estimate the future ambient level. This reduction or increase is determined in Step 2.

Figure 8 illustrates the future estimates of average ambient CO concentration, based on the example shown in Figure 7.

Future ambient CO levels within the proposed highway corridor should be estimated with and without the new facility included in the analysis. In this way a comparison of the future ambient CO levels can be compared if the freeway is or is not built.

It may be possible to apply this same predictive analysis to hydrocarbons and oxides of nitrogen. However, since these two pollutants enter into photochemical reactions, the conditions for meteorological similarity should include radiation, temperature, and humidity in addition to wind speed and direction and inversion height. Also, since substantial amounts of these pollutants come from sources other than the internal combustion engine, the calculation of total pollutant burden becomes more complex.

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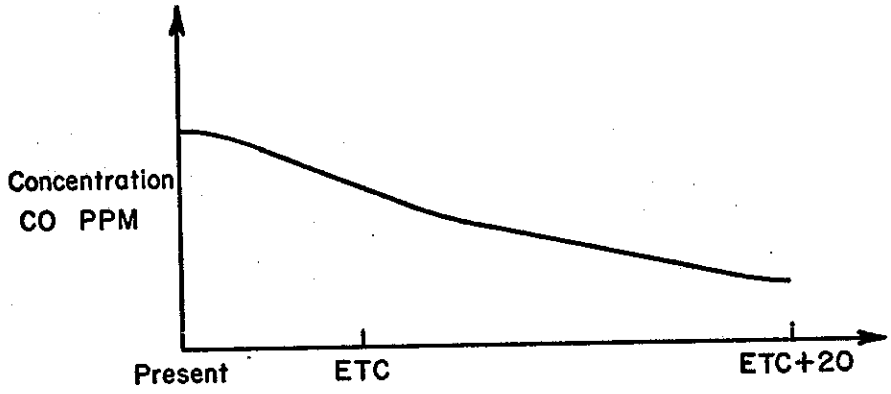

Fig. 8 FUTURE ESTIMATES OF CO
FOR A GIVEN METEOROLOGICAL CONDITION

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APPENDIX A

AIR QUALITY DATA FOR CALIFORNIA

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Appendix A presents typical pages from a copy of the report "California Air Quality Data for June, July and August 1971". This report was prepared by the California Air Resources Board and is typical of the quarterly reports for other years.

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CALIFORNIA
AIR QUALITY DATA
JUNE, JULY, AUGUST 1971

The following tables provide detailed information on the quality of the ambient air over California cities. The information is provided largely by cooperating Air Pollution Control Districts and from air monitoring stations operated by the California Air Resources Board. The station locations, the contaminants measured, and the agencies collecting the data are listed on pages 48 through 52.

The air quality information supplied to the Air Resources Board by the cooperating agencies usually consists of hourly average concentrations (see below for definitions) and the daily peak concentrations. Some stations report only the maximum hourly average concentrations and the peak concentrations. Some measure only one contaminant, others as many as eight. Most stations are permanent installations, although circumstances or planning sometimes require relocation or discontinuance of a station.

The contaminants usually measured are oxidants, carbon monoxide, sulfur dioxide, nitric oxide, nitrogen dioxide, total oxides of nitrogen, total hydrocarbons, and suspended particulate. Sampling methods and reporting units are described below.

The information reported in the quarterly tables consists of the maximum hourly average concentration for each day, the highest of these values for the month, the monthly average of these values, and the peak concentration reached during the month. The peak concentration is usually higher than the highest hourly average reported; it can be the same, but not less. Tables presenting values for the daily average and highest reported reading for particulate matter by the AISI method and 24-hour values for particulate matter by the High Volume filter method are included. Also included are tables defining values equalling or exceeding the various ambient air quality standards for oxidant, carbon monoxide, and nitrogen dioxide. Selected summary tables are also given from time to time. These tables frequently cover more than one quarter and, on occasion, may cover periods later than this particular quarter.

In addition to the information reported here, detailed summaries including a variety of frequency distributions, tables of diurnal variation, daily averages, hourly averages, etc., for past years for the entire State are available for inspection (but not for distribution) in the Air Resources Board office in Sacramento and in the offices of the cooperating agencies. Copies are also sent to the National Aerometric Data Bank, EPA, Research Triangle Park, North Carolina 27711. The latest yearly summaries are for the 1971 calendar year.

DEFINITION OF TERMS, SAMPLING METHODS AND REPORTING UNITS

HOURLY AVERAGE: The average concentration for a 60-minute period, usually the clock hour. This is an integrated value, usually read from the strip chart by eye. Some parts of the hour have lower values than the average, some higher. There are twenty-four such values each day, starting with hour 00 and ending with hour 23.

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DAILY PEAK CONCENTRATION: The highest concentration reached during 24 hours of sampling, and may be of only a few moments duration. The monthly peak concentration is the highest concentration reached during the month.

DAILY MAXIMUM HOURLY AVERAGE: This is the highest of the 24 hourly average values reported during the day. The monthly maximum hourly average is the highest such value reported during the month.

TOTAL OXIDANT: The term refers to all substances which may be present in the atmosphere that oxidize potassium iodide (KI) to form iodine (I_2) such as ozone, nitrogen dioxide (NO_2) and organic peroxides. Specific spectroscopic measurements indicate ozone is the principal oxidant in California air. Concentrations are measured with continuous recording analyzers using potassium iodide and are reported as parts of oxidant per million parts of air. The analyzers are standardized against ozone. All are colorimetric instruments, except those operated by the Bay Area Air Pollution Control District which are coulometric analyzers. Results are reported as ppm by volume.

NITROGEN OXIDES: Continuous measurement of NO_2 is performed by scrubbing the sample air with an absorbing solution (Saltzman type reagent) in an automatic recording analyzer. Reaction with the NO_2 forms a red azo dye which is measured photometrically and recorded on the strip chart as ppm NO_2.

NO is determined by first passing the air sample through an acid permanganate bubbler (oxidizer) which converts the NO to NO_2. The NO plus NO_2 originally present is recorded as NO_x value (parallel mode). In the series mode NO is measured by leading effluent gas from the NO_2 absorber containing only NO to the oxidizer followed by a second NO_2 absorber. The resulting color is recorded as ppm NO.

San Diego and Los Angeles measure nitrogen oxides by the series mode. All other districts and the state-operated stations use the parallel mode. Peak concentrations in all cases are read independently.

CARBON MONOXIDE: Carbon monoxide is measured continuously by measuring the absorption of nondispersed infrared radiation (NDIR) by the CO molecule. Irradiation from a hot filament is directed to a detector through two cells: A reference cell filled with dry air or nitrogen and a sample cell through which the air is continuously drawn. The difference in infrared absorption between the reference and sample cells creates a pressure difference in the detector. This pressure difference is transduced to CO concentrations in parts per million. The principal interferences in this method are caused by water vapor and carbon dioxide. Water vapor in the sampled air results in slightly higher values when compared with dry air.

SULFUR DIOXIDE: Sulfur dioxide concentrations are usually monitored by scrubbing sample air with a dilute solution of sulfuric acid and hydrogen peroxide. The SO_2 is converted to H_2SO_4 upon absorption in the solution, thus increasing the conductivity which is recorded as ppm SO_2.

HYDROCARBONS: Hydrocarbons are measured with continuous flame ionization analyzers standardized against methane at all stations of the Los Angeles County Air Pollution Control District. All others are standardized against propane. Results are reported as parts of methane per million parts of air.

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SUSPENDED PARTICULATE MATTER: Particulate matter samples are taken by automatic AISI samplers using two-hour sampling cycles at most stations, although one station uses a three-hour cycle, and one station uses a one-hour cycle. Values are calculated by comparing light units per 1,000 linear feet of air passing through the filter. COH units less the 1.0 indicate relatively clean air. Daily average values are tabulated regardless of the number of readings reported.

Suspended particulate matter samples are also taken by a High Volume sampler using a 24-hour sampling period. Values are calculated by weighing the filters before and after the sample is collected, the difference being expressed as micrograms of particulate matter per cubic meter of air drawn through the filter.

COMMENTS ON THE TABLES

Oxidant. One of the more smoggy days this quarter was June 15. On this high-oxidant and mostly cloudless day, the circulation over the Bay Area and southward was dominated by high pressure aloft. Maximum hourly oxidant concentrations above .08 ppm were reported by 40 stations in five air basins, viz. San Francisco Bay Area, San Joaquin, South Coast, San Diego, and Southeast Desert.

One of the least smoggy days this quarter was June 10. On this low-oxidant day the circulation over California was dominated by low pressure aloft.

The proximity of these two June days provides an opportunity to look at the maximum temperatures and mean wind speeds associated with a high-oxidant and a low-oxidant type day.

As shown in Table 1, maximum temperatures on the high-oxidant day were some 17°F higher than maximum temperatures on the low-oxidant day. This 17°F difference between the median values of the maximum temperature is seen in the data for each of three basins, although there is variability between individual stations. These, and other data, indicate that summertime high-oxidant values typically occur with above normal maximum temperatures.

The inclusion of mean daily wind speeds in Table 1 provides a look at another, somewhat more complex, meteorological variable. As shown, these wind speed data vary from basin to basin and from station to station. The San Francisco Airport mean speed of 12.5 mph appears relatively windy for a high-oxidant day. At Los Angeles Airport and Long Beach Airport the mean speeds are greater on the high-oxidant day. These and other data indicate that mean daily wind speeds from coastal stations may mask the fact that the morning winds are conducive for the accumulation of oxidant type pollutants, as was the case at San Francisco Airport on June 15.

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Table 1

MAXIMUM DAILY TEMPERATURE AND MEAN DAILY WIND SPEED
FOR SELECTED CALIFORNIA STATIONS - JUNE 1971

Station	Maximum Temperature (°F) June 10*	Maximum Temperature (°F) June 15**	Mean Wind Speed (mph) June 10*	Mean Wind Speed (mph) June 15**
San Francisco City	59	77	not available	
San Francisco Airport	67	83	13.5	12.5
Oakland Airport	63	80	10.5	6.8
Bay Area (median)	63	80°F	12.0	9.6 mph
Stockton Airport	82	100	9.9	7.9
Fresno Air Terminal	82	99	10.4	6.2
Bakersfield Air Terminal	80	98	10.1	6.6
San Joaquin Valley (median)	82	99°F	10.1	6.6 mph
Los Angeles City	66	93	not available	
Los Angeles Airport	67	70	6.2	6.9
Long Beach Airport	70	84	7.3	8.3
South Coast (median)	67	84°F	6.7	7.6 mph

* a low-oxidant day
** a high-oxidant day

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Carbon Monoxide. The federal air quality standard of 9 ppm average concentration for 8 hours was exceeded at eight cities during the quarter. The maximum 8-hour average carbon monoxide concentration, 14 ppm, was recorded at Palm Springs on July 13. Palm Springs also recorded the greatest number of occurrences (9).

The federal standard of 35 ppm for one hour was not exceeded during this quarter.

Nitrogen Dioxide. The State air quality standard of .25 ppm for one hour was exceeded at ten stations, all in the South Coast Basin. The maximum hourly average concentration reported was .56 ppm at Los Angeles on June 15. The Burbank station reported 67 hours at or above .25 ppm during the quarter.

Suspended Particulate Matter. The maximum particulate concentration reported during the quarter was 453 $\mu g/m^3$ at Indio on June 10, a day with low oxidant levels statewide. For the State, 25% of the samples exceeded the State standard of 100 $\mu g/m^3$. A summary of high-volume sampling data by basin is given in Table 2.

Table 2

PARTICULATE LOADINGS (BY HIGH-VOLUME SAMPLER)
June, July, August 1971

Basin	No. of Samples	No. Exceeding 260 $\mu g/m^3$	150 $\mu g/m^3$	100 $\mu g/m^3$	Max.	Min.
North Coast	146	1	4	20	352 $\mu g/m^3$	9 $\mu g/m^3$
San Francisco Bay	385	0	1	19	165	10
North Central Coast	43	0	0	5	124	25
South Central Coast	36	0	3	4	232	16
South Coast	177	0	33	94	255	13
San Diego	28	0	1	8	159	38
Northeast Plateau	17	0	0	0	72	18
Sacramento Valley	64	0	1	9	155	30
San Joaquin Valley	166	5	42	101	425	37
Southeast Desert	43	3	10	17	453	8

The evaluation of high-volume sampling data is sometimes complicated by the fact that one sampler may "see" a specific local source emission while another nearby sampler may not. The degree of, or lack of, bias is more easily recognizable wherever two samplers are operated near to each other. However, such bias may exist and be hard to recognize wherever a single sampler is operated. Hence, care must be taken in locating a high-volume sampler to ensure that its exposure is representative. An example of this kind of bias can be seen in the two Ft. Bragg samples taken on July 10; the concentration found at one station was 59 $\mu g/m^3$ while the concentration found at the other station was 201 $\mu g/m^3$.

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Lead. In July 1971 the Air Resources Board started to take atmospheric lead samples at five stations. As seen from the quarterly table, none of the stations exceeded the State standard during the quarter.

1971 Air Quality Summaries

Two summary tables of high-volume particulate sampling results for 1971 are given at the end of this issue. Several summary tables of 1971 oxidant experience are given just ahead of the particulate summary. The oxidant tables show the number of days, by station and by month, that the maximum hourly oxidant concentration exceeded .08 ppm. For stations submitting hourly average oxidant concentrations, the total number of hours in excess of .08 ppm is also given. The oxidant tables include only those stations reporting throughout 1971.

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DATA RECEIVED BY THE AIR RESOURCES BOARD FROM AIR MONITORING STATIONS IN CALIFORNIA

JUNE, JULY, AUGUST 1971

BASIN, COUNTY, AND CITY	CONTAMINANTS MEASURED									PARTICIPATING AGENCY
	OX	CO	NO	NO_2	NO_X	HC	SO_2	PARTICULATE MATTER AISI	PARTICULATE MATTER HI-VOL	
NORTH COAST AIR BASIN										
Humboldt County									X	
Arcata									X	Humboldt County Air Pollution Control District
Blue Lake									X	
Eureka - H. D.									X	
Eureka - Gen. Hosp.									X	
Eureka - Hwy. Dept.									X	
Fortuna									X	
Garberville									X	
Orick									X	
McKinleyville									X	
Samoa									X	
Mendocino County									X	
Fort Bragg - So.								X	X	Mendocino County Air Pollution Control District
Fort Bragg - City Hall								X	X	
Ukiah Public Works								X	X	
Willits										
Calpella										
Ukiah - Mendo Mill										
SAN FRANCISCO BAY AREA AIR BASIN										California Air Resources Board
Alameda County								X		
Oakland	X	X	X	X	X	X		X	X	Bay Area Air Pollution Control District
San Leandro	X					X				
Fremont	X	X						X	X	
Livermore - Rincon	X			X		X				
Livermore - Railroad	X	X								
Contra Costa County										
Pleasant Hill	X						X	X	X	Bay Area Air Pollution Control District
Richmond	X	X	X	X	X	X		X	X	
Pittsburg	X	X	X	X	X	X	X			
North Richmond							X			
Point Richmond										
Marin County								X	X	Bay Area Air Pollution Control District
San Rafael	X	X	X	X	X	X				
San Francisco County								X	X	Bay Area Air Pollution Control District
San Francisco	X	X	X	X	X	X				
San Mateo County								X	X	Bay Area Air Pollution Control District
Redwood City	X	X	X	X	X	X		X	X	
Burlingame	X	X				X				
Santa Clara County								X	X	Bay Area Air Pollution Control District
San Jose	X	X	X	X	X	X				
Sonoma County								X	X	California Air Resources Board
Petaluma	X	X	X	X	X	X				

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DATA RECEIVED BY THE AIR RESOURCES BOARD FROM AIR MONITORING STATIONS IN CALIFORNIA

JUNE, JULY, AUGUST 1971

BASIN, COUNTY, AND CITY	CONTAMINANTS MEASURED									PARTICIPATING AGENCY
	OX	CO	NO	NO_2	NO_X	HC	SO_2	PARTICULATE MATTER AISI	PARTICULATE MATTER HI-VOL	
SAN FRANCISCO BAY AREA AIR BASIN										
Solano County	X	X	X	X	X	X		X	X	California Air Resources Board
Vallejo	X							X		
Fairfield										California Air Resources Board
Napa County		X								
Napa - First St.	X									
Napa - Solano Hwy.										
NORTH CENTRAL COAST AIR BASIN										
Monterey County	X							X	X	Monterey-Santa Cruz County Unified Air Pollution Control District
Gonzales								X		
Salinas - Natividad	X		X	X	X	X		X	X	
Salinas - Alisal	X	X	X	X	X			X	X	
Monterey										Monterey-Santa Cruz County Unified Air Pollution Control District
King City								X	X	
Santa Cruz County	X			X						
Santa Cruz										
SOUTH CENTRAL COAST AIR BASIN										
San Luis Obispo County	X	X	X	X	X	X		X	X	California Air Resources Board
San Luis Obispo									X	California Air Resources Board
Santa Barbara County	X									
Santa Maria										
SOUTH COAST AIR BASIN										
Santa Barbara County	X	X	X	X	X	X		X	X	California Air Resources Board
Santa Barbara									X	
Ventura County									X	Ventura County Air Pollution Control District
Ventura	X	X	X	X	X	X			X	
Ojai	X	X	X	X	X					
Camarillo										
Oxnard									X	
Los Angeles County									X	
Los Angeles - Downtown	X	X	X	X	X	X	X	X		Los Angeles County Air Pollution Control District
Azusa	X	X	X	X	X	X	X	X		
Burbank	X	X	X	X	X	X	X	X		
West Los Angeles	X	X	X	X	X	X	X	X		
Long Beach	X	X	X	X	X	X	X	X		
Reseda	X	X	X	X	X	X	X	X		
Pomona	X	X	X	X	X	X	X	X		
Lennox	X	X	X	X	X	X	X	X		
Pasadena	X	X	X	X	X	X	X	X	X	
Whittier	X								X	
Newhall	X									

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DATA RECEIVED BY THE AIR RESOURCES BOARD FROM AIR MONITORING STATIONS IN CALIFORNIA

JUNE, JULY, AUGUST 1971

BASIN, COUNTY, AND CITY	CONTAMINANTS MEASURED									PARTICIPATING AGENCY
	OX	CO	NO	NO_2	NO_X	HC	SO_2	PARTICULATE MATTER		
								AISI	HI-VOL	
Orange County										
Anaheim	X		X	X	X	X	X	X	X	Orange County Air Pollution Control District
La Habra	X		X	X	X		X	X	X	
Orange County Airport	X		X	X	X		X			
Green River Golf Course	X		X	X	X		X			
Los Alamitos							X			
Riverside County										
Riverside	X	X		X	X	X	X	X	X	Riverside County Air Pollution Control District
Corona	X									
San Bernardino County										
San Bernardino	X	X	X	X	X	X	X	X		San Bernardino County Air Pollution Control District
Ontario	X	X	X	X	X					
Redlands	X	X	X	X	X					
SAN DIEGO AIR BASIN										
San Diego County										
San Diego	X	X	X	X	X	X		X	X	San Diego County Air Pollution Control District
Chollas Heights	X									
El Cajon	X									
Nestor	X									
Mission Valley	X									
Oceanside	X		X	X	X			X	X	
NORTHEAST PLATEAU AIR BASIN										
Siskiyou County										
Yreka									X	Siskiyou County Air Pollution Control District
SACRAMENTO VALLEY AIR BASIN										
Butte County										
Chico	X	X	X	X	X	X	X	X	X	California Air Resources Board
Placer County										
Tahoe									X	Placer County Air Pollution Control District
Sacramento County										
Sacramento - 13 & J	X	X	X	X	X	X	X			Joint California Air Resources Board and the Sacramento County Department of Public Health
Sacramento - Stockton Blvd.	X						X			
Sacramento - Creekside School	X	X	X	X	X	X	X			Sacramento County Department of Public Health
Sacramento - 1000 "P" Street	X						X			
Sacramento - 1025 "P" Street		X	X	X	X	X	X	X	X	California Air Resources Board
Shasta County										
Redding	X	X	X	X	X	X	X	X	X	California Air Resources Board
Redding H. D.									X	Shasta County Air Pollution Control District

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DATA RECEIVED BY THE AIR RESOURCES BOARD FROM AIR MONITORING STATIONS IN CALIFORNIA

JUNE, JULY, AUGUST 1971

BASIN, COUNTY, AND CITY	CONTAMINANTS MEASURED									PARTICIPATING AGENCY
	OX	CO	NO	NO_2	NO_X	HC	SO_2	PARTICULATE MATTER AISI	PARTICULATE MATTER HI-VOL	
SACRAMENTO VALLEY AIR BASIN										
Sutter County										
Yuba City	X		X	X	X	X		X	X	California Air Resources Board
SAN JOAQUIN VALLEY AIR BASIN										
San Joaquin County										
Stockton - Hazelton	X	X	X	X	X	X		X	X	Joint California Air Resources Board and San Joaquin County Air Pollution Control District
Stockton - Hotel		X								
Tracy								X		San Joaquin County Air Pollution Control District
Lodi								X		
Fresno County										
Fresno - Cedar Street	X	X	X	X	X	X		X	X	California Air Resources Board
Fresno - Courthouse										
Kings County										
Hanford									X	Kings County Air Pollution Control District
Avenal									X	
Kern County										
Bakersfield - Golden State	X	X	X	X	X	X		X	X	California Air Resources Board
Bakersfield - Chester Ave.	X	X	X	X	X	X		X	X	
Bakersfield - Flower Street								X	X	
Kern Refuge								X	X	Kern County Health Department
Taft								X	X	
Merced County										
Merced								X		Merced County Health Department
Stanislaus County										
Modesto	X	X	X	X	X	X		X	X	California Air Resources Board
Tulare County										
Visalia	X	X	X	X	X	X		X	X	California Air Resources Board
SOUTHEAST DESERT AIR BASIN										
Los Angeles County										
Lancaster	X	X	X	X	X	X				Los Angeles County Air Pollution Control District
Riverside County										
Banning	X			X	X		X	X	X	Riverside County Air Pollution Control District
Indio	X	X		X	X	X		X	X	
Palm Springs	X	X		X	X	X		X	X	
Thermal	X	X		X	X	X	X	X	X	

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DATA RECEIVED BY THE AIR RESOURCES BOARD FROM AIR MONITORING STATIONS IN CALIFORNIA

JUNE, JULY, AUGUST 1971

BASIN, COUNTY, AND CITY	CONTAMINANTS MEASURED									PARTICIPATING AGENCY
	OX	CO	NO	NO_2	NO_X	HC	SO_2	PARTICULATE MATTER AISI	PARTICULATE MATTER HI-VOL	
SOUTHEAST DESERT AIR BASIN										
Kern County									X	Kern County Air Pollution Control District
Mojave									X	
Ridge Crest										
San Bernardino County								X		San Bernardino County Air Pollution Control District
Barstow	X							X		
Victorville	X							X		
Needles										

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
J U N E																																			
SF BAY AREA BASIN																																			
WALNUT CREEK																																			
OXIDANT	.05	.05	.05	.07	.09	.07	.05	.05	.05	.05	.08	.06	.05	.11	.12	.09	.11	.05	.04	.08	.06	.04	.06	.05	.04	.02	.06	.07	.09	.06		.12	.06	.14	15
RICHMOND																																			
OXIDANT	.05	.05	.05	.05	.04	.04	.05	.05	.04	.05	.04	.05	.05	.08	.10	.06	.07	.04	.04	.05	.03	.03	.03	.03	.01	.01	.03	.04	.04	.03		.10	.04	.12	15
CARBON MONOXIDE	4	5	2	3	2	2	3	2	2	2	4	2	2	3	3	4	4	5	3	4	4	3	2	4	6	3	2	3	2	2		6	3	12	18
NITROGEN DIOXIDE	.04	.04	.03	.04	.04	.03	.03	.02	.03	.02	.04	.02	.04	.05	.06	.05	.08	.03	.02	.02	.03	.01	.03	.03	.02	.02	.03	.04	.02	.02		.08	.03	.10	17
NITRIC OXIDE	.02	.03	.01	.05	.03	.01	.03	.02	.00	.01	.01	.03	.02	.03	.05	.06	.06	.03	.02	.01	.03	.02	.02	.02	.01	.02	.01	.08	.03	.02		.08	.02	.15	17
OXIDES OF NITROGEN	.05	.05	.04	.08	.05	.03	.03	.04	.03	.03	.04	.05	.06	.07	.08	.12	.11	.06	.03	.02	.05	.03	.04	.04	.02	.04	.03	.10	.04	.03		.11	.04	.19	A17
HYDROCARBONS	3	3	3	4	3	3	3	3	3	3	3	3	4	4	5	b	5	4	4	3	3	3	3	3	2	3	5	5	3	3		6	3	8	16
PITTSBURG																																			
OXIDANT	.06	.05	.04	.06	.06	.06	.04	.04	.04	.05	.06	.06	.03	.09	.09	.09	.10	.04	.03	.07	.06	.04	.07	.06	.03	.01	.05	.07	.06	.07		.10	.05	.14	17
CARBON MONOXIDE	2	2	1	2	2	2	3	1	1	2	2	3	2	3	3	3	3	2	2	1	2	2	2	2	2	2	2	3	3	3		3	1	5	A16
NITROGEN DIOXIDE	.04	.04	.02	.04	.04	.03	.02	.02	.03	.04	.05	.02	.02	.03	.05	.03	.03	.02	.02	.03	.05	.02	.03	.05	.02	.02	.02	.04	.03	.04		.06	.03	.06	15
NITRIC OXIDE	.02	.01	.02	.02	.01	.01	.02	.02	.01	.01	.02	.01	.01	.01	.05	.03	.01	.03	.01	.01	.02	.02	.01	.01	.00	.01	.00	.01	.01	.01		.06	.03	.18	15
OXIDES OF NITROGEN	.04	.05	.04	.05	.05	.04	.03	.03	.03	.04	.06	.03	.03	.04	.10	.05	.04	.04	.03	.03	.06	.04	.03	.05	.03	.03	.02	.04	.04	.04		.10	.04	.24	15
HYDROCARBONS	4	4	4	5	4	4	4	4	4	4	4	4	4	4	5	4	5	4	4	5	6	5	4	4	5	4	4	5	5	5		6	4	8	25
SAN RAFAEL																																			
OXIDANT	.04	.03	.03	.03	.04	.03	.03	.03	.04	.02	.02	.03	.03	.08	.08	.08	.11	.03	.02	.03	.03	.01	.02	.03	.03	.02	.03	.03	.02	.02		.11	.03	.16	17
CARBON MONOXIDE	4	4	4	4	2	2	3	3	4	3	4	2	3	3	4	5	3	2	2	2	2	2	2	2	4	4	3	4	4	4		5	3	8	16
NITROGEN DIOXIDE	.03	.02	.03	.02	.03	.02	.03	.03	.04	.04	.04	.03	.02	.04	.06	.07	.06	.03	.02	.02	.02	.01	.03	.03	.02	.01	.04	.04	.04	.04		.07	.03	.08	16
NITRIC OXIDE	.02	.10	.07	.04	.04	.03	.05	.04	.04	.05	.04	.02	.03	.04	.05	.09	.04	.08	.05	.06	.08	.06	.08	.07	.07	.05	.03	.05	.04	.04		.10	.05	.12	24
OXIDES OF NITROGEN	.09	.12	.08	.06	.06	.04	.07	.07	.08	.07	.05	.05	.05	.07	.08	.13	.07	.11	.06	.10	.07	.07	.09	.10	.09	.08	.07	.14	.09	.07		.14	.08	.14	15
HYDROCARBONS	4	4	3	4	5	4	4	4	3	4	5	3	3	5	4	4	3	3	3	5	3	2	3	3	4	4	4	5	6	4		6	3	8	29
NAPA																																			
CARBON MONOXIDE	2	3	2	2	3	2	2	3	2	2	3	2	2	2	3	3	4	2	2	2	2	2	2	2	3	2	2	3	2	2		4	2	15	25
NAPA SOLANO HIGHWAY																																			
OXIDANT	.03	.03	.02	.03	.03	.03	.02	.03	.02	.02	.03	.02	.02	.04	.05	.05	.05	.02	.01	.04	.05	.02	.02	.03	.02	.01	.03	.04	.04	.04		.05	.02	.07	A16
REDWOOD CITY																																			
OXIDANT	.05	.04	.04	.04	.03	.03	.03	.03	.03	.03	.04	.03	.03	.07	.06	.08	.06	.03	.03	.04	.04	.02	.04	.04	.03	.02	.05	.04	.04	.04		.08	.03	.11	16
CARBON MONOXIDE	2	3	2	3	2	2	3	2	3	3	3	2	2	3	4	4	3	2	3	3	4	2	3	3	3	2	3	4	4	2		4	2	5	A16
NITROGEN DIOXIDE	.02	.04	.03	.03	.04	.03	.03	.03	.03	.03	.03	.02	.02	.04	.06	.08	.09	.03	.02	.02	.05	.02	.03	.03	.02	.01	.02	.04	.05	.04		.09	.03	.10	17
NITRIC OXIDE	.01	.03	.03	.03	.05	.02	.02	.03	.02	.02	.01	.07	.10	.10	.07	.03	.01	.03	.01	.03	.04	.03	.03	.02	.02	.02	.03	.01	.04	.04		.10	.03	.15	A16
OXIDES OF NITROGEN	.03	.06	.05	.06	.07	.05	.05	.06	.05	.05	.04	.10	.13	.18	.16	.05	.03	.05	.06	.04	.05	.05	.05	.03	.04	.05	.04	.07	.07	.07		.18	.06	.23	16
HYDROCARBONS	3	4	5	4	4	15	4	3	4	4	4	4	3	4	5	6	6	5	3	4	5	3	5	5	3	4	4	4	4	4		15	4	22	7
BURLINGAME																																			
OXIDANT	.03	.02	.03	.03	.02	.02	.03	.03	.03	.02	.03	.03	.02	.02	.03	.04	.07	.02	.01	.02	.02	.01	.01	.02	.01	.01	.02	.02	.02	.02		.07	.02	.09	17
CARBON MONOXIDE	2	3	2	3	3	3	3	3	3	3	3	3	3	4	4	6	5	4	4	4	4	4	4	3	4	4	3	3	4	3		6	3	8	17
HYDROCARBONS	3	4	3	3	3	3	3	3	3	3	4	2	3	3	4	4	6	4	4	4	4	4	4	3	4	4	3	3	3	4		6	3	8	16
SAN JOSE ALMA ST.																																			
OXIDANT	.04	.04	.03	.04	.04	.05	.04	.03	.02	.03	.05	.04	.03	.08	.10	.09	.05	.03	.02	.04	.04	.02	.03	.03	.02	.04	.04	.05	.05	.08		.10	.04	.13	15
CARBON MONOXIDE	5	3	5	5	5	4	6	3	3	3	3	2	2	4	6	7	7	3	2	3	4	4	4	4	5	2	2	3	3	4		7	4	12	A17
NITROGEN DIOXIDE	.04	.04	.03	.04	.04	.05	.05	.04	.03	.04	.06	.03	.03	.06	.11	.11	.09	.05	.02	.03	.08	.04	.04	.07	.03	.03	.03	.04	.05	.08		.11	.04	.12	A15
NITRIC OXIDE	.11	.08	.09	.08	.13	.08	.04	.02	.03	.04	.05	.03	.03	.10	.17	.13	.14	.07	.03	.03	.08	.04	.05	.06	.05	.06	.04	.03	.03	.02		.17	.06	.21	17
OXIDES OF NITROGEN	.14	.10	.11	.11	.15	.10	.09	.06	.05	.07	.08	.05	.05	.16	.28	.21	.19	.11	.04	.05	.12	.07	.08	.12	.09	.05	.06	.07	.06	.08		.28	.10	.30	15
HYDROCARBONS	3	5	3	3	5	4	4	3	3	3	4	3	3	4	7	6	7	4	3	4	5	3	3	4	4	3	3	5	3	5		7	3	8	A15
FAIRFIELD																																			
OXIDANT	.06	.08	.04	.06	.07	.06	.04	.00		.04	.06	.04	.03	.08	.10	.09	.11				.05	.03	.05	.06	.02	.01	.05	.09	.07	.07		.11	.05	.12	17
VALLEJO TRAILER																																			
OXIDANT	.02	.02	.02	.02	.03	.02	.02	.03	.02	.02	.02	.03	.02	.06	.11	.05	.10	.02	.02	.04	.05	.03	.03	.05	.02	.02	.03	.06	.05	.04		.11	.03	.13	15
CARBON MONOXIDE	2	2	1	2	2	1	2	2	2	2	2	1	1	2	3	2	2	1	1	2	2	2	2	1	2	1	1	2	2	2		5	2	6	16
NITROGEN DIOXIDE	.03	.03	.02	.03	.03	.03	.04	.02	.02	.03	.04	.01	.01	.04	.04	.04	.03	.03	.01	.03	.05	.01	.03	.03	.02	.01	.01	.03	.04	.03		.05	.02	.06	21
NITRIC OXIDE	.02	.01	.00	.02	.01	.01	.01	.01	.00	.02	.00	.00	.00	.02	.09	.05	.01	.01	.01	.01	.01	.00	.00	.01	.01	.01	.01	.02	.01	.02		.09	.01	.13	16
OXIDES OF NITROGEN	.03	.03	.02	.05	.04	.04	.04	.03	.02	.03	.05	.01	.01	.04	.05	.11	.08	.04	.02	.03	.06	.01	.03	.03	.02	.02	.02	.04	.04	.04		.11	.03	.16	16
HYDROCARBONS	3	4	3	4	5	4	4	4	4	4	4	4	4	5	6	8	6	4	4	4	5	4	4	4	4	4	4	4	4	4		8	4	9	16
PETALUMA																																			
OXIDANT	.02	.02	.02	.02	.01	.02	.02	.02	.03	.02	.04	.02	.02	.02	.03	.04	.03	.02	.01	.02	.04	.01	.02	.02	.02	.02	.03	.03	.03	.04		.04	.02	.05	A30
CARBON MONOXIDE	4	3	2	3	2	2	3	4	5	5	5	5	2	2	2	2	1	2	1	1	1	1	1	1	1	1	1	2	2	2		5	2	6	A10
NITROGEN DIOXIDE	.02	.03	.02	.04	.02	.03	.01	.03	.01	.02	.04	.01	.01	.05	.03	.04	.01	.02	.02	.03	.05	.02	.02	.03	.01	.01	.02	.03	.03	.03		.05	.02	.09	A21
NITRIC OXIDE	.01	.19	.04	.04		.00	.04	.01	.03	.06	.00	.00	.00	.03	.04	.02	.03	.02	.01	.01	.03	.01	.01	.03	.01	.01	.01	.02	.04	.05		.19	.02	.26	2
OXIDES OF NITROGEN	.04	.22	.05	.05		.01	.07	.01	.03	.10	.01	.01	.07	.07	.07	.05	.04	.03	.02	.04	.07	.02	.02	.05	.04	.01	.01	.02	.06	.08		.22	.04	.26	2
HYDROCARBONS	6	5	5	5	23	5	3	4	3	3	4	3	4	4	4	4	4	3	2	3	4	5	2	3	4	3	3	3	5	4		23	4	25	5
SAN LEANDRO																																			
OXIDANT	.05	.05	.05	.05	.06	.05	.04	.05	.05	.04	.05	.05	.05	.09	.15	.10	.09	.03	.04	.05	.05	.02	.03	.03	.03	.01	.04	.05	.06	.06		.15	.05	.17	15
LIVERMORE RINCON																																			
OXIDANT	.06	.07	.06	.07	.10	.07				.08	.06	.08	.17	.24	.24	.10	.05	.07	.21	.02				.07	.04	.02	.10		.15	.11		.24	.09	.30	A15
OAKLAND																																			
OXIDANT	.03	.03	.03	.03	.04	.04	.03	.03	.03	.03	.04	.04	.03	.05	.06	.06	.05	.03	.04	.04	.04	.02	.03	.03	.03	.02	.03	.03	.03	.03		.06	.03	.07	A14
CARBON MONOXIDE	4	4	4	3	2	3	2	4	5	3	2	4	4	7	9	5	2	2	2	2	3	2	2	2	3	2	2	4	4	3		9	3	15	16
NITROGEN DIOXIDE	.06	.05	.05	.05	.04	.04	.05	.04	.05	.05	.06	.04	.11	.08	.14	.14	.18	.07	.02		.08	.02	.04	.04	.06	.02	.03	.06	.07	.05		.18	.06	.19	17
NITRIC OXIDE	.08	.06	.07	.05	.00	.01	.06	.06	.03	.02	.06	.00	.04	.06	.17	.22	.12	.06	.01		.06	.02	.03	.02	.01	.00	.04	.02	.04	.01		.22	.04	.22	16
OXIDES OF NITROGEN	.13	.11	.11	.08	.04	.04	.11	.10	.07	.06	.08	.04	.11	.13	.29	.35	.26	.08	.03	.04	.10	.04	.07	.05	.06	.03	.03	.03	.08	.04		.35	.09	.41	16
HYDROCARBONS	3	3	3	3	3	7	3	3	3	3	3	3	3	4	6	9	7	3	3	3	3	3	3	3	3	3	3	4	3	3		9	3	11	16

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																															MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			CONC	DAY
J U N E																																			
SF BAY AREA BASIN																																			
LIVERMORE RAILROAD																																			
OXIDANT	.05	.06	.05	.06	.07	.07	.06	.05	.04	.04	.07	.05	.07	.15	.23	.17	.10	.04	.05	.14	.07	.02	.05	.05	.03	.02	.06	.08	.10	.07		.23	.07	.26	15
CARBON MONOXIDE	4	4	4	3	4	4	4	5	5	6	4	6	4	4	5	5	5	4	4	4	4	3	3	3	4	3	2	3	3	4		6	4	6	A 8
NITROGEN DIOXIDE	.03	.02	.02	.03	.03	.02	.02	.02	.03	.02	.04	.02	.01	.05	.08	.07	.03	.02	.02	.04	.04	.02	.02	.01	.03	.02	.03	.03	.08			.08	.03	.11	A29
HYDROCARBONS	4	4	4	3	3	3	4	3	3	3	3	3	2	5	5	4	4	3	3	3	4	2	2	3	3	3	3	3	3	3		5	3	6	A14
FREMONT CHAPEL WAY																																			
OXIDANT	.05	.05	.05	.05	.05	.06	.04	.04	.04	.04	.06	.05	.04	.13	.17	.13	.12	.04	.03	.08	.06	.02	.04	.04	.03	.02	.05	.06	.07	.06		.17	.05	.21	15
CARBON MONOXIDE	3	4	3	2	2	2	2	4	4	3	4	3	3	3	4	5	4	2	2	2	4	2	2	2	3	2	2	3	3	3		5	2	7	16
HYDROCARBONS	3	3	3	3	4	4	3	4	4	3	4			3	4	5	4	3	3	4	4	3	2	3	4	2	2	3	3	3		5	3	8	9
SAN FRANCISCO ELLIS																																			
OXIDANT	.03	.02	.04	.03	.01	.02	.03	.03		.03	.04	.03	.03	.02	.02	.02	.03	.03	.01	.02	.02	.02	.01	.02	.02	.01	.02	.02	.03	.03		.04	.02	.05	A11
CARBON MONOXIDE	5	4	4	5	6	3	4	4	4	4	4	3		6	13	12	13	4	3	3	6	4	4	4	4	4	3	7	4	4		13	5	17	A15
NITROGEN DIOXIDE	.05	.03	.04	.04	.06	.03	.02	.03	.02	.02	.02	.03	.03	.06	.15	.16	.15	.03	.03	.03	.07	.02	.03	.03	.03	.02		.10	.05	.03		.16	.04	.22	16
NITRIC OXIDE	.03	.04	.04	.04	.05	.03	.04	.03	.04	.05	.03	.03	.04	.07	.22	.23	.17	.06	.04	.03	.10	.06	.06	.05	.05	.07		.04	.07	.04		.23	.06	.28	16
OXIDES OF NITROGEN	.06	.07	.07	.07	.09	.05	.06	.06	.06	.07	.05	.05	.05	.12	.33	.34	.29	.08	.06	.05	.14	.08	.07	.06	.07	.08	.05	.13	.09	.06		.34	.09	.40	16
HYDROCARBONS	3	3	3	4	4	3	3	3	3	3	3	3	3	4	7	7	7	3	3	3	4	3	3	3	3	3	3	4	3	3		7	3	9	A 5
NORTH CENTRAL BASIN																																			
SALINAS																																			
OXIDANT	.04	.04	.04	.04	.03	.04	.04	.05	.03	.03	.04	.04		.05	.05	.06	.05	.04	.03	.03	.04	.03	.04	.04	.03	.01	.04	.04	.04	.05		.06	.03	.07	15
NITROGEN DIOXIDE	.03	.02	.02	.03	.03	.01	.03	.03	.05	.04	.03	.03	.02	.03	.07	.09	.06	.03	.03	.03	.05	.02	.03	.02	.03	.02	.01	.03	.03	.03		.09	.03	.12	16
NITRIC OXIDE	.01	.01	.02	.01	.01	.01	.02	.02	.02	.01	.02	.01	.01	.02	.04	.09	.07	.01	.01	.01	.07	.02	.01	.03	.07	.02	.01	.03	.01	.01		.09	.02	.17	21
OXIDES OF NITROGEN	.03	.03	.03	.03	.04	.02	.03	.04	.06	.05	.03	.03	.03	.04	.07	.14	.12	.04	.04	.03	.12	.03	.03	.04	.10	.03	.02	.06	.03	.03		.14	.04	.22	17
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3				3	3	4	4	3	4	3	3	3	3	3	3	3	3	3	3	3		4	3	5	A23
GONZALES																																			
OXIDANT	.03	.04	.04	.04	.05	.04	.03	.03	.03	.04	.04	.04	.04	.06	.08	.07	.06	.04	.04	.05	.06	.03	.03	.04	.03	.02	.04	.03	.04	.04		.08	.04	.10	15
MONTEREY																																			
OXIDANT	.03	.03	.03	.02	.02	.03	.03	.03	.03	.03	.03	.04	.03	.06	.05	.05	.05	.03	.03	.03	.04	.02	.04	.03	.01			.03	.03	.03		.06	.03	.06	14
CARBON MONOXIDE	1	1	2	2	2	1	1	2	2	3	2	2	3	3	4	4	6	5	3	2	4	2	2	2	3	3	2	2	1	2		6	2	7	17
NITROGEN DIOXIDE	.01	.02	.02	.01	.02	.01	.01	.01	.03	.03	.02	.01	.02	.02	.03	.06	.07	.04	.03	.02	.05	.02	.02	.01	.03	.02	.01	.01	.02	.01		.07	.02	.09	17
NITRIC OXIDE	.00	.01	.01	.01	.01	.00	.01	.00	.01	.04	.00	.01	.01	.02	.02	.03	.03	.01	.03	.01	.03	.00	.01	.00	.01	.01	.00	.01	.00	.00		.04	.01	.08	21
OXIDES OF NITROGEN	.01	.02	.03	.02	.02	.01	.02	.01	.03	.06	.02	.02	.02	.03	.04	.07	.10	.04	.04	.02	.06	.02	.03	.01	.04	.02	.01	.02	.02	.01		.10	.02	.12	17
SANTA CRUZ																																			
OXIDANT	.02	.02	.03	.03	.03	.02	.03	.03	.02	.01	.03	.03	.03	.05	.06	.08	.07	.03	.03	.05	.04	.04	.03	.05	.03	.01	.03	.04	.04	.04		.08	.03	.09	16
NITROGEN DIOXIDE	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.03	.03	.03	.05	.04	.04	.04	.03	.02	.03	.04	.03	.03	.03	.02	.02	.03	.03	.04	.04		.05	.02	.06	16
SOUTH CENTRAL BASIN																																			
SAN LUIS OBISPO																																			
OXIDANT	.04	.05	.06	.04	.05	.06	.04	.04	.04	.03	.04	.04	.04	.05	.08	.07	.06	.04	.04	.04	.06	.02	.03	.04	.05	.03	.03	.03	.04	.04		.08	.04	.08	15
CARBON MONOXIDE	2	2	2	2	2	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	1	2	2	1	2		3	1	4	14
NITROGEN DIOXIDE	.02	.02	.02	.03	.03	.02	.03	.02	.02	.02	.02	.01	.02	.04	.05	.04	.04	.04	.02	.02	.04	.02	.03	.03	.02	.01	.01	.02	.02	.02		.05	.02	.07	21
NITRIC OXIDE	.01	.01	.01	.01	.03	.01	.01	.01	.00	.01	.01	.01	.00	.02	.00	.03	.04	.07	.03	.01	.01	.02	.02	.02	.01	.01	.01	.01	.01	.01		.07	.01	.08	18
OXIDES OF NITROGEN	.03	.03	.03	.03	.06	.02	.03	.02	.02	.02	.02	.02	.02	.06	.05	.06	.07	.10	.05	.03	.04	.03	.04	.04	.03	.02	.01	.03	.03	.03		.10	.03	.12	18
HYDROCARBONS	4	3	3	4	4	3	3	3	3	3	3	3	3	4	4	5	5	6	4	4	4	3	4	4	4	3	3	3	3	3		6	3	6	1
SANTA MARIA																																			
OXIDANT	.03	.03	.03	.04	.03	.02	.03	.03	.03	.02	.03	.03	.04	.05	.04	.06	.04	.03	.04	.04	.05	.02	.03	.04	.04	.03	.03	.03	.04	.04		.06	.03	.07	16
SOUTH COAST BASIN																																			
ANAHEIM																																			
OXIDANT	.05	.03	.04	.06	.10	.08	.05	.04	.06	.04	.02	.08	.12	.18	.22	.11	.06	.06	.09	.15	.08	.10	.10	.04	.04	.05	.05	.03	.04	.05		.22	.07	.26	15
SULFUR DIOXIDE	.00	.00	.00	.00	.00	.00	.01	.01	.02	.00	.01	.04	.05	.07	.08	.03	.02	.01	.02	.04	.01	.03	.02	.01	.01	.01	.01	.01	.02	.01		.08	.01	.10	15
NITROGEN DIOXIDE	.05	.05	.08	.08	.06	.04	.07	.07	.07	.04	.06	.08	.10	.14	.17	.09	.07	.06	.09	.12	.08	.09	.08	.07	.08	.07	.06	.06	.06	.07		.17	.07	.19	15
NITRIC OXIDE	.10	.04	.13	.11	.06	.03	.03	.05	.08	.07	.17	.19	.12	.08	.09	.11	.05	.07	.07	.15	.09	.12	.07	.06	.05	.02	.04	.10	.08	.10		.19	.08	.22	12
OXIDES OF NITROGEN	.13	.08	.19	.18	.11	.07	.10	.12	.15	.11	.22	.23	.20	.22	.22	.18	.10	.11	.11	.24	.13	.14	.13	.13	.11	.09	.09	.15	.13	.15		.24	.14	.30	15
HYDROCARBONS	4	3	3	10	3	2	2	3	4	3	3	8	4	4	4	6	3	3	4	7	4	4	3	3	2	2	2	3	3	4		10	3	12	4
LA HABRA																																			
OXIDANT	.05	.03	.05	.12			.04	.04	.04	.02	.07	.14	.18	.24	.22	.09	.08	.11	.11	.21	.11	.14	.11	.07	.09	.09	.08	.05	.08	.11		.24	.09	.27	20
SULFUR DIOXIDE	.01	.01	.02	.03	.02	.02	.02	.02	.02	.00	.02	.05	.06	.06	.10	.02	.01	.01	.02	.05	.03	.04	.02	.03	.03	.02	.02	.02	.03	.04		.10	.02	.11	15
NITROGEN DIOXIDE	.07	.04	.07	.10			.09	.08	.08	.06	.07	.08	.08	.09	.11	.11	.08	.09	.10	.10	.10	.12	.07	.08	.08	.07	.05	.04	.06	.08		.12	.08	.15	15
NITRIC OXIDE	.17	.03	.20	.23			.14	.07	.07	.05	.12	.13	.08	.07	.06	.18	.07	.11	.09	.13	.12	.08	.13	.07	.09	.03	.04	.07	.03	.06		.23	.09	.25	3
OXIDES OF NITROGEN	.22	.07	.26	.27			.21	.15	.13	.10	.17	.18	.16	.12	.12	.27	.12	.16	.15	.20	.20	.14	.17	.14	.17	.10	.06	.11	.07	.11		.27	.15	.31	3
SANTA ANA																																			
OXIDANT	.06	.06	.06	.07	.07	.06	.05	.06	.06	.04	.04	.11	.11	.11	.16	.08	.08	.09	.08	.10	.10	.08	.05	.06	.07	.07	.08	.04	.06	.06		.16	.07	.18	15
SULFUR DIOXIDE	.02	.02	.01	.02	.01	.01	.01	.01	.01	.00	.02	.06	.04	.05	.03	.02	.01	.02	.02	.03	.01	.02	.00	.00	.01	.01	.00	.00	.01	.00		.06	.01	.09	12
NITROGEN DIOXIDE	.02	.02	.02	.03	.01	.01	.01	.01	.02	.02	.03	.04	.04	.07	.05	.05	.03	.02	.04	.05	.05	.03	.03	.02	.01	.01	.01	.02	.03	.03		.07	.02	.09	14
NITRIC OXIDE	.06	.01	.02	.01	.01	.01	.01	.01	.01	.01	.10	.11	.02	.06	.06	.06	.03	.02	.02	.08	.01	.02	.03	.01	.02	.01	.02	.01	.07	.13		.13	.03	.17	30
OXIDES OF NITROGEN	.08	.02	.03	.03	.01	.01	.01	.01	.02	.02	.13	.14	.06	.10	.11	.09	.04	.04	.06	.10	.06	.04	.05	.03	.02	.01	.02	.02	.10	.14		.14	.05	.19	A30
GREEN RIVER GOLF COU																																			
OXIDANT	.05	.04	.05	.10	.12	.08	.07	.06	.05	.04	.06	.16	.17	.19	.18	.11	.13	.11	.12	.19	.15	.12	.13	.06	.06	.07	.08	.05	07	.10		.19	.09	.21	A14
SULFUR DIOXIDE	.00	.00	.01	.02	.01	.01	.01	.01	.01	.00	.01	.02	.03	.04	.03	.02							.02	.01	.01							.04	.01	.04	14
NITROGEN DIOXIDE	.03	.05	.06	.06	.04	.04	.05	.06	.04	.03	.06	.06	.08	.14	.11	.10	.11	.09	.10	.13	.10	.08	.06	.06	.07	.02	02	.05	.06	08		.14	.06	.15	14
NITRIC OXIDE	.11	.03	.05	.13	.05	.02	.01	.01	.01	.02	.06	.09	.04	.09	.08	.06	.11	.03	.06	.07	.05	.11	.16	.07	.03	.02	.02	.04	.07	.10		.16	.06	.22	23
OXIDES OF NITROGEN	.13	.07	.08	.17	.09	.05	.05	.06	.04	.04	.11	.13	.12	.14	.17	.13	.16	.09	.11	.14	.12	.15	.19	.11	.07	.04	.04	.07	.10	.12		.19	.10	.26	23

