MONITORING IN OZONE TRANSPORT CORRIDORS

Monthly Data Report
September 1, 1995 through September 30, 1995

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1.0 Overview

The following is the fourth monthly data report from the monitoring network established as part of ARB Contract No. 94-316 entitled Monitoring in Ozone Transport Corridors. This report covers the data acquired from September 1, 1995 to September 30, 1995.

The network was designed to provide information to aid our understanding of the origin of high ozone concentrations in the Mojave Desert region and along the San Diego County coastline with a focus on the major transport corridors from the Los Angeles Basin. The project network comprises eight sites, seven of which are located in the Mojave Desert area. The eighth site is located on Catalina Island. Figure 1 is a map showing the locations of the sites. Four sites are placed at "elevated" locations that are intended to provide surrogate measurements of conditions aloft. The desert elevated sites are located on Quartzite Mtn., Shadow Mtn., and FlashII Mtn. The site on Catalina Island is at the Airport in the Sky that is also elevated. Two of the sites are located at the exit of passes leading into the desert from the South Coast Air Basin (Soledad Canyon and Cajon Pass), and the remaining two sites at Boron and Ludlow are situated as to monitor ozone transport from the San Joaquin Valley and from the eastern desert region, respectively. Ludlow, removed from any significant emission sources other than Highway 40, can serve as an indicator of downward transport of ozone to the surface from layers aloft.

Continuous measurements of ozone, ambient temperature, shelter temperature, wind direction, and wind speed are made at each site. The data are processed on-site and stored as six-minute and hourly averages. The site data systems are interfaced to modems, and the data is accessible for viewing or downloading via a telephone.

The only significant loss of ozone data during the reporting period occurred at Quartzite Mtn. During a six-day period, September 8-13, there were numerous "spikes" in the six-minute averaged data. These spikes were removed during post-processing, and new hourly averages computed from the remaining six-minute averages. However, for a number of hours (24) not enough valid points remained after removal of the spikes to recompute an hourly average. These data are flagged as missing in the hourly data set. This problem was corrected when the ozone analyzer was serviced and calibrated on September 13.