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
J U N E																
SOUTH COAST BASIN																
RIVERSIDE																
OXIDANT	.07	.05	.09	.15	.16	.15	.13	.16	.07	.05	.15	.22	.20	.27	.25	.27
CARBON MONOXIDE	7	8	7	9	10	10	11	9	7	7	8	9	14	10	9	13
SULFUR DIOXIDE	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00
NITROGEN DIOXIDE	.07	.05	.06	.09	.07	.05	.03	.05	.04	.05	.07	.08	.09	.15	.15	.15
HYDROCARBONS	1	2							3	2	3	3	3	4	6	5
CORONA																
OXIDANT	.06	.04	.09	.15			.01	.01	.01	.01	.02	.05	.07	.11	.08	
SAN BERNARDINO																
OXIDANT	.09	.05	.07	.18	.18	.14	.12	.14	.04	.03	.12	.19	.22	.32	.25	.23
CARBON MONOXIDE	5	6	6	7	6	6	6	7	6	5	6	7	7	7	7	8
SULFUR DIOXIDE	.02	.01	.00	.01	.00	.00	.01	.02	.01	.00	.02	.02	.03	.05	.05	.05
NITROGEN DIOXIDE	.05	.04	.05	.04			.06	.09	.04	.06	.08	.09	.08	.14	.09	.12
HYDROCARBONS	4	3	3	5	4	3	3	3	3	3	3	5	4	5	5	4
ONTARIO																
OXIDANT	.04	.04	.04	.12	.10	.07	.06	.07	.03	.01	.08	.11	.13	.23	.17	.15
NITROGEN DIOXIDE	.02	.02	.03	.04	.03	.03	.04	.05	.04	.03	.05	.04	.04	.06	.06	.05
NITRIC OXIDE	.08	.02	.02	.06	.09	.02	.01	.02	.01	.02	.06	.09	.04	.05	.09	.07
OXIDES OF NITROGEN	.09	.04	.02	.09	.12	.05	.04	.05	.04	.05	.09	.12	.06	.08	.14	.11
REDLANDS																
OXIDANT	.07	.05	.08	.10	.09	.08	.07	.07	.04	.02	.08	.11	.11	.16	.20	.23
CARBON MONOXIDE	4	4	5	6	6	5	6	5	4	4	6	6	6	8	7	6
NITROGEN DIOXIDE	.05	.05	.03	.04	.03	.03	.03	.04	.04	.06	.09	.09	.12	.15	.13	.14
NITRIC OXIDE	.05	.04	.04	.10	.10	.06	.06	.05	.07	.02	.08	.15	.07	.03	.04	.01
OXIDES OF NITROGEN	.09	.08	.07	.13	.13	.09	.09	.09	.09	.08	.15	.21	.15	.16	.15	.14
SANTA BARBARA																
OXIDANT	.02	.03	.03	.03	.04	.05	.05	.03	.04	.04	.04	.05	.03	.05	.07	.09
CARBON MONOXIDE			1	1	1	1	3	3	3	2	1	1	3	3	2	2
NITROGEN DIOXIDE								.07	.05	.04	.05	.07	.04	.06	.06	.06
NITRIC OXIDE								.03	.07	.12	.07	.02	.03	.09	.06	.05
OXIDES OF NITROGEN								.09	.10	.16	.10	.07	.07	.13	.10	.09
HYDROCARBONS	9	12	7	7	11	4	5	12	8	12	7	13	7	11	12	4
OJAI																
OXIDANT	.09	.12	.09	.12	.11	.14	.11	.22	.10	.07	.14	.17	.15	.13	.22	.15
NITROGEN DIOXIDE	.04	.04	.04	.06	.05	.04	.05	.05	.07	.05	.06	.04	.06	.06	.06	.08
NITRIC OXIDE	.01	.02	.02	.02	.03	.00	.00	.00	.02	.01	.05	.03	.02	.02	.02	.02
OXIDES OF NITROGEN	.05	.06	.06	.08	.07	.04	.05	.05	.07	.06	.09	.07	.08	.07	.06	.10
CAMARILLO																
OXIDANT	.07	.05	.06	.08	.08	.08	.07	.07	.06	.04	.07	.08		.10	.15	.09
NITROGEN DIOXIDE	.04	.04	.04	.04	.04	.04	.04	.04	.02	.02	.04	.06	.05	.06	.04	.05
NITRIC OXIDE	.10	.09	.05	.08	.09	.00	.01	.04	.02	.02	.04	.04	.05	.17	.13	.16
OXIDES OF NITROGEN	.13	.12	.09	.11	.12	.04	.05	.08	.04	.04	.08	.09	.08	.20	.17	.21
DOWNTOWN LOS ANGELES																
OXIDANT	.06	.03	.06	.07	.08	.09	.06	.02	.05	.02	.05	.10	.13	.19	.17	.18
CARBON MONOXIDE	8	8	9	13	6	3	6	8	6	7	8	9	4	11	18	14
SULFUR DIOXIDE	.02	.03	.01	.02	.02	.03	.03	.02	.02	.02	.02	.02	.02	.04	.05	.03
NITROGEN DIOXIDE	.10	.09	.10	.21	.11	.09	.12	.13	.10	.11	.13	.11	.15	.32	.56	.34
NITRIC OXIDE	.21	.20	.21	.42	.22	.02	.07	.15	.12	.16	.18	.30	.08	.35	.53	.41
OXIDES OF NITROGEN	.30	.27	.28	.52	.28	.11	.19	.26	.19	.23	.24	.41	.18	.53	.77	.55
HYDROCARBONS	4	4	4	5	5	3	3	4	3	4	4	5	3	6	7	6
AZUSA																
OXIDANT	.09	.05	.06	.19	.19	.16	.08	.09	.03	.03	.11	.20	.24	.31	.34	.20
CARBON MONOXIDE	4	3	3	4	4	3	3	4	4	3	5	6	5	6	8	7
SULFUR DIOXIDE	.01	.01	.02	.01	.01	.01	.02	.03	.04	.02	.03	.03	.03	.02	.05	.06
NITROGEN DIOXIDE	.09	.05	.08	.10	.09	.08	.10	.10	.10	.06	.11	.12	.11	.18	.17	.22
NITRIC OXIDE	.04	.03	.03	.08	.10	.03	.04	.05	.04	.02	.08	.11	.04	.16	.20	.23
OXIDES OF NITROGEN	.11	.08	.10	.15	.17	.11	.11	.13	.12	.08	.16	.18	.14	.32	.37	.34
HYDROCARBONS	3	3	5	11	5	3	3	3	4	4	6	6	9	10	9	7
BURBANK																
OXIDANT	.07	.04	.06	.10	.13	.13	.08	.04	.04	.02	.09	.15	.21	.25	.23	.25
CARBON MONOXIDE	6	3	4	5	6	2	4	5	4	5	5	6	5	6	9	8
SULFUR DIOXIDE	.01	.01	.01	.01	.01	.02	.02	.02	.02	.02	.01	.01	.02	.04	.03	.04
NITROGEN DIOXIDE	.10	.08	.08	.14	.14		.11	.10	.09	.10	.13	.15	.12	.19	.28	.27
NITRIC OXIDE	.16	.10	.07	.27	.19		.04	.02	.02	.08	.14	.22	.19	.23	.30	.26
OXIDES OF NITROGEN	.21	.17	.15	.35	.28		.15	.12	.11	.18	.24	.31	.28	.36	.44	.36
HYDROCARBONS	8	6	4	7	6	4	5	4	3	5	5	7	4	6	8	9
WEST LOS ANGELES																
OXIDANT	.07	.05	.04	.06	.09	.08	.05	.05	.05	.03	.04	.07	.09	.11	.12	.11
CARBON MONOXIDE	4	4	4	6	7	3	3	4	4	3	4	4	5	7	9	9
SULFUR DIOXIDE	.02	.02	.01	.01	.04	.02	.02	.03	.01	.01	.02	.01	.02	.03	.07	.04
NITROGEN DIOXIDE	.11	.12	.08	.14	.16	.10	.08	.11	.06	.07	.09	.10	.11	.27	.27	.27
NITRIC OXIDE	.12	.11	.13	.25	.41	.02	.01	.07	.06	.04	.12	.12	.15	.19	.40	.25
OXIDES OF NITROGEN	.21	.22	.21	.33	.50	.12	.09	.17	.11	.09	.21	.21	.23	.38	.59	.47

PLACE AND CONTAMINANT	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
J U N E																			
SOUTH COAST BASIN																			
RIVERSIDE																			
OXIDANT	.19	.23	.22	.22	.31	.28	.30	.23	.27	.15	.11	.10	.13	.19		.31	.17	.33	15
CARBON MONOXIDE	11	11	11	15	12	12	9	8	8	6	8	7	7	8		15	9	16	20
SULFUR DIOXIDE	.02	.01	.00		.00	.00	.00	.00	.00		.00	.00	.00	.00		.02	.00	.02	17
NITROGEN DIOXIDE	.15	.07	.10	.08	.12	.09	.11	.09	.02	.04	.03	.04	.06	.11		.15	.07	.21	A16
HYDROCARBONS	4	4	4		4	5	5	5	3	3	3	4	3	3		6	3	9	24
CORONA																			
OXIDANT		.05	.07	.08	.08	.09	.11	.05	.05	.05	.05	.05	.06	.08		.15	.06	.16	4
SAN BERNARDINO																			
OXIDANT	.20	.23	.24	.28	.27	.23	.24	.25	.18	.16	.12	.10	.12	.21		.32	.17	.33	14
CARBON MONOXIDE	6	9	7	6	7	7	8	7	7	6	4	4	6	7		9	6	11	18
SULFUR DIOXIDE	.03	.02	.01	.06	.03	.02	.03	.03	.02	.02	.02	.01	.03	.03		.06	.02	.06	14
NITROGEN DIOXIDE	.13	.14	.07	.08	.10	.14	.15	.17	.20	.15	.07	.06	.12	.14		.20	.09	.22	25
HYDROCARBONS	4	5	5	4	5	5	5	4	4	3	3	3	4	5		5	3	7	A19
ONTARIO																			
OXIDANT	.12	.17	.15	.16	.20	.20	.16	.16	.14	.08	.06	.07	.11	.12		.23	.11	.24	14
NITROGEN DIOXIDE	.06	.09	.07	.06	.07	.08	.10	.10	.08	.07	.03	.03	.07	.07		.10	.05	.16	A26
NITRIC OXIDE	.08	.07	.05		.06	.10	.07	.07	.02	.00	.01	.03	.09	.09		.10	.05	.12	29
OXIDES OF NITROGEN	.12	.10	.10		.10	.13	.11	.11	.08	.07	.03	.06	.12	.14		.14	.08	.16	A26
REDLANDS																			
OXIDANT	.17	.21	.20	.20	.24	.27	.24	.23	.20	.16	.07	.06	.07	.10		.27	.13	.30	22
CARBON MONOXIDE	6	6	7	8	7	7	7	6	5	5	4	4	6	5		8	5	10	A20
NITROGEN DIOXIDE	.11	.10	.10	.14	.10	.11	.08	.09	.09	.10	.04	.04	.06	.08		.15	.07	.20	14
NITRIC OXIDE	.02	.04	.00	.01	.05	.05	.00	.07	.05	.01	.00	.01	.08	.07		.15	.04	.19	12
OXIDES OF NITROGEN	.12	.11	.10	.14	.15	.16	.08	.12	.12	.10	.04	.05	.11	.15		.21	.11	.25	12
SANTA BARBARA																			
OXIDANT	.06	.06	.07	.07	.05	.05	.04	.03	.06	.05	.04	.04	.04	.07		.09	.04	.10	16
CARBON MONOXIDE	2	2	2	2	2	2	2	2	3	3	2		1	2		3	2	5	A13
NITROGEN DIOXIDE	.05	.06	.06	.06	.09	.05	.05	.05	.06	.06	.05	.04	.04	.05		.09	.05	.10	21
NITRIC OXIDE	.04	.05	.07	.11	.08	.07	.12	.07	.04	.02	.03	.04	.04	.04		.12	.05	.17	A10
OXIDES OF NITROGEN	.08	.09	.13	.15	.13	.11	.15	.10	.09	.07	.07	.08	.07	.09		.16	.10	.22	10
HYDROCARBONS	6	4	6	9	6	7	9	5	4	4	5	6	7	8		13	7	18	2
OJAI																			
OXIDANT	.19	.22	.16	.20	.12	.15					.20	.16				.22	.14	.25	A 8
NITROGEN DIOXIDE	.07	.06	.07	.06	.05	.06	.04	.04	.06	.04	.06	.06	.04	.05		.08	.05	.08	9
NITRIC OXIDE	.02	.02	.02	.02	.01	.02	.02	.02	.02	.01	.02	.01	.02	.02		.05	.01	.06	11
OXIDES OF NITROGEN	.07	.08	.08	.08	.05	.08	.06	.06	.08	.04	.08	.07	.06	.06		.10	.06	.11	13
CAMARILLO																			
OXIDANT	.09	.07	.06	.08	.08	.04	.07	.10	.09	.09	.08	.05	.07	.07		.15	.07	.17	15
NITROGEN DIOXIDE	.04	.04	.04	.04	.04	.04	.03	.04	.04	.03	.03	.04	.04	.04		.06	.03	.08	A12
NITRIC OXIDE	.05	.03	.02	.08	.09	.05	.12	.12	.00	.00	.00	.04		.13		.17	.06	.22	14
OXIDES OF NITROGEN	.09	.07	.05	.11	.13	.07	.15	.16	.04	.03	.03	.08		.17		.21	.09	.26	16
DOWNTOWN LOS ANGELES																			
OXIDANT	.10	.10	.17	.24	.13	.13	.13	.06	.09	.09	.10	.04	.07	.07		.24	.09	.26	20
CARBON MONOXIDE	11	9	11	11	10	10	9	8	7	4	3	6	6	6		18	8	19	15
SULFUR DIOXIDE	.03	.05	.07	.09	.03	.05	.03	.05	.04	.04	.01	.03	.02	.03		.09	.03	.10	20
NITROGEN DIOXIDE	.23	.25	.24	.21	.30	.19	.27	.20	.17	.06	.04	.09	.10	.14		.56	.17	.61	15
NITRIC OXIDE	.32	.19	.33	.33	.26	.21	.29	.15	.13	.04	.02	.14	.18	.12		.53	.21	.56	15
OXIDES OF NITROGEN	.43	.36	.44	.43	.40	.40	.37	.32	.26	.08	.05	.20	.25	.21		.77	.31	.84	15
HYDROCARBONS	6	4	5	5	5	5	5	4	4	3	3	3	4	4		7	4		
AZUSA																			
OXIDANT	.18	.23	.30	.31	.26	.27	.26	.19	.17	.19	.16	.13	.16	.17		.34	.17	.35	14
CARBON MONOXIDE	6	6	6	6	6	4	5	6	5	4	4	3	5	6		8	4	10	15
SULFUR DIOXIDE	.04	.03	.06	.05	.04	.07	.06	.03	.04	.03	.02	.01	.03	.05		.07	.03	.08	22
NITROGEN DIOXIDE	.18	.14	.17	.16	.21	.16	.17	.16	.11	.09	.07	.08	.12	.12		.22	.12	.24	21
NITRIC OXIDE	.17	.14	.16	.15	.18	.12	.16	.08	.02	.01	.01	.06	.08	.10		.23	.09	.32	15
OXIDES OF NITROGEN	.30	.23	.23	.25	.34	.24	.27	.20	.12	.10	.08	.13	.14	.18		.37	.18	.49	15
HYDROCARBONS	10	7	10		2	5	5	4	4	3	3	3	7	6		11	5		
BURBANK																			
OXIDANT	.14	.19	.25	.27	.20	.23	.24	.12	.13	.10	.11	.08	.11	.11		.27	.13	.30	20
CARBON MONOXIDE	10	7	8	10	7	6	7	6			5	5	7	6		10	5	12	A15
SULFUR DIOXIDE	.07	.05	.04	.04	.04	.05	.05	.05	.05	.03	.02	.02	.02	.03		.07	.02	.06	14
NITROGEN DIOXIDE	.38	.28	.26	.29	.27	.25	.31	.27	.22	.13	.10	.10	.17	.18		.38	.18	.34	23
NITRIC OXIDE	.23	.15	.23	.32	.34	.18	.29	.11	.04	.02	.01	.10	.15			.34	.15	.36	20
OXIDES OF NITROGEN	.48	.31	.41	.52	.45	.31	.44	.30	.24	.15	.11	.19	.24	.27		.52	.28	.54	20
HYDROCARBONS	7	6	7	7	6	8	6	5	4	3	3	3	5	5		9	5		
WEST LOS ANGELES																			
OXIDANT	.08	.10	.13	.16	.04	.06	.06	.07	.07	.07	.05	.03	.08	.05		.16	.07	.17	20
CARBON MONOXIDE	5	4	4	7	7	5	5	4	4	3	2	3	5	4		9	4	11	A15
SULFUR DIOXIDE	.04	.02	.01		.01	.02	.04	.03	.03	.03	.01	.02	.01	.03		.07	.02	.07	14
NITROGEN DIOXIDE	.13	.19	.14	.17	.16	.15	.18	.11	.08	.08		.06	.09	.09		.27	.13	.31	A14
NITRIC OXIDE	.17	.11	.07	.17	.10	.11	.16	.05	.01	.01	.02	.05	.07	.10		.41	.12	.68	15
OXIDES OF NITROGEN	.25	.30	.16	.22	.21	.22	.25	.16	.09	.09		.07	.14	.15		.59	.22	.78	5

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971.

PARTS PER MILLION

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
J U N E															
SOUTH COAST BASIN															
LONG BEACH															
OXIDANT	.05	.03	.05	.05	.06	.06	.05	.04	.04	.03	.03	.05	.05	.07	.10
CARBON MONOXIDE	5	3	3	4	3	2	5	6	5	4	5	4	3	5	6
SULFUR DIOXIDE	.03	.03	.03	.07	.02	.01	.03	.03	.05	.02	.05	.06	.07	.10	.10
NITROGEN DIOXIDE	.06	.05	.06	.09	.09	.08	.09	.08	.07	.06	.07	.09	.11	.20	.24
NITRIC OXIDE	.14	.08	.10	.14	.17	.04	.13	.11	.13	.05	.11	.04	.05	.13	.14
OXIDES OF NITROGEN	.19	.13	.16	.21	.23	.11	.21	.19	.19	.10	.16	.12	.13	.25	.28
RESEDA															
OXIDANT	.12	.05	.06	.13	.18	.15	.10	.10	.05	.03	.14	.14	.18	.20	.21
CARBON MONOXIDE	5	4	2	5	7	3	3	4	3	6	4	6	5	11	10
SULFUR DIOXIDE	.02	.02	.01	.02	.03	.01	.01	.01	.01	.01	.02	.02	.01	.02	.01
NITROGEN DIOXIDE	.09	.08	.08	.14	.11	.12	.14	.11	.09	.13	.12	.17	.15	.21	.22
NITRIC OXIDE	.12	.11	.03	.07	.22	.04	.02	.04	.04	.11	.08	.11	.12	.22	.25
OXIDES OF NITROGEN	.17	.18	.10	.16	.29	.15	.16	.15	.13	.24	.20	.26	.26	.36	.40
HYDROCARBONS	4	6	3	4	6	3	3	3	3	3	3	5	4	5	7
POMONA															
OXIDANT	.03	.01	.02	.05	.05	.03	.02	.07	.03	.02	.11	.17	.21	.29	.24
CARBON MONOXIDE	3	3	4	5	4	3	4	5	4	5	5	6	5	8	6
SULFUR DIOXIDE	.01	.01	.01	.02	.02	.01	.03	.01	.01	.02	.03	.03	.03	.05	.05
NITROGEN DIOXIDE	.10	.07	.10	.10	.07	.06	.08	.09	.08	.06	.11	.14	.14	.15	.14
NITRIC OXIDE	.19	.09	.15	.14	.12	.03	.06	.07	.06	.16	.18	.23	.13	.16	.15
OXIDES OF NITROGEN	.22	.15	.22	.21	.18	.09	.11	.14	.12	.22	.26	.29	.25	.29	.25
HYDROCARBONS	4	3	3	4	3	2	3	3	3	3	3	4	4	5	5
LENNOX															
OXIDANT	.06	.04	.04	.04	.05	.06	.05	.04	.04	.03	.02	.06	.08	.07	.13
CARBON MONOXIDE	11	7	7	5	5	3	5	10	9	12	6	4	4	12	9
SULFUR DIOXIDE	.02	.02	.01	.03	.05	.03	.03	.07	.04	.02	.02	.07	.03	.04	.10
NITROGEN DIOXIDE	.09	.07	.08	.07	.11	.08	.07	.09	.08	.08	.08	.06	.10	.18	.25
NITRIC OXIDE	.44	.21	.14	.11	.15	.05	.07	.19	.09	.20	.14	.04	.11	.62	.26
OXIDES OF NITROGEN	.52	.28	.20	.16	.24	.12	.13	.25	.16	.28	.21	.10	.18	.69	.38
HYDROCARBONS	6	3	3	4	4	3	3	3	2	4	3	4	4	10	6
PASADENA															
OXIDANT	.07	.04	.06	.13	.17	.19	.09	.06	.02	.03	.10	.13	.18	.28	.31
CARBON MONOXIDE	4	4	5	7	5	3	4	4	5	6	7	9	6	7	7
SULFUR DIOXIDE	.02	.02	.02	.01	.01	.02	.02	.01	.01	.01	.01	.01	.01	.03	.03
NITROGEN DIOXIDE	.12	.08	.10	.13	.10	.10	.11	.13	.13	.09	.11	.19	.12	.17	.16
NITRIC OXIDE	.07	.07	.10	.18	.14	.03	.05	.04	.06	.10	.10	.20	.14	.14	.13
OXIDES OF NITROGEN	.15	.15	.17	.26	.21	.12	.15	.17	.19	.18	.20	.29	.24	.29	.25
HYDROCARBONS	4	3	3	4	4	3	3	3	3	3	3	4	3	4	5
WHITTIER															
OXIDANT	.05	.01	.03	.06	.01	.01	.01	.03	.01	.03	.08	.13	.16	.24	.24
CARBON MONOXIDE	6	4	4	6	5	2	3	4	3	3	5	8	6	6	7
NITROGEN DIOXIDE	.08	.06	.08	.16	.07	.06	.10	.10	.10	.07	.10	.14	.13	.21	.26
NITRIC OXIDE	.14	.08	.08	.16	.12	.02	.05	.06	.10	.08	.10	.16	.17	.16	.13
OXIDES OF NITROGEN	.19	.14	.15	.23	.18	.08	.13	.14	.19	.14	.18	.23	.20	.27	.27
HYDROCARBONS	4	4	3	6	5	2	11	6	7	3	3	6	4	6	6
NEWHALL															
OXIDANT	.07	.04	.05	.13	.16	.15	.11	.09	.04	.03	.12	.15	.17	.16	.19
CARBON MONOXIDE	6	6	4	6	6	5	5	7	5	5	5	5	5	6	6
NITROGEN DIOXIDE	.05	.08	.08	.13	.11	.09	.08	.10	.10	.09	.07	.07	.09	.08	.07
NITRIC OXIDE	.05	.03	.01	.08	.04	.05	.03	.01	.01	.04	.08	.07	.17	.14	.14
OXIDES OF NITROGEN	.08	.09	.09	.18	.13	.13	.09	.11	.11	.11	.15	.13	.25	.18	.21
HYDROCARBONS	3	3	3	4	4	4	4	3	2	3	3	4	4	3	4
LANCASTER															
OXIDANT	.08	.05	.05	.11	.11	.12	.08	.09	.06	.04	.10	.11	.07	.12	.12
CARBON MONOXIDE	4	3	2	5	3	3	2	3	3	3	3	3	2	3	3
NITROGEN DIOXIDE	.04	.01	.02	.05	.01	.03	.02	.03	.02	.01	.02	.03	.02	.04	.05
NITRIC OXIDE	.05	.01	.01	.05	.01	.02	.01	.01	.01	.01	.02	.04	.01	.03	.03
OXIDES OF NITROGEN	.09	.02	.03	.10	.02	.05	.03	.04	.03	.02	.04	.07	.03	.07	.08
HYDROCARBONS	2	2	2	3	2	3	2	3	2	2	2	3	2	2	2
SAN DIEGO BASIN															
SAN DIEGO															
OXIDANT	.03	.03	.03	.05	.07	.06	.06	.04	.04	.04	.02	.09	.07	.07	.08
CARBON MONOXIDE	9	3	5	4	3	2	4	3	4	3	7	2	5	6	10
NITROGEN DIOXIDE	.04	.06	.06	.07			.05	.05	.06	.06	.07	.06	.09	.14	.12
NITRIC OXIDE	.04	.04	.04	.06			.03	.04	.05	.05	.10	.02	.02	.13	.19
OXIDES OF NITROGEN	.07	.09	.10	.12			.08	.08	.11	.10	.16	.08	.11	.25	.31
HYDROCARBONS	4	4	4	4	3	3	4	3	4	3	4	3	3	5	5
CHOLLAS HEIGHTS															
OXIDANT	.05	.06		.09	.08	.07	.05	.05	.05	.05	.06		.11	.12	.08

PLACE AND CONTAMINANT	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
J U N E																				
SOUTH COAST BASIN																				
LONG BEACH																				
OXIDANT	04	.04	.04	.10	.07	.05	.06	.04	.04	.04	.05	.04	.02	.03	.03		.10	.04	.14	A15
CARBON MONOXIDE	5	4	4	5	5	5	7	4	4	5	3	3	6	6	4		7	4	9	8
SULFUR DIOXIDE	.08	.08	.10	.07	.09	.04	.15	.05	.09	.05	.02	.02	.03	.02	.06		.15	.05	.22	22
NITROGEN DIOXIDE	.07	.12	.10	.13	.17	.08	.15	.10	.09	.09	.08	.07	.07	.07	.12		.24	.09	.25	15
NITRIC OXIDE	.10	.07	.07	.13		.06	.08	.09	.09	.07	.03	.05	.08	.05	.07		.17	.08	.22	5
OXIDES OF NITROGEN	.17	.19	.16	.20		.12	.21	.19	.18	.15	.11	.11	.15	.12	.19		.28	.16		
RESEDA																				
OXIDANT	19	.14	.21	.25	.25	.21	.20	.26	.17	.15	.13	.14	.10	.16	.13		.26	.15	.30	23
CARBON MONOXIDE	5	6	5	8	11	10	7	7	6	5	4	3	5	5	5		11	5	12	A14
SULFUR DIOXIDE	.02	.02	.02	.02	.01	.02	.03	.03	.03	.02	.01	.01	.02	.02	.03		.03	.01	.03	A 5
NITROGEN DIOXIDE	.18	.19	.20	.21	.21	.21	.17	.15	.16	.14	.11	.09	.11	.15	.13		.22	.14	.25	15
NITRIC OXIDE	.15	.13	.06	.21	.26	.25	.12	.17	.02	.01	.01	.01	.04	.11	.12		.26	.10	.27	20
OXIDES OF NITROGEN	.31	.21	.22	.31	.44	.37	.21	.24	.17	.15	.12	.10	.14	.19	.23		.44	.22		
HYDROCARBONS	6	5	4	6	6	6	4	5	4	3	3	3	3	4	5		7	4		
POMONA																				
OXIDANT	.19	.09	.15	.16	.19	.19	.20	.19	.14	.11	.08	.09	.05	.11	.13		.29	.11	.32	14
CARBON MONOXIDE	6	6	5	8	7	6	5	5	6	4	3	2	3	3	4		8	4	8	A14
SULFUR DIOXIDE	.04	.03	.02	.02	.02	.02	.03	.02	.03	.01	.01	.01	.01	.01	.03		.05	.02	.05	A14
NITROGEN DIOXIDE	.16	.20	.15	.20	.20	.19	.17	.20	.10	.12	.08	.05	.06	.11	.14		.20	.12	.22	A19
NITRIC OXIDE	.24	.15	.14	.30	.18	.22	.20	.36	.09	.06	.04	.03	.07	.12	.15		.36	.14	.42	73
OXIDES OF NITROGEN	.35	.27	.25	.41	.36	.36	.30	.44	.15	.16	.12	.07	.13	.17	.24		.44	.22		
HYDROCARBONS	5	4	3	4	4	5	4	4	3	3	3	2	3	3	3		5	3		
LENNOX																				
OXIDANT	.04	.06	.09	.13	.15	.03	.07	.07	.04	.06	.06	.05	.04	.05	.05		.15	.06	.25	20
CARBON MONOXIDE	12	7	5	6	10	9	10	7	6	6	5	4	7	6	9		12	7	19	A10
SULFUR DIOXIDE	.12	.15	.05	.14	.10	.09	.08	.09	.11	.06	.05	.04	.07	.03	.06		.15	.06	.25	8
NITROGEN DIOXIDE	.31	.15	.19	.22	.24	.09	.18	.18	.09	.10	.07	.05	.08	.06	.11		.31	.12	.35	16
NITRIC OXIDE	.41	.13	.15	.16	.33	.09	.27	.18	.12	.25	.04	.04	.16	.31	.31		.62	.19	.67	14
OXIDES OF NITROGEN	.49	.25	.26	.31	.42	.17	.36	.24	.21	.31	.11	.09	.23	.36	.35		.69	.26		
HYDROCARBONS	5	5	3	4	8	5	4	5	3	3	3	2	3	4	4		10	4		
PASADENA																				
OXIDANT	.26	.19	.22	.26	.33	.26	.27	.30	.16	.15	.15	.15	.13	.15	.16		.33	.16	.37	20
CARBON MONOXIDE	6	7	8	8	10	7	6	6	4	4	2	1	3	4	5		10	5	11	12
SULFUR DIOXIDE	.05	.05	.04	.05	.07	.04	.02	.02	.05	.02	.02	.01	.02	.01	.03		.07	.02	.10	2
NITROGEN DIOXIDE	.17	.20	.10	.22	.21	.20	.28	.20	.27	.17	.10	.08	.12	.15	.25		.28	.15	.31	24
NITRIC OXIDE	.12	.11	.11	.15	.18	.19	.17	.17	.07	.02	.01	.01	.07	.11	.09		.20	.10	.20	4
OXIDES OF NITROGEN	.19	.26	.21	.23	.35	.39	.31	.30	.32	.18	.11	.09	.15	.19	.30		.39	.22		
HYDROCARBONS	4	5	4	4	5	4	4	4	4	3	3	3	3	3	5		5	3		
WHITTIER																				
OXIDANT	.11	.08	.09	.17	.22	.09	.15	.08	.05	.05	.06	.07	.03	.07	.08		.24	.08	.27	A14
CARBON MONOXIDE	8	4	6	6	6	5	5	6	5	4	3	3	4	4	6		8	4	10	A15
NITROGEN DIOXIDE	.16	.16	.11	.17	.13	.14	.14	.12	.13	.09	.07	.06	.08	.09	.11		.26	.11	.34	15
NITRIC OXIDE	.19	.14	.08	.12	.17	.14	.09	.13	.06	.07	.02	.03	.10	.09	.13		.19	.10	.23	16
OXIDES OF NITROGEN	.29	.24	.16	.19	.27	.23	.18	.19	.18	.16	.09	.08	.18	.15	.19		.29	.18		
HYDROCARBONS	5	3	3	5	5	5	5	6	3	5	2	2	4	4	5		11	4		
NEWHALL																				
OXIDANT	.18	.17	.23	.20	.19	.23	.25	.26	.21	.19	.15	.12	.11	.15	.17		.26	.14	.28	23
CARBON MONOXIDE	6	7	8	6	6	7	7	7	6	6	4	3	3	5	5		8	5	15	1
NITROGEN DIOXIDE	.08	.09	.14	.07	.11	.11	.10	.16	.14	.11	.10	.09	.07	.15	.08		.16	.09	.18	23
NITRIC OXIDE	.27	.19	.08	.04	.04	.07	.06	.03	.06	.07	.07	.01	.03	.05	.05		.27	.06	.28	16
OXIDES OF NITROGEN	.33	.28	.22	.11	.14	.13	.14	.19	.19	.17	.15	.10	.09	.16	.11		.33	.15		
HYDROCARBONS	4	4	5	5	3	6	5	5	5	4	5	4	3	4	4		6	3		
LANCASTER																				
OXIDANT	.13	.07	.04	.04	.13	.11	.08	.08	.10	.13	.12	.08	.08	.11	.19		.19	.09	.19	30
CARBON MONOXIDE	6	2	1	1	1	4	1	1	4	3	2	2	2	3	5		4	2	9	4
NITROGEN DIOXIDE	.07	.01	.01	.01		.01	.03	.03	.03	.02	.02	.01	.01	.05	.03		.07	.02	.08	4
NITRIC OXIDE	.05	.01	.01	.01	.01	.04	.01	.01	.04	.01	.01	.01	.01	.02	.04		.05	.02	.10	A 4
OXIDES OF NITROGEN	.11	.02	.02	.02		.02	.04	.04	.07	.03	.03	.02	.02	.07	.05		.11	.04		
HYDROCARBONS	4	2	2	2	4	5	2	2	3	2	2	2	2	2	2		3	2		
SAN DIEGO BASIN																				
SAN DIEGO																				
OXIDANT	.07	.05	.05	.06	.09	.06	.05	.04	.03	.04	.05	.04	.03	.04	.03		.09	.05	.11	A20
CARBON MONOXIDE	5	6	3	4	5	4	4	2	2	2	7	2	2	3	3		10	4	12	15
NITROGEN DIOXIDE	.10	.09	.06	.08	.10	.05	.07	.05	.03	.06	.06	.04	.03	.05	.05		.14	.06	.15	14
NITRIC OXIDE	.21	.11	.06	.09	.07	.03	.09	.06	.04	.12	.34	.01	.10	.13	.10		.34	.08	.39	26
OXIDES OF NITROGEN	.31	.20	.12	.16	.16	.08	.15	.11	.07	.18	.40	.05	.13	.16	.14		.40	.14	.45	26
HYDROCARBONS	4	4	3	3	4	3	4	3	3	3	6	2	3	4	6		6	3	15	A26
CHOLLAS HEIGHTS																				
OXIDANT	.07	.06	.07	.09	.15	.06	.08	.05	.04	.04	.06	.06	.04	.06	.08		.15	.06	.16	20

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
J U N E																																			
SAN DIEGO BASIN																																			
EL CAJON																																			
OXIDANT	.08	.07	.07	.10	.10	.08	.07	.07	.04	.06	.06	.10	.10			.10	.11	.11					.05	.04	.04			.08	.04	.05		.11	.07	.11	A 5
NESTOR																																			
OXIDANT	.04	.03	.03	.05	.06	.05	.05	.05	.05	.06	.05	.07	.08	.09	.09	.07	.06	.07	.07	.07	.06	.06	.05	.04	.05	.06	.06	.05	.06	.06		.09	.05	.10	A14
MISSION VALLEY																																			
OXIDANT	.05	.05	.04	.07	.09	.06	.05	.04	.04	.07	.05	.11	.08	.13	.10	.10	.08	.10	.10	.13	.11	.10	.07	.05	.06	.07	.07	.08	.09	.11		.13	.07	.14	A14
NITROGEN DIOXIDE	.05	.07	.07	.09	.07	.05	.08	.08	.07	.06	.07	.05	.08	.14	.14	.11	.11	.13			.09	.10	.08	.14	.14			.03	.05	.06		.14	.08	.17	A16
NITRIC OXIDE	.13	.07	.22	.09	.03	.11	.06	.03	.07	.07	.10	.03	.02	.07	.15	.25	.08	.08	.06	.03	.13	.08	.09	.06	.05	.05	.02	.05	.06	.05		.25	.07	.33	3
OXIDES OF NITROGEN	.17	.13	.28	.17	.10	.15	.14	.11	.14	.13	.17	.07	.06	.19	.29	.31	.16	.19			.11	.18	.17	.20	.19			.08	.07	.10		.34	.15	.48	16
OCEANSIDE																																			
OXIDANT	.03	.04	.04	.05	.06	.06	.05	.06	.06	.05	.05	.08	.10	.07	.07	.07	.07	.06	.06	.08	.07	.06	.04	.04	.04	.05	.05	.04	.05	.05		.10	.05	.12	13
SACTO VALLEY BASIN																																			
CHICO																																			
OXIDANT	.07	.05	.08	.06	.05	.07	.09	.09	.07	.05	.06	.08	.06	.07	.05	.04	.05	.07	.05	.05	.08	.07	.06	.10	.08	.02	.07	.06	.07	.10		.10	.06	.11	A30
CARBON MONOXIDE	2	3	2	3	3	2	2	2	1	3	2	1	2	4	7	3	2	2	2	2	2	1	2	2	1	1	1	3	4	2		7	2	11	15
NITROGEN DIOXIDE	.04	.06	.02	.05	.04	.04	.02	.02	.01	.04	.04	.01	.03	.05	.05	.03	.03	.02	.01	.04	.04	.02	.04	.04	.03	.02	.01	.04	.06	.06		.06	.03	.07	A30
NITRIC OXIDE	.01	.01	.00	.01	.01	.01	.01	.00	.01	.01	.01	.00	.01	.02	.08	.02	.01	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.01	.04	.00		.08	.01	.13	15
OXIDES OF NITROGEN	.05	.07	.02	.05	.05	.04	.02	.02	.02	.05	.04	.01	.03	.07	.13	.05	.04	.02	.01	.04	.04	.02	.04	.04	.03	.02	.01	.05	.09	.06		.13	.04	.18	15
HYDROCARBONS	3	4	3	4	4	4	3	3	3	3	4	3	3	4	4	3	3	3	3	3	3	3	4	4	3	3	3	4	4	4		4	3	5	A15
SACTO 13TH AND J ST																																			
OXIDANT														.03	.04	.04	.04	.03	.01	.03	.04	.02	.05	.05	.04	.02	.06	.03	.06	.08		.08	.03	.08	30
CARBON MONOXIDE	6	6	3	6	5	2	6	4	4	5	6	6	3	6	5	3	4	5	3	2	4	3	4	10	5	3	1	3	3	3		10	4	10	24
NITROGEN DIOXIDE	.04	.04	.02				.03	.02	.02	.04	.06	.02	.02	.08	.05	.03	.03	.02	.01	.02	.06	.02	.01	.01	.01	.02	.03	.01	.06	.06		.08	.03	.09	14
NITRIC OXIDE	.05		.00				.02	.04	.02	.03	.05	.02			.02			.03	.01	.01	.05	.03	.05	.03	.04	.01	.01	.04	.02	.05		.05	.02	.09	A11
OXIDES OF NITROGEN	.08		.02				.04	.06	.04	.06	.10	.04			.04			.05	.02	.02	.08	.03	.06	.04	.04	.03	.03	.04	.07	.10		.10	.04	.13	A11
HYDROCARBONS	3	3	3	3	5	3	3	3	3	3	3	3	3	4	6	7	6	4	4	4	4	3	3	4	3	3	3	3	4	4		7	3	8	5
SACTO CREEKSIDE																																			
OXIDANT	.07	.07	.06	.06			.06	.08	.04	.07	.08	.07	.06	.04	.04		.06						.08	.10				.06	.07	.08		.10	.06	.10	24
SACTO 10TH AND P ST.																																			
OXIDANT	.07	.06	.03	.05	.06	.07	.05	.07	.03	.04	.06	.04	.04	.04	.03	.03	.07	.05	.03	.06	.07	.02	.06	.08	.04	.02	.06	.08	.09	.11		.11	.05	.11	29
CARBON MONOXIDE	3	4	2	3	2	1	1	2	1	3	2	1	1	5	8	5	3	2	1	2	3	2	2	2	3	1	1	3	3	2		8	2	13	1
NITROGEN DIOXIDE	.04	.12	.04	.06	.05	.03	.03	.03	.03	.04	.07	.03	.03	.08	.05	.04	.04	.03	.02	.04	.07	.02	.03	.03	.03	.02	.02	.04	.09	.06		.12	.04	.15	2
NITRIC OXIDE	.03	.11	.04	.03	.04	.01	.03	.01	.01	.02	.07	.01	.00	.11	.15	.07	.07	.03	.01	.01	.05	.02	.03	.01	.04	.02	.02	.05	.05	.08		.15	.04	.20	15
OXIDES OF NITROGEN	.07	.23	.06	.09	.07	.04	.04	.03	.03	.06	.12	.03	.03	.14	.20	.10	.10	.06	.03	.04	.08	.04	.05	.03	.06	.03	.04	.09	.11	.14		.23	.07	.29	15
HYDROCARBONS	3	4	3	3	5	3	2		3	3	3	2	2	3	5	4	5	3	2	3	3	2	3	3	3	2	3	3	3	3		5	3	6	A 5
REDDING																																			
OXIDANT	.06	.07	.07	.06	.07	.07	.08	.09	.06	.06	.08	.09	.07	.07	.05	.05	.05	.06	.05	.06	.08	.07	.08	.09	.05	.03	.06	.06	.07	.09		.09	.06	.10	A 8
CARBON MONOXIDE	4	4	5	4	2	1	3	3	4	3	3	4	2	3	3	2	2	3	2	3	3	2	3	3	5	5	4	3	2	4		5	3	7	A 3
NITROGEN DIOXIDE	.02	.04	.02	.04	.04	.03	.02	.03	.03	.03	.03	.05	.03	.02	.02	.02	.02	.02	.02	.03	.04	.02	.03	.02	.03	.03	.01	.02	.03	.06		.06	.02	.07	30
NITRIC OXIDE	.01	.01	.01	.01	.00	.00	.00	.01	.02	.01	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.01	.02	.01	.00	.02	.00	.02	.01	.00		.02	.00	.03	A 1
OXIDES OF NITROGEN	.03	.04	.06	.05	.04	.03	.02	.03	.04	.03	.03	.05	.03	.02	.02	.03	.03	.02	.02	.04	.05	.03	.04	.03	.03	.04	.01	.03	.03	.06		.06	.03	.09	A30
HYDROCARBONS	3	3	3	4	3	3	3	3	3	3	3	3	3	3	3	2	3	3	2	3	3	4	2	2	4	3	3	3	3	3		4	2	9	A22
SAN JOAQ VALLEY BASIN																																			
FRESNO COURT ROOF																																			
OXIDANT	.04	.06	.05	.06	.06	.07	.05	.07	.05	.04	.06	.10	.04	.08	.10	.12	.07	.06	.05	.06	.08	.08	.04	.08	.05	.03	.05	.06	.08	.09		.12	.06	.13	16
CARBON MONOXIDE	2	2	2	2	2	2	2	2	1	1	2	2	1	1	2	3	2	2	1	2	5	1	1	2	2	1	1	2	2	2		5	1	6	21
NITROGEN DIOXIDE	.03	.04	.04	.04	.06	.03	.04	.04	.03	.03	.05	.05	.03	.05	.06	.08	.06	.03	.03	.05	.08	.04	.04	.04	.05	.02	.02	.03	.04	.06		.08	.04	.09	A16
NITRIC OXIDE	.02	.04	.03	.01	.01	.01	.02	.04	.02	.01	.03	.03	.01	.00	.04	.09	.07	.01	.02	.01	.03	.02	.01	.01	.03	.02	.01	.03	.02	.02		.09	.02	.21	16
OXIDES OF NITROGEN	.05	.07	.06	.04	.06	.03	.05	.07	.05	.04	.07	.07	.04	.05	.09	.15	.13	.04	.04	.05	.10	.05	.04	.05	.08	.03	.02	.06	.06	.07		.15	.06	.26	16
HYDROCARBONS	2	2	3	2	2	3	3	3	2	2	3	3	3	3	4	4	3	3	2	2	3	2	2	3	3	3	2	2	2	3		4	2	7	A15
BKRSFLD GOLDEN STATE																																			
OXIDANT	.05	.06	.07	.07	.06	.06	.07	.05	.04	.03	.06	.08	.05	.05	.07	.07	.06	.05	.05	.05	.06	.06	.06	.07	.08	.04	.03	.06	.07	.08		.08	.05	.09	A12
CARBON MONOXIDE	3	3	3	4	8	6	4	3	2	4	4	3	2	5	8	4	4	4	2	5	6	4	5	3	3	2	1	2	4	5		8	3	10	A 5
NITROGEN DIOXIDE	.06	.06	.06	.07	.08	.09	.06	.05	.05	.06	.07	.06	.04	.07	.09	.07	.07	.07	.05	.07	.06	.06	.07	.05	.06	.04	.03	.03	.07	.08		.09	.06	.09	A 5
NITRIC OXIDE	.05	.02	.01	.04	.16	.14	.12	.05	.05	.06	.05	.06	.01	.11	.15	.04	.16	.09	.03	.12	.11	.12	.08	.03	.05	.04	.02	.01	.11	.12		.16	.07	.26	A 5
OXIDES OF NITROGEN	.11	.07	.06	.11	.24	.22	.18	.10	.10	.12	.12	.12	.05	.18	.24	.11	.21	.14	.06	.19	.17	.17	.14	.08	.11	.08	.04	.04	.18	.19		.24	.13	.35	A 5
HYDROCARBONS	7	5	6	11	10	15	6	5	5	6	6	7	5	6	7	7	6	7	7	5	11	9	6	5	10	5	4	5	6	9		15	6	16	6
BAKERSFIELD																																			
OXIDANT		.09	.10	.08	.09	.09	.09	.09	.08	.06	.10	.13	.09	.09	.13	.14	.10	.08	.08	.09	.11	.09	.09	.12	.09	.08	.06	.08	.12	.12		.14	.09	.16	16
NITROGEN DIOXIDE		.05	.09	.10	.09	.09	.08	.04	.06	.06	.09	.07	.09	.08	.10	.08	.06	.06	.08	.08	.09	.07	.08	.04	.10	.04	.03	.05	.10	.10		.10	.07	.11	A15
NITRIC OXIDE		.03	.04	.18	.09	.11	.02	.01	.02	.07	.05	.07	.01	.17	.11	.05	.08	.05	.05	.09	.16	.06	.11	.02	.05	.02	.01	.02	.14	.10		.18	.06	.26	4
OXIDES OF NITROGEN		.08	.12	.27	.15	.20	.09	.05	.08	.13	.11	.13	.10	.25	.21	.13	.14	.10	.12	.17	.23	.11	.19	.06	.15	.06	.03	.06	.24	.20		.27	.13	.35	4
STOCKTON HAZELTON ST																																			
OXIDANT	.04	.05	.03	.04	.06	.06	.02	.03	.02	.05	.05	.04	.02	.04	.04	.05	.06	.04	.03	.04	.05	.03	.05	.04	.03	.01	.04	.05	.05	.06		.06	.04	.08	A17
CARBON MONOXIDE	2	2	2	2	2	4	2	2	2	2	2	1	2	1	2	2	2	3	2	2	4	2	2	2	2	1	1	1	3	3		4	2	11	A30
NITROGEN DIOXIDE	.04	.04	.02	.04	.04	.05	.02	.03	.02	.03	.03	.02	.04	.04	.04	.05	.04	.04	.02	.04	.05	.04	.03	.04	.03	.02	.02	.03	.04	.06		.06	.03	.06	6
NITRIC OXIDE	.02	.06	.02	.01	.04	.08	.01	.02	.01	.02	.02	.01	.01	.04	.00	.00	.01	.01	.03	.02	.03	.04	.06	.00	.01	.02	.02	.03	.04	.05		.08	.02	.14	6
OXIDES OF NITROGEN	.06	.10	.04	.04	.08	.12	.03	.04	.03	.04	.05	.03	.04	.06	.04	.05	.04	.04	.05	.05	.07	.06	.09	.04	.03	.03	.04	.06	.08	.10		.12	.05	.20	30
HYDROCARBONS	3	4	3	3	6	6	8	3	3	3	3	3	3	5	3	3	3	3	3	4	4	3	4	3	3	3	3	3	4	5		8	3	11	7

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
J U N E																																			
SAN JOAQ VALLEY BASIN																																			
STOCKTON HOTEL CARBON MONOXIDE	6	8	4	7	3	2	7	5	4	6	7	3	1	6	8	6	6	6	6	4	6					3	4	1	5	7	6	8	5	19	A30
MODESTO OXIDANT	.07	.08	.06	.08	.12	.10	.07	.08	.04	.08	.09	.08	.06	.09	.07	.06	.12	.09	.10	.11	.15	.08	.08	.09	.06	.02	.08	.12	.13	.15		.15	.08	.18	A17
CARBON MONOXIDE	2	2	2	2	1	1	3	3	3	3	2	2	1	2	3	3	4	3	3	2	4	2	3	2	3	3	2	2	2	3		4	2	5	21
NITROGEN DIOXIDE	.04	.03	.03	.04	.03	.03	.04	.03	.04	.03	.04	.02	.02	.05	.06	.05	.04	.03	.02	.04	.06	.02	.04	.03	.03	.02	.02	.03	.03	.05		.06	.03	.07	A15
NITRIC OXIDE	.02	.02	.06	.02	.01	.00	.01	.02	.04	.01	.02	.01	.01	.02	.03	.03	.02	.01	.01	.01	.14	.01	.02	.02	.02	.01	.01	.01	.02	.02		.14	.02	.29	21
OXIDES OF NITROGEN	.06	.04	.09	.06	.04	.03	.04	.05	.07	.04	.05	.03	.03	.05	.07	.06	.05	.03	.02	.01	.19	.03	.04	.05	.03	.03	.03	.04	.04	.04		.19	.05	.34	21
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3	4		5	3	5	21
VISALIA OXIDANT	.06	.08	.10	.09	.09	.12	.13	.09	.07	.06	.09	.11	.09	.10	.12	.13	.14	.12	.09	.11	.11	.12	.10	.14	.12	.07	.05	.07	.11	.12		.14	.10	.15	A17
CARBON MONOXIDE	5	5	6	3	3	2	3	4	4	5	5	5	3	4	6	5	5	5	5	5	5	5	4	6	4	4	3	3	4	4		6	4	8	A11
NITROGEN DIOXIDE	.02	.02	.03	.04	.05	.05	.03	.03	.02	.03	.07	.04	.02	.05	.07	.03	.03	.03	.01	.04	.06	.03	.03	.03	.03	.03	.02	.04	.04	.04		.07	.03	.05	A15
NITRIC OXIDE	.00	.00	.00	.01	.02	.00	.03	.00	.01	.00	.00	.01	.00	.01	.00	.00	.02	.01	.01	.00	.01	.02	.01	.02	.01	.01	.01	.00	.01	.00		.03	.00	.05	11
OXIDES OF NITROGEN	.02	.02	.03	.04	.05	.05	.05	.03	.03	.03	.07	.04	.02	.05	.07	.03	.04	.04	.03	.04	.07	.05	.03	.05	.04	.03	.02	.04	.04	.04		.07	.03	.12	A11
HYDROCARBONS	3	2	2	2	4	3	3	3	3	2	4	4	3	5	5	5	3	3	3	2	6	3	2	3	3	2	2	3	3	3		6	3	9	15
SE DESERT BASIN																																			
BANNING OXIDANT	.04	.03	.06	.09	.10	.08	.06	.05	.03	.04	.10	.16	.16	.14	.09	.15	.13	.15	.15	.14	.11	.20	.10	.10	.12	.09	.03	.05	.07	.09		.20	.09	.21	22
NITROGEN DIOXIDE	.02	.02	.04	.06	.06	.04	.04	.04	.01	.02	.07	.06	.06	.06	.05	.07	.06	.03	.15	.04	.03		.06	.07	.05	.05	.03	.04	.04	.06		.07	.04	.10	A15
NITRIC OXIDE									.01	.02	.03			.02	.02	.02	.03	.03			.03		.03	.05	.04	.04	.03	.02	.04	.05	.05	.03		
OXIDES OF NITROGEN									.04	.06	.06			.06	.06	.09	.08	.06			.08		.08	.12	.09	.09	.06	.04	.08	.10	.12	.07	.14	17
PALM SPRINGS OXIDANT		.06	.09	.15	.16	.12	.12	.12	.07	.07	.12	.15	.16	.21	.19	.16	.14	.14	.15	.14	.17	.21	.16	.16	.15	.11	.08	.08	.11	.15		.21	.13	.23	A22
CARBON MONOXIDE	8	11		12		8	10	13	9	9	12	11	13	10	9		10	7	9	6	8	6	9	10	13	13	13	10	10	9		13	10	15	A25
SULFUR DIOXIDE																																.00			
NITROGEN DIOXIDE				.03	.03		.02	.01	.01	.01	.02	.02	.02	.02	.02	.02	.03	.00	.01	.02	.04	.03	.02	.02	.01	.03	.02	.02	.01	.01	.02	.04	.02	.05	20
NITRIC OXIDE				.01			.01	.01	.02	.01	.02	.00	.00	.02	.01		.01	.01	.01	.01	.01	.01	.02	.02	.01	.03	.00	.00	.01	.01	.02	.18	.01		
OXIDES OF NITROGEN				.03	.03		.02	.03	.02	.02	.02	.02	.02	.02	.01		.03	.01	.02	.01	.04	.01	.03	.04	.03	.02	.02	.02	.01	.01	.02	.19	.03	.19	30
HYDROCARBONS				3	3	2	2	3	2	2	2	3	4	3	3		4	4	4	5	4	5	6	5	6	8	8	6	15	7		13	4	14	29
INDIO OXIDANT	.10	.09	.12	.11	.16	.16	.16	.20	.15	.09	.12	.15	.19	.29	.25	.32	.22	.20	.16	.17	.16	.19	.18	.14	.13	.13	.09	.04	.11	.18		.32	.15	.33	14
NITROGEN DIOXIDE	.01	.01	.02	.03	.02	.01	.01	.02	.02	.01	.02	.04	.04	.04	.03	.01	.01	.01	.01	.05	.04	.03	.01	.02	.02	.02	.01	.01	.02	.02		.05	.01	.06	20
NITRIC OXIDE	.00	.00				.00	.00	.00	.00		.01	.00	.00	.01	.00	.01	.01	.01	.00	.04												.04	.00		
OXIDES OF NITROGEN	.01	.01				.01	.02	.02	.01		.03	.04	.01	.05	.03	.02	.02	.02	.01	.09												.09	.02	.11	20
VICTORVILLE OXIDANT	.04	.04	.06	.08	.08	.06	.07	.07	.07	.05	.07	.06	.06	.08	.10	.09	.08	.06	.03	.11	.09	.10	.13	.14	.09	.05	.04	.08	.12	.13		.14	.07	.15	23

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			CONC	DAY
JULY																																			
SF BAY AREA BASIN																																			
WALNUT CREEK																																			
OXIDANT	.08	.05		.09	.09	.08	.05	.05	.04	.07	.09	.11					.11	.13	.09	.06	.09	.11	.05	.03	.05	.08	.04	.04	.08	.07	.08	.13	.07	.14	12
RICHMOND																																			
OXIDANT	.03	.03	.03	.04	.04	.03	.03	.03	.02	.03	.06	.06	.05	.04	.04	.05	.06	.04	.03	.03	.03	.02	.02	.03	.03	.03	.03	.02	.03	.02	.02	.06	.03	.06	A11
CARBON MONOXIDE	2	2	4	4	4	4	3	3	4	4	4	4	4	3	4	5	4	5	5	6	3	3	3	3	3	3	4	6	1	1	2	6	2	10	A 9
SULFUR DIOXIDE	.00	.00	.00	.01	.00	.01	.00	.00	.13	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13	.00	.35	9
NITROGEN DIOXIDE	.03	.04	.03	.03	.03	.03	.02	.01	.03	.04	.04	.06	.07	.03	.02	.02	.03	.04	.04	.02	.02	.03	.01	.01	.02	.03	.02	.02	.03	.01	.01	.07	.02	.08	13
NITRIC OXIDE	.01	.03	.01	.01	.01	.02	.02	.01	.07	.08	.04	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.01	.02	.02	.02	.02	.00	.08	.01	.10	10
OXIDES OF NITROGEN	.04	.04	.03	.03	.04	.04	.03	.02	.10	.12	.07	.09	.07	.03	.02	.02	.03	.04	.04	.02	.02	.03	.01	.01	.02	.03	.03	.03	.03	.01	.12	.03	.14	10
HYDROCARBONS	3	3	3	3	3	3	2	2	4	5	5	3	3	2	3	3	4	4	4	3	3	4	4	2	2	2	2	2	2	2	2	5	2	7	A 9
PITTSBURG																																			
OXIDANT	.08	.07	.08	.10	.07	.09	.06	.04	.04	.04	.07	.11	.11	.12	.08	.07	.10	.11	.08	.07	.06	.07	.07	.05	.07	.07	.08	.04	.06	.05	.06	.12	.07	.13	14
CARBON MONOXIDE	3	3	3	3	3	3	2	2	3	2	2	3	2	3	2	3	2	2	3	3	3	3	3	3	3	4	2	2	3	3	3	4	2	5	23
NITROGEN DIOXIDE	.04					.03	.02	.02	.03	.02	.04	.05	.07	.06	.05	.06	.04	.04	.04	.05	.04	.05	.03	.02	.02	.05	.03	.03	.04	.03	.03	.07	.03	.09	13
NITRIC OXIDE	.01					.02	.01	.02	.01	.01	.01	.02	.03	.02	.03	.03	.02	.01	.02	.02	.05	.04	.03	.02	.02	.04	.01	.01	.01	.02	.02	.05	.02	.05	20
OXIDES OF NITROGEN	.04					.04	.03	.03	.04	.03	.05	.06	.08	.07	.06	.07	.05	.05	.05	.05	.07	.06	.05	.03	.04	.06	.04	.03	.05	.04	.04	.08	.04	.12	13
HYDROCARBONS	5	4	4			4	4	4	4	4	4	6	6	5	4	5	4	5	5	5	5	5	4	4	4	4	4	4	4	4	4	6	4	7	A12
NORTH RICHMOND																																			
SULFUR DIOXIDE	.08	.01	.12	.08	.01	.03	.14	.01	.06	.01	.10	.09	.01	.01	.13	.06	.18	.04	.00	.01	.01	.01	.00	.08	.11	.04	.00	.00	.01	.00	.00	.18	.04	.40	11
POINT RICHMOND																																			
SULFUR DIOXIDE	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.02	.01	.00	.00	.00	.01	.01	.01	.01	.01	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02	.00	.03	12
SAN RAFAEL																																			
OXIDANT	.03	.03	.02	.04	.04	.02	.03	.04	.02	.03	.05	.08	.07	.03	.03	.02	.07	.06	.04	.03	.03	.03	.02	.02	.02	.03	.03	.02	.03	.02	.03	.08	.03	.09	13
CARBON MONOXIDE	3	3	2	3	3	4	3	3	3	4	4	4	4	3	4	3	3	4	4	3	3	3	3	3	3	2	3	2	3	3	2	4	3	5	A 6
NITROGEN DIOXIDE	.04	.03	.03	.03	.03	.03	.07	.03	.02	.03	.03	.05	.06	.04	.03	.02	.02	.02	.03	.04	.03	.05	.04	.02	.02	.03	.02	.02	.03	.03	.02	.07	.03	.07	7
NITRIC OXIDE	.04	.06	.03	.03	.02	.05	.00	.07	.06	.02	.05	.09	.05	.05	.01	.03	.04	.04	.03	.03	.06	.03	.10	.05	.04	.05	.04	.05	.07	.07	.04	.10	.04	.12	12
OXIDES OF NITROGEN	.07	.07	.05	.05	.05	.07	.07	.10	.07	.05	.07	.11	.08	.09	.03	.05	.05	.05	.04	.06	.08	.05	.11	.07	.06	.08	.06	.07	.09	.09	.05	.11	.06	.14	A12
HYDROCARBONS	3	3	3	3	4	4	5	4	3	3	3	4	5	4	3	5	6	6	5	3	5	5	4	4	3	4	3	4	4	4	4	6	3	6	A 7
NAPA																																			
CARBON MONOXIDE	3	3	3	3	3	3	3	2	3	3	3	3	3	3	2	3	3	2	2	2	2	2	2	1	1							3	2	19	A 1
NAPA SOLANO HIGHWAY																																			
OXIDANT	.06	.04	.04	.05	.05	.04	.02	.03	.01	.03	.04	.07	.08	.07	.04	.03	.04	.05	.07	.03	.03	.04	.02	.02	.02	.03	.03	.03	.02	.03	.03	.08	.03	.09	13
REDWOOD CITY																																			
OXIDANT	.04	.03	.04	.04	.04	.03	.04	.03	.03	.03	.04	.07	.06	.05	.04	.05	.06	.07	.08	.04	.05	.06	.03	.03	.05	.04	.03	.03	.03	.03	.03	.08	.04	.11	19
CARBON MONOXIDE	2	2	2	2	3	3	3	2	2	2	2	2	3	2	2						3	3	3	3	3	3	4	3	2	3	3	4	2	6	30
NITROGEN DIOXIDE	.04	.03	.03	.03	.03	.04	.03	.03	.03	.03	.04	.06	.08	.07	.06	.06	.08	.07	.08	.05	.06	.06	.02	.02	.03	.04	.03	.04	.05	.05	.03	.08	.04	.10	A19
NITRIC OXIDE	.03	.02	.01	.01	.03	.04	.03	.01	.04	.03	.04	.06	.09	.06	.03	.01	.06	.05	.02	.02	.02	.01				.01	.02	.02	.03	.02	.02	.09	.03	.10	13
OXIDES OF NITROGEN	.06	.05	.04	.04	.06	.07	.06	.04	.05	.06	.07	.09	.14	.10	.06	.06	.08	.09	.08	.06	.06	.06				.04	.04	.04	.06	.10	.05	.14	.06	.19	13
HYDROCARBONS	4	4	4	4	4	4	4	3	4	5	5	4	5	4	4	3	4	3	4	4	4	4	4	3	3	3	3	3	3	4	4	5	3	8	A23
BURLINGAME																																			
OXIDANT	.02	.02	.02	.02	.02	.02	.02	.02	.01	.02	.04	.03	.02	.02	.02	.03	.03	.02	.04	.01	.01	.02	.01	.02	.02	.02	.03	.01	.02	.01	.01	.04	.02	.07	A11
CARBON MONOXIDE	3	3	3	3	3	3	3	3	3	3	3	4	5	4	3	4	5	4	5	4	4	3	4	3	3	3	3	3	3	4	4	5	3	6	A13
HYDROCARBONS	3	3	2	3	3	3	3	3	3	2	3	4	4	3	3	4	4	4	5	4	4	3	4	3	3	3	3	3	3	4	4	5	3	5	A 8
SAN JOSE ALMA ST.																																			
OXIDANT	.08	.05	.06	.07	.07	.05	.05	.03	.02	.04	.05	.09	.09	.09	.08	.06	.14	.07	.09	.07	.09	.07	.09	.03	.03	.06	.04	.03	.02	.03	.05	.14	.06	.16	18
CARBON MONOXIDE	4	4	3	4	3	4	3	5	5	3	4	6	6	5	5	5	4	4	6	4	4	4	4	2	3	4	4	5	3	5	4	6	4	10	A19
NITROGEN DIOXIDE	.05	.05	.04	.03	.03	.06	.05	.05	.03	.02	.03	.10	.15	.10	.09	.09	.07	.06	.11	.07	.06	.09	.05	.03	.04	.06	.05	.03	.05	.05	.04	.15	.05	.15	13
NITRIC OXIDE	.03	.02	.03	.04	.02	.02	.02	.05	.11	.05	.07	.14	.12	.08	.02	.03	.02	.05	.15	.10	.07	.07	.08	.03	.04	.06	.06	.05	.04	.12	.08	.15	.06	.16	12
OXIDES OF NITROGEN	.07	.06	.06	.07	.05	.07	.06	.10	.13	.07	.08	.19	.20	.15	.09	.09	.09	.11	.18	.14	.10	.11	.10	.05	.07	.08	.09	.07	.07	.14	.10	.20	.09	.22	13
HYDROCARBONS	3	3	3	3	3	3	3	4	4	4	4	5	6	5	4	4	4	5	6	4	4	4	4	3	3	3	3	3	3	3	4	6	3	7	A13
FAIRFIELD																																			
OXIDANT	.05						.05	.05	.03	.05	.07	.07	.10	.12	.08	.06	.07	.08	.09	.05	.06	.06				.05			.02			.12	.06	.12	14
VALLEJO TRAILER																																			
OXIDANT	.04	.04	.03	.04	.05	.03	.03	.03	.02	.04	.08	.09	.10	.06	.05	.04	.06	.05	.07	.03	.04	.05	.02	.02	.03	.03	.03	.03	.03	.03	.03	.10	.04	.11	13
CARBON MONOXIDE	2	2	2	2	2	1	1	1	1	1	2	2	2	2	2	2	2	2	2	1	1	2	2	1	1	2	2	1	2	1	2	2	1	3	A 4
NITROGEN DIOXIDE	.04	.04	.03	.04	.04	.04	.03	.03	.01	.01	.03	.04	.04	.03	.04	.03	.05	.04	.04	.02	.02	.03	.02	.02	.02	.03	.04	.03	.03	.03	.03	.05	.03	.05	12
NITRIC OXIDE	.02	.01	.01	.01	.02	.02	.01	.02	.00	.01	.01	.01	.00	.01	.01	.01	.01	.00	.01	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	.02	.02	.02	.01	.03	A11
OXIDES OF NITROGEN	.05	.04	.03	.05	.04	.05	.04	.03	.02	.01	.04	.04	.05	.03	.04	.03	.05	.04	.04	.03	.02	.03	.04	.02	.02	.03	.05	.03	.04	.04	.04	.05	.03	.06	A 1
HYDROCARBONS	4	4	4	4	4	4	4	4	4	4	4	5	4	3	3	3	4	5	4	3	3	3	3	3	4	3	3	3	3	3	4	5	3	6	A 6
SAN LEANDRO																																			
OXIDANT	.05	.04	.05	.05	.05	.04	.04	.04	.02	.04	.05	.12	.11	.05	.05	.04	.06	.08	.06	.04	.04	.05	.02	.03	.04	.03	.04	.02	.03	.03	.03	.12	.04	.13	12
OAKLAND																																			
OXIDANT	.04	.03	.02	.03	.03	.03	.03	.02	.03	.04	.06	.07	.04	.03	.04	.05	.06	.05	.03	.04	.04	.02	.01	.02	.02	.02	.01	.01	.03	.02	.07	.03	.08	13
CARBON MONOXIDE	4	2		2	2	2	2	2	2	2	3	4	4	4	3	3	3	2	6	3	3	4	3	1	1	3	2	2	3	3	2	6	2	11	19
NITROGEN DIOXIDE	.05	.05	.04	.04	.04	.04	.04	.04	.04	.04	.08	.10	.10	.08	.07	.04	.05	.14	.06	.06	.04	.04	.04	.03	.04	.07	.04	.04	.03	.04	.03	.14	.05	.16	19
NITRIC OXIDE	.02	.01	.00	.01	.02	.03	.03	.03	.02	.01	.03	.02	.06	.05	.01	.00	.01	.03	.08	.00	.04	.04	.04	.00	.00	.09	.06	.05	.05	.08	.02	.09	.03	.13	26
OXIDES OF NITROGEN	.05	.05	.04	.04	.05	.06	.07	.06	.04	.04	.06	.08	.15	.15	.08	.07	.05	.07	.20	.06	.08	.09	.08	.04	.04	.16	.10	.09	.08	.10	.04	.20	.07	.23	19
HYDROCARBONS	3	3	3	3	4	3	3	3	3	4	4	3	5	4	3	3	3	4	5	3	3	3	4	3	3	3	3	3	3	3	3	5	3	5	A 1

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
J U L Y																																			
SF BAY AREA BASIN																																			
LIVERMORE RAILROAD																																			
OXIDANT	.09	.05	.09	.08	.12	.07	.08	.04	.03	.06	.12	.20	.23	.18	.12	.16	.15	.15	.20	.11	.08	.10	.08	.05	.08	.08	.06	.04	.05	.06	.07	.23	.09	.27	13
CARBON MONOXIDE	3	3	3	3	3	2	2	2	2	1	2	5	3	3	3	4	4	3	3	3	3	4	4	4	4	3	2	2	2	3	3	5	2	5	12
NITROGEN DIOXIDE		.03	.03	.04	.04	.04	.02	.02	.02	.02	.03	.05	.05	.06								.07	.05	.03	.05	.07	.03	.02	.04	.04	.03	.07	.03	.07	A26
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	3	4	4	5	4	4	4	4	4	4	3	3	3	3	3	3	3	3	3	3	3	5	3	7	14
FREMONT CHAPEL WAY																																			
OXIDANT	.08	.05	.07	.06	.07	.06	.05	.04	.03	.04	.07	.16	.14	.11	.09	.09	.09	.13	.08	.10	.08	.10	.04	.04	.07	.06	.04	.03	.04	.04	.06	.16	.07	.18	12
CARBON MONOXIDE	2	2	2	2	2	2	4	4	3	4	3	4	4	4	3	4	3	4	3	3	2	3	3	2	2	3	3	3	2	3	2	4	2	5	A10
HYDROCARBONS	3	4	3	3	4	3	3	3	3	3	4	4	5	5	3	4	4	6	5	4	3	3	2	2		3	2	4	2	4		6	3	6	18
SAN FRANCISCO ELLIS																																			
OXIDANT	.03	.02	.02	.02	.02	.03	.03	.03	.01	.01	.02	.02	.02	.02	.03	.03	.03	.02	.03	.02	.03	.02	.02	.02	.03	.03	.03	.02	.02	.02		.03	.02	.04	A 1
CARBON MONOXIDE	3	4	3	2	2	3	2	3	3	4	4	8	6	2	2	2	2	3	7	4	2	2	2	2	2	3	2	3	3	3	2	8	3	9	12
NITROGEN DIOXIDE	.03	.04	.03	.04	.04	.04	.03	.03	.03	.04	.05	.09	.06	.02	.02	.02	.03	.03	.04	.03	.02	.03	.02	.02	.01	.02	.02	.01	.01	.01	.01	.09	.02	.13	13
NITRIC OXIDE	.04	.07	.02	.01	.02	.04	.03	.03	.03	.03	.07	.11	.09	.03	.03	.04	.05	.04	.13	.04	.05	.06	.05	.04	.03	.05	.05	.04	.09	.06	.05	.13	.04	.14	19
OXIDES OF NITROGEN	.07	.10	.05	.05	.06	.07	.05	.06	.05	.07	.11	.20	.13	.05	.05	.06	.07	.07	.17	.07	.06	.08	.07	.06	.04	.07	.07	.05	.10	.07	.06	.20	.07	.21	12
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	5	5	4	3	3	3	3	4	4	3	3	3	3	3	2	3	3	3	3	3	3	5	3	6	A12
NORTH CENTRAL BASIN																																			
SALINAS																																			
OXIDANT	.05	.04	.03	.04	.04	.04	.04	.04	.03	.02		.04	.04	.04	.04	.04	.06	.05	.03	.03	.03	.04	.03	.03	.04	.04	.04	.03	.04	.03	.03	.06	.03	.07	17
NITROGEN DIOXIDE	.02	.02	.01	.02	.01	.03	.03	.03	.02	.03	.03	.09	.04	.03	.03	.03	.03	.03	.05	.03	.03	.03	.03	.02	.03	.03	.03	.03	.04	.04	.02	.09	.03	.10	12
NITRIC OXIDE	.02	.01	.02	.02	.01	.02	.02	.02	.02	.03	.01	.07	.01	.02	.02	.02	.01	.02	.06	.02	.02	.02	.01	.01	.01	.01	.01	.01	.01	.07	.02	.07	.02	.17	A30
OXIDES OF NITROGEN	.04	.02	.03	.03	.02	.04	.03	.05	.03	.06	.03	.11	.04	.04	.04	.04	.03	.05	.09	.03	.03	.05	.03	.03	.03	.03	.04	.03	.04	.10	.03	.11	.04	.23	12
HYDROCARBONS	3	3	2	3	3	3	3	3	3	3	5	4	3	3	3	3	3	3	3	3	3	3	3	3	2	3	3	3	3	4	3	5	3	5	11
GONZALES																																			
OXIDANT	.04	.03	.05	.04	.04	.04	.05	.04	.03	.04	.05	.07	.08	.05	.05	.04	.07	.06	.06	.05	.04	.04	.04	.03	.04	.05	.04	.04	.04	.05	.05	.08	.04	.10	12
MONTEREY																																			
OXIDANT	.04	.03	.03	.04	.04	.03	.04	.03	.02	.03	.04	.04	.02						.03	.03	.02	.03	.02	.02	.03	.03	.04	.02	.02	.02	.02	.04	.02	.05	A12
CARBON MONOXIDE	2	1	1	2	1	2	2	2	4	2	3	3	3	1	2	1	3	2	3	2	1	2	1	1	1	2	2	1	2	3	2	4	1	5	13
NITROGEN DIOXIDE	.01	.01	.01	.01	.01	.01	.01	.01	.02	.01	.01	.02	.01	.01	.01	.01	.03	.02	.02	.01	.01	.02	.01	.01	.01	.01	.02	.02	.02	.02	.01	.03	.01	.03	9
NITRIC OXIDE	.00	.00	.00	.00	.00	.00	.00	.01	.02	.00	.01	.00	.01	.01	.01	.01	.01	.01	.02	.00	.01	.01	.01	.01	.00	.01	.01	.00	.01	.02	.01	.02	.00	.03	A19
OXIDES OF NITROGEN	.01	.01	.01	.01	.01	.01	.01	.02	.04	.01	.02	.02	.02	.02	.02	.02	.03	.03	.04	.01	.02	.03	.02	.02	.01	.02	.03	.02	.03	.04	.02	.04	.02	.07	A30
SANTA CRuZ																																			
OXIDANT	.03	.03	.03	.04	.03	.02	.03	.03	.02	.03	.04	.05	.06	.03	.01	.02	.07	.05	.04	.04	.07	.07	.04	.03	.02	.03	.05	.04	.05			.07	.03	.09	A22
NITROGEN DIOXIDE	.04	.04	.03	.03	.04	.03	.03	.03	.03	.03	.03	.03	.02	.02	.02	.04	.06	.04	.03	.03	.03	.03	.03	.02	.02	.03	.03	.03	.03	.04	.03	.06	.03	.07	17
SOUTH CENTRAL BASIN																																			
SAN LUIS OBISPO																																			
OXIDANT	.03	.06	.04	.05	.05	.05	.04	.04	.03	.06	.05	.07	.05	.04	.04	.09	.12	.09	.04	.03	.03	.03	.03	.05	.05	.04	.06	.05	.10	.11	.06	.12	.05	.13	17
CARBON MONOXIDE	2	2	2	1	1	2	2	2	2	2	1	2	2	2	2	2	3	3	2	1	1	2	2	1	2	2	2	1	2	3	2	3	1	5	A17
NITROGEN DIOXIDE	.02	.02	.02	.02	.01	.02	.02	.03	.02	.02	.02	.03	.02	.02	.02	.03	.05	.03	.03	.02	.02	.02	.01	.01	.01	.02	.02	.02	.03	.06	.03	.06	.02	.07	30
NITRIC OXIDE	.01	.02	.03	.01	.01	.01	.01	.03	.03	.01	.01	.01	.01	.01	.01	.01	.00	.01	.01	.02	.01	.01	.00	.00	.01	.01	.02	.01	.01	.03	.02	.03	.01	.05	A 1
OXIDES OF NITROGEN	.03	.03	.05	.02	.02	.03	.02	.05	.04	.02	.03	.04	.03	.03	.02	.03	.05	.04	.03	.02	.03	.02	.02	.01	.02	.02	.03	.02	.04	.06	.05	.06	.03	.08	30
HYDROCARBONS	3	3	4	3	3	3	3	4	3	3	3	3	4	3	3	3	4	5	4	3	3	3	3	3	3	3	3	3	3	4	4	5	3	7	18
SANTA MARIA																																			
OXIDANT	.03	.03	.04	.04	.04	.03	.02	.03	.00	.04	.04	.03	.04	.03	.03	.05	.07	.05	.03	.03	.03	.03	.03	.04	.04	.05	.05	.04	.08	.10	.06	.10	.04	.12	30
SOUTH COAST BASIN																																			
ANAHEIM																																			
OXIDANT	.06	.06	.06	.06	.05	.06	.09	.12	.10	.23	.15	.07	.13	.05	.05	.04	.06	.10	.07	.06	.10	.05	.04	.06	.05	.11	.07	.05	.06	.04	.14	.23	.07	.27	10
SULFUR DIOXIDE	.01	.01	.01	.01	.01	.01	.04	.04	.03	.06	.03	.03	.05	.02	.02	.02	.01	.05	.03	.01	.03	.01	.01	.00	.00	.03	.02	.00	.01	.01	.09	.09	.02	.11	31
NITROGEN DIOXIDE	.06	.04	.08	.08	.04	.06	.09	.12	.14	.12	.10	.10	.12	.05	.04	.06	.08	.09	.07	.06	.06	.04	.05	.03	.04	.10	.09	.08	.11	.11	.18	.18	.08	.19	26
NITRIC OXIDE	.07	.06	.02	.03	.03	.04	.11	.13	.13	.15	.17	.16	.20	.05	.05	.10	.08	.10	.09	.07	.07	.05	.00	.05	.04	.06	.04	.06	.07	.16	.16	.20	.08	.24	13
OXIDES OF NITROGEN	.12	.10	.09	.09	.07	.09	.18	.21	.24	.19	.20	.25	.29	.09	.08	.14	.13	.14	.13	.11	.12	.09	.05	.08	.08	.16	.10	.11	.15	.25	.24	.29	.14	.32	13
HYDROCARBONS	3	3	3	2									6	4	2	3	4	4	3	4	3	3	3	3	3	3	4	4	4	5	5	6	3	5	2
LA HABRA																																			
OXIDANT	.10	.14	.12	.15	.14	.14	.21	.30	.22	.00		.09	.33	.09	.09	.10	.18	.24	.14	.14	.13	.11	.08	.12	.13	.17				.02	.25	.33	.14	.36	13
SULFUR DIOXIDE	.03	.02	.02	.02	.00	.02	.05	.05	.04	.08	.05	.02	.06	.02	.01	.01	.02	.03	.04	.02	.04	.02	.00	.01	.01	.03	.02	.02	.02	.03	.04	.08	.02	.09	10
NITROGEN DIOXIDE	.07	.07	.07	.06	.07	.07	.07	.09	.10	.10	.05	.01	.10	.06	.05	.07	.09	.06	.09	.08	.10	.07	.06	.06	.08	.08	.13	.07	.10	.07	.10	.13	.07	.15	27
NITRIC OXIDE	.05	.08	.06	.05	.03	.03	.03	.08	.16	.11	.08	.15	.19	.06	.02	.06	.13	.11	.14	.08	.05	.08	.08	.03	.00	.06	.13	.14	.07	.17	.15	.19	.08	.26	13
OXIDES OF NITROGEN	.12	.15	.12	.11	.10	.10	.09	.16	.23	.19	.17	.16	.24	.11	.07	.12	.18	.16	.23	.16	.13	.15	.14	.09	.03	.12	.19	.21	.15	.22	.20	.24	.14	.30	13
SANTA ANA																																			
OXIDANT	.07	.06	.09	.07	.06	.07	.11	.14	.07	.11	.17	.07	.08	.06	.06	.04	.07	.12	.06	.06	.08	.07	.10	.06	.06	.12	.08	.07	.06	.06	.03	.17	.07	.21	11
SULFUR DIOXIDE	.01	.00	.01	.01	.00	.00	.02	.03	.03	.04	.04	.01	.04	.01	.01	.01	.01	.04	.02	.02	.01	.00	.01	.00	.01	.03	.02	.01	.00	.01	.05	.05	.01	06	31
NITROGEN DIOXIDE	.03	.02	.02	.02	.02	.02	.04	.04	.03	.05	.05	.04	.06	.01	.01	.03	.03	.05	.02	.02	.02	.00	.01	.00	.02	.04	.03	.03	.03	.05	.07	.07	.02	09	31
NITRIC OXIDE	.05	.00	.01	.01	.01	.01	.03	.02	.07	.11	.19	.16	.06	.02	.01	.03	.04	.04	.02	.02	.01	.02	.01	.00	.00	.00	.01	.00	.02	.09	.09	.19	.03	.28	11
OXIDES OF NITROGEN	.07	.02	.02	.02	.02	.02	.05	.06	.09	.14	.22	.20	.11	.02	.01	.05	.07	.06	.03	.03	.02	.02	.02	.00	.02	.04	.04	.03	.05	.13	.10	.22	.05	.31	11
GREEN RIVER GOLF COU																																			
OXIDANT	.09	.09	.10	.10	.07	.11	.15	.17	.16	.24	.27	.12	.17	.09	.08	.07	.11	.16	.11	.12	.13	.10	.10	.11	.11	.18	.13	.08	.13	.10	.22	.27	.12	.29	10
NITROGEN DIOXIDE	.06	.05	.06	.04	.03	.05	.07	.14	.13	.11	.10	.09	.09	.07	.06	.09	.07	.06	.06	.08	.06	.04	.04	.03	.03	.10	.08	.06	.07	.06		.14	06	.15	8
NITRIC OXIDE	.07	.06	.08	.04	.03	.02	.01	.06	.06	.05	.07	.12	.08	.06	.02	.03	.06	.05	.08	.06	.03	.01	.02	.00	.00	.02	.05	.06	06	11		.12	04	.19	12
OXIDES OF NITROGEN	.13	.10	.11	.06	.05	.06	.08	.14	.16	.13	.15	.21	.15	.13	.07	.09	.12	.09	.12	.10	.06	.04	.05	.03	.03	.10	.11	.12	.12	.17	.12	.21	.10	.26	12

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			CONC	DAY
JULY																																			
SOUTH COAST BASIN																																			
LOS ALAMITOS AIR STA																																			
SULFUR DIOXIDE																				.03	.03	.01	.06	.01	.03	.10	.10	.01	.02	.18	.08	.18	.05	.43	30
RIVERSIDE																																			
OXIDANT	.21	.25	.18	.18	.16	.19	.19	.29	.21	.27	.19	.18	.31	.22	.21	.19	.18	.21	.24	.25	.30	.30	.24	.19	.17	.31	.28	.20	.21	.16	.40	.40	.22	.45	31
CARBON MONOXIDE	6	7	10	9	7	6	8	10	13	10	7	9	12	5	8	8	5	7	7	7	7	7	6	6	6	5	7	11				13	9	15	9
SULFUR DIOXIDE	.00	.00	.00	.01	.01	.00	.01	.01	.01			.00	.01					.00	.00	.00	.01	.00	.00									.01	.00	.01	A 4
NITROGEN DIOXIDE	.11	.08	.11	.08	.06	.08	.11	.11	.14	.14	.12	.18	.12	.12	.10	.13	.12	.05	.08	.11	.13	.06	.08	.04	.04	.05	.07	.11	.18	.12	.15	.18	.10	.20	A12
HYDROCARBONS	4	5	3	3	4	4	4	7	6	7		4	5	4	4	4	4	5	4	5	5	4	4	2	5	4	5	5	5	6	5	7	4	11	A 8
CORONA																																			
OXIDANT	.07	.11	.07	.08	.07	.13	.15	.18	.14	.15	.14	.12	.12	.07	.10	.09	.10	.16	.11	.15	.14	.12	.13	.13	.13	.18	.18	.09	.15	.12	.16	.18	.12	.21	A27
SAN BERNARDINO																																			
OXIDANT	.19	.22	.19	.17	.19	.16	.22	.23	.26	.27	.21	.15	.28	.23	.24	.18	.19	.17	.27	.22	.29	.26	.20	.16	.13	.28	.24	.21	.19	.14	.20	.29	.21	.32	10
CARBON MONOXIDE	7	7	5			6	7	7	7	7		8	8	9	7	8	8	6	6	6	6	6	7	7	6	7	8	9	9	8	7	9	7	13	A28
SULFUR DIOXIDE	.00	.00				.05	.03	.05	.06	.04	.02	.06	.03	.03	.03	.03	.03	.02	.04	.04	.06	.04	.03	.03	.03	.05	.05	.03	.03	.02	.04	.06	.03	.07	A10
NITROGEN DIOXIDE	.19	.22	.21	.27	.25	.22	.21	.22	.17			.08	.15	.13	.09	.18	.03	.03	.11	.09	.10	.10	.13	.23	.3	.4	.5	.5	.8	.9	.7	.27	.15	.30	4
HYDROCARBONS	5	4	3	4	4	4	4	5	5	5	5	6	5	6	5	5	5	5	5	5	5	5	4	4	3	4	5	6	5	5	5	6	4	7	A14
ONTARIO																																			
OXIDANT	.12	.15	.13	.12	.13	.13	.19	.21	.23	.26	.18	.11	.24	.16	.24	.02					.18	.15	.13	.13	.13	.25	.22	.15	.15	.09	.12	.26	.16	.30	10
NITROGEN DIOXIDE		.08	.10	.07	.06	.08	.07	.08	.12	.11	.06	.10	.10	.17			.09	.04	.05	.05	.08	.04				.06	.06	.08	.06	.05	.03	.17	.07	.22	28
NITRIC OXIDE		.05	.06	.03	.06	.03	.02	.04	.05	.05	.05	.04														.05	.06	.05	.06			.06	.04	.08	A 3
OXIDES OF NITROGEN		.11	.13	.10	.10	.08	.07	.12	.15	.15	.10	.13														.09	.10	.09	.09			.15	.10	.22	A28
REDLANDS																																			
OXIDANT	.10	.20	.18	.14	.16	.17	.21	.25	.23	.31	.21	.17	.26	.21	.21	.16	.18	.18	.20	.20	.23	.22	.20	.18	.16	.23	.21	.20	.17	.13	.22	.31	.19	.33	10
CARBON MONOXIDE	6	6	4	5	5	5	6	6	9	7	7	6	6	6	6	6	7			6	6	7	6	4	4	6	6	6	6	6	6	9	5	11	9
NITROGEN DIOXIDE	.10	.10	.09	.09	.07	.09	.10	.10	.11	.15	.10	.06	.11	.08	.11	.08	.09	.06	.11	.11	.10	.08		.08	.08	.09	.10	.09	.07			.15	.09	.18	10
NITRIC OXIDE	.06	.13	.09	.05	.06	.09	.03	.05	.06	.02	.10	.06	.11	.03	.04	.05	.05	.04	.04	.02		.00		.04	.01	.02	.05					.13	.05	.15	11
OXIDES OF NITROGEN	.14	.19	.14	.12	.13	.14	.13	.11	.17	.16	.20	.11	.17	.09	.11	.11	.14	.08	.11	.12		.07	.11	.10	.09	.10	.11					.20	.12	.25	11
SANTA BARBARA																																			
OXIDANT	.05	.05	.04	.04	.03	.04	.03	.07	.06	.08	.06	.05	.03	.04	.08	.06	.06	.03	.03	.03	.06	.08	.04	.05	.06	.04	.04	.04	.09	.10	.07	.10	.05	.14	30
CARBON MONOXIDE	2	2	1	2	2	1	1	3	3	2	2	3	2	1	1	1				1	1	1	2	1		2	2	3	4	5	4	5	2	6	29
NITROGEN DIOXIDE	.05	.05	.05	.04	.03	.04	.04	.08	.05	.05	.05	.04	.05	.05	.05	.05	.05	.03	.03	.03	.05	.05	.04	.04	.04	.04	.04	.04	.07	.08	.06	.08	.04	.10	A 8
NITRIC OXIDE	.07	.06	.05	.05	.05	.06	.06	.26	.07	.24	.02	.04	.09	.03	.04	.05	.08	.05	.07	.05	.09	.10	.06	.06	.05	.06	.06	.08	.11	.03	.05	.26	.07	.40	10
OXIDES OF NITROGEN	.10	.10	.08	.08	.08	.09	.10	.30	.10	.24	.05	.08	.13	.07	.08	.10	.10	.08	.10	.10	.07	.12	.09	.10	.08	.10	.09	.11	.14	.10	.09	.30	.10	.40	8
HYDROCARBONS	16	6	6	11	8	7	5	11	8	7	7	9	10	4	3	4	4	8	3	3	3	4	5	3	5	6	4	7	6	8	15	16	6	27	31
OJAI																																			
OXIDANT	.12	.18	.16	.16	.15	.19	.20	.20	.18	.10																						.20	.16	.22	A 8
NITROGEN DIOXIDE	.08	.08	.10	.08	.06	.08	.08	.06	.06	.06	.06	.04	.08	.08	.05	.08	.06	.06	.07	.06	.05	.07	.08	.08	.09	.09	.09	.08	.06	.05	.06	.10	.07	.10	3
NITRIC OXIDE	.04	.02	.05	.04	.03	.07	.02	.02	.02	.02	.00	.00	.00	.00	.00	.00	.00	.06	.08	.06	.01	.04	.06	.05	.04	.02	.05	.03	.02	.00	.00	.08	.02	.08	6
OXIDES OF NITROGEN	.08	.10	.13	.10	.09	.12	.10	.08	.08	.08	.06	.04	.08	.08	.05	.08	.06	.09	.13	.11	.06	.10	.12	.12	.12	.08	.13	.10	.08	.05	.06	.13	.08	.16	A27
CAMARILLO																																			
OXIDANT	.11	.12	.15	.12	.08	.10	.10	.12	.10	.11	.10	.18	.08	.07	.09	.06	.08	.09	.07	.08	.10	.12	.10	.09	.13	.08			.17	.12	.09	.18	.10	.22	29
NITROGEN DIOXIDE	.04	.04	.05	.06	.04	.04	.04	.06	.05	.05	.06	.05	.04	.04	.04	.03	.04	.04	.03	.04	.02	.04	.02	.06	.04	.03	.05	.04	.04	.06	.04	.06	.04	.07	A 4
NITRIC OXIDE	.10	.12	.10	.05	.02	.03	.03	.12	.14	.16	.13	.15	.16	.04	.05	.02	.05	.08	.02	.02	.03	.13	.00	.02	.05	.03	.02	.06	.09	.01	.08	.16	.06	.24	A10
OXIDES OF NITROGEN	.12	.14	.12	.11	.06	.06	.07	.15	.18	.20	.17	.19	.19	.07	.09	.05	.08	.11	.04	.05	.05	.13	.02	.08	.09	.06	.04	.08	.12	.07	.11	.20	.10	.28	10
DOWNTOWN LOS ANGELES																																			
OXIDANT	.08	.10	.14	.13	.11	.10	.11	.13	.15	.15	.17	.11	.12	.10	.06	.07	.10	.06	.05	.08	.06	.10	.10	.10	.11	.11	.11	.07	.15	.12	.09	.17	.10	.21	11
CARBON MONOXIDE	10	8	4	4	4	8	8	10	16	11	8	14	14	12	8	7	8	6	9	8	8	7	6	3	4	6	8	8	10	14	8	16	8	19	12
SULFUR DIOXIDE	.02	.03	.02	.03	.04	.03	.02	.04	.05	.04	.03	.07	.04	.04	.04	.04	.03	.02	.03	.05	.02	.03	.03	.02	.02	.02	.04	.05	.04	.05	.04	.07	.03	.08	12
NITROGEN DIOXIDE	.15	.14	.11	.08	.09	.16	.16	.25	.31	.40	.17	.23	.32	.20	.10	.18	.17	.09	.10	.18	.12	.14	.12	.08	.07	.12	.19	.12	.21	.29	.15	.40	.16	.43	10
NITRIC OXIDE	.21	.14	.06	.07	.05	.14	.14	.26	.47	.37	.28	.36	.38	.24	.16	.13	.15	.14	.15	.18	.17	.10	.09	.03	.02	.10	.17	.15	.26	.36	.19	.47	.18		
OXIDES OF NITROGEN	.30	.22	.14	.15	.13	.24	.25	.43	.60	.52	.37	.50	.61	.40	.25	.23	.26	.21	.23	.26	.25	.22	.18	.11	.06	.17	.28	.24	.34	.50	.27	.61	.28	.64	13
HYDROCARBONS	4	4	3	3	3	4	4	5	6	6	5	7	7	5	4	4	5	5	4	4	4	4	4	3	3	4	5	4	4	6	4	7	4	8	A13
AZUSA																																			
OXIDANT	.19	.24	.19	.22	.19	.20	.26	.36	.36	.36	.30	.20	.33	.21	.21	.15	.23	.26	.25	.30	.30	.21	.20	.21	.22	.27	.30	.19	.22	.23	.28	.36	.24	.43	A10
CARBON MONOXIDE	5	5	5	5	6	5	6	6	7	6	6	8	7	5	6	7	6	7	6	6	6	7	6	5	4	6	6	5	5	5	7	8	5	9	10
SULFUR DIOXIDE	.03	.04	.05	.04	.05	.02	.05	.05	.06	.04	.05	.03	.03	.04	.02	.03	.03	.02	.05	.05	.04	.04	.05	.04	.05	.03	.04	.03	.05	.06	.05	.06	.04	.06	A 8
NITROGEN DIOXIDE	.12	.11	.12	.11	.11	.10	.10	.17	.16	.14	.10	.21	.18	.17	.11	.13	.13	.11	.13	.13	.16	.14	.12	.10	.11	.10	.13	.11	.09	.08	.11	.21	.12	.22	12
NITRIC OXIDE	.10	.08	.05	.07	.05	.07	.12	.13	.16	.10	.15	.18	.14	.09	.09	.08	.12	.13	.13	.08	.09	.04	.03	.03	.03	.07	.11	.13	.12	.16	.09	.18	.09	.27	11
OXIDES OF NITROGEN	.19	.17	.14	.16	.13	.17	.19	.23	.29	.23	.25	.34	.25	.22	.16	.14	.22	.20	.25	.18	.22	.16	.13	.13	.13	.13	.22	.20	.18	.23		.34	.19	.39	12
HYDROCARBONS	6	8	3	5	5	4	4	9	9	7	7	10	6	6	5	7	5	6	6	5	5	4	4	4	4	4	5	6	6	8	7	10	5	12	8
BURBANK																																			
OXIDANT	.12	.14	.14	.14	.12	.15	.18	.19	.21	.16	.18	.15	.25	.17	.11	.14	.17	.12	.12	.18	.17	.19	.17	.15	.15	.21	.20	.20	.21	.21	.19	.25	.16	.27	13
CARBON MONOXIDE	8	5	5	4		6	9	8	12			9	9	7	5	7	7	6	7	8	7		8	6	5	8	7	10	9	10	9	12	7	12	28
SULFUR DIOXIDE	.03	.02	.02	.03	.04	.03	.03	.03	.01	.01	.04	.04	.04	.04	.03	.04	.03	.04	.05	.03	.04	.03	.04	.04	.04	.02	.05	.04	.02	.02	.03	.05	.03	.08	A12
NITROGEN DIOXIDE	.20	.17	.15	.13	.16	.15	.22	.34	.36	.32	.21	.33	.39	.38	.26	.24	.27	.15	.24	.26	.23	.25	.22	.15	.15	.21	.28	.34	.24	.28	.31	.39	.24	.44	13
NITRIC OXIDE	.08	.08	.14	.18	.09	.07	.11	.27	.36	.43	.47	.43	.39	.34	.14	.18	.24	.15	.22	.14	.16	.11	.09	.05	.07	.10	.15	.28	.24	.27	.30	.47	.20	.49	11
OXIDES OF NITROGEN	.23	.19	.24	.29	.20	.18	.24	.46	.49	.58	.58	.56	.56	.48	.30	.32	.41	.25	.32	.29	.25	.31	.28	.18	.22	.24	.32	.43	.43	.45	.50	.58	.34	.62	A10
HYDROCARBONS	4	4	4	4	4	4	4	5	10	11	9	8	7	7	4	5	4	5	4	3	5	4	4	3	3	4	4	5	5	6	6	11	5	12	10