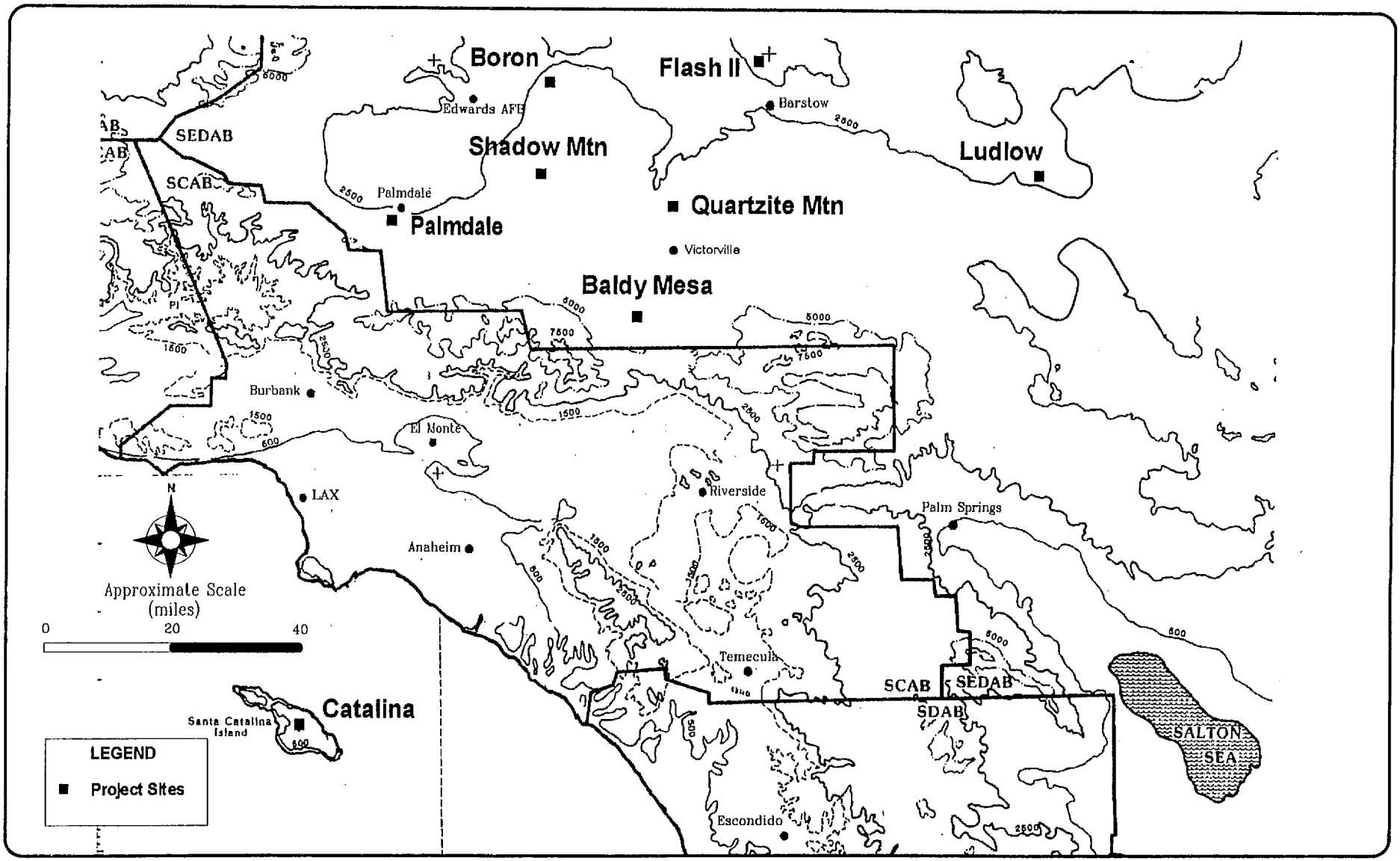

Fig. 1 Project Site Locations

Exceedances of the State standard were measured at all the sites in the project network except Ludlow. It should be noted that the District's site at Barstow did not experience any exceedances as well. (Data from the ~~District~~ ARB's Mojave site has not been received.)

Table 1 gives the number of hours and days that hourly-averaged ozone concentrations exceeded the State's standard at the sites within the project network. The maximum concentrations experienced and the days on which the maximum occurred are also given.

Table 1 Number of Hours and Days the State Standard for Ozone was Exceeded During September 1995

Site	# Hours	# Days	Maximum (ppb)	Date of Maximum
Baldy Mesa	90	18	165	23
Boron	4	3	105	6
Catalina	18	4	140	15
FlashII Mtn.	3	2	103	15
Ludlow	0	0	73	8
SE Palmdale	52	16	146	19
Quartzite Mtn.	26	9	116	5, 24
Shadow Mtn.	12	7	138	2

The number of exceedance hours and exceedance days at the desert sites during September was significantly reduced from prior months. Maximum hourly levels within the network were measured at Baldy Mesa (165 ppb) and SE Palmdale (146 ppb).

Occurrences of winds from the north through east quadrant were more frequent than during the previous months, and were characterized by low ozone levels. September 11 through September 13 and September 29 through September 30 were two such periods.

Beginning on September 25 and continuing until the end of the reporting period, ambient temperatures in the Mojave Desert were relatively cool and accompanied by low ozone levels.

At the Catalina Island airport site, the ozone exposure was comparable to July and August. It is interesting to note that on several days in September the network maximum was measured at the Catalina airport site.

Two other events that warrant further review were noted during data validation. One occurred at Shadow Mtn. on September 2 when exceedance ozone levels were measured for three hours when the flow was southerly. This is unusual in that all the other exceedances at that site have occurred during westerly flows.

The other event occurred at the Palmdale site, which frequently experiences ozone exceedances, but typically when there is transport through Soledad Canyon (characterized by southwest to west-southwest winds). Several hours of exceedances on September 18 and 21 occurred when winds at the site were southerly.

Ogden Environmental and Energy Services Company (Ogden), who has been a major participant in the operation and maaintenance of the network, conducted internal quality assurance audits on the instruments at all eight sites. All of the instruments were found to be operating within acceptable limits. A synopsis of operations during the reporting period is presented in Section 2. The routine quality control (QC) and quality assurance (QA) procedures that ensure the integrity of the data collected in this project are summarized in Section 3. The internal quality assurance audit report comprises Section 4. The format of the data is shown in Section 5. The hourly-averaged data are given in Section 6. Calibration results,zero precision span (ZPS) check worksheets, and details regarding the internal audit results are given in the appendices.