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
J U L Y																																			
SOUTH COAST BASIN																																			
WEST LOS ANGELES																																			
OXIDANT	.05	.06	.09	.10	.09	.10	.07	.08	.10	.11	.13	.09	.09	.08	.04	.05	.08	.04	.03	.05	.06	.11	.10	.11	.10	.07	.09	.08	.07	.14	.13	.14	.08	.17	31
CARBON MONOXIDE	5	5	5	5	5	5	5	7	9	9	9	8	5	4	4	5	6	3	4	4	4	6	5	3	4	4	5	6	7	8	4	9	5	13	A30
SULFUR DIOXIDE	.04	.02	.02	.03	.02	.03	.02	.05	.06	.05	.04	.03	.02	.02	.02	.02	.02	.03	.02	.04	.02	.03	.02	.03	.03	.01	.03	.05	.02	.04	.04	.06	.02	.06	10
NITROGEN DIOXIDE	.20	.12		.10	.12	.13	.09	.20	.33	.25	.23	.30	.17	.10	.14	.16	.20	.09	.10	.14	.05	.07	.10	.08	.07	.10	.17	.17	.14	.11	.11	.33	.14	.34	12
NITRIC OXIDE	.18	.09	.05	.08	.01	.01	.04	.16	.19	.28	.32	.20	.16	.12	.12	.19	.26	.06	.08	.15	.01	.01	.06	.02	.01	.04	.05	.07	.08	.19	.05	.32	.10	.42	11
OXIDES OF NITROGEN	.31	.20		.11	.13	.02	.12	.28	.49	.44	.39	.43	.26	.21	.24	.29	.35	.14	.18	.27	.06	.08	.14	.09	.08	.12	.20	.19	.19	.26	.15	.49	.21	.54	10
LONG BEACH																																			
OXIDANT	.04	.05	.07	.05	.05	.05	.06	.10	.06	.10	.13	.04	.07	.04	.04	.03	.04	.05	.06	.04	.06	.04	.06	.05	.06	.05	.03	.02	.03	.02	.06	.13	.05	.18	11
CARBON MONOXIDE	4	4	3	3	3	5	6	5	5	6	4	4	8	4	4	5	3	2	5	4	5	5	4	4	3	5	4	4	6	9	5	9	4	12	30
SULFUR DIOXIDE	.06	.06	.06	.05	.06	.05	.06	.09	.10	.20	.15	.03	.20	.03	.03	.03	.05	.06	.16	.08	.08	.04	.07	.04	.03	.08	.08	.07	.08	.05	.15	.20	.07	.67	A10
NITROGEN DIOXIDE	.11	.12	.09	.06	.09	.11	.12	.14	.15	.26	.18	.10	.13	.09	.07	.08	.09	.12	.20	.08	.18	.10	.10	.07	.07	.14	.14	.07	.10	.12	.19	.26	.11	.29	10
NITRIC OXIDE	.07	.05	.04	.01	.05	.07	.07	.11	.19	.15	.11	.12	.08	.07	.07	.10	.07	.04	.13	.04	.10	.10	.06	.01	.01	.08	.05	.10	.08	.17	.08	.19	.08	.24	10
OXIDES OF NITROGEN	.17	.16	.12	.07	.13	.15	.16	.18	.25	.31	.20	.21	.18	.15	.14	.18	.12	.16	.30	.09	.23	.18	.12	.08	.08	.18	.17	.17	.18	.22	.22	.31	.16	.35	10
RESEDA																																			
OXIDANT	.16	.19	.12	.14	.13	.14	.18	.21	.17	.12	.15	.17	.19	.22	.18	.12	.12	.15	.13	.18	.18	.18	.12	.13	.14	.19	.21	.20	.12	.16	.15	.22	.15	.24	14
CARBON MONOXIDE	5	6	5	5	4	6	5	7	11	12	9	10	7	7	6	6	6	6	6	5	6	5	5	3	4	5	6	8	9	7	9	12	6	13	10
SULFUR DIOXIDE	.03	.03	.01	.02	.01	.02	.02	.03	.02	.01	.01	.03	.02	.02	.02	.01	.01	.01	.02	.02	.02	.02	.02	.02	.02	.02	.03	.04	.04	.02	.02	.04	.02	.04	A28
NITROGEN DIOXIDE	.13	.13	.14	.13	.10	.10	.12	.17	.22	.17	.14	.18	.14	.16	.15	.15	.15	.12	.17	.12	.14	.12	.13	.09	.09	.11	.13	.15	.12	.15	.24	.24	.14		
NITRIC OXIDE	.12	.03	.02	.04	.02	.01	.07	.14	.18	.35	.24	.27	.14	.13	.03	.08	.09	.08	.08	.03	.03	.02	.02	.01	.01	.05	.09	.14	.23	.30	.60	.60	.11	.62	31
OXIDES OF NITROGEN	.22	.14	.16	.17	.12	.11	.19	.27	.36	.51	.38	.38	.26	.23	.18	.19	.18	.17	.21	.15	.16	.14	.15	.10	.10	.13	.15	.24	.31	.44	.72	.72	.23	.75	31
HYDROCARBONS	4	4	3	4	3	3	4	5	6	5	4	5	4	5	3	4	4	4	4	3	4	3	3	3	3	3	4	4	4	4	5	6	3	6	14
POMONA																																			
OXIDANT	.13	.16	.15	.16	.15	.15	.19	.24	.24	.34	.22	.11	.30	.07	.10	.07	.17	.19	.22	.24	.23	.18	.16	.17	.17	.25	.22	.17	.14	.12	.21	.34	.18	.36	10
CARBON MONOXIDE	4	4	4	3	3	4	4	5	6	7	5	6	5	7	5	4	5	4	5	5	5	5	5	4	3	4	5	4	5	5	7	7	4	10	A10
SULFUR DIOXIDE	.02	.04	.02	.03	.01	.03	.03	.04	.02	.04	.03	.03	.04	.01	.01	.02	.02	.02	.03	.01	.02	.02	.01	.02	.01	.02	.04	.02	.01	.03	.03	.04	.02	.07	A19
NITROGEN DIOXIDE	.26	.18	.11	.12	.11	.12	.14	.16	.17	.16	.14	.15	.16	.18	.14	.16	.16	.11	.12	.12	.16	.14	.11	.10	.08	.11	.16	.14	.14	.12	.12	.26	.14	.28	1
NITRIC OXIDE	.14	.12	.05	.05	.06	.07	.15	.21	.15	.24	.22	.28	.20	.16	.16	.18	.17	.16	.23	.14	.12	.06	.10	.03	.02	.07	.17	.11	.17	.16	.27	.28	.14	.49	12
OXIDES OF NITROGEN	.28	.29	.15	.15	.16	.16	.28	.31	.32	.37	.33	.35	.27	.33	.25	.28	.26	.23	.32	.25	.24	.20	.18	.12	.09	.17	.28	.21	.29	.23	.36	.37	.24	.57	12
HYDROCARBONS	3	3	2	2	2	2	3	4	4	4	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	3	5	A13
LENNOX																																			
OXIDANT	.07	.07	.09	.09	.08	.08	.06	.09	.04	.06	.08	.03	.05	.04	.01		.02	.03	.02	.05	.04	.06	.05	.05	.05	.05	.08	.07	.08	.09	.15	.15	.06	.16	31
CARBON MONOXIDE	7	4	4	3	4	6	5	8	13	12	5	13	6	6	7	10	5	3	6	7	8	8	6	4	3	8	8	8	7	11	4	13	6	17	A12
SULFUR DIOXIDE	.03	.05	.03	.05	.11	.08	.04	.08	.08	.07	.05	.15	.12	.07	.04	.05	.08	.06	.09	.11	.04	.04	.05	.03	.02	.03	.04	.05	.07	.08	.11	.15	.06	.22	12
NITROGEN DIOXIDE	.10	.10	.11	.11	.12	.14	.09	.15	.17	.24	.13	.28	.09	.10	.12	.11	.11	.06	.07	.10	.11	.11	.11	.06	.09	.10	.14	.11	.15	.14	.07	.28	.11	.33	12
NITRIC OXIDE	.28	.20	.12	.13	.09	.19	.21	.23	.52	.47	.13	.40	.12	.08	.19	.33	.17	.04	.11	.11	.11	.24	.22	.07	.05	.10	.18	.29	.28	.39	.07	.52	.19	.55	10
OXIDES OF NITROGEN	.35	.26	.22	.20	.18	.33	.28	.27	.60	.54	.25	.44	.20	.17	.31	.41	.24	.10	.17	.17	.17	.31	.28	.12	.13	.15	.25	.38	.35	.45	.14	.60	.27	.62	10
HYDROCARBONS	3	3	3	3	3	3	3	5	8	8	6	6	4	3	3	4	4	2	3	3	3	3	3	3	3	3	3	6	5	6	3	8	3	8	A10
REDONDO BEACH																																			
SULFUR DIOXIDE	.10	.07	.06	.08	.16	.11	.15	.07	.06	.05	.03	.04	.03	.05	.06	.07	.06	.02	.02	.03	.03	.05	.05	.06	.07	.03	.07	.15	.10	.11	.02	.16	.06	.29	28
PASADENA																																			
OXIDANT	.15	.21	.22	.20	.16	.18	.27	.27	.33	.33	.32	.18	.33	.18	.15	.13	.21	.18	.20	.23	.22	.20	.20	.17	.21	.25	.26	.15	.26	.27	.22	.33	.22	.38	A10
CARBON MONOXIDE	5	5	4	4	4	5	7	7	10	10	8	6	6	7	5	8	7	7	6	6	7	6	8	6	5	4	7	6	5	4	5	10	6	11	A10
SULFUR DIOXIDE	.03	.02	.01	.01	.02	.02	.01	.02	.04	.02	.03	.05	.04	.03	.02	.02	.02	.01	.02	.03	.04	.03	.03	.01	.02	.03	.03	.02	.03	.02	.01	.05	.02	.06	12
NITROGEN DIOXIDE	.12	.14	.12	.11	.14	.10	.12	.15	.14	.13	.10	.17	.13	.13	.10	.12	.12	.09	.13	.10	.23	.15	.14	.08		.11	.12	.13	.08	.06	.05	.23	.12	.24	21
NITRIC OXIDE	.06	.08	.07	.09	.04	.03	.08	.10	.09	.08	.08	.09	.10	.08	.06	.06	.10	.10	.06	.06	.07	.02	.04	.03	.06	.05	.08	.10	.08	.07	.07	.10	.07	.12	A 8
OXIDES OF NITROGEN	.15	.16	.17	.18	.15	.13	.15	.19	.20	.21	.18	.18	.15	.17	.12	.14	.15	.14	.14	.11	.28	.16	.17	.11		.13	.16	.16	.14	.09	.11	.28	.15	.30	21
HYDROCARBONS	4	4	3	3	3	3	3	4	4	4	5	5	4	4	3	3	4	5	3	4	4	3	3	3	3	3	4	4	4	4	6	6	3	7	31
WHITTIER																																			
OXIDANT	.08	.09	.10	.11	.08	.08	.18	.21	.18	.21	.26	.10	.22	.06	.06	.01	.13	.11	.11	.09	.12	.07	.09	.08	.09	.15	.15	.07	.13	.07	.21	.26	.11	.28	11
CARBON MONOXIDE	5	4	4	4	3	5	4	7	9	8	7	8	11	4	4	4	5	5	4	4	4	3	4	3	3	4	4	3	6	5	9	11	5	13	13
NITROGEN DIOXIDE	.11	.11	.12	.11	.11	.14	.10	.14	.17	.26	.18	.11	.21	.10	.08	.12	.13	.13	.16	.15	.17	.10	.14	.12	.12	.16	.14	.08	.16	.14	.17	.26	.13	.34	10
NITRIC OXIDE	.10	.07	.10	.08	.02	.04	.08	.24	.22	.22	.16	.21	.27	.10	.12	.09	.12	.14	.06	.06	.12	.07	.04	.06	.02	.04	.05	.14	.06	.14	.16	.27	.10	.32	13
OXIDES OF NITROGEN	.20	.15	.20	.17	.13	.18	.16	.33	.31	.30	.23	.27	.34	.18	.20	.19	.20	.21	.18	.18	.24	.15	.15	.18	.14	.19	.18	.20	.18	.20	.24	.34	.20	.39	13
HYDROCARBONS	5	5	3	3	3	3	3	6	6	8	5	7	7	4	2	4	5	6	4	3	4	3	3	2	3	3	4	4	4	4	7	8	4	8	10
NEWHALL																																			
OXIDANT	20	.22	.13	.16	.16	.15	.17	.18	.23	.05	.13	.16	.21	.25	.23	.15	.16	.12	.19	.24	.23	.28	.22	.18	.18	.21	.30	.27	.18	.19	.15	.30	.18	.32	27
CARBON MONOXIDE	6	6	6	5	4	6	5	5	6	3	6	5	5	7	7	6	4	5	6	6	8	7	6	5	4	6	7	7	7	6	4	8	5	14	7
NITROGEN DIOXIDE	.10	.09	.14	.10	.09	.13	.10	.11	.09	.04	.10	.08	.08	.11	.11	.14	.06	.08	.09	.13	.12	.10	.10	.10	.08	.14	.14	.14	.11	.09	.08	.14	.10	.17	A27
NITRIC OXIDE	.04	.06	.03	.04	.03	.08	.08	.05	.05	.01	.04	.05	.04	.07	.22	.05	.05	.03	.07	.05	.04	.07	.06	.04	.02	.04	.05	.04	.07	.06	.03	.22	.05	.26	15
OXIDES OF NITROGEN	.13	.15	.16	.13	.11	.20	.14	.14	.11	.05	.13	.13	.10	.13	.31	.18	.09	.10	.14	.14	.15	.11	.13	.12	.09	.18	.17	.16	.18	.14	.10	.31	.13	.35	15
HYDROCARBONS	4	5	5	4	4	5	4	4	3	3	4	4	4	4	5	4	5	4	4	5	4	4	5	6	5	5	4	5	4	4	4	6	4	6	24
LANCASTER																																			
OXIDANT	.10	.13	.08	.11	.09	.12	.11	.05	.03	.04	.10	.10	.10	.12	.14	.15	.08	.09	.07	.11	.10	.06	.11	.12	.13	.11	.12	.11	.08	.05		.15	.09	.17	16
CARBON MONOXIDE	4	2	2	3	2	3	2	2	2	1	2	3	3	3	4	3	2	1	4	2	3	1	2	3	3	3	3	3	4	2	1	4	2	8	A28
NITROGEN DIOXIDE	.08	.01	.01	.01	.01	.04	.05	.01	.01	.01	.01	.02	.01	.02	.02	.02	.02	.03	.04	.01	.05	.03	.02	.04	.02	.06	.05	.04	.04	.03	.02	.08	.02	.14	7
NITRIC OXIDE	.03	.01	.01	.01	.01	.01	.02	.01	.01	.01	.01	.02	.05	.04	.05	.01	.01	.01	.02	.01	.01	.01	.01	.02	.01	.01	.03	.03	.01	.02	.01	.05	.01	.09	A13
OXIDES OF NITROGEN	.10	.02	.02	.02	.02	.05	.06	.02	.02	.02	.02	.04	.06	.05	.07	.03	.03	.04	.06	.02	.06	.04	.03	.06	.03	.07	.08	.06	.05	.05	.03	.10	.04	.16	7
HYDROCARBONS	3	2	2	2	2	2	2	2	2	2	2	2	3	4	4	3	2	3	3	2	3	2	2	3	3	3	3	6	4	2	3	6	2	6	15

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
SAN DIEGO BASIN																
SAN DIEGO																
OXIDANT	.04	.05	.06	.05	.05	.03	.03	.04	.06	.12	.06	.05	.03	.03	.04	.03
CARBON MONOXIDE	3	3	1	3	3	3	3	5	9	9	7	6	2	2	1	2
NITROGEN DIOXIDE	.05	.06	.04	.04	.04	.04	.06	.05	.07	.05	.05	.04	.05	.04	.03	.03
NITRIC OXIDE	.06	.05	.02	.01	.01	.05	.05	.21	.24	.29	.13	.03	.05	.02	.02	.05
OXIDES OF NITROGEN	.10	.11	.06	.05	.05	.09	.10	.25	.28	.32	.16	.07	.08	.06	.04	.08
HYDROCARBONS	4	3	3	3	3	3	3	4	5	5	6	4	4	3	3	3
CHOLLAS HEIGHTS																
OXIDANT	.07	.07	.08	.07	.08	.05	.06	.08	.09	.13	.08	.05	.06	.04	.04	.03
NESTOR																
OXIDANT	.08	.08	.08	.08	.09	.06	.06	.06	.07	.09	.07	.06	.05	.05		
MISSION VALLEY																
OXIDANT	.09	.10	.09	.10	.09	.08	.08	.12	.18	.21	.14	.09	.08	.06	.08	.05
NITROGEN DIOXIDE	.09	.09	.03	.01	.01	.08	.05	.11	.08	.06	.07	.06	.08	.05	.08	.10
NITRIC OXIDE	.09	.20	.03	.02	.01	.07	.06	.07	.21	.10	.10	.04	.08	.04	.05	.10
OXIDES OF NITROGEN	.18	.29	.05	.03	.02	.15	.11	.16	.29	.15	.16	.10	.16	.09	.10	.20
OCEANSIDE																
OXIDANT	.04	.06	.06	.05		.04	.06	.09	.08	.13	.16	.06	.07	.05	.05	.08
SACTO VALLEY BASIN																
CHICO																
OXIDANT	.12	.11	.09	.09	.09	.10	.11	.11	.06	.07	.07	.07	.07	.09	.12	.11
CARBON MONOXIDE	2	3	2	3	3	3	2	2	2	3	4	4	5	4	3	2
NITROGEN DIOXIDE	.05	.06	.03	.04	.04	.05	.02	.02	.02	.05	.05	.06	.05	.06	.06	.04
NITRIC OXIDE	.01	.01	.00	.00	.00	.01	.00	.00	.01	.01	.02	.03	.05	.02	.00	.00
OXIDES OF NITROGEN	.05	.06	.03	.04	.04	.06	.02	.02	.03	.05	.07	.09	.10	.06	.06	.04
HYDROCARBONS	4	4	3	3	4	4	4	3	3	4	4	4	4	4	4	4
SACTO 13TH AND J ST																
OXIDANT	.09	.03	.08	.08	.08	.11	.06	.05	.03	.05	.05	.07	.05	.07	.08	.08
CARBON MONOXIDE	3	2	2	1	1	4	2	3	2			5	3	3	3	5
NITROGEN DIOXIDE	.06	.04				.08	.03	.02	.02	.02	.03	.14	.04	.10	.04	.09
NITRIC OXIDE	.07	.04				.02	.02	.03	.05	.03	.03	.08	.07	.07	.02	.03
OXIDES OF NITROGEN	.08	.06				.09	.04	.05	.06	.04	.05	.14	.10	.11	.04	.09
HYDROCARBONS	4	4	3	4	4	4	3	3	3	3	4	5	6	7	3	3
SACTO CREEKSIDE																
OXIDANT	.13	.10	.11	.11	.10	.15	.07		.02	.06	.06	.07		.10	.12	.15
SACTO 10TH AND P ST.																
OXIDANT	.12	.13	.12	.14	.10	.18	.07	.06	.03	.06	.11	.07	.06	.10	.12	.11
CARBON MONOXIDE							1	2	2	1	1	4	5	5	3	3
NITROGEN DIOXIDE	.06	.04	.04	.03	.05	.05	.04	.03	.03	.03	.05	.14	.06	.10	.04	.08
NITRIC OXIDE	.02	.03	.04	.01	.01	.03	.01	.01	.04	.01	.01	.04	.10	.14	.01	.01
OXIDES OF NITROGEN	.06	.06	.07	.03	.05	.05	.05	.04	.05	.04	.05	.10	.14	.21	.04	.08
HYDROCARBONS	4	4	3	3	3	3	2									
REDDING																
OXIDANT	.07	.06	.08	.07	.07	.07	.12	.08	.05	.05	.06	.08	.08	.10	.15	.16
CARBON MONOXIDE	3	3	2	2	2	2	2	2	3	2	3	3	3	3	3	6
NITROGEN DIOXIDE	.02	.03	.01	.01	.01	.02	.02	.03	.02	.01	.03	.03	.02	.04	.04	.09
NITRIC OXIDE	.00	.00	.00	.00	.00	.01	.01	.02	.02	.00	.01	.00	.00	.00	.00	.01
OXIDES OF NITROGEN	.02	.03	.01	.01	.01	.02	.03	.05	.03	.01	.03	.03	.02	.04	.04	.10
HYDROCARBONS	3	3	2	2	3	2	4	4	3	3	3	3	3	3	4	5
YUBA CITY																
OXIDANT																
NITROGEN DIOXIDE																
NITRIC OXIDE																
OXIDES OF NITROGEN																
SAN JOAQ VALLEY BASIN																
FRESNO COURT ROOF																
OXIDANT	.08	.08	.09	.08	.09	.09	.08	.06	.07	.07	.09	.10	.17	.18	.14	.15
CARBON MONOXIDE	2	3	1	1	1	3	2	1	2	1	1	3	2	2	3	4
NITROGEN DIOXIDE	.05	.10	.05	.05	.04	.07	.04	.03	.03	.03	.04	.10	.05	.06	.07	.10
NITRIC OXIDE	.01	.02	.03	.00	.00	.00	.00	.01	.01	.00	.00	.06	.00	.01	.04	.03
OXIDES OF NITROGEN	.06	.10	.07	.05	.04	.07	.04	.04	.03	.03	.04	.14	.05	.06	.10	.11
HYDROCARBONS	3	3	3	3	3	3	3	3	2	2	2	4	3	3	3	4
BKRSFLD GOLDEN STATE																
OXIDANT	.08	.07	.06	.08	.06	.06	.06	.03	.03	.04	.04	.07	.08	.10	.10	.08
CARBON MONOXIDE	3	3	2	3	3	3	3	2	3	2	4	5	5	6	4	3
NITROGEN DIOXIDE	.08	.06	.05	.07	.07	.06	.06	.05	.04	.04	.07	.09	.08	.09	.08	.07
NITRIC OXIDE	.08	.05	.03	.05	.00	.01	.04	.05	.05	.01	.05	.14	.06	.06	.04	.03
OXIDES OF NITROGEN	.16	.10	.07	.10	.04	.07	.07	.10	.09	.04	.11	.18	.12	.13	.12	.09
HYDROCARBONS	7	5	6	7	8	6	5	7	5	4	7	9	9	11	7	6

PLACE AND CONTAMINANT	DAY OF MONTH 17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
SAN DIEGO BASIN																			
SAN DIEGO																			
OXIDANT	.05	.04	.03	.03	.04	.03	.04	.05		.05	.05	.03	.03	.04	.05	.12	.04	.12	10
CARBON MONOXIDE	4	4	4	2	2	4	5	2	3	7	6	5	4	9	6	9	4	10	A 9
NITROGEN DIOXIDE	.05	.04	.05	.05	.04	.03	.04	.03		.05	.06	.04	.05	.07	.05	.07	.04	.08	A 8
NITRIC OXIDE	.10	.03	.06	.03	.03	.03	.05	.02		.04	.04	.03	.04	.12	.06	.29	.06	.35	8
OXIDES OF NITROGEN	.13	.07	.11	.08	.07	.05	.09	.05		.09	.08	.06	.09	.18	.11	.32	.10	.40	8
HYDROCARBONS	4	3	3	3	3	3	3	3		5	3	3	3	4	3	6	3	11	11
CHOLLAS HEIGHTS																			
OXIDANT	.07	.07	.05	.06	.05	.04	.06	.06	.06	.06	.07	.05	.05	.08	.11	.13	.06	.14	10
NESTOR																			
OXIDANT	.06	.05	.04	.05	.05	.05	.06	.06	.06	.07	.08	.06	.06	.04	.06	.09	.06	.10	A10
MISSION VALLEY																			
OXIDANT	.08	.07	.05	.06	.07	.08	.07	.07	.07	.08	.07	.07	.08	.09	.09	.21	.08	.22	10
NITROGEN DIOXIDE	.02	.00	.07	.05	.05	.07	.09	.04	.04	.06	.07	.05	.08	.10	.04	.11	.06	.12	6
NITRIC OXIDE	.04	.02	.06	.01	.09	.04	.05	.02	.01	.09	.06	.03	.06	.13	.06	.21	.06	.28	2
OXIDES OF NITROGEN	.05	.02	.12	.03	.13	.11	.14	.06	.03	.15	.11	.07	.13	.23	.09	.29	.11	.35	A30
OCEANSIDE																			
OXIDANT	.06	.08	.07	.06	.07	.06	.07	.06	.08	.07	.08	.07	.06	.06	.05	.16	.06	.19	11
SACTO VALLEY BASIN																			
CHICO																			
OXIDANT	.12	.10	.12	.12	.11	.13	.10	.12	.11	.12	.13	.14	.12	.12	.14	.14	.10	.15	A28
CARBON MONOXIDE	3	3	2	2	3	2	2	1	2	3	3	2	2	3	3	5	2	8	21
NITROGEN DIOXIDE	.05	.05	.04	.03	.05	.03	.05	.02	.02	.05	.05	.02	.03	.05	.06	.06	.04	.08	A15
NITRIC OXIDE	.01	.00	.01	.01	.01	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.05	.00	.07	13
OXIDES OF NITROGEN	.06	.05	.04	.03	.06	.03	.05	.02	.02	.05	.05	.02	.03	.05	.06	.10	.04	.12	13
HYDROCARBONS	4	4	4	4	4	4	4	3	3	4	3	3	4	4	4	4	3	5	A 2
SACTO 13TH AND J ST																			
OXIDANT	.06	.07	.07	.06	.06	.07	.05	.05	.06	.07	.07	.05	.06	.06	.07	.11	.06	.12	6
CARBON MONOXIDE	4	2	3	4	4	3	2	2	2	3	4	3	3	4	5	5	3	8	A 1
NITROGEN DIOXIDE	.05	.03	.05	.03	.03	.03	.03	.02	.03	.05	.04	.04	.04	.05	.03	.14	.04	.16	12
NITRIC OXIDE	.00	.01	.06	.04	.04	.04	.01	.03	.01	.03	.03	.04	.04	.04	.04	.08	.03	.12	12
OXIDES OF NITROGEN	.05	.04	.10	.07	.06	.05	.04	.04	.03	.07	.06	.07	.06	.07	.06	.14	.06	.16	12
HYDROCARBONS	4	3	4	4	4	4	4	3	3	4	3	3	3	4	4	7	3	14	14
SACTO CREEKSIDE																			
OXIDANT	.07	.13	.10	.08	.10	.08	.08	.08	.08	.12	.13	.09	.09	.09	.09	.15	.09	.18	A 6
SACTO 10TH AND P ST.																			
OXIDANT	.09	.10	.10	.08	.08	.11	.08	.09	.08	.18	.11	.10	.09	.10	.11	.18	.09	.20	A 6
CARBON MONOXIDE	1	1	2	2	2	2	1	1	1	2	3	3	2	2	2	5	2	8	A13
NITROGEN DIOXIDE	.04	.03	.06	.04	.04	.04	.03			.04	.03	.03	.03	.05	.04	.14	.04	.16	12
NITRIC OXIDE	.01	.00	.02	.02	.03	.04	.02			.02	.02	.01	.02	.02	.01	.14	.02	.16	14
OXIDES OF NITROGEN	.05	.03	.08	.05	.06	.06	.05			.06	.04	.04	.03	.06	.04	.21	.06	.24	14
HYDROCARBONS																4	3	10	A 1
REDDING																			
OXIDANT	.12	.15	.12	.10	.10	.10	.11	.14	.15	.14	.13	.14	.16	.14	.15	.16	.10	.17	A15
CARBON MONOXIDE	4	3	2	2	2	3	3	4	3	4	4	4	6	4	2	6	3	10	A16
NITROGEN DIOXIDE	.05	.03	.02	.05	.02	.05	.07	.07	.08	.06	.07	.08	.06	.08	.06	.09	.04	.10	16
NITRIC OXIDE	.00	.00	.01	.00	.00	.01	.01	.00	.01	.00	.00	.01	.03	.02	.00	.03	.00	.05	16
OXIDES OF NITROGEN	.05	.03	.02	.05	.02	.06	.07	.07	.09	.06	.07	.08	.09	.10	.06	.10	.04	.15	A16
HYDROCARBONS	4	4	4	3	3	4	3	4	3	4	3	3	4	4	3	5	3	8	7
YUBA CITY																			
OXIDANT				.12	.11	.16	.12	.11	.10	.11	.11	.12	.11	.12	.12	.16	.11	.17	22
NITROGEN DIOXIDE				.02	.02	.02	.03	.02	.02	.03	.02	.02	.03	.03	.03	.03	.02	.04	A23
NITRIC OXIDE				.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
OXIDES OF NITROGEN				.02	.02	.02	.03	.02	.02	.03	.02	.02	.03	.03	.03	.03	.02	.04	A23
SAN JOAQ VALLEY BASIN																			
FRESNO COURT ROOF																			
OXIDANT	.09	.12	.15	.17	.12	.10	.09	.10	.10	.14	.17	.14	.11	.09	.09	.18	.10	.20	14
CARBON MONOXIDE	3	1		3	1	1	2	1	1	2	3	2	2	2	2	4	1	4	2
NITROGEN DIOXIDE	.09	.05	.07	.07	.05	.04	.06	.04	.04	.08	.09	.06	.06	.05	.06	.10	.05	.12	A12
NITRIC OXIDE	.01	.00	.01	.02	.01	.01	.01	.01	.00	.02	.01	.01	.03	.00	.08	.08	.01	.09	31
OXIDES OF NITROGEN	.09	.05	.08	.08	.06	.05	.06	.05	.04	.08	.09	.06	.08	.05	.13	.14	.06	.17	12
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	4	4	3	3	4	4	3	6	A13
BKRSFLD GOLDEN STATE																			
OXIDANT	.05		.07	.09	.06	.08	.05	.08	.08	.07	.08	.09	.10	.09	.08	.10	.07	.12	A15
CARBON MONOXIDE	3	3	6	5	4	3	6	5	3	8	5	7	4	4	4	8	4	16	14
NITROGEN DIOXIDE	.08	.09	.08	.08	.10	.08	.08	.07	.09	.11	.10	.09	.09	.08	.08	.11	.07	.11	26
NITRIC OXIDE	.02	.04	.09	.03	.07	.05	.10	.05	.05	.16	.06	.16	.02	.02		.16	.05	.20	A26
OXIDES OF NITROGEN	.09	.13	.16	.10	.16	.12	.17	.11	.12	.26	.13	.25	.10	.08		.26	.11	.30	26
HYDROCARBONS	6	8	8	6	8	10	8	6	7	8	12	8	6	6	8	12	7	16	25

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
JULY																																			
SAN JOAQ VALLEY BASIN																																			
BAKERSFIELD																																			
OXIDANT	.12	.13	.11	.14	.13	.13	.12	.07	.10	.02		.15	.16	.20	.22	.17	.14	.14	.13		.10	.12	.09	.12	.12	.13	.14	.14	.14	.13	.22	.13	.26	15
NITROGEN DIOXIDE	.11	.08	.08	.09	.09	.10	.07	.07	.08	.03		.11	.11	.11	.12	.08	.07	.11	.05		.08	.08	.08	.08	.10	.11	.11	.11	.09	.09	.12	.08	.13	15
NITRIC OXIDE	.13	.04	.05	.06	.16	.05	.02	.14	.08	.00		.10	.08	.10	.04	.03	.00	.03	.03		.02	.02	.02	.02	.10	.11	.08	.08	.11	.05	.03	.06	.22	23
OXIDES OF NITROGEN	.23	.09	.12	.15	.25	.15	.07	.21	.15	.03		.20	.18	.21	.15	.09	.07	.14	.08		.10	.09	.22	.10	.17	.18	.17	.22	.16	.13	.12	.25	.14	30	8
STOCKTON HAZELTON ST																																			
OXIDANT	.07	.07	.07	.06	.06	.07	.04	.04	.05	.04	.05	.05	.06	.12	.09	.10	.08	.14	.06	.06	.06	.05	.07	.05	.06	.07	.09	.06	.06	.06	.08	.14	.06	.15	18
CARBON MONOXIDE	2	2	1	3	2	2	1	2	2	2	2	2	2	3	2	1	1	2	2	2	2	3	2	2	2	2	2	2	2	2	2	3	1	6	A12
NITROGEN DIOXIDE	.04	.03	.04	.03	.04	.03	.04	.04	.03	.03	.03	.04	.05	.06	.05	.06	.00	.04	.06	.05	.05	.04	.06	.05	.04	.06	.04	.04	.03			.06	.04	.09	A15
NITRIC OXIDE	.02	.02	.05	.01	.01	.01	.01	.01	.03	.02	.04	.03	.04	.01	.01	.00	.00	.02	.02	.00	.00	.02	.00	.01	.04	.00	.01	.02	.00			.05	.01	.09	3
OXIDES OF NITROGEN	.06	.04	.09	.03	.05	.03	.04	.04	.06	.05	.06	.06	.08	.07	.05	.06	.04	.08	.06	.05	.05	.05	.06	.03		.06	.04	.05	.03	.06	.07	.09	.05	.15	10
HYDROCARBONS	4	3	3	3	4	3	4	3	3	4	4	5	5	6	4	3	3	7	4	4	4	4	3	3	3	3	3	4	3	3	4	7	3	9	14
STOCKTON HOTEL																																			
CARBON MONOXIDE	7	6	5	3		7	5	5	5	3	2	6	7	8	7	7	4	2	5	6	5	5	6	5	2	6	7	6	5	6	3	8	5	23	6
MODESTO																																			
OXIDANT	.16	.11	.15	.13	.16	.14	.07	.07	.05	.09	.10	.10	.16	.18	.17	.22	.09	.21	.18	.16	.16	.15	.12	.11	.13	.17	.15	.10	.10	.13	.14	.22	.13	.23	16
CARBON MONOXIDE	2	2	2	2	2	2	2	2	3	2	1	2	3	2	2	2	3	1	2	2	3	2	2	1	2	2	2	1	2	2	2	3	2	4	A 2
NITROGEN DIOXIDE	.04	.04	.03	.04	.04	.03	.03	.03	.03	.04	.04	.06	.06	.05	.04	.04	.04	.04	.02	.04	.03	.04	.04	.03	.04	.06	.04	.04	.02	.04	.04	.06	.04	.07	A12
NITRIC OXIDE	.02	.02	.01	.01	.01	.01	.02	.01	.01	.01	.05	.03	.07	.04	.01	.03	.02	.01	.02	.02	.01	.01	.04	.01	.04	.01	.01	.02	.01	.02	.04	.07	.01	.09	13
OXIDES OF NITROGEN	.05	.04	.04	.04	.05	.04	.04	.03	.03	.05	.05	.07	.11	.09	.04	.06	.04	.08	.04	.05	.04	.05	.07	.04	.04	.06	.05	.04	.05	.05	.07	.11	.05	.14	13
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	3	4	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	3	6	A12
VISALIA																																			
OXIDANT	.12	.11	.11	.09	.10	.11	.10	.09	.08	.07	.09	.12	.12	.11	.12	.12	.10	.12	.11	.16	.11	.10	.11	.11	.11	.13	.15	.13	.12	.10	.10	.16	.10	.19	20
CARBON MONOXIDE	3	4	4	4	3	4	4	5	5	4	5	6	5	5	5	6	7	6	6	6	7	7	6	6	6	5	5	4	4	4	4	7	5	9	A21
NITROGEN DIOXIDE	.03	.04	.04	.04	.05	.04	.03	.03	.03	.03	.06	.05	.05	.06	.03	.03	.03	.03	.03	.03	.07	.03	.05	.03	.03	.03	.03	.04	.03	.04	.05	.07	.03	.09	21
NITRIC OXIDE	.01	.01	.00	.01	.00	.00	.01	.02	.02	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.01	.01	.00	.01	.00	.00	.00	.00	.01	.00	.00	.02	.00	.03	A21
OXIDES OF NITROGEN	.04	.05	.04	.04	.05	.04	.03	.04	.04	.03	.06	.05	.05	.07	.03	.03	.03	.03	.03	.03	.07	.04	.05	.03	.03	.03	.03	.03	.04	.05	.04	.07	.04	.12	A21
HYDROCARBONS	3	6	3	3	3	3	3	3	3	3	3	5	5	4	3	3	3	3	3	3	5	3	3	3	3	3	3	4	4	3	7	4	3	28	2
SE DESERT BASIN																																			
BANNING																																			
OXIDANT	.12	.10	.06	.08	.08	.07	.13	.13	.11	.16	.10	.05	.15	.10	.07	.09	.07	.11	.15	.07	.14	.10	.10	.06	.10	.13	.13	.16	.07	.08	.14	.16	.10	.19	A19
SULFUR DIOXIDE																																.vb	.03	.uv	A10
NITROGEN DIOXIDE	.06	.06	.05	.04	.05	.04	.04	.04	.05	.06	.02	.04	.04	.05	.05	.02	.02	.02	.02	.04	.04	.03	.04	.02	.02	.03	.02	.02	.02	.03	.03	.04	.02		
NITRIC OXIDE	.04	.02	.02	.02	.01	.03	.02	.01	.02	.03	.01	.01	.03	.05	.02	.02	.02	.02	.02	.02	.03	.02	.02	.02	.02	.02	.01	.03	.02	.04	.04	.04	.02	.11	1
OXIDES OF NITROGEN	.10	.07	.06	.05	.05	.05	.06	.05	.06	.08	.02	.05	.05	.07	.07	.04	.05	.06	.06	.05	.07	.05	.04	.04	.04	.04	.04	.05	.04	.07	.07	.10	.05		
PALM SPRINGS																																.21	.14	.23	A10
OXIDANT	.21	.18	.14	.13	.10	.13	.16	.17	.14	.21	.12	.09	.16	.12	.11	.07	.14	.16	.17													16	9	17	A12
CARBON MONOXIDE	10	10	5	5	5	9	7	12	11	8	6	16	16	13	13	12																.00			
SULFUR DIOXIDE																																.02	.01	.02	A 9
NITROGEN DIOXIDE								.00	.01	.01	.01	.02	.02	.02	.01	.01	.01	.01	.00	.01												.01	.00		
NITRIC OXIDE									.00	.00	.01	.00	.00	.01	.00	.00	.00	.00	.01													.02	.01	.02	A10
OXIDES OF NITROGEN								.01	.01	.00	.01	.02	.01	.02	.01	.01	.01	.03														.02	.01	.02	3
HYDROCARBONS	4	4	6	4	4	4	3	3	4	3	3	5	4	4	5	4	7	6	4													7	4	8	
INDIO																																			
OXIDANT	.24	.20	.12	.13	.16	.12	.21	.22	.22	.30	.16	.10	.16	.14	.09	.07	.05			.21	.19	.24	.17	.20	.16	.16	.15	.18	.12	.10	.12	.18	.30	.16	.31	10
NITROGEN DIOXIDE	.01	.01	.05	.01	.01	.02	.02	.02	.03	.02	.04	.03	.04	.01	.01	.02	.02			.01	.03	.03	.02	.02	.01	.02	.01	.02	.01	.01	.02	.03	.05	.02	.06	3
NITRIC OXIDE																																	.00			
OXIDES OF NITROGEN																																	.00			
VICTORVILLE																																			
OXIDANT	.12	.13	.12	.10	.10	.08	.10	.09	.11	.11	.10	.08	.09	.09	.03	10	.07	.08	.10	.08	.05	.09	.10	.07	.07	.09	.10	.10	.09	.10	.07	.13	.09	.14	2

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
A U G U S T																																			
SF BAY AREA BASIN																																			
WALNUT CREEK																																			
OXIDANT		.03	.03	.03	.04	.05	.05	.05	.07	.15	.08	.04	.03	.05	.03	.07	.04	.11	.05	.04	.02	.03	.11	.08	.06	.05	.06	.07	.06	.05	.07	.15	.05	.17	10
RICHMOND																																			
OXIDANT	.03	.02	.02	.02	.02	.03	.03	.03	.03	.03	.03	.02	.02	.03	.02	.03	.02	.04	.03	.02	.02	.02	.08	.03	.03	.04	.04	.04	.03	.03	.04	.08	.02	.09	23
CARBON MONOXIDE	2	2	3	3	3	3	3	4	1	2	2	3	3	3	3	3	2						3	2	2	2	2	1		4	4	4	2	5	A31
SULFUR DIOXIDE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	.00	.00	.01	.03	.00	.00	.02	.00	.04	.05	.07	.13	.22	.22	.01	.34	31
NITROGEN DIOXIDE	.01	.01	.01	.01	.02	.01	.03	.02	.02	.03	.02	.02	.01	.01	.02	.02	.02	.05	.02	.02	.01	.02	.05	.02	.02	.01	.03	.03	.02	.02	.03	.05	.02	.06	A18
NITRIC OXIDE	.02	.02	.00	.02	.01	.02	.00	.02	.01	.01	.00	.01	.02	.01	.01	.02	.01	.01	.01	.02	.03	.01	.05	.02	.01	.01	.03	.03	.03	.01	.07	.07	.01	.12	31
OXIDES OF NITROGEN	.03	.03	.01	.03	.03	.03	.03	.03	.03	.03	.02	.03	.03	.02	.02	.04	.03	.06	.02	.03	.04	.03	.10	.03	.02	.02	.06	.05	.05	.03	.09	.10	.03	.15	31
HYDROCARBONS	2	2	2	3	3	3	3	4	3	3	2	2	2	3	3	3	3	3	3	3	3	3	4	3	4	3	5	6	5	5	6	6	3	8	A27
PITTSBURG																																			
OXIDANT	.11	.08	.05	.04	.05	.07	.05	.05	.06	.15	.13	.07	.06	.09	.06	.35	.08	.14	.07	.05	.04	.03	.10	.07	.07	.06	.07	.06	.07	.05	.05	.15	.07	.17	10
CARBON MONOXIDE	3	3	2	2	2	2	2	3	4	3	3	4	3	3	4	6	5	3	2	2	2	2	3	3	2	2	3	2	2	3	4	6	2	6	16
NITROGEN DIOXIDE	.05	.04	.02	.03	.05	.05	.04	.03	.04	.05	.04	.02	.04	.03	.02	.05	.06	.05	.03	.03	.02	.03	.04	.05	.03	.02	.03	.02	.02	.02	.03	.06	.03	.07	24
NITRIC OXIDE	.04	.04	.02	.02	.02	.02	.02	.01	.01	.02	.01	.02	.02	.02	.01	.02	.03	.05	.03	.02	.02	.01	.07	.02	.03	.03	.02	.02	.02	.02	.02	.07	.02	.08	18
OXIDES OF NITROGEN	.07	.07	.03	.04	.05	.05	.04	.03	.04	.06	.05	.04	.05	.04	.03	.06	.07	.07	.05	.05	.03	.03	.10	.05	.05	.04	.05	.03	.03	.03	.04	.10	.04	.13	23
HYDROCARBONS	5	5	4	4	5	5	5	4	5	5	5	5	5	5	4	4	5	6	4	4	4	4	5	5	5	4	4	4	4	4	4	6	4	9	18
NORTH RICHMOND																																			
SULFUR DIOXIDE	.00	.00	.00	.03	.11	.12	.03	.00	.00	.00	.12	.01	.09	.09	.00	.01	.00	.20	.12	.12	.15	.02	.23	.01	.12	.06	.05	.07	.28	.09	.03	.28	.06	.74	20
POINT RICHMOND																																			
SULFUR DIOXIDE	.01	.00	.01	.00	.00	.00	.00																	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01	A 1
SAN RAFAEL																																			
OXIDANT	.04	.02	.02	.02	.02	.02	.04	.04	.03	.04	.02	.01	.01	.02	.02	.02	.02	.02	.03	.01	.01	.01	.06	.03	.02	.02	.04	.03	.03	.04	.04	.06	.02	.08	23
CARBON MONOXIDE	3	3	3	3	2	4	1	2	2	2	2	2	2	2	1	2	1	1	2	3	2	2	4	5	4	4	4	2	2	3	2	5	2	8	24
NITROGEN DIOXIDE	.02	.02	.02	.03	.02	.03	.02	.02	.03	.05	.03	.03	.02	.02	.02	.02	.02	.02	.03	.01	.01	.02	.05	.04	.03	.03	.03	.02	.02	.03	.03	.05	.02	.07	A10
NITRIC OXIDE	.06	.07	.05	.07	.07	.07	.03	.04	.05	.03	.03	.02	.03	.02	.03	.05	.02	.02	.02	.02	.02	.02	.04	.16	.05	.07	.14	.02	.04	.13	.05	.16	.04	.26	24
OXIDES OF NITROGEN	.08	.08	.07	.09	.08	.09	.04	.05	.07	.07	.05	.03	.04	.04	.05	.07	.03	.04	.04	.03	.03	.04	.07	.19	.07	.08	.16	.04	.05	.15	.08	.19	.06	.29	24
HYDROCARBONS	4	5	4	5	4	6	5	4	6	5	5	3	5	3	3	4	4	4	4	4	4	4	4	5	6	3	3	2	2	3	3	6	4	7	A24
NAPA																																			
CARBON MONOXIDE																	3	1					2	4	2	2	2	3	2	3	3	4	2	12	27
NAPA SOLANO HIGHWAY																																			
OXIDANT																	.03	.05	.02	.02	.01	.01	.05	.04	.03	.02	.02	.03	.02	.02	.03	.05	.02	.05	A18
REDWOOD CITY																																			
OXIDANT	.05	.02	.03	.03	.03	.07	.05	.04	.03	.06	.05	.04	.04	.04	.03	.04	.03	.06	.04	.02	.02	.03	.13	.06	.07	.07	.05	.05	.05	.05	.05	.13	.04	.15	23
CARBON MONOXIDE	4	4	2	3	3	3	4	3	5	3	3	2	3	3	3	3	2	2	2	3	4	3	5	5	3	3	2	3	3	3	2	5	3	7	A 9
NITROGEN DIOXIDE	.05	.06	.08	.04	.04	.07	.05	.06	.07	.08	.05	.05	.03	.04	.02	.05	.04	.06	.04	.02	.02	.04	.10	.10	.07	.04	.04	.04	.03	.06	.07	.10	.05	.13	A23
NITRIC OXIDE	.07	.05	.04	.05	.06	.05	.16	.13	.12	.04	.03	.06	.04	.03	.06	.04	.04	.04	.04	.04	.02	.02	.06	.09	.03	.03	.04	.04	.01			.16	.05	.19	7
OXIDES OF NITROGEN	.10	.08	.08	.07	.08	.09	.18	.15	.16	.09	.06	.07	.06	.06	.08	.07	.06	.07	.07	.05	.04	.06	.12	.15	.07	.07	.07	.07	.04			.18	.08	.21	7
HYDROCARBONS	4	4	4	4	3	4	4	4	4	3	3	3	3	4	4	4	3	4	3	3	5	4	5	6	3	4	3	3	3	5	4	6	3	7	24
BURLINGAME																																			
OXIDANT	.01	.01	.01	.01	.01	.02	.02	.01	.01	.01	.03	.01	.01	.02	.01	.02		.03	.03				.05	.01	.01	.02	.01	.02	.02	.02	.03	.05	.01	.06	23
CARBON MONOXIDE	4	4	4	3	3	3	4	4	3	5	3	3	3	4	4	4	5	4	5	4	4	4	5	6	4	3	3	4	3	3	3	6	3	7	17
HYDROCARBONS	5	4	4	3	3	4	4	4	4	4	5	4	4			5	5	4	4	3	4	4	6	4	4	4	4	3	2	3	2	6	3	6	1
SAN JOSE ALMA ST.																																			
OXIDANT	.05	.04	.03	.03	.05	.07	.03	.03	.05	.13	.07	.05	.05	.06	.03	.04	.03	.08	.06	.02	.03	.02	.09	.04	.07	.06	.05	.04	.03	.04	.04	.13	.04	.17	10
CARBON MONOXIDE	5	6	3	4	3	5	3	4	8	7	4	3	5	4	5	6	6	4	4	4	4	4	5	6	4	5	4	5	4	6	4	8	4	12	9
NITROGEN DIOXIDE	.07	.06	.07	.04	.05	.10	.06	.04	.11	.17	.06	.05	.04	.06	.04	11	.09	.06	.07	.04	.02	.02	.08	.12	.08	.06	.06	.04	.03	.04	.04	.17	.06	.20	10
NITRIC OXIDE	.10	.13	.04	.08	.07	.07	.08	.10	.14	.07	.05	.05	.12	.11	.15	08	.08	.06	.06	.09	.05	.08	.10	.09	.08	.09	.05	.13	.14	.16	.09	.16	.09	.18	9
OXIDES OF NITROGEN	.11	.16	.10	.10	.08	.10	.09	.11	.19	.17	.06	.07	.13	.13	.17	14	.12	.08	.07	.12	.07	.10	.12	.15	.11	.12	.09	.15	.16	.19	.13	.19	.11	.25	A 9
HYDROCARBONS	5	5	3	4	3	4	4	4	6	6	3	3	4	4	4	4	5	4	3	4	4	4	5	5	4	4	3	5	4	5	5	6	4	10	A31
FAIRFIELD																																			
OXIDANT		.07	.06	.05	.05	.07	.07	.07	.08	.10	.06	.05	.06	.08	.05	.06	.07	.11	.05	.03	.02	.03	.06	.05	.05	.04	.05	.03	.03	.04	.05	.11	.05	.11	10
VALLEJO TRAILER																																			
OXIDANT	.06	.02	.03	.04	.05	.06	.06	.08	.07	.09	.04	.02	.02	.05	.03	.06	.02	.07	.03	.02	.03	.03	.11	.05	.03	.04	.05	.05	.04	.04	.05	.11	.04	.12	23
CARBON MONOXIDE	2	2	2	2	2	2	2	2	2	3	1	1	2	2	2	2	2	2	1	1	1	1	2	2	1	1	1	1	1	3	2	3	1	4	A30
NITROGEN DIOXIDE	.04	.03	.03	.02	.03	.04	.03	.03	.04	.05	.03	.03	.04	.03	.03	.03	.04	.04	.02	.02	.01	.02	.04	.03	.02	.02	.02	.01	.01	.02	.01	.05	.02	.05	9
NITRIC OXIDE	.02	.01	.02	.01	.02	.02	.02	.04	.03	.02	.01	.02	.02	.02	.02	.02	.04	.02	.00	.01	.01	.03	.03	.02	.01	.00	.00	.00	.00	.00	.01	.04	.01	.05	A 8
OXIDES OF NITROGEN	.05	.04	.03	.02	.04	.04	.04	.06	.06	.05	.03	.04	.05	.05	.05	.04	.06	.04	.02	.02	.02	.05	.06	.04	.02	.02	.02	.01	.01	.02	.02	.06	.03	.08	A 9
HYDROCARBONS	4	4	3	4	3	4	4	5	4	4	3	3	3	3	3	4	4	4	3	3	3	4	5	4	3	4	3	3	3	3	3	5	3	6	A23
PETALUMA																																			
OXIDANT													.05	.04	.02	.03	.05	.04	.02	.01	.01	.02	.04	.03	.04	.03	.04	.03	.03	.03	.03	.05	.03	.08	A15
CARBON MONOXIDE													2	1	1	2	2	2	2	1	2	1	2	2	2	2	1	1	2	2	2	2	1	3	A13
NITROGEN DIOXIDE													.04	.01	.01	.02	.02	.02	.01	.01	.00	.01	.02	.02	.02	.02	.02	.01	.01	.02	.02	.04	.01	.06	13
NITRIC OXIDE													.02	.06	.02	.09	.02	.01	.01	.01	.04	.03	.03	.11	.01	.01	.01	.01	.01	.02	.01	.11	.02	.12	24
OXIDES OF NITROGEN													.06	.06	.02	.10	.04	.02	.01	.01	.04	.04	.04	.13	.02	.02	.03	.02	.01	.02	.02	.13	.03	.14	24
HYDROCARBONS													3	4	3	5	4	2	2	3	4	4	5	4	3	2	2	2	3	3	2	5	3	6	A16

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
A U G U S T																																			
SF BAY AREA BASIN																																			
SAN LEANDRO																																			
OXIDANT	.07	.02	.03	.04	.05	.05	.06	.05	.03	.06	.05	.03	.03	.07	.03	05	.03	.06	.07	.02	.02	.03	.18	.05	.04	.04	.05	.05	.04	.05	.06	.18	.04	.20	23
OAKLAND																																			
OXIDANT	.05	.02	.02	.03	.03	.04	.05	.02	.04	.06	.03	.02	.02	.03	.03	04	.03	.04	.03	.02	.02	.03	.11	.03	.04	.03	.03	.03	.03	.03	.04	.11	.03	.13	23
CARBON MONOXIDE	4	2	2	3	3	3	3	3	2	5	4	2	2	2	2	3	2	2	2	3	1	2	5	5	3	3	1		2	5	4	5	2	8	A23
NITROGEN DIOXIDE	.07	.04	.04	.07	.08	.11	.07	.08	.08	.14	.05	.03	.04	.04	.02	06	.04	.07	.04	.04	.02	.01	.08	.08	.05	.04	.06	.04	.02	.04	.07	.14	.05	.17	10
NITRIC OXIDE	.02	.03	.03	.06	.04	.07	.05	.05	.07	.14	.06	.03	.04	.02	.01	10	.06	.02	.03	.05	.02	.02	.18	.09	.06	.04	.03	.04	.01	.12	.05	.18	.05	.20	30
OXIDES OF NITROGEN	.08	.09	.05	.09	.11	.12	.09	.08	.10	.21	.11	.06	.08	.04	.03	.12	.10	.09	.06	.07	.04	.03	.22	.13	.10	.08	.08	.07	.03	.16	.11	.22	.09	.30	23
HYDROCARBONS	3	3	3	3	3	3	3	4	4	5	3	3	3	3	3	3	3	3	3	3	3	3	5	4	4	3	3	4	3	4	4	5	3	7	A25
LIVERMORE RAILROAD																																			
OXIDANT	.13	.09	.05	.04	.05	.07	.10	.11	.10	.19	.14	.07	.07	.07	.04	.08	.05	.13	.08	.02	.03	.04	.16	.06	.08	.09	.06	.06	.05	.05	.08	.19	.07	.21	10
CARBON MONOXIDE	3	3	2	3	3	3	2	1	2	3	4	4	4	4	3	4	3	4	3	3	3	3	4	6	3	1	2	1	1	3	2	6	2	7	24
NITROGEN DIOXIDE	.05	.04	.02	.02	.03	.05	.04	.03	.05	.05	.04	.03	.04	.03	.02	.03	.04	.07	.04	.02			.12	.10	.06	.04	.03	.03	.02	.02	.03	.12	.04	.13	23
HYDROCARBONS	4	4	3	3	3	3	4	3	4	4	3	3	3	3	3	3	3	4	3	3	3		4	6	3	3	3	3	3	3	3	6	3	7	24
FREMONT CHAPEL WAY																																			
OXIDANT	.08	.04	.04	.04	.05	.06	.05	.05	.06	.14	.08	.04	.05	.07	.04	.06	.04	.10	.08	.02	.02	.03	.16	.06	.08	.07	.06	.05	.04	.06	.06	.16	.06	.19	23
CARBON MONOXIDE	2	3	2	3	3	3	3	2	4	3	2	2	2	3	2	4	3	3	3	3	3	3	2	3	4	3	3	3	4	5	3	5	2	5	9
HYDROCARBONS			2	3	2	2	4	4	4	4	3	3	7	4	3	4	4	4	4	3	2	3	4	5	5	3	4	4	6	4	3	7	3	11	8
SAN FRANCISCO ELLIS																																			
OXIDANT		.02	.02	.02	.02	.02	.02	.01	.02	.02	.03	.02	.02	.02	.02	.02	.03	.02	.03	.02	.01	.01	.07	.02	.03		.04	.02	.03	.03	.04	.07	.02	.11	23
CARBON MONOXIDE	2	3	4	3	4	4	3	3	2	6	3	3	2	2	2	4	3	4	5	3	2	3	8	4	3	3	4	3	3	5	4	8	3	.12	23
NITROGEN DIOXIDE	.03					.03	.03	.03	.03	.03	.02	.02	.02	.02	.02	.02	.02	.04	.03	.02	.02	.03	.14	.03	.03	.03	.04	.03	.03	.04	.03	.14	.03	.15	23
NITRIC OXIDE	.06					.04	.06	.04	.05	.13	.06	.06	.07	.04	.04	.08	.04	.14	.07	.07	.04	.04	.13	.07	.05	.04	.04	.04	.03	.06	.09	.14	.06	.18	23
OXIDES OF NITROGEN	.07	.06	.07	.08	.07	.07	.08	.07	.07	.16	.08	.07	.08	.06	.06	.10	.06	.17	.09	.09	.06	.06	.20	.09	.08	.06	.08	.07	.05	.10	.12	.20	.08	.26	23
HYDROCARBONS	3	3	3	3	3	3	3	4	3	4	2	3	2	3	2	3	2	4	3	2	2	3	6	3	3	2	3	2	2	3	3	6	2	7	8
NORTH CENTRAL BASIN																																			
SALINAS																																			
OXIDANT	.03	.02	.03	.04	.03	.03	.03	.04	.02	.03	.05	.04	.02	.03	.03	.04	.04	.03	.04	.03	.03		.03	.06	.04	.05	.04	.04	.04	.05	.06	.06	.03	.07	A24
NITROGEN DIOXIDE	.02	.02	.03	.04	.04	.03	.05	.03	.03	.05	.02	.02	.03	.03	.02	.05	.02	.03	.03	.03	.03	.01	.03	.03	.03	.03	.04	.03	.02	.05	.03	.05	.03	.07	A 7
NITRIC OXIDE	.03	.02	.02	.04	.04	.02	.02	.05	.07	.11	.14	.01	.02	.02	.02	.02	.02	.02	.02	.04	.04	.04	.09	.02	.00	.01	.07	.09	.03	.03	.01	.14	.03	.40	11
OXIDES OF NITROGEN	.05	.03	.03	.07	.06	.04	.07	.07	.09	.14	.16	.03	.03	.03	.03	.06	.03	.04	.04	.05	.05	.05	.12	.05	.03	.03	.11	.12	.05	.08	.03	.16	.06	.42	11
HYDROCARBONS	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5	3	3	3	3	3	3	3	3	4	3	3	6	6	3	11	19
GONZALES																																			
OXIDANT	.01			.03	.04	.05	.06	.05	.04	.07	.07	.04	.03	.04	.03	.05	.04	.03	.04	.03	.03	.03	.05	.04	.04	.06	.04	.04	.04	.05	.05	.07	.04	.10	A10
MONTEREY																																			
OXIDANT	.02	.01	.02	.02	.01	.02	.03	.02	.02	.03	.03	.03	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.04	.03	.02	.03	.04	.04	.04	.04	.04	.04	.02	.04	A23
CARBON MONOXIDE	3	1	2	3	4	3	4	3	5	3	1	1	1	2	2	3	2	1	1	2	3	2	3	3	1	2	2	3	2	2	2	5	2	6	30
NITROGEN DIOXIDE	.02	.01	.02	.04	.03	.03	.04	.04	.05	.04	.02	.02	.02	.02	.02	.03	.01	.01	.01	.02	.03	.02	.03	.02	.01	.02	.03	.03	.03	.03	.02	.05	.02	.07	9
NITRIC OXIDE	.01	.01	.00	.02	.02	.06	.13	.10	.03	.01	.00	.00	.01	.02	.01	.00	.00	.00	.00	.01	.01	.01	.03	.01	.01	.01	.03	.05	.02	.06	.01	.13	.02	.16	7
OXIDES OF NITROGEN	.03	.02	.02	.05	.05	.09	.17	.14	.07	.05	.02	.02	.02	.04	.02	.03	.01	.01	.01	.02	.03	.02	.05	.03	.02	.02	.06	.08	.04	.08	.02	.17	.04	.20	7
SANTA CRUZ																																			
OXIDANT			.03	.03	.03	.04	.03	.03	.03	.05	.04	.02	.02	.02	.02	.02	.03	.01	.02	.02	.02	.02	.03	.02	.02	.03	.02	.05	.04	.02	.04	.05	.02	.06	A10
NITROGEN DIOXIDE	.04	.03	.02	.03	.03	.03	.03	.03	.03	.03	.03	.03	.02	.02	.02	.03	.03	.02	.03	.03	.02	.03	.03	.03	.02	.03	.03	.03	.03	.02	.02	.04	.02	.04	1
SOUTH CENTRAL BASIN																																			
SAN LUIS OBISPO																																			
OXIDANT	.05	.04	.05	.06	.02	.02	.02	.05	.03	.10	.08	.06	.04	.05	.05	.04	.03	.02	.04	.03	.03	.03	.03	.05	.04	.03	.02	.04	.05	.04	.05	.10	.04	.12	10
CARBON MONOXIDE	1	2	2	2	3	2	2	3	2	2	2	2	2	2	1	7	3	1	1	3	2	1	3	2	2	1	1	2	1	2	2	7	2	7	16
NITROGEN DIOXIDE	.02	.02	.02	.04	.03	.02	.03	.03	.03	.04	.04	.03	.03	.03	.02	.03	.03	.02	.01	.02	.02	.02	.03	.02	.03	.03	.02	.03	.02	.02	.02	.04	.02	.05	A 4
NITRIC OXIDE	.00	.01	.01	.03	.03	.02	.06	.11	.01	.00	.01	.01	.01	.01	.01	.02	.03	.01	.01	.01	.01	.03	.02	.01	.01	.02	.02	.02	.01	.03	.01	.11	.01	.13	8
OXIDES OF NITROGEN	.02	.02	.03	.05	.05	.04	.07	.14	.04	.04	.04	.04	.04	.03	.03	.04	.05	.03	.02	.02	.03	.05	.04	.03	.03	.04	.03	.04	.02	.05	.03	.14	.03	.16	8
HYDROCARBONS	4	3	3	4	4	3	4	4	4	3	4	4	3	4	3	4	3	3	2	3	3	3	4	3	2	3	2	3	3	3	4	4	3	17	A31
SANTA MARIA																																			
OXIDANT	.05	.03	.02	.06	.03	.03	.04	.06	.04	.07	.04	.04	.04	.03	.02	.02	.02	.02	.02	.04	.03	.02	.02	.03	.02	.03	.04	.05	.05	.04	.04	.07	.03	.07	4
SOUTH COAST BASIN																																			
ANAHEIM																																			
OXIDANT	.06	.06	.06	.13	.15	.06	.06	.09	.10	.04	.10	.06	.06	.04	.10	.08	.04	.08	.05	.05	.06	.06	.09	.09	.15	.17	.13	.12	.17	.03	.08	.17	.08	.20	A29
SULFUR DIOXIDE	.02	.03	.02	.08	.06	.01	.00	.00	.00	.00	.00	.00	.04	.04	.04	.00	.01	.00		.00	.01	.03	.02	.03	.04	.07	.06	.06	.06	.02	.03	.08	.02	.10	4
NITROGEN DIOXIDE	.05	.10	.09	.19	.16	.13	.06	.13	.14	.06	.12	.07	.08	.05	.08	.09	.06	.11	.05	.04	.05	.05	.04	.07	.11	.20	.10	.10	.09	.10	.08	.20	.09	.21	4
NITRIC OXIDE	.09	.18	.06	.10	.24	.17	.07	.10	.08	.12	.13	.09	.10	.13	.11	.07	.08	.10	.05	.04	.04	.02	.03	.07	.08	.21	.12	.19	.10	.08	.09	.24	.10	.27	5
OXIDES OF NITROGEN	.12	.24	.12	.25	.32	.25	.12	.16	.18	.17	.21	.12	.14	.18	.16	.11	.11	.18	.09	.08	.08	.07	.07	.11	.14	.27	.18	.25	.15	.15	.13	.32	.15	.53	26
HYDROCARBONS	3	5	4	8	7	7	4	7	6	9	6	5	5	6	6	7	7	10	3	4	5	5	6	7	9	12	13	15	15	11	12	15	7	19	A29
LA HABRA																																			
OXIDANT	.08	.06	.12	.32	.17	.17	.12	.22	.18	.06	.16	.06	.09	.05	.16	.11	.07	.11	.10	.05	.09	.10	.15	.16	.28	.32	.26	.27	.23	.08	.14	.32	.14	.35	A 4
SULFUR DIOXIDE	.01	.05	.07	.04	.06	.05	.04	.05	.02	.01	.06	.02	.06	.03	.05	.05	.01	.05	.03	.01	.01	.02	.02	.03	.04	.05	.05	.07	.06	.03	.03	.07	.03	.08	A 3
NITROGEN DIOXIDE	.06	.10	.09	.17	.12	.13	.08	.11	.07				.12	.11		.16	.10	.13	.05	.03	.06	.10	.10	.11	.08	.22	.12	.17	.14	.09	.10	.22	.10	.25	26
NITRIC OXIDE	.14	.08	.16	.10	.13	.20	.11	.10	.10				.04	.05		.05	.11	.15	.11	.07	.06	.04	.10	.07	.07	.19	.22	.18	.16	.19	.10	.22	.11	.26	6
OXIDES OF NITROGEN	.18	.17	.25	.22	.17	.26	.16	.18	.16				.12	.12	.11	.21	.16	.21	.15	.10	.12	.11	.13	.15	.14	.27	.26	.25	.22	.23	.17	.27	.17	.32	6

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CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A U G U S T																
SOUTH COAST BASIN																
SANTA ANA																
OXIDANT		.06	.07	.11	.08	.08	.06	.10	.06	.04	.09	.05	.04	.03	.06	.05
SULFUR DIOXIDE	.02	.00														
NITROGEN DIOXIDE	.02	.03	.03	.07	.07	.04	.02	.03	.02	.01	.02	.01	.01	.01	.02	.02
NITRIC OXIDE	.03	.05	.07	.07	.06	.18	.10	.11	.13	.09	.06	.08	.04	.02	.01	.02
OXIDES OF NITROGEN	.05	.07	.09	.13	.11	.21	.10	.11	.15	.10	.07	.09	.04	.03	.03	.03
GREEN RIVER GOLF COU																
OXIDANT	.11	.09	.07	.15	.15	.15	.15	.20	.18	.09	.11	.10	.10	.12	.15	.17
NITROGEN DIOXIDE			.07	.08	.07	.07	.09	.12	.10	.07	.07	.06	.05	.04	.04	.07
NITRIC OXIDE			.02	.05	.13	.14	.10	.05	.10	.11	.08	.07	.01	.02	.02	.03
OXIDES OF NITROGEN	.12	.17	.17	.11	.17	.19	.17	.14	.18	.16	.13	.11	.05	.05	.05	.07
LOS ALAMITOS AIR STA																
SULFUR DIOXIDE	.00	.23	.14	.14	.09	.08	.10	.05	.00	.00	.13	.08	.08	.02	.05	.25
RIVERSIDE																
OXIDANT	.19	.15	.20	.30	.29	.18	.25	.31	.29	.25	.23	.17	.14	.17	.20	.30
CARBON MONOXIDE			8	10	9	11	9			7	6	7	4			8
SULFUR DIOXIDE					.00	.01	.02	.00	.02	.00	.02	.00	.00	.00	.00	.00
NITROGEN DIOXIDE	.05	.09	.09	.07	.12	.12	.15	.11	.15	.13	.10	.09	.09	.07	.08	.09
HYDROCARBONS	3	5	5	6	5	5	5	4	7	6	5	2	4	4	4	5
CORONA																
OXIDANT	.09	.11	.14	.14	.15	.15	.11	.15	.13	.09	.10	.09	.09	.06	.09	.13
SAN BERNARDINO																
OXIDANT	.17	.12	.16	.21	.22	.21	.15	.26	.25	.20	.19	.15	.13	.12	.19	.27
CARBON MONOXIDE		7	8	8	7	9	7	8	8	9	8	8	6	5		8
SULFUR DIOXIDE	.03	.02	.03	.04	.06	.05	.03	.05	.03	.03	.04	.02	.03	.03	.05	.07
NITROGEN DIOXIDE	.06	.08	.09	.10	.12	.15	.13	.15	.09	.09	.10	.10	.12	.10	.09	.16
HYDROCARBONS	4	5	5	5	5	6	5	5	5	5	5	5	4	3	3	5
ONTARIO																
OXIDANT	.10	.08	.12	.20	.19	.19	.09	.13	.18	.11	.14	.09	.08	.07	.09	.13
NITROGEN DIOXIDE	.03	.06	.05	.05	.06	.05	.05	.04	.07	.05	.11	.03	.07	.05	.03	.04
NITRIC OXIDE				.02	.12	.08	.09	.04	.01	.05	.09	.19				
OXIDES OF NITROGEN				.06	.16	.13	.14	.07	.03	.07	.11	.20				
REDLANDS																
OXIDANT	.15	.11	.10	.17	.27	.16	.18	.18	.17	.18	.13	.16	.09	.10	.12	.22
CARBON MONOXIDE	5	6	6	9	8	8	8	7	8	7	7	6	7	6	5	7
NITROGEN DIOXIDE	.09	.12	.09	.09	.12	.14	.10	.11	.12	.12	.09	.08	.08	.07	.08	.09
NITRIC OXIDE			.03	.03		.07	.04	.07	.04	.06	.05	.06	.06	.09	.12	.04
OXIDES OF NITROGEN			.09	.11		.21	.14	.18	.13	.15	.10	.13	.12	.14	.17	.12
SANTA BARBARA																
OXIDANT	.07	.07	.06	.04	.05	.07	.09	.11	.05	.10	.04	.04	.04	.07	.05	.05
CARBON MONOXIDE	2	4	2	2	3	3	3	3	6	3	2	1	1	1	1	3
NITROGEN DIOXIDE	.06	.06	.07	.10	.05	.05	.08	.09	.11	.07	.05	.05	.06	.05	.04	.05
NITRIC OXIDE	.04	.05	.06	.18	.09	.13	.09	.31	.21	.05	.06	.06	.05	.05	.05	.05
OXIDES OF NITROGEN	.07	.08	.08	.24	.14	.17	.14	.38	.30	.14	.11	.10	.09	.09	.09	.09
HYDROCARBONS	6	7	6	9	8	9	9	10	7	10	4	4	4	3	3	6
OJAI																
OXIDANT												.09	.11	.10	.15	.18
NITROGEN DIOXIDE	.06	.05	.04		.06	.07	.06					.03	.03	.03	.03	.04
NITRIC OXIDE			.00													
OXIDES OF NITROGEN			.04													
CAMARILLO																
OXIDANT						.05	.17	.19	.16				.04	.07	.03	.03
NITROGEN DIOXIDE				.03	.02	.03	.05	.09	.04					.04	.05	.05
NITRIC OXIDE				.06	.13	.14	.15	.09	.10				.06	.04	.00	.03
OXIDES OF NITROGEN				.09	.15	.15	.18	.15	.14					.07	.05	.08
DOWNTOWN LOS ANGELES																
OXIDANT	.12	.10	.19	.10	.08	.17	.12	.18	.13	.06	.09	.09	.06	.08	.08	.06
CARBON MONOXIDE	5	11	12	12	18	18	6	6	16	15	16	10	6	5	4	9
SULFUR DIOXIDE	.04	.07	.06	.04	.05	.05	.03	.04	.07	.04	.03	.04	.03	.05	.04	.02
NITROGEN DIOXIDE	.09	.20	.24	.21	.29	.46	.12	.13	.27	.16	.28	.20	.10	.09	.09	.15
NITRIC OXIDE	.13	.24	.26	.31	.35	.36	.13	.11	.29	.37	.36	.18	.09	.07	.04	.15
OXIDES OF NITROGEN	.15	.30	.37	.39	.56	.67	.21	.23	.46	.48	.49	.31	.15	.14	.11	.21
HYDROCARBONS	4	5	6	5	6	7	4	3	6	5	6	4	3	3	3	4
AZUSA																
OXIDANT	.18	.15	.32	.27	.28	.37	.25	.31	.29	.19	.26	.22	.19	.17	.21	.24
CARBON MONOXIDE	6	6	7	4	6	6	7	6	5	4	5	5	4	4	4	5
SULFUR DIOXIDE	.02	.03	.07	.04	.05	.07	.05	.05	.06	.05	.05	.05	.03	.03	.04	.04
NITROGEN DIOXIDE	.09	.15	.14	.12	.10	.16	.12	.12	.16	.10	.10	.13	.10	.09	.08	.11
NITRIC OXIDE		.17	.28	.10	.23	.13	.12	.14	.11	.13	.14	.16	.11	.12	.12	.16
OXIDES OF NITROGEN		.25	.35	.17	.29	.19	.21	.20	.27	.19	.19	.28	.18	.17	.19	.21
HYDROCARBONS	6	6	9	5	6	6	8	7	8	10	6	8	4	4	3	5

PLACE AND CONTAMINANT	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
A U G U S T																			
SOUTH COAST BASIN																			
SANTA ANA																			
OXIDANT	.04	.06	.04	.05	.05	.06	.06	.08	.02	.08	.09	.09	.12	.08	.09	.12	.06	.19	29
SULFUR DIOXIDE																.02	.01	.03	1
NITROGEN DIOXIDE	.01	.02	.01	.00	.00	.00	.01	.03	.04	.06	.08	.05	.03	.06	.05	.08	.02	.10	27
NITRIC OXIDE	.03	.10	.02	.00	.00	.01	.00	.04	.04	.21	.12	.09	.14	.20	.06	.21	.07	.35	30
OXIDES OF NITROGEN	.04	.11	.02	.00	.00	.01	.01	.07	.06	.22	.13	.11	.17	.22	.07	.22	.08	.37	A30
GREEN RIVER GOLF COU																			
OXIDANT	.07	.09	.07	.07	.08	.07	.10	.11	.19	.19	.18	.14	.20	.07	.10	.20	.12	.22	A26
NITROGEN DIOXIDE	.07	.07	.03	.03	.04	.04	.04	.04	.10	.08	.06	.07	.07	.06	.06	.12	.06	.14	8
NITRIC OXIDE	.03	.10	.03	.03	.02	.01	.12	.02	.07	.09	.13	.12	.12	.13	.16	.16	.07	.21	6
OXIDES OF NITROGEN	.10	.15	.05	.04	.05	.05	.14	.05	.12	.13	.17	.18	.18	.16	.20	.20	.12	.25	3
LOS ALAMITOS AIR STA																			
SULFUR DIOXIDE	.03			.03	.02	.01	.04	.09	.04						.05	.25	.07	.32	2
RIVERSIDE																			
OXIDANT	.22	.24	.19	.16	.24	.14	.24	.18	.34	.32	.32	.24	.30	.17	.23	.34	.23	.40	25
CARBON MONOXIDE	7	8	7	10	8	10	9	7	10	10	12	10	10	10	10	12	8	20	25
SULFUR DIOXIDE	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.02	.00	.02	A 7
NITROGEN DIOXIDE	.09	.07	.06	.05	.07	.08	.07	.06	.09	.14	.12	.14	.12	.11	.16	.16	.09	.21	9
HYDROCARBONS	5	5	4	4	2	3	4	3	5	6	6	4	5	6	5	7	4	10	27
CORONA																			
OXIDANT	.09	.12	.09	.07	.09	.07	.11	.13	.25	.20	.16	.15	.18	.10	.13	.25	.12	.26	25
SAN BERNARDINO																			
OXIDANT	.21	.22	.17	.11	.15	.13	.21	.25	.24	.21	.27	.31	.25	.13	.20	.31	.19	.34	28
CARBON MONOXIDE	8	7	7	6	4	6	5	6	6	8	9	9	6	7	8	9	7	12	A 6
SULFUR DIOXIDE	.03	.05	.02	.02	.02	.02	.03	.05	.04	.03	.06	.08	.05	.02	.03	.08	.03	.08	16
NITROGEN DIOXIDE	.17	.11	.08	.06	.05	.05	.10	.10	.09	.18	.15	.10	.06	.12	.12	.18	.10	.22	26
HYDROCARBONS	5	5	5	4	3	3	4	4	4	5	6	6	6	5	5	6	4	8	A28
ONTARIO																			
OXIDANT	.08	.00							.20	.14	.18	.18	.14	.05	.12	.20	.12	.23	A 4
NITROGEN DIOXIDE	.04	.03							.07	.09	.08	.09	.08	.06	.09	.11	.05	.45	11
NITRIC OXIDE	.01	.02							.06	.15	.11					.19	.07		
OXIDES OF NITROGEN	.03	.04							.12	.20	.15					.20	.10	.45	A11
REDLANDS																			
OXIDANT	.14	.13	.12	.08	.09	.09	.15	.15	.26	.25	.28	.28	.26	.14	.21	.28	.16	.35	A25
CARBON MONOXIDE	7	7	8	6	6	7	7	6	6	9	7					9	6	11	A 4
NITROGEN DIOXIDE	.08	.07	.11	.06	.07	.07	.09	.10	.11	.11	.14	.11	.10	.10	.11	.14	.09	.18	A27
NITRIC OXIDE	.03	.05	.01	.05	.04	.05	.01	.06	.04	.11	.32	.07	.07	.07	.10	.32	.06	.77	27
OXIDES OF NITROGEN	.11	.10	.08	.10	.09	.10	.09	.12	.15	.16	.35	.15	.14	.16	.19	.35	.13	.80	27
SANTA BARBARA																			
OXIDANT	.05	.04	.04	.08	.05	.05	.06	.03	.03	.06	.06	.09	.08	.06	.06	.11	.05	.31	8
CARBON MONOXIDE	2	2	1	1	1	2	3	1	1	2	2	2		2	2	6	2	8	9
NITROGEN DIOXIDE	.05	.04	.07	.07	.06	.05	.05	.04	.03	.04	.05	.05	.04	.04	.07	.11	.05	.17	4
NITRIC OXIDE	.04	.04	.03	.04	.04	.04	.05	.06	.07	.03	.08	.08	.06	.06	.06	.31	.07	.56	4
OXIDES OF NITROGEN	.08	.08	.10	.10	.08	.08	.09	.10	.10	.06	.12	.11	.10	.09	.10	.38	.11	.63	4
HYDROCARBONS	6	4	15	6	4	8	16	4	4	4	7	10	8	11	9	16	7	28	23
OJAI																			
OXIDANT	.22	.15	.17	.17	.21	.15	.19	.16	.15	.13	.17	.20	.16	.16	.13	.22	.15	.24	17
NITROGEN DIOXIDE	.03	.03	.03	.03	.03	.02	.03	.02	.03	.06	.08	.06	.06	.06	.06	.08	.04	.08	27
NITRIC OXIDE	.02	.04	.02	.02	.00	.00	.00	.00	.01	.01	.02	.02	.00			.04	.01	.04	18
OXIDES OF NITROGEN	.05	.07	.05	.04	.03	.02	.03	.02	.04	.07	.10	.08	.06			.10	.05	.10	18
CAMARILLO																			
OXIDANT	.14	.11	.11	.14	.12	.12	.17	.10	.09	.09	.12	.08	.09	.09	.07	.19	.10	.21	8
NITROGEN DIOXIDE	.06	.05	.06	.04	.04	.06	.04	.04	.04	.04	.04	.04	.04	.04	.04	.09	.04	.09	8
NITRIC OXIDE	.02	.03	.07	.09	.02	.08	.07	.00	.01	.06	.09	.15	.10	.11	.12	.15	.07	.21	A28
OXIDES OF NITROGEN	.08	.05	.10	.13	.05	.12	.11	.04	.04	.10	.12	.18	.14	.13	.16	.18	.10	.23	A 8
DOWNTOWN LOS ANGELES																			
OXIDANT	.09	.10	.12	.04	.09	.13	.08	.07	.10	.13	.17	.19	.15	.08	.11	.19	.10	.23	A 3
CARBON MONOXIDE	9	11	9	6	3	4	8	6	6	19	20	10	9	13	12	20	10	28	27
SULFUR DIOXIDE	.04	.03	.04	.03	.02	.03	.03	.03	.02	.02	.03	.05	.03	.04	.07	.07	.03	.10	A31
NITROGEN DIOXIDE	.17	.22	.16	.10	.07	.05	.12	.09	.16	.27	.28	.18	.12	.16	.13	.46	.17	.49	6
NITRIC OXIDE	.19	.14	.17	.09	.05	.03	.13	.09	.11	.43	.46	.25	.17	.25	.26	.46	.20	.68	27
OXIDES OF NITROGEN	.26	.30	.24	.16	.10	.07	.21	.15	.19	.60	.56	.33	.21	.30	.34	.67	.29	.82	27
HYDROCARBONS	4	5	4	3	3	3	4	3	3	7	7	6	6	5	5	7	4	8	A 6
AZUSA																			
OXIDANT	.17	.24	.18	.14	.16	.17	.22	.20	.25	.23	.32	.32	.30	.14	.23	.37	.23	.44	6
CARBON MONOXIDE	5	6	5	3	3	4	5	4	5	7	7	9	5	5	6	9	5	10	27
SULFUR DIOXIDE	.02	.05	.05	.04	.05	.05	.04	.03	.04	.05	.04	.05	.04	.03	.04	.07	.04	.09	A 3
NITROGEN DIOXIDE	.11	.13	.11	.08	.08	.08	.08	.08	.10	.14	.11	.15	.12	.09	.10	.16	.11	.21	A 6
NITRIC OXIDE	.15	.26	.08	.06	.04	.03	.04	.04	.06	.13	.28	.20	.12	.11	.11	.28	.13	.33	A 3
OXIDES OF NITROGEN	.23	.35	.16	.13	.11	.11	.11	.12	.13	.26	.34	.26	.18	.16	.19	.35	.20	.41	A26
HYDROCARBONS	5	9	6	4	3	3	5	3	4	6	7	9	6	11	5	11	6	15	10

MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

DAY OF MONTH

PLACE AND CONTAMINANT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
A U G U S T																																			
SOUTH COAST BASIN																																			
BURBANK																																			
OXIDANT	.23	.21	.22	.16	.19	.23	.20	.22	.26	.13	.18	.10	.11	.13	.11	.15	.15	.16	.18	.13	.12	.15	.16	.12	.19	.20	.25	.24	.21	.15	.13	.26	.17	.27	6
CARBON MONOXIDE	7	11	8	11	9	10	9	9	13	10	8	9	9	5	5	8	8	9	7	7	5	5	8	6	9	10	14	13	8	8	8	14	8	15	19
SULFUR DIOXIDE	.04	.02	.05	.02	.01	.04	.05	.03	.05	.04	.03	.02	.03	.04	.02	.04	.05	.02	.03	.02	.02	.02	.04	.02	.02	.01	.03	.03	.02	.04	.06	.06	.03	.08	7
NITROGEN DIOXIDE	.25	.40	.38	.29	.24	.31	.21	.25	.35	.16	.24	.21	.17	.12	.10	.10	.09	.10	.08	.08	.07	.07	.16	.07	.10	.13	.17	.15	.16	.14	.33	.40	.18	.42	2
NITRIC OXIDE	.22	.26	.30	.14	.22	.23	.21	.21	.20	.32	.24	.21	.12	.08	.06	.10	.14	.08	.09	.02	.01	.01	.06	.02	.15	.20	.24	.23	.15	.14	.19	.32	.15	.39	10
OXIDES OF NITROGEN	.42	.56	.47	.37	.39	.39	.36	.36	.41	.43	.29	.34	.21	.16	.13	.22	.18	.14	.11	.10	.08	.08	.17	.09	.21	.24	.32	.29	.23	.20	.38	.56	.26	.60	2
HYDROCARBONS	5	6	7	7	5	7	5	6	6	6	5	6	5			4	5	6	5	3	3	3	5	5	5	7	15	9	7	5	9	15	5	16	27
WEST LOS ANGELES																																			
OXIDANT	.09	.07	.12	.11	.12	.15	.11	.20	.07	.08	.09	.11	.06	.05	.05	.07	.05	.09	.12	.06	.06	.09	.10	.06	.06	.13	.10	.12	.11	.08	.08	.20	.09	.25	8
CARBON MONOXIDE	4	7	6	8	9	8	7	10	9	7	5	5	3	4	3	4	6	6	6	4	3	3	4	3	5	13	13	11	9	7	7	13	6	16	A26
SULFUR DIOXIDE	.03	.03	.05	.03	.02	.04	.03	.04	.06	.03	.02	.02	.02	.03	.03	.02	.02	.01	.02	.02	.03	.03	.03	.02	.03	.02	.03	.03	.02	.03	.05	.06	.02		
NITROGEN DIOXIDE	.13	.16	.21	.18	.16	.19	.10	.13	.18	.18	.09	.08	.06	.09	.07	.08	.10	.16	.14	.10	.09	.07	.12	.04	.10	.15	.24	.14	.15	.10	.16	.24	.12	.26	27
NITRIC OXIDE	.17	.19	.12	.19	.21	.31	.22	.41	.27	.13	.15	.08	.02	.05		.06	.08	.09	.07	.06	.02	.01	.09	.01	.06	.39	.38	.23	.26	.17	.14	.41	.15	.56	6
OXIDES OF NITROGEN	.23	.29	.32	.32	.34	.46	.30	.49	.44	.26	.20	.16	.08	.11		.08	.18	.25	.17	.12	.10	.08	.14	.05	.15	.46	.47	.28	.31	.23	.24	.49	.24	.69	6
LONG BEACH																																			
OXIDANT	.03	.05	.05	.06	.07	.08	.05	.12	.04	.02	.05	.04	.06	.03	.11	.08	.04	.06	.06	.04	.05	.09	.05	.06	.05	.11	.11	.09	.10	.06	.04	.12	.06	.16	8
CARBON MONOXIDE	4	6	6	7	7	8	4	4	7	3	7	5	4	3	4	4	3	4	4	4	2	2	4	5	4	9	12	5	5	5	6	12	5	16	27
SULFUR DIOXIDE	.10	.10	.08	.13	.20	.55	.07	.07	.04	.03	.25	.10	.08	.04	.06	.12	.04	.10	.05	.03	.03	.05	.03	.07	.09	.12	.12	.23	.18	.04	.05	.55	.10	.68	6
NITROGEN DIOXIDE	.09	.12	.14	.23	.23	.26	.09	.11	.08	.04	.18	.13	.12	.06	.10	.13	.05	.13	.09	.05	.06	.06	.09	.12	.13	.20	.17	.18	.13	.10	.07	.26	.12	.28	6
NITRIC OXIDE	.10	.13	.10	.13	.13	.13	.08	.05	.08	.09	.14	.13	.06	.05	.05	.12	.09	.06	.07	.04	.03	.04	.06	.08	.03	.16	.19	.16	.07	.08	.19	.19	.09	.24	A31
OXIDES OF NITROGEN	.16	.20	.19	.27	.28	.30	.14	.13	.16	.13	.24	.22	.15	.08	.11	.23	.12	.15	.14	.08	.08	.10	.12	.14	.15	.25	.24	.21	.14	.15	.25	.30	.17	.37	6
RESEDA																																			
OXIDANT	.20	.11	.12	.10	.14	.16	.19	.24	.18	.18	.11	.08	.06	.11	.14	.15	.15	.18	.14	.14	.10	.17	.20	.13	.14	.09	.14	.21	.16	.11	.11	.24	.14	.26	8
CARBON MONOXIDE	9	8	10	8	9	9	10	10	10	8	7	6	5	5	5	6	6	7	8	5	5	5	6	3	4	7	9	10	8	7	8	10	7	13	A 8
SULFUR DIOXIDE	.02	.02	.01	.02	.02	.02	.04	.05	.04	.04	.01	.02	.02	.02	.01	.03	.02	.03	.02	.05	.02	.02	.03	.02	.03	.02	.02	.02	.02	.03	.05	.05	.02	.07	A31
NITROGEN DIOXIDE	.25	.29	.33	.25	.13	.21	.20	.21	.19	.14	.12	.14	.14	.09	.07	.11	.15	.12	.12	.07	.07	.07	.10	.08	.07	.10	.15	.15	.14	.12	.15	.33	.14	.42	3
NITRIC OXIDE	.50	.28	.40	.21	.21	.19	.22	.15	.16	.09	.12	.13	.05	.09	.08	.10	.11	.09	.16	.01	.01	.05	.06	.02	.06	.11	.17	.19	.15	.15	.14	.50	.14	.51	1
OXIDES OF NITROGEN	.65	.54	.63	.42	.30	.30	.35	.31	.29	.22	.17	.20	.16	.14	.13	.15	.19	.16	.24	.08	.08	.12	.13	.09	.10	.18	.26	.26	.24	.21	.21	.65	.24	.67	3
HYDROCARBONS	4	4	5	4	4	4	5	5	5	4	4	4	3	4	3	4	4	4	4	3	3	4	4	3	4	4	6	6	5	5	5	6	4	6	A 3
POMONA																																			
OXIDANT	.14	.15	.18	.26	.25	.22	.16	.24	.26	.14	.19	.14	.12	.13	.18	.21	.13	.17	.08	.01	.06	.09	.11	.15	.19	.13	.23	.30	.22	.07	.18	.30	.16	.32	28
CARBON MONOXIDE	4	7	9	7	6	6	7	7	7	5	3	4	4	4	4	7	5	6	5	4	3	3	4	5	5	8	8	8	6	7	5	9	5	13	26
SULFUR DIOXIDE	.01	.04	.01	.03	.04	.05	.02	.03	.03	.02	.04	.02	.03	.01	.02	.04	.03	.04	.02	.01	.01	.01	.03	.03	.02	.02	.04	.04	.03	.03	.03	.05	.02	.05	5
NITROGEN DIOXIDE	.09	.18	.17	.15	.11	.15	.13	.17	.22	.15	.10	.11	.13	.09	.10	.14	.15	.14	.13	.09	.09	.08	.10	.10	.16	.18	.14	.16	.14	.11	.12	.22	.13	.21	3
NITRIC OXIDE	.22	.13	.38	.13	.18	.31	.30	.20	.28	.12	.13	.24	.13	.15	.10	.20	.13	.17	.17	.13	.05	.07	.11	.10	.21	.37	.27	.41	.21	.34	.20	.41	.19	.51	28
OXIDES OF NITROGEN	.30	.30	.53	.27	.29	.42	.41	.35	.43	.24	.18	.31	.22	.20	.17	.28	.22	.24	.24	.18	.11	.14	.16	.20	.30	.46	.40	.53	.32	.42	.27	.53	.29	.65	A28
HYDROCARBONS	4	4	5	4	5	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3	2	2	3	3	3	6	5	4	4	4	4	6	3	6	5
LENNOX																																			
OXIDANT	.05	.06	.05	.05	.08	.06	.04	.21	.02	.04	.04	.05	.03	.04	.07	.04	.03	.07	.07	.05	.06	.08	.06	.05	.05	.08	.06	.06	.06	.04	.05	.21	.05	.25	8
CARBON MONOXIDE	3	10	10	14	10	15	8	9	9	11	12	14	8	4	4	5	8	10	10	7	4	3	8	6	11	9	16	11	10	11	13	16	9	23	27
SULFUR DIOXIDE	.08	.10	.06	.12	.13	.10	.08	.07	.10	.08	.04	.06	.03	.05	.04	.05	.05	.03	.05	.04	.03	.07	.08	.02	.05	.05	.05	.14	.05	.16	.05	.16	.06	.33	28
NITROGEN DIOXIDE	.09	.12	.22	.17	.12	.23	.08	.12	.17	.11	.15	.10	.08	.11	.09	.11	.12	.10	.10	.11	.09	.08	.13	.10	.09	.16	.17	.17	.14	.09	.11	.23	.12	.25	3
NITRIC OXIDE	.08	.17	.27	.38	.17	.34	.27	.26	.25	.43	.27	.21	.06	.15	.09	.11	.38	.24	.35	.28	.18	.05	.29	.07	.15	.22	.60	.36	.35	.24	.40	.60	.24	.73	27
OXIDES OF NITROGEN	.15	.24	.35	.52	.28	.39	.31	.32	.29	.49	.38	.27	.13	.20	.17	.18	.42	.31	.43	.34	.24	.12	.38	.14	.24	.28	.67	.43	.41	.27	.46	.67	.31	.79	27
HYDROCARBONS	5	4	4	5	4	9	5	9	4	6	4	3	3	2	2	4	6	6	4	3	3	3	4	3	3	7	7	7	8	7	6	9	4	12	A 6
PASADENA																																			
OXIDANT	.19	.22	.33	.17	.21	.32	.25	.27	.28	.15	.23	.19	.16	.15	.14	.18	.16	.22	.20	.11	.16	.18	.20	.14	.22	.24	.28	.28	.23	.15	.19	.33	.20	.40	6
CARBON MONOXIDE		8	7	5	8	8	7	6	5	4	5	6	5	2	4	6	4	6	4	3	3	4	4	5	5	7	10	8	6	4	5	10	5	13	27
SULFUR DIOXIDE	.02	.03	.03	.02	.02	.03	.02	.10	.05	.02	.03	.04	.02	.03	.04	.03	.02	.02	.04	.02	.01	.01	.01	.01	.01	.02	.02	.03	.01	.03	.04	.10	.02	.11	8
NITROGEN DIOXIDE	.09	.12	.19	.19	.14	.13	.11	.09	.26	.08	.10	.10	.11	.07	.07	.14	.10	.18	.10	.09	.08	.10	.12	.11	.11	.16	.12	.24	.15	.08	.14	.26	.12	.28	28
NITRIC OXIDE	.06	.11	.19	.16	.16	.09	.12	.11	.12	.12	.12	.10	.05	.08	.07	.10	.08	.14	.13	.05	.02	.04	.06	.02	.12	.14	.12	.08	.10	.08	.10	.19	.09	.21	27
OXIDES OF NITROGEN	.13	.21	.29	.25	.20	.20	.20	.16	.28	.15	.14	.16	.14	.10	.12	.16	.15	.20	.18	.12	.09	.13	.14	.13	.18	.20	.19	.26	.17	.12	.16	.29	.17	.35	3
HYDROCARBONS	5	5	5	4	4	4	4	5	4	4	4	4	4	3	3	4	4			3	3	3	4	4	4	5	5	6	5	4	5	6	4	6	26
WHITTIER																																			
OXIDANT	.08	.05	.10	.23	.18	.18	.10	.20	.11	.06	.19	.12	.12	.08	.18	.13	.05	.12	.07	.05	.07	.13	.09	.15	.20	.25	.23	.21	.22	.08	.13	.25	.13	.28	26
CARBON MONOXIDE	4	6	5	10	7	8	5	6	7	7	6	6	4	4	5	5	6	7	4	4	3	3	4	4	5	10	10	7	5	7	5	10	5	14	A27
NITROGEN DIOXIDE	.09	.11	.11	.26	.18	.16	.10	.12	.12	.08	.14	.09	.08	.06	.06	.14	.06	.14	.08	.07	.10	.09	.09	.10	.12	.28	.20	.12	.12	.08	.11	.28	.11	.30	26
NITRIC OXIDE	.08	.14	.16	.16	.12	.14	.10	.07	.13	.14	.13	.10	.06	.07	.08	.05	.11	.12	.10	.14	.12	.04	.06	.08	.06	.20	.22	.15	.14	.16	.13	.22	.11	.35	27
OXIDES OF NITROGEN	.12	.23	.20	.28	.27	.22	.16	.19	.23	.20	.21	.14	.12	.11	.13	.16	.14	.16	.17	.20	.22	.13	.13	.16	.14	.35	.29	.22	.20	.24	.20	.35	.19	.57	26
HYDROCARBONS	3	5	5	5	6	6	6	6	7	4	4	6	3	4	4	5	4	6	3	4	3	3	3	4	5	7	5	6	7	9	5	9	4	10	30
NEWHALL																																			
OXIDANT	.24	.17	.14	.08	.11	.17	.20	.26	.23	.18	.18	.12	.09	.13	.14	.17	.21	.22	.18	.17	.01		.16	.14	.13	.07	.12	.14	.09	.11	.15	.26	.15	.27	8
CARBON MONOXIDE	4	6	6	5	7	5	4	4	6	5	5	5	5	4	4	6	6	7	6	5	4	4	6	5	4	6	7	6	4	7	7	7	5	10	A30
NITROGEN DIOXIDE	.10	.16	.16	.16	.02	.07	.11	.08	.09	.09	.09	.12	.20	.08	.08	.13	.12	.09	.10	.08	.08	.12	.15	.11	.12	.07	.06	.08	.09	.07	.09	.20	.10	.24	13
NITRIC OXIDE	.02	.03	.07	.08	.11	.01	.03	.01	.11	.08	.08	.06	.07	.03	.04	.07	.07	.09	.08	.06	.04	.02	.05	.04	.06	.09	.09	.03	.03	.09	.05	.11	.05	.15	A 5
OXIDES OF NITROGEN	.11	.17	.23	.18	.03	.08	.13	.09	.12	.14	.11	.14	.21	.10	.10	.20	.17	.16	.15	.12	.11	.13	.16	.13	.16	.11	.09	.10	.12	.11	.10	.23	.13	.27	3
HYDROCARBONS	4	4	4	4	5	4	4	3	3	4	4	4	5	4	4	1	3	4	5	5	6	4	3	4	4	3	4	3	3	4	3	6	3	6	5
LANCASTER																																			
OXIDANT		.20	.12	.06	.06	.08			.15	.17	.13	.13	.09	.12	.11	.10	.13	.12	.15	.15	.13	.08	.14	.07	.08	.08	.09	.09	.08	.10	.06	.20	.10	.24	2
CARBON MONOXIDE	2	3	2	4	1	5	2	2	2	4	2	3	2	4	3	5	4	3	2	2	2	2	4	4	4	5	3	2	2	4	2	5	2	7	A10
NITROGEN DIOXIDE	.04	.04	.04	.03	.01	.05	.02	.02	.03		.01	.01	.02	.02	.02	.06	.05	.07	.04	.01	.03		.04	.06	.05	.03	.05	.04	.05	.01	.01	.07	.03	.08	16
NITRIC OXIDE	.01	.01	.01	.06	.01	.07	.01	.01	.01	.05	.01	.01	.01	.02	.01	.05	.05	.04	.02	.01	.01	.01	.07	.05	.04	.07	.03	.01	.01	.07	.01	.07	.02	.15	A 6
OXIDES OF NITROGEN	.05	.05	.05	.09	.02	.12	.03	.03	.04		.02	.02	.03	.04	.03	.11	.10	.11	.06	.02	.04		.09	.11	.09	.10	.07	.05	.06	.02	.02	.12	.05	.19	6
HYDROCARBONS	3	3	2	4	2	4	2	2	3	5	2	2	3	3	3	4	5	3	3	2	3	2	4	4	4	3	3	3	3	3	2	5	3	7	A10