2.0 Operations Summary

Internal audits of the ozone analyzers and meteorological sensors were made at six of the eight sites as noted below. The remaining sites, Catalina and FlashII Mtn., were audited in October. All the equipment performed within specifications. Reports on the audits for all eight sites are given in Appendix D of this report. Appendix E contains the audit equipment certification documentation.

Other activities and problems encountered during the reporting period are summarized below.

Baldy Mesa - A multipoint calibration was performed on the ozone analyzer September 14. Zero precision span (ZPS) checks were performed September 8, September 21 and September 28. Internal audits of the ozone analyzer and the meteorological sensors were performed on September 28. No problems occurred during this reporting period.

Boron - A multipoint calibration was performed on the ozone analyzer September 17. Zero precision span (ZPS) checks were performed September 9, September 21, and September 29. An internal audit of the ozone analyzer and of the meteorological sensors was performed on September 29. No problems occurred during this reporting period.

Catalina Island - A multipoint calibration was performed on ozone analyzer September 20. Zero precision span (ZPS) checks were performed September 6, September 11, and September 25. No problems occurred during this reporting period.

FlashII Mtn. - A multipoint calibration was performed on the ozone analyzer September 14. Zero precision span (ZPS) checks were performed September 7 and September 22.

Shelter temperatures, usually during the nighttime, were often higher than ARB/EPA guidelines. This problem was repeatedly reported to the facility operator but they were unable to determine why this was occurring. The only action taken was to set the air conditioner thermostat lower. Otherwise, no problems occurred during this reporting period.

Ludlow - A multipoint calibration was performed on the ozone analyzer September 15. Zero precision span (ZPS) checks were performed September 7, September 22 and September 30.

An internal audit of the ozone analyzer and of the meteorological sensors was performed on September 30.

There were four periods in which there were ozone data losses, each of about 2-3 hours duration. Site power outages were likely the cause since the shelter temperature increased (due to an inoperative air conditioner) during each event. Otherwise, no problems occurred during September.

S.E. Palmdale - A multipoint calibration was performed on the ozone analyzer September 14. Zero precision span (ZPS) checks were performed on September 1, September 8, September 21, and September 29. An internal audit of the ozone analyzer and the meteorological sensors was performed on September 29. No problems occurred during this reporting period.

Quartzite Mtn. - A multipoint calibration was performed on the ozone analyzer September 13. Zero precision span (ZPS) checks were performed on September 1, September 8, September 24, and September 30. An internal audit of the ozone analyzer and of the meteorological sensors was performed on September 30.

Ozone readings were noisy during the period beginning September 8 until the problem was corrected on September 13. Spikes in the six-minute averaged data were removed. When at least 30 minutes of valid data remained after removing spikes, new hourly averages were computed.

Shadow Mtn. - Multipoint calibrations were performed on the ozone analyzer September 17. Zero precision span (ZPS) checks were performed September 9, September 22, and September 28. An internal audit of the ozone analyzer was conducted on September 28, and of the meteorological sensors on September 30. No problems were encountered during the reporting period.

3.0 Routine Quality Control and Assurance Procedures

Quality control of the data begins with the standard operating procedures (SOP) and documentation that have been implemented for this project, and the requirement that the field technicians be familiar with these procedures. Copies of the SOP and required documentation are kept at each site.

As part of the SOP, routine weekly visits are made to each site. During each visit the equipment and site facility are visually inspected, and zero precision span (ZPS) checks performed on the ozone analyzer. The ZPS check reports are shown in Appendix A.

The sites are interrogated daily via a telephone, and the data reviewed by experienced personnel. If problems are suspected or data appears questionable, the Monitoring Task Manager is notified immediately. The Monitoring Task Manager, after reviewing the suspect problem(s), will deploy a technician to the site if required. In this manner, problems are discovered and resolved with minimum data loss.

Data are stored on-site in non-volatile memory modules as well as in the data logging systems. This redundancy allows the data to be recovered if a data system fails or if communications to the site are disrupted.

Data quality assurance (QA) is provided by a number of functions. Multipoint calibrations of the meteorological and ozone monitoring equipment were performed at the initiation of monitoring. Thereafter, monthly multipoint calibrations of the ozone analyzers, and trimester multipoint calibrations of the meteorological sensors are performed. The multipoint calibrations ensure that the equipment is operating within project requirements. The results of the multipoint calibrations are contained in Appendix B. Also, the desert sites were audited by personnel from the ARB/MLD lab. (Logistical problems precluded their auditing the Catalina Island site.)

The hourly-averaged data are reviewed by personnel experienced with the parameters being measured. The data are checked for internal consistency, and consistency with other sites -- both project sites and those operated by other agencies. Ozone consistency checks also include reasonableness with local and regional meteorological conditions.

Results of the data QA review are documented on standard forms. That documentation is included in Appendix C.

QA codes identify the validity of each data field. If a measurement is missing or has been determined as invalid, the QA codes give an explanation. The QA codes used in the data base are defined in the following section.

4.0 Results of the Internal Quality Assurance Audit

Between September 28 and October 4, 1995, Mr. Dominic Laniewicz of Ogden Environmental and Energy Services Company (Ogden) conducted internal quality assurance performance audits on instruments at the eight ozone transport monitoring stations. Ogden is a participant in the field study and has teamed with T&B Systems, the prime contractor, to operate and maintain the network. The monitoring network collects continuous ozone, wind speed, wind direction and temperature data.

This section describes how the internal audits were conducted and presents the audit findings in Appendix D. Appendix E contains documentation regarding certification of the instruments and equipment used to perform the audits.

4.1 Audit Methodology

The auditing methods used by Ogden are consistent with published U.S. Environmental Protection Agency (USEPA) guidelines[1] and Ogden's own quality assurance program[2] for meteorological stations. In brief, each meteorological instrument or measuring device was challenged with a known input from the appropriate audit equipment. The station's observed response was noted and the relative difference between the known audit input and observed station response was used to assess the instrument's accuracy. To maintain the element of independence, the auditor and the audit equipment used to perform the tests were not part of the normal station QC operations. Listed below are the auditing methods used to conduct the performance audit at the site. Table 2 identifies the performance audit methods and acceptance limits used to audit each parameter monitored by the stations.

Wind Speed: The sensor's anemometer was removed to permit a zero wind speed reference point. The sensor's starting torque threshold was measured by a torque disk. A motor device was then attached to the sensor shaft and a known rotational frequency (rpm) was input to the system. The rpm input was converted to an equivalent wind speed according to the manufacturer's calibration. The observed output reported by the station was

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1 *Quality Assurance Handbook for Air Pollution Measurement Systems: Vol. IV, Meteorological Measurements, August 1989*

2 *Ambient Air Quality Monitoring Quality Assurance Program Manual, Ogden, Revised November 1991*

compared to the known wind speed input. At least two different audit points plus the zero reference were input to the system during the audit.

Wind Direction: The wind direction sensor was audited in two ways. First, the sensor's alignment to true north was determined by a precision compass, a topographical map, protractor and the current magnetic declination for the area. The alignment of the north-pointing orientation rod along the north-south axis was determined by use of a precision compass and a siting device such as a surveyor's transit or binoculars. Once the true alignment of the rod was determined the wind direction sensor was held at key positions to confirm it's orientation relative to the alignment rod. After the sensor's true alignment was been determined, the vane was rotated in discrete known intervals (e.g., 90 degrees) both clockwise and counter-clockwise through 360 degrees. The difference between the known and observed incremental points established the sensor's accuracy and linearity. A torque gauge was used to measure the sensor's starting resistance threshold to a ten degree deflection of the vane.

Temperature: The temperature probe was placed in a dewar flask or insulated container filled with water at a known temperature. The bath was agitated to assure thermal uniformity and the temperature was determined by a NIST-traceable mercury thermometer with 0.1 degree C division markings. At least three temperatures over the operating range of the system were input to the probe. The differences between the known audit input and observed station output were used to confirm the system's accuracy.