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK CONC	PEAK DAY
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
SAN DIEGO BASIN																																			
SAN DIEGO																																			
OXIDANT	.04	.02	.01	.03	.06	.02	.03	.04	.03	.04	.03	.04	.03	.03	.03	.04	.03	.04	.03	.04	.04	.05	.04	.04	.07	.06	.08	.07	.08	.03	.05	.08	.04	.13	A27
CARBON MONOXIDE	7	9	6	8	11	11	4	7	8	8	9	6	7	4	7	8	5	6	4	5	3	6	6	6	7	7	10	11	8	8	6	11	7	13	A28
NITROGEN DIOXIDE	.05	.08	.04	.05	.08	.13	.04	.06	.03	.02	.10	.05	.06	.04	.04	.05	.03	.05	.04	.02	.02	.04	.04	.04	.06	.06	.10	.05	.07	.04	.05	.13	.05	.14	6
NITRIC OXIDE	.05	.11	.05	.07	.23	.20	.05	.08	.06	.14	.14	.06	.06	.03	.02	.09	.05	.09	.04	.04	.01	.03	.05	.05	.05	.07	.17	.23	.13	.08	.05	.23	.08	.30	A 5
OXIDES OF NITROGEN	.09	.19	.08	.11	.27	.27	.09	.11	.09	.15	.21	.11	.12	.06	.06	.13	.07	.14	.08	.06	.03	.06	.09	.09	.10	.11	.21	.28	.16	.11	.10	.28	.12	.35	28
HYDROCARBONS	3	4	3	4	5	5	3	5	5	4	4	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	6	6	4	4	6	3	13	A 8
CHOLLAS HEIGHTS																																			
OXIDANT	.09	.06	.05	.08	.09	.07	.06	.07	.06	.05	.06	.08	.07	.08	.08	.08	.05	.06	.06	.06	.06	.06		.09	.16	.17	.15	.10	.17	.06	.07	.17	.08	.19	A26
EL CAJON																																			
OXIDANT	.08	.09	.08	.10	.01	.07			.06	.05	.10	.10	.09	.09	.08	.09	.06	.06	.08	.06	.05	.07	.09	.09	.13	.13	.13	.13	.15	.07	.10	.15	.08	.16	29
NESTOR																																			
OXIDANT	.06	.04	.04	.06	.07	.05	.04	.05	.04	.04	.05	.05	.04	.04	.04	.05	.04	.04	.04	.04	.04	.05	.05	.06	.09	.09	.09	.06	.09	.05	.06	.09	.05	.12	A26
MISSION VALLEY																																			
OXIDANT	.11	.09	.10	.10	.12	.09	.09	.10	.10	.07	.09	.07	.06	.05	.07	.08	.08	.10	.06	.07	.07		.11	.07	.13	.17	.15	.15	.19	.06	.05	.19	.09	.20	26
NITROGEN DIOXIDE	.03	.15	.06	.07	.11	.03	.06	.06	.12	.04	.10	.12	.06	.02	.02	.06	.05	.06	.14	.03	.02	.02	.02	.05	.08	.10	.11	.04	.05	.06	.08	.15	.06	.22	12
NITRIC OXIDE	.02	.18	.07	.15	.16	.17	.03	.05	.12	.06	.06	.12	.06	.03	.02	.06	.07	.12	.01	.04	.04	.04	.05	.07	.10	.07	.25	.13	.06	.03	.05	.25	.08	.45	27
OXIDES OF NITROGEN	.04	.26	.12	.19	.24	.07	.08	.08	.24	.09	.14	.24	.09	.04	.04	.12	.12	.13	.02	.07	.05	.06	.05	.12	.16	.14	.32	.17	.10	.09	.13	.32	.12	.54	27
OCEANSIDE																																			
OXIDANT	.04	.04	.05	.08	.09	.07	.05	.09	.07	.06	.05	.05	.06	.04	.06	.07	.08	.07	.08	.08	.07	.08	.09	.10	.18	.21	.24	.07	.06	.05	.06	.24	.08	.27	27
SACTO VALLEY BASIN																																			
CHICO																																			
OXIDANT	.13	.13	.12	.09	.08	.10	.08	.07	.14	.08	.15	.12	.12	.11	.09	.10	.11	.10	.15	.09	.09	.05	.07	.09	.10	.11	.09	.09	.08	.07	.06	.15	.09	.16	A11
CARBON MONOXIDE	3	3	2	1	2	2	5	3	6	5	5	2	3	2	2	3	3	3	2	3	2	3	3	4	4	2	1	2	2	2	3	6	2	18	2
NITROGEN DIOXIDE	.05	.05	.02	.02	.04	.02	.05	.04	.09	.06	.06	.02	.03	.04	.05	.06	.08	.07	.04	.08	.03	.04	.05	.07	.08	.03	.02	.05	.02	.03	.05	.09	.04	.10	17
NITRIC OXIDE	.00	.01	.00	.01	.01	.01	.04	.02	.02	.05	.01	.00	.00	.00	.00	.01	.01	.01	.00	.01	.01	.03	.01	.04	.01	.01	.00	.01	.00	.01	.06	.06	.01	.07	31
OXIDES OF NITROGEN	.05	.06	.02	.03	.05	.03	.09	.05	.11	.11	.07	.02	.03	.04	.05	.07	.08	.07	.04	.08	.03	.07	.06	.08	.08	.04	.02	.06	.02	.04	.10	.11	.05	.13	A 9
HYDROCARBONS	4	4	3	3	4	4	4	4	5	5	5	3	3	4	4	4	4	4	4	4	3	4	4	4	4	4	3	4	3	3	4	5	3	16	A 2
SACTO 13TH AND J ST																																			
OXIDANT	.11	.07	.07	.03	.03	.05	.05	.07	.05	.08	.06	.05	.06	.08	.05	.06	.05	.09	.05	.05	.05	.04	.06	.08	.09	.06	.05	.05	.04	.05	.04	.11	.05	.12	1
CARBON MONOXIDE	3	3	3	3	2	4	3	2	5	5	3	3	4	3	2	5	3	5	3	3	2	2	6	5	4	4	3	3	2	3	3	6	3	13	23
NITROGEN DIOXIDE	.04	.04	.03	.02	.03	.04	.04	.04	.06	.08	.03	.02	.04	.04	.03	.07	.05	.09	.03	.04	.04	.03	.09	.10	.07	.03	.03	.02	.02	.02	.06	.10	.04	.12	18
NITRIC OXIDE	.01	.03	.03	.01	.04	.13	.02	.01	.11	.04	.05	.03	.03	.03	.01	.05	.03	.08	.03	.02	.02	.02	.07	.08	.05	.02	.03	.02	.01	.03	.05	.11	.03	.11	9
OXIDES OF NITROGEN	.04	.05	.05	.03	.06	.06	.05	.04	.17	.10	.07	.04	.06	.06	.04	.08	.07	.15	.05	.04	.05	.04	.13	.11	.08	.04	.05	.04	.02	.05	.10	.17	.06	.20	18
HYDROCARBONS	4	4	4	3	3	4	3	3	4	4	3	4	4	4	3	4	4	4	4	4	2	3	5	4	5	3	3	3	2	3	4	5	3	13	A20
SACTO CREEKSIDE																																			
OXIDANT	.14	.09	.09	.04	.06	.08	.06	.06	.09	.14	.08	.06	.06	.06	.04				.06	.06	.05	.00				.03	.04	.04	.03	.04	.04	.14	.06	.16	A 1
SACTO 10TH AND P ST.																																			
OXIDANT	.19	.11	.09	.06	.08	.11	.09	.12	.13	.13	.10	.05	.08	.11	.07	.11	.09	.10	.07	.07	.05	.05	.08	.10	.11	.07	.05	.06	.05	.06	.06	.19	.08	.20	1
CARBON MONOXIDE	2	2	1	1	1	1	1	1	5	2	2	2	2	1	1	2	2	4	1	1	1	1	4	4	2	1	2	1	0	1	4	5	1	8	24
NITROGEN DIOXIDE	.07	.05	.04	.02	.03	.03	.03	.03	.09	.08	.04	.03	.04	.03	.03	.05	.03	.12	.03	.03	.01	.02	.10	.08	.04	.02	.04	.02	.02	.02	.05	.12	.04	.16	18
NITRIC OXIDE	.01	.02	.01	.02	.03	.03	.03	.03	.11	.05	.05	.03	.00	.02	.01	.05	.03	.15	.01	.04	.04	.02	.08	.11	.03	.02	.01	.01	.01	.01	.10	.15	.03	.24	24
OXIDES OF NITROGEN	.07	.05	.04	.04	.05	.05	.06	.05	.20	.09	.09	.04	.04	.04	.04	.10	.06	.20	.03	.05	.05	.03	.18	.15	.06	.03	.05	.03	.02	.03	.15	.20	.07	.33	A24
HYDROCARBONS	1	1	2	2	2	2	2	3	3	2	2	2	2	2	2	2	3	4	3	4	4	4	6	6	4	2	3	2	2	3	4	6	2	9	A24
REDDING																																			
OXIDANT	.10	.13	.11	.12	.08	.10	.11	.11	.07	.07	.12	.16	.12	.13	.13	.10	.12	.11	.15	.10	.09	.06	.06	.09	.15	.16	.13	.13	.10	.05	.06	.16	.10	.17	A26
CARBON MONOXIDE	2	3	3	3	3	4	3	2	3	3	3	5	5	4	3	3	3	6	5	4	2	2	3	4	5	4	7	5	2	4	3	7	3	10	18
NITROGEN DIOXIDE	.04	.05	.05	.05	.05	.06	.05	.05	.03	.03	.06	.07	.05	.07	.07	.06	.06	.07	.08	.07	.03	.03	.02	.08	.09	.07	.08	.07	.04	.04	.03	.09	.05	.12	19
NITRIC OXIDE	.00	.00	.01	.02	.01	.01	.03	.01	.00	.00	.00	.01	.00	.00	.02	.01	.03	.00	.03	.01	.01	.00	.01	.02	.03	.02	.03	.00	.04	.01	.04	.01	.01	.10	18
OXIDES OF NITROGEN	.04	.05	.05	.05	.06	.07	.06	.07	.04	.03	.06	.07	.06	.07	.07	.07	.06	.10	.08	.09	.03	.03	.02	.09	.10	.10	.10	.10	.04	.08	.04	.10	.06	.18	A18
HYDROCARBONS	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5	4	7	3	3	3	3	4	4	4	4	3	4	3	7	3	17	20
YUBA CITY																																			
OXIDANT	.11	.11	.11	.10	.08	.09	.06	.09	.11	.13	.13	.11	.12	.12	.09	.12	.12	.13	.12	.10	.09	.07	.08	.11	.15	.11	.10	.08	.07	.05	.05	.15	.10	.16	25
NITROGEN DIOXIDE	.05	.03	.02	.02	.02	.03	.04	.03	.04	.03	.04	.02	.02	.02	.02	.02	.05	.04	.02	.02	.02	.05	.07	.04	.03	.02	.02	.01	.01	.02	.04	.07	.02	.07	17
NITRIC OXIDE	.00	.01	.00	.00	.00	.00	.00	.00	.02	.01	.01	.00	.00	.00	.00	.00	.02	.02	.00	.01	.01	.01	.09	.02	.04	.05	.00	.00	.00	.00	.01	.09	.01	.12	22
OXIDES OF NITROGEN	.05	.04	.02	.02	.02	.03	.04	.03	.04	.04	.05	.02	.02	.02	.02	.02	.05	.05	.02	.02	.01	.03	.13	.09	.07	.07	.02	.01	.01	.02	.05	.13	.03	.16	22
HYDROCARBONS																	3	4	4	2	2	2	6	4	6	4	2	2	2	2	4	6	3	8	A24
SAN JOAQ VALLEY BASIN																																			
FRESNO COURT ROOF																																			
OXIDANT	.13	.16	.09	.08	.08	.08	.06	.09	.15	.12	.11	.12	.11	.08	.07	.12	.12	.15	.11	.06	.06	.04	.06	.07	.11	.09	.08	.08	.07	.06	.06	.16	.09	.19	2
CARBON MONOXIDE	2	3	1	1	1	1	1	1	2	3	2	3	2	2	1	4	3	3	3	1	1	1	3	3	4	1	1	1	1	2	2	4	1	6	A16
NITROGEN DIOXIDE	.06	.06	.04	.04	.05	.05	.04	.04	.06	.10	.06	.05	.07	.05	.04	.08	.05	.07	.07	.04	.04	.04	.06	.04	.03	.05	.05	.03	.03	.03	.02	.10	.04	.10	10
NITRIC OXIDE	.02	.04	.03	.04	.02	.04	.00	.01	.02	.10	.01	.01	.02	.04	.02	.04	.03	.04	.02	.02	.02	.01	.07	.03	.00	.02	.04	.05	.00	.04	.02	.10	.02	.13	10
OXIDES OF NITROGEN	.07	.10	.06	.07	.05	.08	.04	.04	.06	.16	.07	.06	.07	.08	.06	.09	.07	.10	.09	.04	.04	.05	.11	.05	.03	.07	.07	.03	.03	.06	.04	.16	.06	.20	10
HYDROCARBONS	3	4	3	3	3	3	3	4	5	4	3	3	4	3	3	4	3	3	4	3	3	3	3	4	4	4	3	3	3	3	2	5	3	7	10
BKRSFLD GOLDEN STATE																																			
OXIDANT	.07	.11	.07	.07	.07	.12	.05	.07	.05	.12	.13	.08	.09											.05	.11	.13	.11	.11	.11	.08	.09	.07	.13	.08	.15	A11
NITROGEN DIOXIDE	.08	.08	.08	.09	.07	.08	.07	.08	.09	.11	.09	.10	.08																				.11	.08	.12	12
NITRIC OXIDE		.02	.02	.06	.04	.05	.10	.11	.06	.11	.06	.10	.16																				.16	.07	.19	13
OXIDES OF NITROGEN		.10	.08	.13	.10	.12	.16	.17	.12	.22	.15	.18	.24																				.24	.14	.27	10
HYDROCARBONS	7	14	5	11	5	8	9	8	10	7																							14	8	16	2

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MAXIMUM HOURLY AVERAGE CONCENTRATION BY DAY AND MONTH FOR SPECIFIED CONTAMINANTS
CALIFORNIA AIR MONITORING STATIONS
JUNE, JULY AND AUGUST 1971

PARTS PER MILLION

PLACE AND CONTAMINANT	DAY OF MONTH																													MAX HOURLY AVG	AVG OF MAX HOURLY AVG	PEAK	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			CONC	DAY
AUGUST																																			
SAN JOAQ VALLEY BASIN																																			
BAKERSFIELD																																			
OXIDANT		.11	.12	.12	.11	.16	.09	.11	.10	.13	.12	.10	.10	.10	.12	.10	.14	.16	.13	.09	.07	.05	.08	.10	.11	.12	.10	.12	.09	.08	.07	.16	.10	.17	A 6
CARBON MONOXIDE										10	4	3	7	6	3	7	8	9	5	5	4	7	5	6	4	5	4	8	4	9	3	10	5	15	10
NITROGEN DIOXIDE		.09	.09	.08	.08	.09	.08	.09	.09	.10	.06	.12	.07	.07	.07	.08	.09	.08	.09	.08	.08	.05	.06	.06	.09	.09	.08	.08	.08	.07	.06	.12	.08	.15	12
NITRIC OXIDE		.01	.01	.07	.07	.04	.08	.13	.06	.10	.02	.06	.18	.03	.17	.10	.10	.13	.06	.04	.09	.13	.11	.04	.06	.05	.13	.05	.11	.04	.03	.18	.07	.21	15
OXIDES OF NITROGEN		.10	.09	.14	.14	.10	.15	.21	.15	.20	.08	.18	.25	.10	.24	.18	.19	.19	.11	.09	.17	.18	.15	.09	.15	.12	.21	.13	.18	.11	.08	.25	.14	.28	15
HYDROCARBONS										7	7	6	11	6	10	8	8	12	8	7	8	7	8	6	6	6	6	5	7	6	6	12	7	14	18
STOCKTON HAZELTON ST																																			
OXIDANT	.07	.07	.04	.04	.05	.09	.03	.05	.06	.09	.11	.08	.09	.07	.06	.06	.08	.08	.08	.03	.03	.02	.05	.05	.04	.05	.07	.06	.05	.04	.04	.11	.05	.12	11
CARBON MONOXIDE	2	2	2	3	1	2	2	2	4	2	2	2	2	3	2	3	4	2	2	2	2	1	4	6	3	1	1	1	1	2	6	2	12	17
NITROGEN DIOXIDE	.05	.05	.02	.04	.04	.05	.05	.04	.04	.08	.04	.05	.04	.06	.04	.05	.05	.06	.06	.03	.03	.02	.05	.05	.06	.04	.03	.03	.02	.02	.04	.08	.04	.08	10
NITRIC OXIDE	.02	.03	.02	.07	.03	.03	.05	.03	.11	.01	.03	.01	.01	.00	.02	.03	.06	.00	.00	.02	.04	.02	.18	.13	.06	.00	.03	.00	.01	.01	.00	.18	.03	.23	23
OXIDES OF NITROGEN	.05	.07	.03	.09	.05	.08	.09	.05	.15	.08	.07	.05	.04	.06	.06	.08	.10	.06	.06	.04	.07	.04	.22	.18	.11	.04	.06	.03	.03	.03	.04	.22	.07	.27	23
HYDROCARBONS	4	4	3	4	4	5	6	4	5	4	4	3	3	4	4	4	5	5	4	3	4	3	5	7	4	3	3	3	3	3	5	7	4	20	18
STOCKTON HOTEL																																			
CARBON MONOXIDE	3	7	6	6	5	7	4	3	7	10	7	6	7	3	2	6	7	7	7	6	3	2	7	10	7	8	7	3	2	5	5	10	5	22	A 6
MODESTO																																			
OXIDANT	.15	.14	.09	.10	.10	.13	.08	.07	.14	.18	.19	.15	.12	.09	.06	.12	.10	.13	.14	.06	.06	.06	.09	.11	.16	.15	.13	.10	.07	.07	.07	.19	.11	.23	11
CARBON MONOXIDE	2	3	2	2	2	2	1	1	2	3	2	3	2	2	1	2	2	3	2	2	2	1	2	3	2	2	3	2	2	3	2	3	2	8	A10
NITROGEN DIOXIDE	.06	.04	.03	.04	.04	.04	.05	.04	.04	.09	.05	.02	.03	.03	.03	.03	.04	.08	.04	.03	.02	.03	.05	.06	.04	.04	.04	.03	.03	.03	.04	.09	.04	.11	10
NITRIC OXIDE	.03	.01	.01	.01	.02	.06	.03	.01	.09	.04	.08	.01	.01	.01	.03	.01	.02	.06	.01	.02	.02	.02	.06	.07	.01	.01	.01	.01	.01	.01	.01	.09	.02	.14	9
OXIDES OF NITROGEN	.05	.04	.03	.04	.04	.08	.06	.04	.12	.12	.13	.03	.03	.04	.06	.03	.04	.09	.05	.04	.03	.04	.09	.11	.04	.04	.04	.04	.03	.03	.05	.13	.05	.20	11
HYDROCARBONS	3	4	3	3	3	3	4	3	4	6	4	3	3	3	3	3	3	4	3	3	3	3	4	4	3	3	3	3	2	3	3	6	3	8	10
VISALIA																																			
OXIDANT	.14	.13	.11	.09	.13	.11	.11	.12	.12	.12	.12	.11	.11	.08	.07	.16	.15	.10	.13	.11	.10	.06	.08	.09	.11	.10	.09	.10	.08	.08	.06	.16	.10	.18	16
CARBON MONOXIDE	5	4	5	6	7	6	6	5	6	7	6	5	5	4	4	5	6	9	9	8	4	3	5	6	4	3	3	3	3	3	2	12	6	13	31
NITROGEN DIOXIDE	.09	.04	.04	.04	.05	.06	.05	.04	.05	.06	.09	.04	.04	.05	.04	.03	.03	.04	.04	.05	.04	.03	.03	.05	.04	.03	.05	.03	.03	.03	.02	.09	.04	.10	A 1
NITRIC OXIDE	.00	.01	.02	.01	.02	.01	.01	.00	.00	.00	.00	.00	.01	.00	.00	.01	.01	.01	.01	.01	.02	.02	.04	.02	.01	.01	.00	.01	.00	.01	.15	.15	.01	.25	31
OXIDES OF NITROGEN	.09	.04	.05	.05	.06	.05	.04	.05	.06	.09	.09	.04	.04	.05	.04	.04	.04	.04	.04	.05	.06	.04	.07	.06	.04	.04	.05	.03	.03	.03	.17	.17	.05	.28	31
HYDROCARBONS	4	10	4	7	5	3	3	3	3	3	3	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	10	3	15	2
SE DESERT BASIN																																			
BANNING																																			
OXIDANT	.09	.05	.08	.05	.13	.08	.07	.11	.05	.07	.04	.10	.08	.06	.10	.16	.09	.12	.10	.06	.06	.06	.09	.09	.08	.10	.11	.10	.13	.05	.12	.16	.08	.18	16
NITROGEN DIOXIDE	.02	.02	.02	.02	.03	.04	.04	.04	.04		.02	.02	.02	.02	.02	.02	.03	.03	.04	.03	.02	.02	.03	.03	.04	.06	.03	.03	.02	.02	.03	.06	.02	.06	26
NITRIC OXIDE	.02	.02	.02	.02	.03	.02																										.03	.02		
OXIDES OF NITROGEN	.04	.04	.04	.04	.06	.06																										.06	.04	.08	A 5
PALM SPRINGS																																			
OXIDANT					.15	.13	.13	.11	.08	.07	.07	.08	.08	.08	.09	.14	.09	.11	.07	.06	.05	.07	.08	.11	.12	.06	.09	.09	.11	.05	.14	.15	.09	.16	5
NITROGEN DIOXIDE									.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01			.01	.02	.02	.02	.02	.02		.00	.02	.02	.01	.04	A25
NITRIC OXIDE											.01	.01	.00	.00	.01	.01	.01	.01	.00	.01			.00	.00	.01	.00	.01	.01		.00	.00	.01	.00		
OXIDES OF NITROGEN											.01	.02	.01	.01	.01	.01	.01	.02	.01	.01			.01	.02	.02	.02	.02	.02	.01	.02	.02	.02	.01	.05	A25
INDIO																																			
OXIDANT	.14	.09	.09	.06	.21	.23	.18	.07	.11	.08	.07	.08	.09	.12	.19	.18	.17	.20	.10	.06	.07	.11	.13	.23	.15	.11	.14	.17	.23	.09	.18	.23	.13	.26	A 6
CARBON MONOXIDE																			8	8	8	9	8	7	7	7	7	5	6	7	13	13	7	13	31
NITROGEN DIOXIDE	.01	.04	.04	.04	.04	.02	.03	.04	.06	.06	.03	.01	.02	.03	.02	.03	.01	.02	.03	.01	.01	.02	.03	.02	.04	.04	.04	.04	.03	.02	.03	.06	.02	.07	A10
NITRIC OXIDE	.01	.00	.01	.00	.01	.00			.02	.00	.02		.00	.00		.01	.01	.03	.03	.01	.01	.03	.03	.02	.05	.02	.06	.04	.03	.02	.03	.08	.02	.11	9
OXIDES OF NITROGEN	.01	.04	.04	.04	.04	.02			.08	.01	.05		.01	.03		.01	.01	.03	.03	.01	.01	.03	.03	.02	.05	.02	.06	.04	.03	.02	.03	.08	.02		
VICTORVILLE																																			
OXIDANT	.08	.06	.09	.08	.07	.10	.08	.05	.09	.09	.09	.10	.09	.09	.08	.11	.11	.12	.13	.09	.11	.07	.09	.09	.10	.09	.07	.06	.06	.08	.12	.13	.08	.13	16

A: INDICATES THE FIRST DAY OF TWO OR MORE DAYS WITHIN THE MONTH HAVING THE SAME PEAK CONCENTRATION
SOURCE: STATE OF CALIFORNIA, AIR RESOURCES BOARD, AIR MONITORING RECORDS

PARTICULATE MATTER
DAILY MEAN COH VALUES BY THE AISI METHOD
CALIFORNIA AIR MONITORING STATIONS

JUNE, JULY AND AUGUST 1971

CITY BY BASIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HIGHEST DAILY AVERAGE VALUE	HIGHEST DAILY AVERAGE DAY	HIGHEST REPORTED READING VALUE	HIGHEST REPORTED READING DAY
J U N E																																			
SF BAY AREA BASIN																																			
RICHMOND	.1	.2	.1	.2	.2	.1	.1	.1	.1	.1	.1	.0	.1	.3	.3	.4	.3	.2	.1	.1	.2	.1	.1	.1	.1	.1	.0	.2		.1		.4	16	.7	A15
PITTSBURG	.2	.2	.2	.2	.1	.1	.1	.2	.1	.1	.2	.1	.1	.2	.2	.2	.2	.1	.1	.1	.2	.2	.1	.2	.2	.1	.1	.2	.2	.2		.2	A 1	.3	A 4
SAN RAFAEL	.2	.2	.2	.2	.2	.1	.1	.2	.2	.2	.2	.1	.1	.2	.3	.3	.2	.2	.1	.1	.2	.2	.2	.2	.2	.2	.1	.2	.2	.2		.3	A15	.5	A 4
NAPA	.3	.3	.2	.3	.3	.3	.2	.3	.2	.2	.4	.2	.3	.3	.4	.3	.4	.3	.3	.3	.2	.2	.3	.3	.3	.3	.3	.4	.3	.3		.4	A11	.7	1
REDWOOD CITY	.1	.2	.2	.1	.1	.1	.1	.1	.1	.1	.2	.1	.1	.5	.6	.6	.4	.3	.2	.2	.3	.2	.1	.2	.2	.1	.1	.2	.3	.3		.6	A15	.8	A14
BURLINGAME	.1	.2	.1	.1	.2	.1	.1	.2	.1	.2	.1	.1	.1	.3	.6	.5	.4	.2	.2	.3	.4	.2	.1	.1	.1	.1	.1	.1	.2	.2		.6	15	1.0	15
SAN JOSE ALMA ST.	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.4	.2	.2	.4	.6	.6	.6	.4	.2	.3	.4	.3	.3	.3	.3	.2	.2	.3	.4	.4		.6	A15	1.0	17
FAIRFIELD	.2	.3	.2	.2	.2	.2	.3	.2	.2	.2	.3	.2	.2	.2	.3	.3	.3	.2	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2		.3	A 2	.5	A 2
VALLEJO TRAILER	.1	.1	.2	.2	.2	.1	.2	.2	.1	.1	.2	.1	.1	.2	.3	.2	.2	.1	.0	.1	.2	.1	.1	.2	.1	.1	.1	.1	.2	.2		.3	15	.9	16
OAKLAND	.2	.3	.3	.3	.2	.2	.3	.2	.3	.2	.2	.1	.5	.3	.4	.4	.4	.2	.1	.1	.3	.2	.2	.2	.2	.1	.1	.2	.2	.2		.5	13	1.1	16
LIVERMORE RAILROAD	.2	.2	.2	.2	.2	.2	.2	.2	.1	.2	.2	.2	.1	.3	.4	.5	.4	.2	.3	.4	.4	.2	.3	.2	.2	.2	.2	.3	.3	.3		.5	16	.8	A16
FREMONT CHAPEL WAY	.1	.2	.3	.1	.2	.2	.1	.1	.2	.2	.2	.1	.1	.2	.4	.6	.3	.1	.1	.1	.2	.1	.1	.2	.2	.1	.1	.2	.2	.2		.6	16	1.0	A 3
SAN FRANCISCO ELLIS	.5	.5	.5	.5	.5	.3	.5	.5	.4	.5	.4	.4	.3	.6	1.0	.9	.8	.5	.3	.2	.4	.4	.4	.4	.5	.4	.3	.4	.4	.3		1.0	15	1.6	A15
NORTH CENTRAL BASIN																																			
SALINAS NATIVIDAD RD	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2		.2	A 1	.4	16
SALINAS	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.3	.4	.3	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2		.4	16	.8	16
GONZALES	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.3	.3	.2	.2		.2	.2	.2	.2	.2	.2	.2	.2	.2	.2		.3	A15	.6	16
MONTEREY	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2		.2	A 1	.5	22
SANTA CRUZ	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2			.2	.2	.2	.2	.2	.2	.2	.2	.2	.2		.2	A 1	.3	4
SOUTH CENTRAL BASIN																																			
SAN LUIS OBISPO	.1	.1	.1	.1	.2	.0	.1	.1	.1	.1	.1	.1	.1	.1	.2	.4	.4	.3	.1	.1	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1		.4	A16	1.1	18
SOUTH COAST BASIN																																			
ANAHEIM	.3	.3	.4	.7	.4	.3	.3	.3	.4	.3	.7	.7	.4	.3	.4	.4	.4	.3	.4	.4	.4	.4	.4	.3	.3	.3	.2	.3	.4	.3		.7	A 4	1.7	12
LA HABRA	.6	.3	.7	.8	.5	.4	.4	.7	.6	.6	.5	.8	.6	.7	.7	.8	.5	.4	.3		.5	.4	.5	.7	.5	.5	.3	.5	.5	.7		.8	A 4	2.4	1
RIVERSIDE	.1	.2	.2	.4	.3	.2	.2	.3	.2	.2	.2	.5	.3	.6	.6	.5	.5	.4	.6	.5	.5	.4	.5	.4	.3	.2	.2	.1	.3	.3		.6	A14	1.3	A15
REDLANDS	.2	.3	.4	.5	.5	.4	.5	.6	.4	.3	.5	.6	.5	.5	.5	.4	.3	.3	.3	.2	.2	.2	.2	.4								.6	A 8	1.1	A 8
SAN DIEGO BASIN																																			
SAN DIEGO	.2	.2	.2	.3	.3	.2	.2	.2	.2	.1	.3	.1	.2	.4	.4	.3	.3	.4			.3	.2	.1	.2	.3	.2	.1	.1	.2	.3		.4	A14	1.1	15
EL CAJON	.1	.1	.3	.4	.5	.3	.3	.3	.3	.1	.3	.3	.2	.3	.5	.5	.4	.5	.4	.4	.5	.6	.5	.5	.3	.3	.2	.3	.2	.3		.6	22	1.4	A22
SACTO VALLEY BASIN																																			
CHICO	.2	.1	.2	.2	.2	.1	.2	.3	.2	.1	.2	.2	.1	.2	.2	.1	.2	.1	.1	.1	.2	.2	.1	.2	.2	.1	.1	.1	.2	.3		.3	A 8	.8	15
SACTO 13TH AND J ST	.2	.3	.1	.1	.2	.3	.1	.1	.0	.0	.2	.1	.1	.1	.1	.2	.1	.1	.0	.1	.1	.1	.1	.1	.1	.0	.2	.1	.2	.1		.3	A 2	.7	A 1
SACTO STOCKTON BLVD	.4	.2	.2	.1	.1	.1	.1	.1	.1	.1	.2	.0	.1	.2	.3	.2	.2	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.2	.3		.4	1	.9	15
SACTO CREEKSIDE	.2	.0	.1	.1	.1	.2	.1	.1	.1	.2	.2	.1	.1	.2	.4	.2	.2	.1	.0	.1	.2	.1	.1	.0	.1	.0	.1	.0	.2	.0		.4	15	.8	15
REDDING	.1	.1	.2	.1	.0	.0	.1	.1	.2	.1	.1	.1	.1	.0	.0	.1	.1	.0	.1	.1	.1	.1	.1	.2	.3	.1	.0	.0	.1	.1		.3	25	1.2	25
SAN JOAQ VALLEY BASIN																																			
FRESNO CEDAR ST	.3	.3	.3	.3	.2	.3	.3	.3	.2	.3	.3	.3	.2	.3	.4	.4	.4	.3	.2	.3	.4	.3	.3	.3	.3	.3	.2	.3	.3	.3		.4	A15	.8	16
BKRSFLD GOLDEN STATE	.2	.3	.2	.3	.5	.4	.3	.4	.3	.3	.3	.3	.2	.4	.8	.5	.5	.6	.3	.3	.5	.5	.5	.5	.4	.3	.2	.3	.6	.6		.8	15	1.4	17
BKRSFLD FLOWER ST	.3	.3	.2	.3	.4	.4	.3	.3	.3	.2	.4	.5	.2	.3	.5	.5	.5	.3	.3	.4	.3	.4	.4	.5	.4	.2	.3	.4	.5	.5		.5	A12	1.1	A 5
BAKERSFIELD		.4	.4	.5	.6	.6	.5	.5	.3	.4	.5	.4	.3	.5	.6	.6	.6	.6	.4	.4	.6	.5	.5	.6	.4	.4	.2	.3	.6	.6		.6	A 5	1.4	A 4
MERCED	.3	.3	.4	.4	.4	.4	.4	.3	.3	.3	.3	.3	.4	.3	.3	.3	.4	.4	.3	.3	.4	.4	.4	.4	.3	.3	.3	.4	.5	.4		.5	29	.8	A 4
STOCKTON HAZELTON ST	.2	.3	.3	.3	.2	.2	.2	.3	.2	.3	.3	.2	.2	.2	.3	.2	.3	.3	.3	.3	.4	.2	.3	.3	.2	.2	.2	.2	.2	.3		.4	21	1.1	21
TRACY	.2	.2	.3	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.3	.2	.3	.2	.2	.2	.3	.2	.2	.3	.2	.3	.3	.2	.2	.3		.3	A 3	1.7	27
LODI	.2	.2	.3	.2	.2	.3	.2	.3	.3	.2	.2	.3	.2	.2	.3	.2	.3	.3	.2	.2	.2	.3	.3	.2	.2	.2	.2	.2	.2			.3	A 3	1.1	6
MODESTO	.2	.3	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.3	.2	.3	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.4		.4	30	1.0	A21
VISALIA	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1	.2	.1	.1	.1	.1	.2	.2	.1	.1	.2	.2	.2	.2	.2	.2	.1	.1	.2	.2	.3		.3	30	1.4	A 9
SE DESERT BASIN																																			
BANNING	.2	.1	.4	.4	.3	.3	.3	.4	.2	.3	.4	.4	.2	.3	.4	.5	.4	.4	.3	.3	.5	.5	.6	.5	.4	.4	.4	.3	.4	.5		.6	23	1.0	A15
PALM SPRINGS																		.3	.4	.3	.3	.8	.1	.4	.7	.0	.1	.1	.3	.8		.8	A22	2.9	A24
THERMAL	.2	.2	.2	.4	.2	.2	.4	.4	.4	.3	.2	.3	.2	.3	.3	.3	.3	.4	.3	.2	.3	.3	.3	.1	.3	.2	.2	.2	.2	.3		.4	A 4	.9	4
INDIO	.0	.1	.2	.3	.8	.1	.1	.2	.9	.2	.1	.2	.1	.2	.3	.2	.3	.2	.3	.2	.4	.3	.3	.4	.4	.2	.1	.3	.2	.4		.9	9	2.9	9
VICTORVILLE	.3	.3	.4	.3	.4	.3	.4	.5	.4	.4	.4	.4	.3	.2	.1	.1	.1	.2	.2	.3	.2	.0	.1	.2	.3	.3	.2	.2		.0		.5	8	.9	A 6
J U L Y																																			
SF BAY AREA BASIN																																			
RICHMOND	.2					.2	.1	.1	.1	.1	.2	.2	.2	.2	.1	.1	.1	.1	.2	.0	.0	.1	.1	.1		.1	.1	.0	.1	.1	.0	.2	A 1	.6	11
PITTSBURG	.3	.2	.2	.3	.1	.3	.2	.1	.2	.1	.1	.2	.3	.3	.3	.3	.2	.2	.3	.3	.3	.3	.3	.2	.1	.3	.2	.2	.2	.2	.2	.3	A 1	.5	A 6
SAN RAFAEL	.2	.2	.1	.1	.1	.2	.2	.1	.2	.1	.1	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.1	.1	.2	.1	.1	.2	.3	.1	.3	A15	.6	15
NAPA	.3	.4	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	.3	.4	.3	.3	.4	.4	.4	.3	.3	.3	.4	.4	.3	.4	.5	.4	.3	.3	.4	.5	A 5	.8	A 2
REDWOOD CITY	.3	.2	.1	.2	.2	.3	.2	.1	.2	.1	.1	.3	.5	.4	.3	.3	.3	.3	.3	.3	.2	.3	.3	.1	.1	.2	.2	.1	.2	.2	.2	.5	13	.8	6
BURLINGAME	.2	.1	.1	.1	.2	.1	.1	.1	.1	.0	.1	.2	.5	.3	.2	.4	.3	.3	.3	.2	.3	.4	.1	.1	.2	.1	.0	.1	.1	.3	.1	.5	13	.7	13
SAN JOSE ALMA ST.	.4	.3	.2	.2	.2	.3	.3	.3	.3	.3	.3	.5	.6	.5	.5	.5	.4	.4	.5	.5	.4	.5	.5	.2	.2	.4	.3	.3	.3	.4	.4	.6	13	1.1	A13
FAIRFIELD	.2	.2	.3	.3	.3	.2	.3	.2	.4	.4	.3	.2	.3	.4	.3	.3	.2	.3	.3	.3	.3	.4	.3	.4	.3	.3	.3	.3	.3	.4	.2	.4	A 9	.6	A 7
VALLEJO TRAILER	.2	.2	.2	.2	.2	.2	.2	.2	.1	.1	.1	.2	.3	.2	.2	.2	.2	.1	.2	.2	.2	.2	.2	.1	.1	.2	.3	.2	.2	.2	.2	.3	A13	.7	23
OAKLAND	.2	.1	.1	.1	.1	.2	.1	.1	.2	.1	.1	.3	.4	.2	.2	.2	.1	.2	.3	.2	.2	.2	.1	.1	.2	.2	.1	.1	.1	.2	.1	.4	13	.8	A12
LIVERMORE RAILROAD	.3	.2	.3	.2	.3	.3	.3	.2	.2	.3	.2	.4	.4	.5	.4	.4	.2	.3	.4	.4	.4	.3	.4	.2	.2	.3	.2	.2	.2	.3	.3	.5	14	.8	14
FREMONT CHAPEL WAY	.2	.2	.1	.1	.1	.2	.2	.1	.1	.1	.1	.3	.5	.5	.3	.5	.4	.4	.3	.3	.3	.4	.3	.1	.2	.2	.1	.1	.1	.2	.2	.5	A13	.7	A14
SAN FRANCISCO ELLIS	.4	.4	.2	.2	.3	.4	.3	.4	.4	.3	.3	.5	.4	.4	.4	.4	.4	.3	.4	.4	.3	.4	.4	.3	.2	.3	.3	.4	.4	.4	.4	.5	12	.8	12
NORTH CENTRAL BASIN																																			
SALINAS NATIVIDAD RD	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	A 1	.4	30
SALINAS	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.3	A12	.6	A12
GONZALES	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	13	.7	17
MONTEREY	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	A 1	.7	4
SANTA CRUZ	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	A 1	.3	A15
SOUTH CENTRAL BASIN																																			
SAN LUIS OBISPO	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	.0	.0	.0	.1	.1	.1	.2	.1	.2	A17	.3	A 1
SOUTH COAST BASIN																																			
ANAHEIM	.3	.2	.3	.2	.2	.3	.4	.9	1.1	1.0	.9	.9	.8	.7	.6	.7			.9	.9	.9	.7	.6	.5	.6	.7	.8	.6	.6	.6	.9	1.1	9	1.9	A 8
LA HABRA	.6	.5	.5	.7	.7	.6	.7	.8	.7	.8	.8	.6	.7	.7	.8	.5	.6	.6	.8	.7	.8	.7	.6	.4	.6	.9	.9	.7	.7	.8	.9	.9	A26	1.7	A21
RIVERSIDE	.3	.4	.3	.2	.2	.3	.4	.6	.6	.5	.4		.3	.3	.3	.2	.3	.4	.3	.4	.5	.4	.3	.4	.3	.3	.4	.7				.7	28	1.5	9
SAN BERNARDINO	.5	.6	.3	.4	.3	.3	.5	.6	.6	.5	.3	.4	.5	.6	.6	.6	.4	.3	.4	.5	.7	.6	.5	.4	.2	.5	.5	.5	.5	.3		.7	21	1.3	14
REDLANDS									.5	.4	.3	.2	.4	.5	.5	.4	.4	.3	.3	.4	.5	.3	.2	.2	.2	.3	.3	.3	.0	.0		.5	A 9	1.0	21

PARTICULATE MATTER
DAILY MEAN COH VALUES BY THE AISI METHOD
CALIFORNIA AIR MONITORING STATIONS

JUNE, JULY AND AUGUST 1971

CITY BY BASIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
J U L Y																
SAN DIEGO BASIN																
SAN DIEGO	.3	.2	.1	.1	.3	.4	.1	.2	.4	.4	.4	.4	.3	.1	.2	.4
EL CAJON	.3	.3	.2	.4	.3	.4		.2	.3	.2	.3	.3	.2	.2	.2	[illegible]
SACTO VALLEY BASIN																
CHICO	.4	.4	.2	.2	.2	.2	.2	.2	.1	.1	.1	.1	.2	.3	.3	.3
SACTO STOCKTON BLVD	.2	.1	.1	.2	.1	.2	.1	.1	.1	.1	.1	.2	.2	.3	.1	[illegible]
SACRAMENTO	.3	.3	.2	.2	.2	.2	.2	.2	.1	.2	.2	.3	.3	.3	.2	.2
REDDING	.1	.1	.0	.0	.0	.0	.1	.1	.1	.0		.1	.1	.1	.1	.2
SAN JOAQ VALLEY BASIN																
FRESNO CEDAR ST	.3	.3	.3	.3	.3	.4	.3	.3	.2	.3	.3	.3	.4	.4	.4	.4
BKRSFLD GOLDEN STATE	.6	.4	.3	.4	.3	.4	.4	.4	.3	.2	.3	.6	.6	.7	.6	.5
BKRSFLD FLOWER ST	.6	.5	.3	.4	.4	.3	.3	.3	.3	.2	.3	.4	.4	.4	.5	.5
BAKERSFIELD	.6	.5	.6	.5	.4	.5	.5	.5	.5	.4	.5	.6	.8	.8	.7	.5
MERCED	.4	.4	.4	.4	.4	.3	.4	.3	.3	.3	.3	.3	.3	.4	.4	.4
STOCKTON HAZELTON ST	.3	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.3	.4	.2	.3
TRACY	.2												.2	.3	.4	.3
LODI	.2	.3	.2	.2	.2	.2	.3	.2	.2	.2	.2	.2	.3	.2	.2	.2
MODESTO	.3	.2	.2	.1	.1	.2	.1	.1	.2	.1	.1	.2	.3	.3	.2	.2
VISALIA	.2	.4	.1	.2	.1	.2	.2	.2	.2	.2	.2	.2	.3		.2	.2
SE DESERT BASIN																
BANNING	.7	.5	.3	.3	.3	.2	.3	.6	.5	.4	.3					.5
PALM SPRINGS		.2	.2	.2	.4	.3	.1	.0	.2	.3	.1	.3	.2	.1	.3	.1
THERMAL	.3	.3	.2	.1	.1	.1	.3	.3	.3	.1	.1	.1	.4	.3	.1	.1
BARSTOW																
VICTORVILLE	.1	.3	.2	.3	.1	.1	.3	.3	.3	.2	.1	.3	.2	.2	.2	.2
A U G U S T																
SF BAY AREA BASIN																
RICHMOND	.1	.1	.1	.1	.0	.1	.1	.1	.1	.2	.1	.1	.1	.1	.0	.2
PITTSBURG	.2	.3	.2	.2	.2	.2	.2	.1	.2	.4	.3	.3	.3	.2	.1	.2
SAN RAFAEL	.1	.2	.1	.2	.2	.2	.1	.1	.2	.2	.2	.2	.2	.2	.1	.1
NAPA	.4	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.4	.3	.3	.3
REDWOOD CITY	.2	.2	.2	.2	.2	.3	.2	.2	.3	.3	.2	.2	.2	.2	.1	.1
BURLINGAME	.4	.2	.1	.4	.2	.3	.3	.3	.4	.5	.3	.1	.1	.2	.1	.3
SAN JOSE ALMA ST.	.4	.4	.4	.4	.4	.5	.4	.3	.5	.6	.4	.4	.4	.3	.3	.5
FAIRFIELD	.3	.3	.4	.3	.4	.3	.3	.3	.3	.4	.3	.3	.3	.3	.4	.3
VALLEJO TRAILER	.2	.3	.3	.2	.2	.3	.2	.2	.3	.4	.3	.2	.3	.2	.1	.2
PETALUMA													.1	.1	.1	.2
OAKLAND	.1	.2	.1	.2	.2	.2	.1	.1	.2	.3	.2	.1	.1	.1	.1	.2
LIVERMORE RAILROAD	.2	.3	.3	.3	.3	.4	.3	.3	.3	.4	.3	.3	.2	.2	.2	.3
FREMONT CHAPEL WAY	.2	.2	.1	.2	.1	.2	.2	.1	.3	.5	.3	.2	.2	.3	.1	.2
SAN FRANCISCO ELLIS	.3	.3	.3	.4	.4	.4	.4	.3	.4	.5	.4	.3	.4	.3	.2	.4
NORTH CENTRAL BASIN																
SALINAS NATIVIDAD RD	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
SALINAS	.3	.2	.3	.3	.3	.3	.2	.2	.2	.3	.2	.2	.2	.3	.3	.3
GONZALES	.2	.2	.2	.2	.2	.2	.2	.2	.3	.3	.2	.2	.2	.2	.2	.2
MONTEREY	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
SANTA CRUZ	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2
SOUTH CENTRAL BASIN																
SAN LUIS OBISPO	.1	.1	.1	.2	.1	.1	.1	.1	.1	.2	.2	.2	.1	.1	.1	.1
SOUTH COAST BASIN																
ANAHEIM	.7	.7	.5	.5	.7	.6	.6	.6	.6	.6	.7	.5	.5	.6	.5	.9
LA HABRA	.6	.9	1.0	1.0	.7	1.0	.7	.8	.8	.9	1.2	1.1	1.4	1.0	.9	1.1
RIVERSIDE											.2	.3	.3	.2	.3	.3
SAN BERNARDINO	.3	.1	.3	.4	.3	.4	.3	.2	.4	.4	.5	.5	.6	.4	.4	.8
SAN DIEGO BASIN																
SAN DIEGO	.2	.5	.3	.3	.6	.3	.2	.4	.2	.1	.4	.4	.3	.1	.1	.2
EL CAJON	.1	.3	.2	.2	.3	.3	.2	.1	.2	.2	.2	.1	.1	.2	.2	.3
SACTO VALLEY BASIN																
CHICO	.2	.2	.3	.2	.2	.3	.2	.2	.4	.3	.4	.3	.4	.3	.2	.2
SACTO STOCKTON BLVD	.2	.2	.2	.2	.3	.5	.2	.1	.3	.3	.2	.2	.2	.1	.1	.2
SACRAMENTO				.3	.3	.3	.2	.2	.4	.5	.3	.2	.3	.2	.2	.2
REDDING	.1	.1	.2	.2	.2	.2	.1	.1	.1	.1	.1	.3	.3	.1	.1	.2
YUBA CITY		.1	.1	.1		.1	.1	.2	.3	.4	.3	.2	.3	.2	.1	.2
SAN JOAQ VALLEY BASIN																
FRESNO CEDAR ST	.3	.4	.4	.5	.4	.4						.3	.4	.4	.4	.5
BKRSFLD GOLDEN STATE	.5	.6	.6	.7	.5	.5	.4	.4	.4							
BKRSFLD FLOWER ST	.4	.5	.4	.6	.7	.5	.3	.2	.5	.4	.4	.4	.3	.4	.4	.5
BAKERSFIELD	.6	.7	.7	.6	.6	.7	.5	.5	.6	.8	.7	.6	.6	.6	.5	.6
MERCED	.5	.4	.4	.4	.3	.4	.4	.4	.4	.4	.4	.3	.4	.4	.5	.3
STOCKTON HAZELTON ST	.2	.3	.3	.2	.3	.4	.3	.2	.4	.3	.4	.3	.3	.3	.2	.3
TRACY	.2	.3	.2		.2	.3	.2	.2	.2	.3	.3	.3	.3	.3	.3	.4
LODI		.2	.3	.2	.2	.2	.2	.2	.2	.2	.3	.3	.2	.2	.2	.2
MODESTO	.1	.3	.2	.2	.2	.1	.1	.1	.2	.3	.2	.1	.1	.1	.1	.1
VISALIA						.3	.3	.2	.3	.3	.3	.2	.4	.4	.3	.4
SE DESERT BASIN																
BANNING	.2	.6	.4	.7	.5	.5	.3	.4	.4	.3	.3	.3	.3	.4	.3	.6
INDIO												.1	.3	.2	.2	.4
BARSTOW	.3	.2	.1	.2	.1	.2	.1	.1	.0	.0	.1	.1	.0			
VICTORVILLE	.0	.1	.2	.1	.1	.4	.2	.1	.1	.0	.0	.1	.2	.1	.1	.2

CITY BY BASIN	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HIGHEST DAILY AVERAGE VALUE	DAY	HIGHEST REPORTED READING VALUE	DAY
J U L Y																			
SAN DIEGO BASIN																			
SAN DIEGO	.3	.1	.2	.3	.2	.2	.1	.1	.2	.3	.3	.2	.2	.4	.3	.4	A 6	1.2	6
EL CAJON	.2	.1	.2	.2	.2	.2	.2	.2	.1	.2	.3	.2	.2	.3	.2	.4	A 4	.8	1
SACTO VALLEY BASIN																			
CHICO	.3	.3	.2	.2	.3	.4	.3	.5	.2	.3	.4	.6	.3	.3	.3	.6	28	1.6	28
SACTO STOCKTON BLVD	.1	.1	.2	.2	.1	.2	.2	.1	.1	.2	.2	.1	.1	.1	.0	.3	14	.9	26
SACRAMENTO	.2	.1	.2	.2	.2	.2	.2	.2	.1	.3	.3	.2				.3	A 1	1.0	26
REDDING	.2	.2	.2	.2	.1	.1	.2	.2	.1	.2	.2	.3	.2	.2	.2	.3	28	.4	A 8
SAN JOAQ VALLEY BASIN																			
FRESNO CEDAR ST	.4	.4	.3	.3	.4	.3	.3	.3	.3	.4	.5	.5	.4	.4	.4	.5	A27	1.2	16
BKRSFLD GOLDEN STATE	.4	.5	.5	.6	.7	.6	.7	.5	.4	.7	.8	.9	.6	.6	.6	.9	28	1.4	27
BKRSFLD FLOWER ST	.4	.4	.3	.5	.5	.3	.3	.4	.3	.4	.6	.7	.5	.6	.4	.7	28	1.5	26
BAKERSFIELD	.6	.5	.6	.6	.8	.6	.6	.5	.6	.6	.8	.8	.7	.6	.6	.8	A13	1.6	A13
MERCED	.5	.5	.5	.5	.4	.5	.4	.5	.4	.4	.4	.5	.4	.5	.5	.5	A17	.8	A18
STOCKTON HAZELTON ST	.3	.3	.3	.4	.3	.5	.3	.2	.2	.3	.4	.3	.3	.4	.3	.5	22	.8	A14
TRACY	.3	.3	.2	.3	.3	.3	.3	.2	.3	.3	.4	.3	.3	.2	.2	.4	A15	2.2	15
LODI	.2	.2	.3	.3	.2	.3	.2				.2	.2	.2			.3	A 2	.8	19
MODESTO	.3	.2	.2	.2	.2	.2	.2	.1	.1	.2	.2	.1	.2	.2	.2	.3	A 1	.6	A13
VISALIA	.3	.2	.2	.2	.3	.2	.2	.3	.2	.3	.3	.3	.3	.4		.4	A 2	1.1	A 2
SE DESERT BASIN																			
BANNING	.5	.3	.4	.4	.6			.3	.3	.3	.7	.5	.5	.3	.3	.7	A 1	1.4	28
PALM SPRINGS	.1	.0	.2	.3	.3	.4	.3	.2	.3	.3	.3	.3	.3	.2	.2	.4	A 5	1.3	5
THERMAL	.2	.2	.2	.2	.1	.2	.2	.3	.2	.2	.1	.1	.3	.3	.2	.4	13	.9	1
BARSTOW					.1	.2	.4	.1	.2	.2	.0	.1	.3	.2	.2	.4	23	1.3	26
VICTORVILLE	.2	.2	.2	.2	.4	.1	.2	.2	.1	.1	.1	.2	.3	.2	.0	.4	21	.8	A21
A U G U S T																			
SF BAY AREA BASIN																			
RICHMOND	.1	.2	.1	.1	.1	.1	.2	.1	.1	.1	.1	.1	.1	.2	.0	.2	A10	.4	A16
PITTSBURG	.3	.3	.3	.2	.1		.2	.3	.2	.2	.2	.1	.1	.1	.1	.4	10	.5	A 6
SAN RAFAEL	.1	.2	.2	.2	.1	.1	.2	.3	.2	.2	.2	.1	.1	.2	.2	.3	24	.6	24
NAPA	.4	.3	.3	.3	.3	.3	.3	.4	.3	.3	.3	.3	.2	.3	.4	.4	A 1	.9	31
REDWOOD CITY	.2	.3	.2	.1	.1	.0	.4	.4	.2	.3	.1	.1	.1	.1	.1	.4	A23	.6	A10
BURLINGAME	.3	.4	.3	.1	.0	.1	.3	.5	.4	.2	.1	.2	.1	.2	.2	.5	A10	.8	A10
SAN JOSE ALMA ST.	.6	.5	.3	.3	.3	.2	.5	.7	.5	.4	.3	.3	.2	.3	.3	.7	24	1.0	10
FAIRFIELD	.3	.3	.3	.4	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.4	.4	A 3	.8	A 6
VALLEJO TRAILER	.3	.3	.2	.2	.1	.1	.4	.3	.2	.1	.1	.1	.1	.1	.1	.4	A10	.7	A10
PETALUMA	.2	.1	.1	.1	.1	.1	.3	.2	.1	.1	.1	.1	.1	.1	.1	.3	23	.8	A23
OAKLAND	.2	.2	.2	.1	.1	.1	.2	.3	.2	.2	.1	.1	.1	.2	.2	.3	A10	.9	10
LIVERMORE RAILROAD	.3	.3	.3	.2	.2	.2	.4	.7	.5	.3	.3	.3	.2	.2	.2	.7	24	1.3	24
FREMONT CHAPEL WAY	.3	.5	.2	.1	.1	.1	.4	.6	.5	.3	.2	.1	.1	.2	.1	.6	24	.9	10
SAN FRANCISCO ELLIS	.3	.4	.4	.4	.2	.2	.6	.4	.4	.3	.4	.3	.2	.4	.4	.6	23	1.0	23
NORTH CENTRAL BASIN																			
SALINAS NATIVIDAD RD		.2	.2	.2	.2	.2	.2	.3	.2	.2	.3	.2	.2	.2	.2	.3	A24	.8	27
SALINAS	.2	.3	.2	.2	.2	.2	.3	.3	.2	.2	.2	.3	.2	.2	.3	.3	A 1	.8	3
GONZALES	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.3	.2	.2	.2	.2	.3	A 9	.5	A 9
MONTEREY	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	A 1	.3	30
SANTA CRUZ	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	A 1	.3	A 3
SOUTH CENTRAL BASIN																			
SAN LUIS OBISPO	.2	.1	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1	.0	.1	.1	.2	A 4	.3	A 2
SOUTH COAST BASIN																			
ANAHEIM	.6	.7	.4	.5	.4	.4	.6	.6	.7	1.0	.7	.8	.5	.5	.6	1.0	26	2.1	26
LA HABRA	1.0	1.2	1.0	1.0	.8	.6	.9	1.2	1.5	1.9	1.4	1.4	1.0	1.0	1.4	1.9	26	3.4	31
RIVERSIDE	.4	.3	.2	.3	.2	.3	.2	.3	.5	.6	.8	.7	.6	.5	.6	.8	27	1.7	27
SAN BERNARDINO	.7	.7	.6	.5	.3	.3	.6	.6	.6	.4	.6	.6	.4	.4	.7	.8	16	1.8	16
SAN DIEGO BASIN																			
SAN DIEGO	.2	.2	.2	.2	.2	.2	.2	.2	.4	.4	.5	.4	.3	.3	.3	.6	5	1.2	A 5
EL CAJON	.2	.1	.3	.2	.2	.5	.3	.2	.2	.2	.5	.4	.3	.2	.3	.5	A22	1.8	27
SACTO VALLEY BASIN																			
CHICO	.3	.3	.3	.3	.2	.1	.2	.3	.4	.3	.2	.2	.1	.1	.2	.4	A 9	.8	A 9
SACTO STOCKTON BLVD	.1	.2	.2	.1	.1	.0	.3	.2	.2	.2	.2	.2	.1	.1	.2	.5	6	2.0	5
SACRAMENTO	.2	.2	.1	.1	.1	.1	.2	.3	.2	.1	.1	.1	.1	.1	.2	.5	10	.7	A 9
REDDING	.2	.2	.2	.3							.3	.2	.1	.2	.1	.3	A12	.6	20
YUBA CITY	.3	.3	.2	.2	.1	.1	.3	.4	.3	.2	.2	.1	.1	.1	.1	.4	A10	1.1	17
SAN JOAQ VALLEY BASIN																			
FRESNO CEDAR ST	.4	.6	.5	.4	.3	.3	.4	.6	.4	.5	.4	.3	.3	.3	.3	.6	A18	1.1	25
BKRSFLD GOLDEN STATE																.7	4	1.4	4
BKRSFLD FLOWER ST	.6	.4	.5	.4	.3	.3	.4	.3	.3	.5	.5	.4	.4	.3	.3	.7	5	1.5	5
BAKERSFIELD	.8	.7	.6	.6	.6	.4	.5	.7	.7	.7	.7	.6	.7	.6	.6	.8	A10	1.6	A 1
MERCED	.5	.4	.4	.5	.4	.3	.4	.5	.3	.3	.4	.4				.5	A 1	.8	20
STOCKTON HAZELTON ST	.3	.4	.3	.3	.3	.2	.5	.4	.3	.2	.3	.2	.2	.3	.3	.5	23	1.3	A 9
TRACY	.3	.3	.3	.3	.2	.2	.3	.6	.3	.4	.2	.2	.2			.6	24	1.1	A16
LODI	.3	.3	.2	.3	.4	.3	.2	.3	.3	.2	.2	.2	.2	.2		.4	21	1.0	21
MODESTO	.1	.3	.2	.1	.1	.1	.2	.3	.2	.1	.2	.1	.1	.1	.1	.3	A 2	.8	2
VISALIA	.5	.5	.5	.4	.5	.2	.3	.6	.5	.5	.4	.3	.2	.3	.3	.6	24	.9	A17
SE DESERT BASIN																			
BANNING	.4	.6	.5	.5	.3	.4	.5	.6	.4	.5	.5	.5	.3	.4	.4	.7	4	1.7	4
INDIO	.3	.2	.3	.1	.2	.2	.2	.4	.3	.2	.2	.3	.3	.2		.4	A16	.9	16
BARSTOW																.3	1	.6	1
VICTORVILLE	.1	.2	.0	.1	.0	.2	.1	.2	.2	.4	.3	.2	.2	.3	.1	.4	A 6	.8	A 3

A: INDICATES THE FIRST DAY OF TWO OR MORE DAYS WITHIN THE MONTH HAVING THE SAME PEAK CONCENTRATION
SOURCE: STATE OF CALIFORNIA, AIR RESOURCES BOARD, AIR MONITORING RECORDS

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METTER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY, AUGUST 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																															NO. ≥
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	100 µg/m³
JUNE, 1971					*	*						*	*						*	*						*	*					
NORTH COAST AIR BASIN																																
Arcata											44								28					29								1
Blue Lake																	120															1
Eureka Health Dept.					21					35					57					22				9				69	60		1
Eureka Gen. Hosp.										29										34												1
Eureka Hiwy Dept.	26							35							39		27															1
Fortuna																	88															1
Garberville			98		43					66					95					48				37								2
Orick					78					109					121					40				56								2
McKinleyville					40					70					66					37				36					71			2
Samoa					47					72					120					46				54					109			2
Fort Bragg South					40					38					73					36				62					88			2
Fort Bragg City Hall					65					75					72					71				67					155			1
Ukiah Mendo Mill																																
Ukiah Public Works																																
Willits																																
Calpella																																
SAN FRANCISCO BAY AREA AIR BASIN																																
Richmond	35		34		46			53		53		43			83		71		52			40		64				73			1
Pittsburg	23		34		28			48		25		19			41		32		16			30		49		16		38			1
San Rafeal	21		26		29			33		30		21			44		30		21			20		27		20		57			1
Redwood City	21		35		38			42		25		16			53		35		28			40		41		10		47			1
Burlingame	24		29		38			61		110		44			90		87		30			47		94		20		61			1
San Jose					71			71		77				100	108		125		41			59		78		36		94			3
Vallejo	63				65					64										76					79							1
Petaluma					50					42					94										104				99			1
Fremont	31		56		50			62		54		26			109		81		37			42		66		21		79			1
Livermore	77		75		78			106		112		112			99		112		87			93		86		61		92			1
San Francisco	38		40		44			66		54		69							31			35		56		34		63			1
NORTH CENTRAL COAST AIR BASIN																																
King City		64													101																	1
Salinas		117			30					47					108					46				64				68				1
Gonzales		34													124																	2
Monterey		44													66																	1
Santa Cruz															74																	1
SOUTH CENTRAL COAST AIR BASIN																																
San Luis Obispo					28					16					64					27				41				42				1
Santa Maria					80					65					149					50				94				96				1
SOUTH COAST AIR BASIN																																
Anaheim		46						66		43						112	120	93				108				72						1
La Habra								80		57						176						176				83						3
Riverside					133					58																						2
Santa Barbara										49						52				72				62					127			1
Ventura					52						64					67							65						62			1
Ojai					57						29					78							89									1
Oxnard					62						65												39									1
Camarillo					79						81					69							66									1

* Indicates Weekends and Hoildays

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY, AUGUST 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																													NO. ≥ 100 µg/m³
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JUNE, 1971					*	*						*	*						*	*						*	*					
SAN DIEGO AIR BASIN																																
San Diego									38																				38			1
El Cajon									49																				92			1
NORTHEAST PLATEAU AIR BASIN																																
Yreka					31					25					45					26					18				40			1
SACRAMENTO VALLEY AIR BASIN																																
Chico					31					45					45					32					68				67			1
Sacramento 10th & P																				44			65						77			1
Redding Market St.					30					56					37	67				35									50			1
Redding Hospital Ln.					41																											1
Tahoe				33						65					57							64										1
SAN JOAQUIN VALLEY AIR BASIN																																
Fresno					57					56					93					38					61				58			1
Bakersfield Gld. State Hwy						108				125					162		176			107		147			166				182			8
Bakersfield Flower St.					134															125					152							3
Bakersfield Chester Ave.																	146			102		116			147				149			5
Kern Refuge										65					127					53					85							1
Taft					126																											1
Stockton						60				58					70										37							1
Hanford					153															175					247				207			4
Modesto					68					66					107					51					77				92			1
Visalia					315					95					144					78					125				130			4
SOUTHEAST DESERT AIR BASIN																																
Banning					96					27					82					8									79			1
Palm Springs																				65					128				81			1
Thermal					35					119										55					134				87			1
Indio					256					453					269					219					34				249			5
JULY, 1971			*	*	*					*	*						*	*					*	*						*	
NORTH COAST AIR BASIN																																
Arcata										37					50									33								
Blue Lake																								49			29					
Eureka Health Dept.						63				31					70					77									44			
Eureka Gen. Hosp.										18											85											
Eureka Hiwy Dept.															34									28								
Fortuna																											26					
McKinleyville																				18					54				50			
Somoa										59					89					54					92							
Fort Bragg South										201					108					80					53				67			
Fort Bragg City Hall					45					39					99					91					55				80			
Ukiah Mendo Mill					63					55					87					91					59				78			
Ukiah Public Works					48					42					352					102					61				109			
Willits					55					82																						
Calpella																																

* Indicates Weekends and Holidays

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY, AUGUST 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																													NO. ≥ 100 µg/m³
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JULY, 1971			*	*	*					*	*						*	*						*	*						*	
SAN FRANCISCO BAY AREA AIR BASIN																																
Richmond	97		96			78		56		58			89			43	31			47		46		47		47		49	64		-
Pittaburg	46		41			42		30		24			44		61		42			62		59		47		36		38	38		-
San Rafael	58		58			68		12		30			64		54		44			48		51		26		35		34	47		-
Redwood City	70		39			49		26		23			56		43		31			50		59		36		39		39	56		-
Burlingame	87		63			38		56		70			84		62		43			62		75		32		45		35	52		-
San Jose	114		98			94		74		79			94			97				91		92			92	71		72	71		1
Vallejo										36					52					53					87				50		-
Petaluma					80					65					63					43					34				85		-
Fremont	96		71			74		27		36			104		83		65			73		92		46		61		43	63		1
Livermore	80		73			84		80		85			92		87		88			94		77		84		93		84	67		-
San Francisco	79		84			65	61	43		44		65	63	48	46		49		52	53	49	52		38		36	56	57	40	42		-
NORTH CENTRAL COAST AIR BASIN																																
King City				67										84															68		-
Salinas					61					64					57										25				30		-
Gonzales														95															74		-
Monterey				50										43															45		-
Santa Cruz				49										59															52		-
SOUTH CENTRAL COAST AIR BASIN																																
San Luis Obispo					40					61					28					24					21				53		-
Santa Maria					81					232					68					60					47				110		2
SOUTH COAST AIR BASIN																																
Anaheim				80				120				93			71					75		58				93					1
La Habra	110			110				169				118				104				120						137					7
San Bernardino															212					218					166				155		4
Santa Barbara					59				102						71					51					47				67		1
Ventura	88															56										65					-
Ojai	100			142												132										86					3
Oxnard	90															66										53					-
Camarillo	100															80										66					1
Los Angeles Downtown												240					161					197				168					5
Azusa							193					218					137					219				231					5
Lennox							133					150					118					150				138					5
Pasadena							108					111					89					137				91					3
SAN DIEGO AIR BASIN																																
San Diego							52					76					56					55						66			-
El Cajon						86						107					67					75						83			1
NORTHEAST PLATEAU AIR BASIN																																
Yreka					24				27						53					56					39				72		-

* Indicates Weekends and Holidays

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY, AUGUST 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																												NO. ≥ 100 µg/m³
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JULY, 1971			*	*	*					*	*						*	*						*	*					*	
SACRAMENTO VALLEY AIR BASIN																																
Chico										55					101					107					58							2
Sacramento 10th & P					65					59					71					76					47					72		-
Redding Market St.					22					64															74					94		-
Redding Hospital Ln.			44																	99							97					-
Yuba City																														99		-
SAN JOAQUIN VALLEY AIR BASIN																																
Fresno					80					85					121					109					79					99		2
Bakersfield Old State Hwy.					109					132			192		177		139			161		170			116		265			165		10
Bakersfield Flower St.					127					158					177					113					143					184		6
Bakersfield Chester Ave.					99					113			153		137		134			138		137			108		145			134		10
Kern Refuge					75										92					87					70					117		1
Taft																				76					104					193		2
Stockton	97				77					61					78					123					50					85		1
Hanford					204					226					320					230						252				185		6
Modesto					86					74					99					111					61					83		1
Visalia					99					126					156					136					93					137		4
SOUTHEAST DESERT AIR BASIN																																
Ridgecrest										52															96							-
Palm Springs					59					59					87					93					93							-
Thermal					99					102					99					129					72							2
Indio					162					162					69										302							3
AUGUST, 1971	*						*	*						*	*						*	*					*	*				
NORTH COAST AIR BASIN																																
Arcata				43									49						41									80				-
Blue Lake																																-
Eureka Health Dept.					31				26					30					43				31					32			-
Eureka Gen. Hosp.									27																							-
Eureka Hiwy Dept.																			55													-
Fortuna														17																		-
McKinleyville																	52															-
Somoa																												46				-
Fort Bragg South					55						48					84					50					117				69		1
Ukiah Mendo Mill				67					85					58					110				92					29				1
Ukiah Public Works				81					157					58					130				84					48				2
Willits				89					88					82					121				99					49				1
Calpella				119					140					94					133				120					60				4

* Indicates Weekends and Holidays

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY, AUGUST, 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																													NO. ≥ 100 µg/m³
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
AUGUST, 1971	*						*	*						*	*						*	*						*	*			
SAN FRANCISCO BAY AREA AIR BASIN																																
Richmond			51		52		56			72		67		76			63		39		38			45		26		28			33	-
Pittsburg			36		30		24			61		72		28			57		52		30			37		36		33			31	-
San Rafael			37		44		36			77		64		62			74		39		25			57		46		17			28	-
Redwood City			28		20		50			52		38		35			47		53		34			70		50		18			31	-
Burlingame			33		33		49			104		33		52			66		43		25			73		78		38			62	1
San Jose			74		70			50		112		83		75			87		92		46				79			52			59	1
Vallejo				87					58					41					62					28					111			1
Petaluma			45		40		58			87		82		52			70		52		29			165		72		40			52	1
Fremont			29		73		70		65	105	41	104		88			89		76		70			96		82		60			70	1
Livermore			49	44	56		72			45		36		46			50		105		33			92		45		29			49	1
San Francisco		51																	54					38								1
NORTH CENTRAL COAST AIR BASIN																																-
King City										81									45					71		71			47			-
Salinas				63					61	96				64												69						-
Gonzales										52																32						-
Monterey										64																40						-
Santa Cruz																																-
SOUTH CENTRAL COAST AIR BASIN																																-
San Luis Obispo				45					54					31					41					34					43			-
Santa Maria				87					178					69					84			60							222			2
SOUTH COAST AIR BASIN																																
Anaheim	54				89		62					69					68			52				114		99		112				2
Los Alamitos	78			121	95		62					72					51			55				111			91	126				1
La Habra	79						112					123					93			103				124								6
Santa Ana Airport							59					77					96			63				124								1
Riverside	189							179						131					195				164									1
San Bernardino			13	70					70					55					58				199				171					6
Santa Barbara							96													105			37	119				105				1
Ventura							96													112				81								2
Ojai							89																	98								1
Oxnard							131																									-
Camarillo		130			198					183					130					107					186	116			98			5
Los Angeles Downtown	167				222					235					176					136					196				78			7
Azusa	150				153					135					125					152					253				113	206		7
Lennox	114				126					138					108					123					113					255		7
Pasadena	95																			110										161		6
SAN DIEGO AIR BASIN																														130		
San Diego		117			100					100	83				59					49					107					74		4
El Cajon		159			84					125										70					105					96		3

* Indicates Weekends and Holidays

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PARTICULATE MATTER
MICROGRAMS PER CUBIC METER BY THE HIGH VOLUME AIR SAMPLING METHOD
JUNE, JULY AUGUST 1971

MONTH, BASIN, STATION	DAYS OF THE MONTH																													NO. ≥ 100 µg/m³
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
	*						*	*						*	*						*	*						*	*			
AUGUST, 1971																																
NORTHEAST PLATEAU AIR BASIN																																-
Yreka				57					51					35					66					54					60			
SACRAMENTO VALLEY AIR BASIN																																2
Chico				73					101					74					101					90					63			1
Sacramento 10th and P				60					88					69					64					78					40			1
Redding Market St.				96					44					69					105					92					74			1
Redding Hospital Ln.								81																	155							3
Yuba City				89					116					84					115					116					95			
SAN JAOQUIN VALLEY AIR BASIN																																3
Fresno				94					127					100										133					71			2
Bakersfield Gld. State Hwy.				168					162					144					169					65	136				137			6
Bakersfield Flower St.				172					156					108					124					423					116			5
Bakersfield Chester Ave.				143					144					90										94					155			3
Kern Refuge			96						107					96					88					88					71			1
Taft									83					70		96								200					55			1
Stockton				75					89					181					192					78								5
Hanford				174					276						74				92					116					55			1
Avenal				84					89				96											182					161			2
Modesto				72					105																							4
Visalia				137					126																							
SOUTHEAST DESERT AIR BASIN																								61					62			-
Ridgecrest									91					113					146					173					155			4
Mojave																																-
Indio				96																												

* Indicates Weekends and Holidays

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AS DETERMINED FROM HI VOL SAMPLES USING THE DITHIZONE METHOD

(Micrograms per cubic meter)

JULY AND AUGUST 1971

MONTH		Location				
		REDDING	SACRAMENTO	BAKERSFIELD	FRESNO	SAN LUIS OBISPO
July	5	0.10	0.30	0.70	0.40	0.20
	10	0.20	0.40	0.40	0.32	0.40
	13	--	--	--	0.80	--
	15	--	0.40	0.80	0.50	0.30
	20	0.30	0.50	0.70	0.60	0.30
	25	0.50	0.20	1.02	0.60	0.20
	30	0.60	0.60	1.00	0.80	0.80
Average		0.34	0.40	0.77	0.57	0.37
August	4	0.50	0.40	1.02	--	0.70
	9	0.30	1.00	1.45	0.59	0.51
	14	0.45	0.48	0.86	0.82	0.45
	19	0.56	0.40	0.83	0.86	0.35
	24	0.49	0.92	1.01	1.36	0.27
	29	0.38	0.24	1.00	0.50	0.30
Average		0.45	0.57	1.03	0.83	0.43

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OXIDANT
MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.08 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH AND STATION	DAY OF MONTH																													TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
JUNE, 1971					*	*						*	*						*	*						*	*					
SAN FRANCISCO BAY AREA AIR BASIN																																	
Pleasant Hill					.09						.08			.11	.12	.09	.11			.08									.09			32	8
Richmond														.08	.10																	5	2
Pittsburgh														.09	.09	.08	.10															7	4
San Rafael														.08	.08	.08	.11															6	4
Redwood City																.08																1	1
Fairfield		.08												.08	.10	.09	.11										.09					12	6
Vallejo - Trailer															.11		.10															2	2
San Lenadro														.09	.15	.10	.09															10	4
Livermore - Rincon					.10						.08		.08	.17	.24	.24	.10			.21						.10		.15	.11			46	11
Livermore - Railroad														.15	.23	.17	.10			.14							.08	.10				27	7
Fremont														.13	.17	.13	.12			.08												15	5
NORTH CENTRAL COAST AIR BASIN																																	
Gonzales															.08																	2	1
Santa Cruz																.08																1	1
SOUTH CENTRAL COAST AIR BASIN																																	
San Luis Obispo															.08																	1	1
SOUTH COAST AIR BASIN																																	
Anaheim					.10	.08						.08	.12	.18	.22	.11			.09	.15	.08	.10	.10									45	12
La Habra				.12								.14	.18	.24	.22	.09	.08	.11	.11	.21	.11	.14	.11		.09	.09	.08		.08	.11		76	18
Orange County Airport												.11	.11	.11	.16	.08	.08	.09	.08	.10	.10	.08					.08					40	12
Green River Golf Course				.10	.12	.08						.16	.17	.19	.18	.11	.13	.11	.12	.19	.15	.12	.13				.08		.10			100	17
Riverside			.09	.15	.16	.15	.13	.16			.15	.22	.20	.27	.25	.27	.19	.23	.22	.22	.31	.28	.30	.23	.27	.15	.11	.10	.13	.19		255	26
Corona			.09	.15										.11	.08					.08	.08	.09	.11							.08		18	9
San Bernardino	.09			.18	.18	.14	.12	.14			.12	.19	.22	.32	.25	.23	.20	.23	.24	.28	.27	.23	.24	.25	.18	.16	.12	.10	.12	.21		230	26
Ontario				.12	.10						.08	.11	.13	.23	.17	.15	.12	.17	.15	.16	.20	.20	.16	.16	.14	.08			.11	.12		132	20
Redlands			.08	.10	.09	.08					.08	.11	.11	.16	.20	.23	.17	.21	.20	.20	.24	.27	.24	.23	.20	.16				.10		166	21
Santa Barbara																.09																2	1
Ojai	.09	.12	.09	.12	.11	.14	.11	.22	.10		.14	.17	.15	.13	.22	.15	.19	.22	.16	.20	.12	.15					.20	.16				209	23
Camarillo				.08	.08	.08						.08		.10	.15	.09	.09			.08	.08			.10	.09	.09	.08					49	14
Los Angeles					.08	.09						.10	.13	.19	.17	.18	.10	.10	.17	.24	.13	.13	.13		.09	.09	.10					85	17
Azusa	.09			.19	.19	.16	.08	.09			.11	.20	.24	.31	.34	.20	.18	.23	.30	.31	.26	.27	.26	.19	.17	.19	.16	.13	.16	.17		200	26
Burbank				.10	.13	.13	.08				.09	.15	.21	.25	.23	.25	.14	.19	.25	.27	.20	.23	.24	.12	.13	.10	.11	.08	.11	.11		165	24
West Los Angeles					.09	.08							.09	.11	.12	.11	.08	.10	.13	.16								.08				40	11
Long Beach															.10				.10													4	2
Reseda	.12			.13	.18	.15	.10	.10			.14	.14	.18	.20	.21	.19	.14	.21	.25	.25	.21	.20	.26	.17	.15	.13	.14	.10	.16	.13		219	26
Pomona											.11	.17	.21	.29	.24	.19	.09	.15	.16	.19	.20	.19	.14	.11	.08	.09			.11	.13		127	19
Lennox													.08		.13			.09	.13	.15												9	5
Pasadena				.13	.17	.19	.09				.10	.13	.18	.28	.31	.26	.19	.22	.26	.33	.26	.27	.30	.16	.15	.15	.15	.13	.15	.16		194	24
Whittier											.08	.13	.16	.24	.24	.11	.08	.09	.17	.22	.09	.15	.08							.08		60	14
Newhall				.13	.16	.15	.11	.09			.12	.15	.17	.16	.19	.18	.17	.23	.20	.19	.23	.25	.26	.21	.19	.15	.12	.11	.15	.17		199	25
SAN DIEGO AIR BASIN																																	
San Diego												.09			.08					.09												5	3
Chollas Heights				.09	.08								.11	.12	.08				.09	.15		.08							.08			-	9
El Cajon	.08			.10	.10	.08						.10	.10			.10	.11	.11										.08				-	10
Nestor													.09	.09	.09																	-	3
Mission Valley					.09							.11	.08	.13	.10	.10	.08	.10	.10	.13	.11	.10						.08	.09	.11		69	15
Oceanside												.08	.10						.08													-	3

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OXIDANT
MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.08 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH AND STATION	DAY OF MONTH																													TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
JUNE 1971					*	*						*	*						*	*						*	*					
SACRAMENTO VALLEY AIR BASIN																																	
Chico			.08				.09	.09				.08									.08			.10	.08				.10		37	8
Sacramento - 13th & J Sts.																														.08		1	1
Sacramento - Creekside								.08			.08												.08	.10					.08		12	5
Sacramento - 10th & P Sts.																								.08				.08	.09	.11		16	4
Redding							.08	.09			.08	.09									.08		.08	.09						.09		32	8
SAN JOAQUIN VALLEY AIR BASIN																																	
Fresno												.10		.08	.10	.12					.08	.08		.08				.08	.09		26	9
Bakersfield - Golden State												.08													.08				.08		3	3
Bakersfield - Chester		.09	.10	.08	.09	.09	.09	.09	.08		.10	.13	.09	.09	.13	.14	.10	.08	.08	.09	.11	.09	.12	.09	.08			.08	.12	.12		154	27
Modesto		.08		.09	.12	.10		.08		.08	.09	.08		.09			.12	.09	.10	.11	.15	.08	.08	.09			.08	.12	.13	.15		69	21
Visalia		.08	.10	.09	.09	.12	.13	.09			.09	.11	.09	.11	.09	.10	.12	.13	.14	.12	.09	.11	.11	.12	.10	.14	.12		.11	.12		172	24
SOUTHEAST DESERT AIR BASIN																																	
Banning				.09	.10	.08					.10	.16	.16	.14	.09	.15	.13	.15	.15	.14	.11	.20	.10	.10	.12	.09				.09		143	20
Palm Springs			.09	.15	.16	.12	.12	.12			.12	.15	.16	.21	.19	.16	.14	.14	.15	.14	.17	.21	.16	.16	.15	.11	.08	.08	.11	.15		364	26
Indio	.10	.09	.12	.11	.16	.16	.16	.20	.15	.09	.12	.15	.19	.29	.25	.32	.22	.20	.16	.17	.16	.19	.18	.14	.13	.13	.09		.11	.18		459	29
Victorville				.08	.08									.08	.10	.09	.08			.11	.09	.10	.13	.14	.09			.08	.12	.13		69	15
Lancaster	.08			.11	.11	.12	.08	.09			.10	.11		.12	.12	.13				.13	.11	.08	.08	.10	.13	.12	.08	.08	.11	.19		99	22
JULY, 1971			*	*	*				*	*							*	*						*	*					*		
SAN FRANCISCO BAY AREA AIR BASIN																																	
Pleasant Hill	.08				.09	.09	.08				.09	.11					.11	.13	.09		.09	.11				.08			.08		.08	47	14
Pittsburg	.08		.08	.10		.09						.11	.11	.12	.08		.10	.11	.08								.08				43	12
San Rafael												.08																				1	1
Napa													.08																			1	1
Redwood City																			.08													1	1
San Jose	.08											.09	.09	.09	.09	.08		.14	.09		.09											27	9
Fairfield													.10	.12	.08			.08	.09													20	5
Vallejo - Trailer											.08	.09	.10																			8	3
San Leandro												.12	.11					.08														7	3
Livermore - Railroad	.09		.09	.08	.12		.08				.12	.20	.23	.18	.12	.16	.15	.15	.20	.11	.08	.10	.08		.08	.08						76	20
Fremont	.08											.16	.14	.11	.09	.09	.09	.13	.08	.10	.08	.10										36	12
NORTH CENTRAL COAST AIR BASIN																																	
Gonzales													.08																			1	1
SOUTH CENTRAL COAST AIR BASIN																																	
San Luis Obispo																.09	.12	.09											.10	.11		29	5
Santa Maria																													.08	.10		5	2
SOUTH COAST AIR BASIN																																	
Anaheim							.09	.12	.10	.23	.15		.13					.10			.10				.11					.14	45	10
La Habra	.10	.14	.12	.15	.14	.14	.21	.30	.22			.09	.33	.09	.09	.10	.18	.24	.14	.14	.13	.11	.08	.12	.13	.17					.25	109	25
Orange County Airport			.09				.11	.14		.11	.17		.08					.12			.08		.10			.12	.08					38	11
Green River Golf Course	.09	.09	.10	.10		.11	.15	.17	.16	.24	.27	.12	.17	.09	.08		.11	.16	.11	.12	.13	.10	.10	.11	.11	.18	.13	.08	.13	.10	.22	149	29
Riverside	.21	.25	.18	.18	.16	.19	.19	.29	.21	.27	.19	.18	.31	.22		.21	.19	.18	.21	.24	.25	.30	.30	.24	.19	.17	.31	.28	.20	.21	.16	.40	285	31
Corona		.11		.08		.13	.15	.18	.14	.15	.14	.12	.12		.10	.09	.10	.16	.11	.15	.14	.12	.13	.13	.13	.18	.18	.09	.15	.12	.16	143	27
San Bernardino	.19	.22	.19	.17	.19	.16	.22	.23	.26	.27	.21	.15	.28	.23	.24	.18	.19	.17	.27	.22	.29	.26	.20	.16	.13	.28	.24	.21	.19	.14	.20	274	31

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MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.08 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH AND STATION	DAY OF MONTH																													TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
JULY, 1971			*	*	*						*	*					*	*						*	*					*		
SOUTH COAST AIR BASIN																																	
Ontario	.12	.15	.13	.12	.13	.13	.14	.21	.23	.26	.18	.11	.24	.16	.24						.18	.15	.13	.13	.13	.25	.22	.15	.15	.09	.12	190	26
Redlands	.10	.20	.18	.14	.16	.17	.21	.25	.23	.31	.21	.17	.26	.21	.21	.16	.18	.18	.20	.20	.23	.22	.20	.18	.16	.23	.21	.20	.17	.13	.22	285	31
Santa Barbara										.08					.08							.08							.09	.10		8	5
Ojai	.12	.18	.16	.16	.15	.19	.20	.20	.18	.10																						88	10
Camarillo	.11	.12	.15	.12	.08	.10	.10	.12	.10	.11	.10	.18	.08		.09		.08	.09		.08	.10	.12	.10	.09	.13	.08			.17	.12	.09	126	26
Los Angeles	.08	.10	.14	.13	.11	.10	.11	.13	.15	.15	.17	.11	.12	.10			.10			.08		.10	.10	.10	.11	.11	.11		.15	.12	.09	114	25
Azusa	.19	.24	.19	.22	.19	.20	.26	.36	.36	.36	.30	.20	.33	.21	.21	.15	.23	.26	.25	.30	.30	.21	.20	.21	.22	.27	.30	.19	.22	.23	.28	271	31
Burbank	.12	.14	.14	.14	.12	.15	.18	.19	.21	.16	.18	.15	.25	.17	.11	.14	.17	.12	.12	.18	.17	.19	.17	.15	.15	.21	.20	.20	.21	.21	.19	211	31
West Los Angeles			.09	.10	.09	.10		.08	.10	.11	.13	.09	.09	.08			.08					.11	.10	.11	.10	.09	.08		.14	.13	59	20
Long Beach								.10		.10	.13																					8	3
Reseda	.16	.19	.12	.14	.13	.14	.18	.21	.17	.12	.15	.17	.19	.22	.18	.12	.12	.15	.13	.18	.18	.18	.12	.13	.14	.19	.21	.20	.12	.16	.15	220	31
Pomona	.13	.16	.15	.16	.15	.15	.19	.24	.24	.34	.22	.11	.30		.10		.17	.19	.22	.24	.23	.18	.16	.17	.17	.25	.22	.17	.14	.12	.21	211	29
Lennox			.09	.09	.08	.08		.09		.08																	.08		.09	.08	.15	22	10
Pasadena	.15	.21	.22	.20	.16	.18	.27	.27	.33	.33	.32	.18	.33	.18	.15	.13	.21	.18	.20	.23	.22	.20	.20	.17	.21	.25	.26	.15	.26	.27	.22	263	31
Whittier	.08	.09	.10	.11	.08	.08	.18	.21	.18	.21	.26	.10	.22					.11	.11	.09	.12		.09	.08	.09	.15	.15		.13		.21	110	25
Newhall	.20	.22	.13	.16	.16	.15	.17	.18	.23		.13	.16	.21	.25	.23	.15	.16	.12	.19	.24	.23	.28	.22	.18	.18	.21	.30	.27	.18	.19	.15	257	30
SAN DIEGO AIR BASIN																																	
San Diego										.12																						2	1
Chollas Heights			.08		.08			.08	.09	.13	.08																		.08	.11	-	8
El Cajon	.09	.09	.09	.09	.08	.10	.12	.18	.25	.27	.18		.13	.10	.15	.10	.18	.20	.18							.10			.08			129	20
Nestor	.08	.08	.08	.08	.09					.09																	.08					-	7
Mission Valley	.09	.10	.09	.10	.09	.08	.08	.12	.18	.21	.14	.09	.08		.08		.08					.08				.08			.08	.09	.09	102	20
Oceanside								.09	.08	.13	.16					.08		.08														-	8
SACRAMENTO VALLEY AIR BASIN																																	
Chico	.12	.11	.09	.09	.09	.10	.11	.11						.09	.12	.11	.12	.10	.12	.12	.11	.13	.10	.12	.11	.12	.13	.14	.12	.12	.14	241	26
Sacramento - 13th & J Sts.	.09		.08	.08	.08	.11									.08	.08																19	7
Sacramento - Creekside	.13	.10	.11	.11	.10	.15								.10	.12	.15		.13	.10	.08	.10	.08	.08	.08	.08	.12	.13	.09	.09	.09	.09	113	23
Sacramento - 1000 P St.	.12	.13	.12	.14	.10	.18					.11			.10	.12	.11	.09	.10	.10	.08	.08	.11	.08	.09	.08	.18	.11	.10	.09	.10	.11	127	25
Redding			.08				.12	.08				.08	.08	.10	.15	.16	.12	.15	.12	.10	.10	.10	.11	.14	.15	.14	.13	.14	.16	.14	.15	201	23
Yuba City																				.12	.11	.16	.12	.11	.10	.11	.11	.12	.11	.12	.12	95	12
SAN JOAQUIN VALLEY AIR BASIN																																	
Fresno	.08	.08	.09	.08	.09	.09	.08				.09	.10	.17	.18	.14	.15	.09	.12	.15	.17	.12	.10	.09	.10	.10	.14	.17	.14	.11	.09	.09	228	28
Bakersfield - Golden State	.08			.08									.08	.10	.10	.08				.09		.08		.08	.08		.08	.09	.10	.09	.08	35	15
Bakersfield - Chester	.12	.13	.11	.14	.13	.13	.12		.10			.15	.18	.20	.22	.17	.14	.14	.13		.10	.12	.09	.12	.12	.13	.14	.14	.14	.14	.13	240	27
Stockton														.12	.09	.10	.08	.14									.09			.08		29	7
Modesto	.16	.11	.15	.13	.16	.14				.09	.10	.10	.16	.18	.17	.22	.09	.21	.18	.16	.16	.15	.12	.11	.13	.17	.15	.10	.10	.13	.14	195	28
Visalia	.12	.11	.11	.09	.10	.11	.10	.09	.08		.09	.12	.12	.11	.12	.12	.10	.12	.11	.16	.11		.11	.11	.11	.13	.15	.15	.12	.10	.10	218	29
SOUTHEAST DESERT AIR BASIN																																	
Banning	.12	.10		.08	.08		.13	.13	.11	.16	.10		.15	.10		.09		.11	.15		.14	.10	.10		.10	.13	.13	.16		.08	.14	130	23
Palm Springs	.21	.18	.14	.13	.10	.13	.16	.17	.14	.21	.12	.09	.16	.12	.11		.14	.16	.17													220	18
Indio	.24	.20	.12	.13	.16	.12	.21	.22	.22	.30	.16	.10	.16	.14	.09				.21	.19	.24	.17	.20	.16	.16	.15	.18	.12	.10	.12	.18	446	28
Victorville	.12	.13	.12	.10	.10	.08	.10	.09	.11	.11	.10	.08	.09	.09		.10		.08	.21	.10	.08		.09	.10		.09	.10	.10	.09	.10		122	25
Lancaster	.10	.13	.08	.11	.09	.12	.11				.10	.10	.10	.12	.14	.15	.08	.09			.11	.10		.11	.12	.13	.11	.12	.11	.08		116	24

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OXIDANT
MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.08 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY AUGUST 1971

MONTH AND STATION	DAY OF MONTH																													TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
AUGUST, 1971	*						*	*						*	*						*	*					*	*				
SAN FRANCISCO BAY AREA AIR BASIN																																	
Pleasant Hill										.15	.08							.11					.11	.08								14	5
Richmond																							.08									2	1
Pittsburg	.11	.08								.15	.13			.09			.08	.14					.10									33	8
Redwood City																							.13									5	1
San Jose										.13													.09									5	3
Fairfield										.10				.08				.08														17	4
Vallejo - Trailer								.08	.08	.09								.11					.11									6	3
San Leandro																							.18									4	1
Oakland																.08							.11									2	1
Livermore - Railroad	.13	.09					.10	.11	.10	.19	.14							.13	.08				.16	.08	.09					.08		41	14
Fremont	.08									.14	.08							.10	.08				.16	.08								19	7
SOUTH CENTRAL COAST AIR BASIN																																	
San Luis Obispo										.10	.08																					6	2
SOUTH COAST AIR BASIN																																	
Anaheim	.08		.12	.13	.13		.09	.10		.10				.10	.08			.08			.09		.09	.09	.15	.17	.13	.12	.17		.03	36	16
La Habra				.32	.17	.17	.22	.18		.16		.09		.18	.11			.11	.10			.10	.15	.16	.28	.32	.26	.27	.23	.08	.14	121	25
Orange County Airport				.11	.08	.08	.10			.09														.08		.08	.09	.09	.12	.08	.09	22	12
Green River Golf Course	.11	.09		.15	.15	.15	.20	.18	.09	.11	.10	.10	.12	.15	.17			.09			.08		.10	.08	.19	.19	.18	.14	.20		.09	134	25
Riverside	.19	.15	.20	.30	.29	.18	.25	.20	.25	.23	.17	.14	.17	.20	.30	.22		.24	.19	.16	.24	.14	.24	.18	.34	.32	.32	.24	.30	.17	.10	152	28
Corona	.09	.11	.14	.14	.15	.15	.15	.15	.13	.10	.09	.09	.14	.09	.13	.13		.12	.09		.09		.11	.13	.25	.20	.16	.15	.18	.10	.13	253	31
San Bernardino	.17	.12	.16	.21	.22	.21	.15	.26	.25	.19	.15	.13	.12	.19	.27	.21		.22	.17	.11	.15	.13	.21	.25	.24	.21	.27	.31	.25	.20	.23	299	31
Ontario	.10	.08	.12	.20	.19	.19	.09	.13	.18	.14	.09	.15	.13	.09	.13	.08	.09	.08	.14	.13	.12	.08	.14	.20	.26	.14	.18	.18	.14	.12	.12	109	22
Redlands	.15	.11	.10	.17	.27	.16	.18	.18	.17	.18	.13	.16	.09	.10	.12	.22	.14	.13	.12	.08	.09	.09	.15	.15	.26	.25	.28	.28	.26	.14	.21	222	31
Santa Barbara						.09	.11		.10											.08								.09				10	6
Ojai											.09	.11	.10	.15	.18	.22	.15	.17	.17	.17	.21	.15	.19	.16	.15	.13	.17	.20	.16	.16	.13	172	20
Camarillo	.12	.10	.19	.10	.08	.17	.19	.16			.09	.09	.08	.08		.14	.11	.11	.11	.14	.12	.15	.17	.10	.09	.09	.13	.12	.20	.08	.09	111	17
Los Angeles	.18	.15	.32	.27	.28	.37	.12	.18	.13	.09	.09	.08	.14	.11	.10	.09	.10	.12	.11	.12	.12	.12	.17	.10	.09	.13	.12	.17	.08	.09	.16	96	26
Azusa	.23	.21	.22	.16	.19	.23	.25	.31	.29	.19	.26	.22	.19	.21	.24	.17	.15	.24	.18	.14	.09	.13	.08	.20	.10	.25	.23	.32	.19	.32	.15	242	31
Burbank	.09		.12	.11	.12	.15	.20	.22	.26	.13	.18	.10	.11	.11	.15	.24	.16	.18	.13	.12	.16	.17	.22	.12	.25	.20	.25	.24	.32	.24	.30	200	31
West Los Angeles						.15	.20		.08	.09	.11						.09	.12			.15	.16	.12	.19	.23	.13	.25	.21	.15	.21	.08	65	20
Long Beach	.20	.11	.12	.10	.14	.08	.12														.09	.12			.20	.13	.10	.12	.11	.15	.13	13	9
Reseda	.14	.15	.18	.26	.25	.16	.24	.18	.18	.11	.08		.11	.14	.08	.15	.15	.18	.14	.14	.10	.17	.20	.13	.14	.11	.11	.14	.21	.16	.11	.11	171	30
Pomona				.08		.19	.24	.26	.14	.19	.14	.12	.13	.18	.21	.13	.17	.08			.09	.11	.11	.14	.09	.13	.14	.23	.30	.22		.18	171	28
Lennox	.19	.22	.33	.17	.21	.32	.21	.27	.28	.23	.19	.16	.15	.14	.18	.16	.22	.20	.11	.16	.08	.20	.13	.14	.22	.28	.28	.28	.23	.15	.19	9	4
Pasadena	.08		.10	.23	.18	.18	.20	.11	.23	.19	.12	.12	.08	.18	.12	.19	.12	.22	.18	.17	.13	.09	.15	.15	.20	.23	.21	.22	.08	.13	.15	218	31
Whittier	.24	.17	.14	.08	.11	.17	.26	.23	.18	.18	.12	.09	.13	.14	.19	.21	.22	.18	.17			.16	.14	.20	.13	.12	.14	.09	.11	.15		116	25
Newhall																																185	28
SAN DIEGO AIR BASIN																																	
San Diego																																	
Chollas Heights	.09			.08	.09																												
El Cajon	.08	.09	.08	.10						.10	.08															.08		.08				2	2
Nestor											.10	.09	.08	.08	.08			.08														-	11
Mission Valley	.11	.09	.10	.10	.12	.09	.09	.10	.10	.09			.09	.08	.09							.09	.09	.17	.15	.10	.17	.15	.09			8	10
Oceanside				.08	.09			.10								.08	.08							.13	.13	.13	.13	.09				-	4
SACRAMENTO VALLEY AIR BASIN																	.08					.11			.09	.09	.09	.15	.19	.09		128	19
Chico																		.08	.08			.08	.09	.13	.17	.15	.24					-	12
Sacramento - 13th & J Sts.	.13	.13	.12	.09	.08	.10	.09		.14	.08	.15	.12	.12	.11	.09	.10	.11	.10	.15	.09	.09			.10	.18	.21							
Sacramento - Creekside	.11								.08					.08																			
	.14	.09	.09			.08		.09	.14	.08							.09							.09	.10	.11	.09	.09	.08			12	6
																	.10							.08	.09							23	7

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MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.08 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH AND STATION	DAY OF MONTH																													TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
AUGUST, 1971	*						*	*						*	*						*	*						*	*				
SACRAMENTO VALLEY AIR BASIN																																82	18
													.08	.11			.11	.09	.10				.08	.10	.11							204	25
Sacramento - 1000 P St.	.19	.11	.09		.08	.11	.09	.12	.13	.13	.10	.16	.12	.13	.13	.10	.10	.12	.11	.10	.09		.08	.09	.11	.15	.16	.13	.13	.10			
Redding	.10	.13	.11	.12	.08	.10					.12		.12	.12		.12	.12	.13	.12	.10	.09			.11	.15	.11		.10	.08				
Yuba City	.11	.11	.11	.10	.08	.09		.11	.11	.13	.13	.11			.09																		
SAN JOAQUIN VALLEY AIR BASIN																																128	21
																									.11	.09	.08	.08	.08	.09		68	13
	.13	.16	.09	.08	.08	.08		.09	.15	.12	.11	.12	.11	.08		.12	.12	.15	.11				.08	.11	.13	.11	.11	.11	.12	.09	.08		175	27
Fresno		.11				.12				.12		.08	.09											.10		.12	.10	.12				20	8
Bakersfield - Golden State		.11	.12	.12	.11	.16	.09	.11	.10	.13	.12	.10	.10	.10	.12		.14	.16	.13	.09			.09	.11								116	23
Bakersfield - Chester						.09				.09	.11	.08	.09				.08	.08	.08						.16	.15	.13	.10				181	28
Stockton	.15	.14	.09	.10	.10	.13	.08	.12	.14	.18	.19	.15	.12	.09		.12	.10	.13	.14					.08	.09	.11	.10	.09	.10	.08	.08		
Modesto	.14	.13	.11	.09	.13	.11	.11		.12	.12	.12	.11	.11	.08		.16	.15	.10	.13	.11	.10												
Visalia																																	
SOUTHEAST DESERT AIR BASIN																																70	20
																							.09	.09	.03	.10	.11	.10	.13		.12	97	19
																							.08	.11	.12		.09	.09	.11		.14	288	26
	.09		.08		.13	.08		.11	.08			.10	.08		.10	.16	.09	.12	.10				.13	.23	.15	.11	.14	.17	.23	.09	.18	96	24
Banning					.15	.13	.13	.11		.08		.08	.08	.08	.09	.14	.09	.11					.09	.09	.10					.08	.12	128	24
Palm Springs	.14	.09	.09		.21	.23	.18		.09	.09		.08	.09	.09	.08	.18	.17	.20					.09	.14									
Indio	.08		.09	.08		.10	.08		.15	.17	.09	.10	.09	.09	.09	.11	.11	.12	.10						.08	.10	.09	.08	.09	.09	.08		
Victorville		.20	.12			.08					.13	.13		.12	.11	.10	.13	.12	.15	.09	.15	.11	.08	.14							.10		
Lancaster																																	

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CARBON MONOXIDE
MAXIMUM 8 HOUR AVERAGE IN PPM, ON DAYS WHEN NON-OVERLAPPING 8 HOUR AVERAGES EQUALLED OR EXCEEDED 9 PPM, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH, BASIN, STATION	DAY OF MONTH																													TOTAL NUMBER EPISODES
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
JUNE 1971					*	*						*	*						*	*						*	*					
SOUTH COAST AIR BASIN																																
Riverside						9							11			9			9	13												5
Downtown Los Angeles															9	9			9													3
Reseda														9						9												2
SOUTHEAST DESERT AIR BASIN																																
Palm Springs		9					9	13			9	10	11	9											9	10	11	9	9			12
JULY 1971			*	*	*					*	*						*	*						*	*					*	
SOUTH COAST AIR BASIN																																
Riverside													10																			1
Downtown Los Angeles									9	9		9																	9			4
Reseda									9																							1
SOUTHEAST DESERT AIR BASIN																																
Palm Springs								9	9			12	14	11	9	10																7
AUGUST 1971	*						*	*						*	*						*	*					*	*				
SOUTH COAST AIR BASIN																																
Riverside																						9							9			2
Downtown Los Angeles					9	9																				9	9					4
Burbank		9							9																		9	11				4
Long Beach																											9					1
Reseda							9	9																								2
Lennox						9																					9					2
SAN JOAQUIN VALLEY AIR BASIN																																
Visalia																															9	1

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NITROGEN DIOXIDE
MAXIMUM HOURLY AVERAGE CONCENTRATION IN PPM ON DAYS WHEN A 0.25 PPM VALUE WAS EQUALLED OR EXCEEDED, BY DAY AND STATION

JUNE, JULY, AUGUST 1971

MONTH AND STATION	DAY OF MONTH																												TOTAL NO. EXCEEDED	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	HOURS	DAYS
JUNE, 1971					*	*						*	*						*	*						*	*					
SOUTH COAST AIR BASIN																																	
Los Angeles														.32	.56	.34		.25			.30		.27								14	6
Burbank															.28	.27	.38	.28	.26	.29	.27	.25	.31	.27								20	10
West Los Angeles														.27	.27	.27																4	3
Lennox															.25	.31																2	2
Pasadena																						.28		.27						.25		4	3
Whittier															.26																	2	1
JULY, 1971			*	*	*					*	*						*	*						*	*					*		
SOUTH COAST AIR BASIN																																	
San Bernardino				.27	.25																											2	2
Los Angeles								.25	.31	.40			.32																	.29		9	5
Burbank								.34	.36	.32		.33	.39	.38	.26		.27			.26		.25					.28	.34		.28	.31	31	14
West Los Angeles									.33	.25		.30																				4	3
Long Beach										.26																						1	1
Pomona	.26																															2	1
Lennox												.28																				1	1
Whittier										.26																						1	1
AUGUST, 1971	*						*	*						*	*						*	*					*	*				
SOUTH COAST AIR BASIN																																	
Los Angeles					.29	.46			.27		.28															.27	.28				12	6
Burbank	.25	.40	.38	.29		.31		.25	.35																					.33	16	8
Long Beach						.26																										1	1
Reseda	.25	.29	.33	.25																												9	4
Pasadena									.26																							1	1
Whittier				.26																						.28						2	2

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ANNUAL SUMMARY OF HI VOL DATA
RECEIVED BY THE AIR RESOURCES BOARD

FOR 1971

BASIN, STATION	NO. OF SAMPLES	NO. OF SAMPLES EXCEEDING			MAX	MIN	ANNUAL GEOMETRIC MEAN	6_g
		260 mg/m^3	150 mg/m^3	100 mg/m^3	mg/m^3	mg/m^3	mg/m^3	
NORTH COAST AIR BASIN								
Arcata	51	-	1	3	160	13	49	1.61
Blue Lake	12	1	1	3	281	41	--	-----
Calpella	56	2	8	20	359	14	78	2.03
Eureka - Gen. Hosp.	12	-	1	1	174	18	--	-----
Eureka - Health Dept.	68	-	1	2	188	9	45	1.69
Eureka - Hwy Dept.	12	-	-	-	86	34	--	-----
Ft. Bragg - South	57	1	5	14	368	18	74	1.86
Ft. Bragg - City Hall	48	4	21	34	306	29	122	1.87
Fortuna	12	-	-	-	63	9	--	-----
Garberville	4	-	-	-	40	28	--	-----
McKinleyville	12	-	-	1	121	26	--	-----
Orick	4	-	-	-	36	15	--	-----
Samoa	12	-	1	4	153	26	--	-----
Ukiah - North	71	-	2	10	241	17	57	1.75
Ukiah - Public Works	71	-	2	11	161	13	58	1.77
Willits	71	-	7	22	239	10	70	1.82
SAN FRANCISCO BAY AREA AIR BASIN								
Burlingame	115	-	4	10	213	19	54	1.67
Fremont	114	-	-	5	127	17	50	1.54
Livermore	115	-	1	13	161	21	67	1.49
Petaluma	40	-	4	10	236	23	67	1.80
Pittsburg	142	-	-	7	133	13	40	1.68
Redwood City	131	-	-	3	127	6	34	1.75
Richmond	141	-	-	1	109	13	44	1.54
San Francisco	165	-	-	1	128	14	46	1.45
San Jose	150	-	4	38	208	27	77	1.48
San Rafael	130	-	-	6	125	12	44	1.55
Santa Rosa	19	-	-	1	120	17	--	-----
Vallejo	67	-	-	5	111	19	54	1.50

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ANNUAL SUMMARY OF HI VOL DATA
RECEIVED BY THE AIR RESOURCES BOARD

FOR 1971

BASIN, STATION	NO. OF SAMPLES	NO. OF SAMPLES EXCEEDING			MAX	MIN	ANNUAL GEOMETRIC MEAN	σ_g
		260 mg/m^3	150 mg/m^3	100 mg/m^3	mg/m^3	mg/m^3	mg/m^3	
NORTH CENTRAL COAST AIR BASIN								
Gonzales	24	-	2	6	211	22	76	1.7
King City	24	-	1	4	156	10	61	1.78
Monterey	25	-	-	-	88	14	41	1.48
Salinas	65	-	3	16	207		65	1.6
Santa Cruz	25	-	-	-	74	23	48	1.31
SOUTH CENTRAL COAST AIR BASIN								
San Luis Obispo	73	-	-	-	92	13	43	1.51
Santa Maria	75	-	8	24	232	13	80	1.67
SOUTH COAST AIR BASIN								
Orange Co. Airport	37	-	3	13	215	26	87	1.58
Anaheim	88	1	12	32	294	24	88	1.63
Azusa	71	6	37	55	430	23	142	1.69
Camarillo	30	-	2	14	206	32	96	1.49
La Habra	82	5	16	55	365	35	114	1.58
Lennox	71	3	28	65	283	40	139	1.41
Los Angeles	70	2	40	60	309	28	144	1.53
Los Alamitos	35	2	3	13	337	39	87	1.67
Ojai	41	-	1	7	158	21	73	1.52
Oxnard	26	1	1	6	249	36	74	1.60
Pasadena	71	-	6	38	240	24	100	1.46
Riverside	34	5	19	26	609	42	147	1.79
San Bernardino	33	2	18	22	419	28	130	1.83
Santa Barbara	61	-	1	7	168	11	60	1.61
Ventura	36	-	1	6	152	13	73	1.51
SAN DIEGO AIR BASIN								
San Diego	42	-	-	10	140	41	74	1.2
El Cajon	45	-	6	16	210	34	89	1.2

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ANNUAL SUMMARY OF HI VOL DATA
RECEIVED BY THE AIR RESOURCES BOARD

FOR 1971

BASIN, STATION	NO. OF SAMPLES	NO. OF SAMPLES EXCEEDING			MAX	MIN	ANNUAL GEOMETRIC MEAN	σ_g
		260 mg/m^3	150 mg/m^3	100 mg/m^3	mg/m^3	mg/m^3	mg/m^3	
NORTHEAST PLATEAU AIR BASIN								
Yreka	45	-	-	0	98	13	39	1.63
SACRAMENTO VALLEY AIR BASIN								
Chico	69	-	1	11	174	20	54	1.4
Redding - Market St.	67	-	-	2	105	12	44	1.2
Redding - Hospt. Ln.	17	-	1	2	155	36	69	1.43
Sacramento	38	-	1	12	191	17	75	1.63
Yuba City	31	-	3	16	177	17	82	2.0
Auburn	12	-	-	--	66	15	--	-----
Roseville	17	-	-	3	148	26	--	-----
Tahoe	11	-	-	-	74	9	--	-----
SAN JOAQUIN VALLEY AIR BASIN								
Avenal	7	-	-	--	92	49	--	-----
Bakersfield - Golden St.	34	4	22	33	1126	49	167	1.60
Bakersfield - Flower St.	50	9	29	44	1209	52	171	1.72
Bakersfield - Chester St.	45	3	16	41	800	58	148	1.64
Delano	50	3	7	16	423	7	80	1.98
Fresno	72	1	9	33	490	22	94	1.67
Hanford	49	4	26	39	1580	15	138	2.10
Modesto	72	2	8	28	382	33	91	1.1
Stockton	69	-	5	18	235	17	73	1.6
Taft	29	1	2	12	501	29	88	1.78
Visalia	71	5	36	54	584	17	145	1.8
SOUTHEAST DESERT AIR BASIN								
Indio	53	9	29	42	588	39	156	1.87
Mojave	30	1	10	21	322	49	114	1.59
Ridgecrest	19	1	1	3	416	37	--	-----

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OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SAN FRANCISCO BAY AREA AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Burlingame	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	11	3	4	2	0	0	0	0	17	7
Fairfield	0	0	0	0	0	0	0	0	0	0	6	4	8	3	10	2	6	3	33	6	2	1	0	0	65	19
Fremont Chapel Way	0	0	0	0	4	2	2	2	1	1	10	4	22	9	10	3	67	15	31	8	0	0	0	0	147	44
Livermore Railroad	0	0	0	0	2	1	2	1	5	4	19	6	60	14	29	10	30	11	30	7	0	0	0	0	177	54
Napa Solano Hwy.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	6	14	4	0	0	0	0	38	10
Oakland	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	27	7	12	4	0	0	0	0	40	12
Pittsburg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	7	26	6	0	0	0	0	98	30
Redwood City	0	0	0	0	0	0	3	1	0	0	3	3	22	7	22	6	22	7	26	6	0	0	0	0	64	19
Richmond	0	0	0	0	3	1	4	1	0	0	0	0	0	0	4	1	34	10	19	6	0	0	0	0	34	10
San Francisco Ellis	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	23	6	9	3	0	0	0	0	10	3
San Jose Alma St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	2	1	1	0	0	0	0	73	27
San Leandro	0	0	0	0	1	1	2	2	0	0	3	2	14	7	3	2	40	9	10	4	0	0	0	0	78	29
San Rafael	0	0	2	1	1	1	1	1	1	1	9	4	4	2	4	1	37	11	19	7	0	0	0	0	34	12
Vallejo Trailer	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	25	6	7	4	0	0	0	0	29	15
Walnut Creek	0	0	0	0	1	1	0	0	0	0	2	2	4	2	4	2	12	5	6	3	0	0	0	0	177	52
	0	0	0	0	0	0	7	4	7	4	14	6	26	9	10	3	63	15	50	11	0	0	0	0		
Total Hours		0		3		13		22		14		69		160		97		430		271		2		0		1,081
Total Days		0		2		8		13		10		33		53		31		116		76		1		0		343

OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

NORTH CENTRAL COAST AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Gonzales	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	7	22	8	1	1	0	0	49	16
Monterey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	4	3	2	0	0	0	0	8	6
Salinas	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	15	5	4	3	0	0	0	0	21	9
Santa Cruz	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7	3	0	0	0	0	8	4
Total Hours		0		0		2		0		0		0		0		0		47		36		1		0		86
Total Days		0		0		1		0		0		0		0		0		17		16		1		0		35

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OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SOUTH CENTRAL COAST AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
San Luis Obispo	0	0	0	0	0	0	0	0	0	0	0	0	16	5	2	1	10	4	4	2	0	0	0	0	32	12
Santa Maria	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	3	1
Total Hours		0		0		0		0		0		0		19		2		10		4		0		0		35
Total Days		0		0		0		0		0		0		6		1		4		2		0		0		13

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OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SOUTH COAST AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Anaheim	17	4	7	4	15	6	8	3	16	4	28	9	33	10	29	13	40	12	29	7	4	2	0	0	226	74
Azusa	26	8	45	11	50	13	77	16	82	17	184	25	249	31	233	31	161	25	76	16	44	12	0	0	1227	205
Burbank	11	5	19	7	28	10	42	12	38	11	142	22	185	31	182	31	114	23	41	10	6	3	0	0	808	165
Corona	--	6	--	10	69	17	63	15	52	12	12	5	127	26	129	28	152	24	87	18	23	7	0	0	714	168
La Habra	13	5	15	6	26	11	20	8	15	8	58	15	88	24	103	23	105	22	68	14	21	8	4	2	536	146
Lennox	17	7	19	6	4	1	15	7	0	0	8	4	9	5	3	1	6	3	19	7	0	0	0	0	100	41
Long Beach	6	4	5	4	2	2	12	6	3	1	3	2	7	3	10	7	17	5	13	5	0	0	0	0	78	39
Los Angeles (Downtown)	8	3	16	5	12	4	44	10	16	8	65	16	83	23	70	21	46	13	31	13	2	2	0	0	393	118
Newhall	4	1	2	1	32	7	40	11	68	12	181	25	232	30	155	27	83	18	15	5	17	7	0	0	829	144
Ojai	6	2	18	4	44	10	95	20	163	18	178	23	81	10	152	20	189	24	17	4	23	7	0	0	966	142
Ontario	5	2	25	8	11	6	21	6	15	4	110	18	167	26	82	19	46	16	20	6	0	0	0	0	502	111
Pasadena	23	8	44	12	44	12	69	16	64	16	172	24	239	31	203	31	146	24	90	17	41	13	0	0	1135	204
Pomona	9	4	12	4	33	12	35	10	52	12	109	18	188	29	154	27	107	21	40	9	21	8	0	0	760	154
Redlands	1	1	14	6	54	14	30	7	69	11	145	18	256	31	200	30	142	22	17	4	14	5	0	0	942	149
Reseda	7	3	18	7	42	9	46	11	87	14	199	26	193	31	150	29	103	22	45	8	18	7	0	0	908	167
Riverside	35	10	58	14	105	18	84	18	107	16	234	26	267	31	277	31	236	30	84	15	39	11	0	0	1526	220
San Bernardino	0	0	5	2	26	9	44	11	78	14	213	26	255	31	225	31	142	24	35	8	2	2	0	0	1025	158
Santa Ana	43	9	56	13	34	8	43	13	16	5	23	7	28	8	9	7	48	13	45	10	15	6	0	0	360	99
West Los Angeles	17	5	15	5	10	4	21	9	10	5	28	8	36	16	45	17	25	12	25	9	3	3	0	0	235	93
Whittier	19	7	28	9	12	5	18	6	20	6	46	10	81	21	94	22	87	19	67	15	5	4	0	0	477	124
Total Hours		267		421		653		827		971		2,138		2,904		2,505		1,995		864		298		4		13,747
Total Days		88		128		178		215		194		327		448		446		372		200		107		2		2,861

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OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SAN DIEGO AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Chollas Heights	--	5	--	10	--	15	--	6	--	6	--	5	--	3	--	8	--	16	--	13	--	3	--	0	--	90
El Cajon	--	10	--	10	--	17	--	12	--	9	--	7	114	18	68	15	98	13	169	23	88	21	0	0	537	155
Mission Valley	5	3	14	6	25	7	41	9	11	4	53	12	58	12	96	17	7	3	6	2	6	4	0	0	322	79
Nestor	--	7	--	12	--	16	--	6	--	1	--	2	--	2	--	4	--	11	--	13	--	17	--	4	--	95
Oceanside	--	10	--	13	--	12	--	15	--	7	--	1	--	3	--	7	--	7	--	11	--	6	--	0	--	92
San Diego	4	2	4	2	15	4	8	2	0	0	2	2	2	1	0	0	13	4	7	3	1	1	0	0	56	21
Total Hours		9		18		40		49		11		55		174		164		118		182		95		0		915
Total Days		37		53		71		50		27		29		39		51		54		65		52		4		532

OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SACRAMENTO VALLEY AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Chico	0	0	0	0	0	0	8	3	8	3	16	4	206	26	131	22	34	7	23	6	0	0	0	0	426	71
Redding	0	0	0	0	0	0	2	1	8	2	8	4	158	19	158	24	42	7	7	3	2	1	0	0	385	61
Sacto 13th and J St.	0	0	0	0	0	0	0	0	0	0	0	0	5	2	4	3	12	5	12	4	0	0	0	0	33	14
Sacto Creekside	0	0	0	0	9	2	15	4	3	1	4	1	78	18	14	5	54	12	43	9	0	0	0	0	220	52
Sacto 10th and P St.	0	0	0	0	0	0	0	0	0	0	6	2	84	21	63	15	39	10	26	9	0	0	0	0	218	57
Total Hours		0		0		9		25		19		34		531		370		181		111		2		0		1,282
Total Days		0		0		2		8		6		11		86		69		41		31		1		0		255

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OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SAN JOAQUIN VALLEY AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Bakersfield Golden State	0	0	0	0	0	0	0	0	0	0	0	0	9	6	48	11	103	20	48	11	6	3	0	0	214	51
Fresno Court Roof	0	0	6	1	3	2	1	1	0	0	8	4	167	24	83	15	67	14	41	10	0	0	0	0	376	71
Modesto	0	0	0	0	9	3	13	4	28	7	42	13	169	28	100	22	63	15	46	11	0	0	0	0	470	103
Stockton Hazelton St.	0	0	0	0	0	0	0	0	0	0	0	0	19	5	8	4	2	1	59	10	0	0	0	0	88	20
Visalia	0	0	3	1	0	0	0	0	32	7	136	23	171	28	131	24	99	17	58	12	24	7	0	0	654	119
Total Hours		0		9		12		14		60		186		535		370		334		252		30		0		1,802
Total Days		0		2		5		5		14		40		91		76		67		54		10		0		364

OCCURRENCES OF OXIDANT HAVING A VALUE GREATER THAN .08 PPM FOR THE YEAR 1971

SOUTHEAST DESERT AIR BASIN

NAME	JAN HR	JAN DY	FEB HR	FEB DY	MAR HR	MAR DY	APR HR	APR DY	MAY HR	MAY DY	JUN HR	JUN DY	JUL HR	JUL DY	AUG HR	AUG DY	SEP HR	SEP DY	OCT HR	OCT DY	NOV HR	NOV DY	DEC HR	DEC DY	ANNUAL HRS	ANNUAL DYS
Banning	0	0	0	0	48	14	15	6	30	7	99	19	96	20	40	16	21	8	18	3	0	0	0	0	367	93
Lancaster	0	0	0	0	9	3	5	3	17	5	66	16	78	21	79	19	57	14	6	2	1	1	0	0	318	84
Victorville	1	1	0	0	0	0	0	0	0	0	50	10	77	21	54	19	31	8	2	2	0	0	0	0	215	61
Total Hours		1		0		57		20		47		215		251		173		109		26		1		0		900
Total Days		1		0		17		9		12		45		62		54		30		7		1		0		238

APPENDIX B

STATISTICAL ANALYSIS OF AMBIENT AIR QUALITY DATA

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The primary purpose of this section is to describe certain statistical terms that can be applied in the reduction of ambient air quality data. The information discussed is briefly summarized. More complete details can be obtained from numerous reference books on elementary statistics as indicated at the end of Appendix.

A. GRAPHICAL OR TABULAR PRESENTATION OF DATA

I. Frequency Distribution or Frequency Table

A tabular arrangement of data by classes together with the corresponding class frequencies.

II. Cumulative Frequency Distribution

Total frequency of all values less than the upper class boundary of a given class interval.

III. Relative Frequency Distribution

Frequency of the class divided by the total frequencies of all classes expressed as decimal or percentage.

IV. Relative Cumulative Frequency Distrubtion

Cumulative frequency distribution expressed as a decimal or percentage.

V. Histogram

Plot of a frequency distribution

General Rules for Forming Frequency Distributions:

1. Determine the largest and smallest numbers in the raw data and thus find the range.

2. Divide the range into a convenient number of class intervals.

3. Determine the number of observations falling into each class interval.

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EXAMPLE B-1

TABULAR PRESENTATION OF DATA

A.M. inversion measurements for month of November for 20 years of record.

Inversion Height Class Interval	Frequency Distribution	Cumulative Frequency Distribution	Relative Frequency Distribution	Relative Cumulative Frequency Distribution
500 - 1000	270	270	0.45	0.45
1000 - 1500	120	390	0.20	0.65
1500 - 2000	90	480	0.15	0.80
2000 - 2500	60	540	0.10	0.95
2500 - 3000	30	570	0.05	0.95
>3000	30	600	0.05	1.00
	N = 600			

The same analysis can be made for wind speed, wind directions and pollutant concentrations.

B. NUMERICAL ANALYSIS NORMAL DISTRIBUTION

I. Measure of Central Tendency

a. Mean $\overline{X} = \frac{\Sigma X_i}{n}$

Where ΣX_i = sum of all observations

n = total number of observations

b. Mode - value of the observation which occurs most frequently

c. Median - is the middle observation when the observations are ranked or arranged in order of magnitude

II. Measure of Scatter or Dispersion

a. Range - difference between highest and lowest observation

b. Standard Deviation

$$S = \sqrt{\frac{SSxx}{n-1}} \quad \text{where} \quad SSxx = \Sigma X_i^2 - \frac{(\Sigma X_i)^2}{n}$$

To compute the mean ($\overline{X}$) from a grouped frequency table, use the following formula:

$$\overline{X} = \frac{\Sigma f_i X_i}{\Sigma f_i}$$

Where X_i = midpoint of class interval

f_i = frequency in the class interval

To compute the standard deviation from a grouped-frequency table use the following equation:

$$S = \sqrt{\frac{\Sigma (f_i X_i)^2 - \frac{(\Sigma f_i X_i)^2}{n}}{n-1}}$$

Where X_i = midpoint of class interval

f_i = frequency in the class interval

n = total number of observations

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C. NUMERICAL ANALYSIS LOGNORMAL DISTRIBUTION

For a lognormal distribution the arithmetic mean ($\bar{X}$), geometric mean ($\bar{X}_g$), standard deviation (S) and standard geometric deviation (S_g) are related as follows [15]:

$$S_g = \exp\left[\ln^{0.5}\left(\frac{S^2}{\bar{X}^2}+1\right)\right]$$

$$\bar{X}_g = \frac{\bar{X}}{\exp\left(0.5\ \ln^2 S_g\right)}$$

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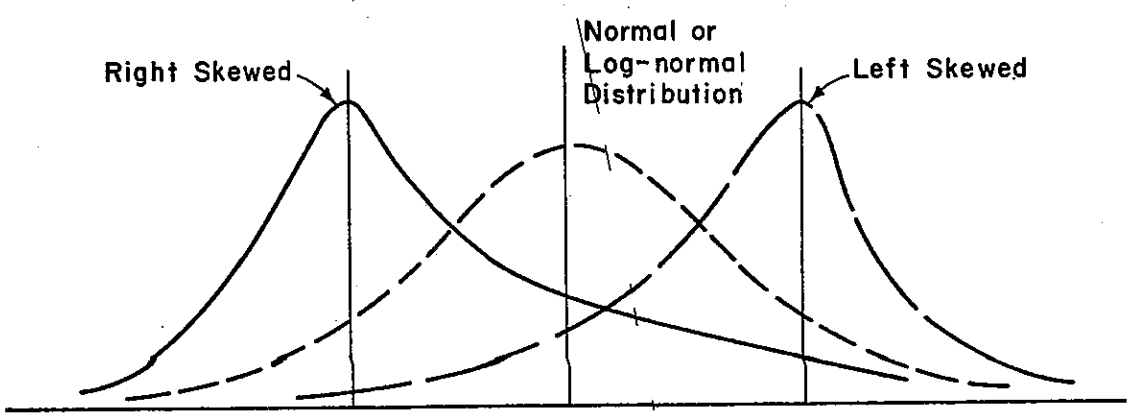
D. SKEWNESS



RELATIVE FREQUENCY DISTRIBUTION

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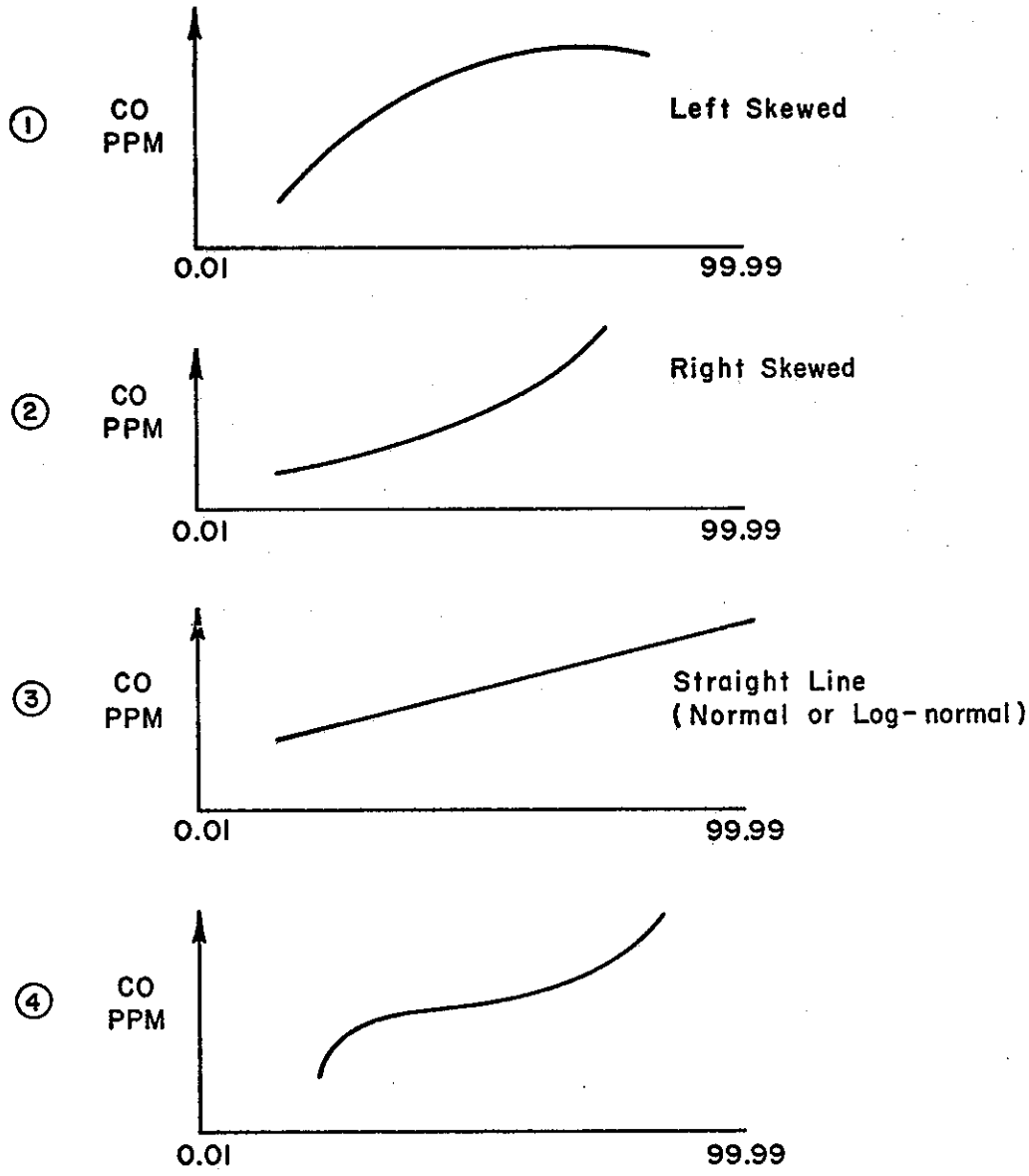
E. DATA PLOTTED ON PROBABILITY OR LOG PROBABILITY PAPER



Curves 1 and 2 probably indicate lack of data measurements.
Curve 3 is a normal or log-normal distribution of random data.
Curve 4 probably indicates data taken from different populations.

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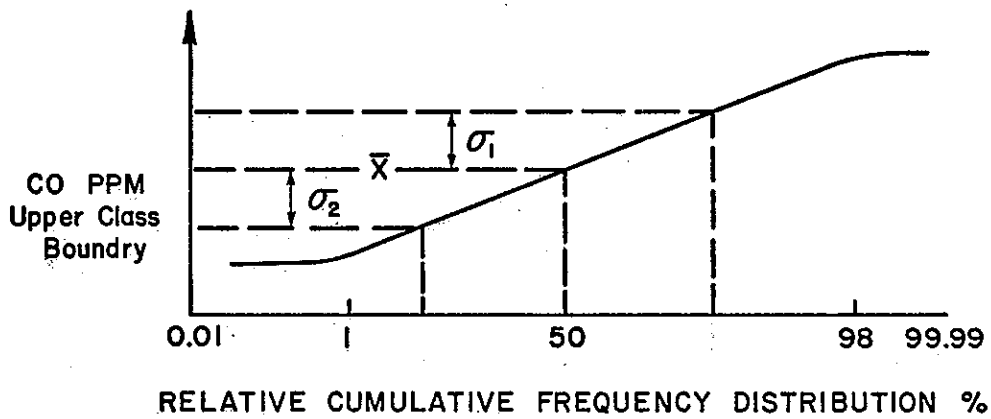
F. NORMAL AND LOGNORMAL DISTRIBUTION ON PROBABILITY PAPER



I. In drawing the "best" line pay more attention to points near the center of the distribution than those near the extremes. Tails are bound to show scatter since the actual number of observations in that region is usually small.

For a normal distribution the:

Mean corresponds to the 50% probability.
Standard Deviation corresponds to 34% to 50% probability or 50% to 85% probability.

Both $\bar{X}$ and σ can be read from the plot directly.

For a lognormal distribution the geometric mean corresponds to the 50% value. The geometric standard deviation is equal to the ratio of 15.85% concentration to the 50% concentration.

The ordinate in the curve above could have been any other parameter such as concentration of hydrocarbons, etc.

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II. Since probability paper does not have 0% or 100% probability values, modify the relative cumulative frequency distribution by the following equation:

$$\text{Relative Cumulative Frequency Distribution} = \frac{\sum f_i}{n+1}$$

Where f_i = frequency within a class interval

n = total number of all observations

Note: By adding one to the total number of observations, probabilities of 0% or 100% are not encountered.

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G. CONFIDENCE INTERVALS

A NOMOGRAPHIC REPRESENTATION FOR THE CONFIDENCE INTERVAL AND LEVEL OF SIGNIFICANCE IS PRESENTED BELOW.

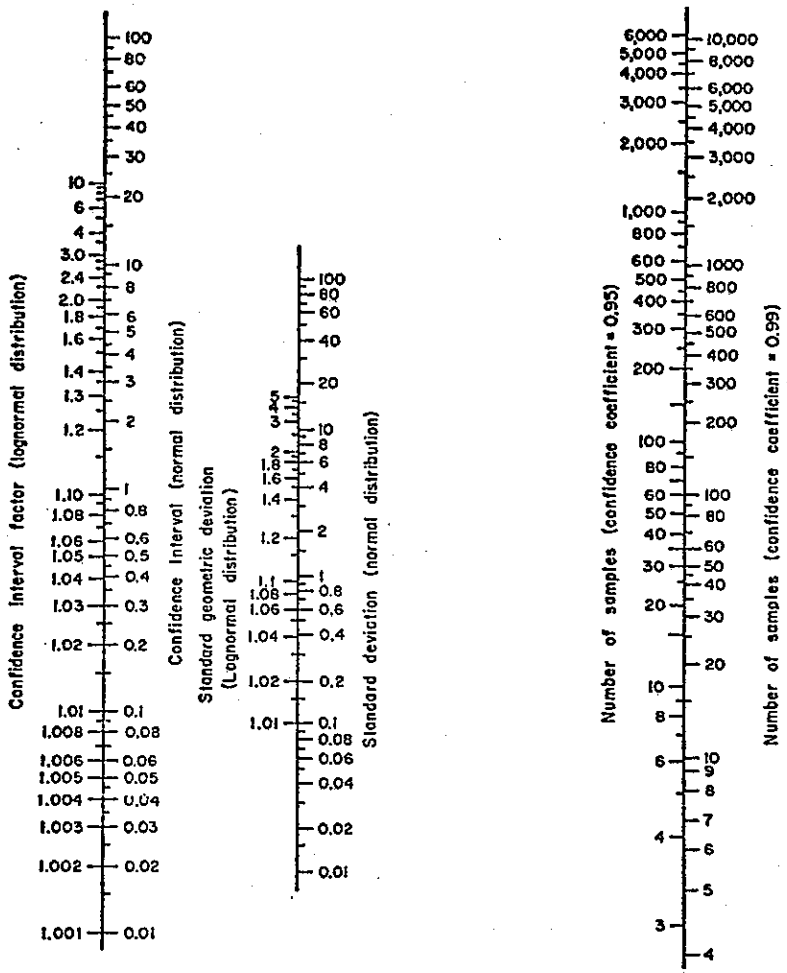

Figure 1. Confidence intervals for the mean of a group of random samples.
For a normal distribution, use numbers on right sides of center and left scales. A straight line connects related values of the confidence interval (above and below the mean), the standard deviation, and the number of samples (n) in the group for either 0.95 or 0.99 confidence coefficients (calculated from the t_{n-1} distributions). If desired, the numbers on both the standard deviation scale and on the confidence interval scale may be multiplied by the same factor (e.g. 0.1, 0.01, 0.001, etc.)
For a lognormal distribution, use numbers on left sides of center and left scales. A straight line connects related values of the confidence interval factor (with which to multiply or divide the geometric mean), the standard geometric deviation, and the same scales for number of samples in the group.

SOURCE: "Simplified Methods for Statistical Interpretation of Monitoring Data" by B.E. Saltzman Journal of Air Pollution Control Association, Feb. 1972.

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Reference Books on Statistics

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