Ozone: A certified ozone transfer standard with an internal ozone source lamp (Dasibi 1003 PC) was used to challenge the station analyzer with a zero plus at least three upscale ozone concentrations over the station analyzer's operating range (0 - 500 ppb). The audit ozone gas concentrations were assayed simultaneously by the transfer standard unit and the station ozone analyzer. The known ozone audit input concentrations were compared with the station analyzer's observed response. The audit results were plotted as x and y coordinates by linear regression and evaluated by the resulting audit response curve (slope, intercept and correlation coefficient).

Table 2 Performance Audit Methods and Acceptance Limits

Parameter	Audit Method	Acceptance Limits
Wind Speed WS starting torque threshold	Constant rpm motor Torque disk	±0.2 mps wind speeds 5mps, and ±5% of input for speeds >5mps <0.5 meters per second
Wind Direction Alignment	Precision compass and USGS topo map	±3 degrees from true north
Wind Direction WD starting torque threshold	Cardinal direction inputs Torque gauge	±3 degrees mean absolute error, and ±5 degrees per direction input point <0.5 meters per second
Temperature	Mercury thermometer and water baths	±0.50 C
Ozone	Certified transfer standard	Slope = 1.0 ± 0.1 Intercept = < ± 3% of full scale Correlation = > 0.9950

4.2 Audit Results Summary

All of the instruments tested during the QA performance audits were found to be operating within acceptable audit limits. The wind speed and wind direction sensors at the Ludlow site could not be tested due to lack of adequate climbing safety equipment needed to retrieve the sensors from the platform on which they were mounted. Table 3 presents the summary of the performance audit Pass/Fail results. Refer to Appendix D for details regarding the performance audit results.

Table 3 Summary of Performance Audit Pass/Fail Results

Station Name	WS	WS Torque	WD	WD Torque	North Align.	Temp	Ozone
Baldy Mesa	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Boron	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Catalina	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Flash II	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Ludlow	NA	NA	NA	NA	PASS	PASS	PASS
Palmdale	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Quartzite	PASS	PASS	PASS	PASS	PASS	PASS	PASS
Shadow Mtn	PASS	PASS	PASS	PASS	PASS	PASS	PASS

4.3 Observations and Comments

In general, the monitoring stations apear to be operating properly and meet acceptable siting criteria to collect representative ozone and meteorological data. With the exception of the Catalina site, all of the ozone analyzers are operating in temperature controlled environments, however some of the stations experience shelter temperature fluctuations. Boron, Flash II Mtn. and Quartzite Mtn. appear to have fluctuations outside of the normally expected 20 - 30 degrees centigrade range. The Catalina ozone analyzer was placed in the interior of the air traffic control tower building so temperature variances were minimal. Also, the present radio transmission signals at Quartzite Mtn. seem to have an influence on the temperature probe causing the response to be noisy at the one-second scan rate.

5.0 Field and File Formats

Data from the reporting period (September) for each of the eight monitoring sites are contained in uniquely identified ASCII files. The file name template is SSMMMYY.HUR; where 'SS' is a two-letter site ID assigned each monitoring station, 'MMM' is the common three-letter abbreviation for month, and 'YY' is the last two digits of the year in which the data were collected. Each file has the extension '.HUR' indicating that the data within these files are the hourly averaged data.

Each file contains the following nine header records.

Header record 1 - Site Name
Header record 2 - Site Latitude
Header record 3 - Site Longitude
Header record 4 - Site Elevation
Header record 5 - Collection Year
Header record 6 - blank
Header record 7 - '----Channels----'
Header record 8 - Column headers
Header record 9 - blank

One data frame per hour follows the header records. The format of the data frames is described in Table 4.

Table 4. Record Format for Hourly Data

column #	parameter
1	julian day
2	time (PST)
5	ozone (ppb)
6	ambient temperature (°C)
7	wind speed (mps)
8	wind direction
9	sigma theta
10	peak wind gust (mps)
11	data system voltage
12	shelter temperature (°C)

Data that has been invalidated or is missing has been replaced with one of the codes listed in Table 5. These codes indicate the reason the data were invalidated or the causes of missing data.

Table 5. Data Validation Codes

Indicator Value	Code in Table	Code in file
BEGIN MONITORING	BM	-989
CALIBRATION	CA	-990
END MONITORING	EM	-991
INSTRUMENT MALFUNCTION	IM	-992
INTERFERENCE (ACTS OF NATURE)	IN	-993
MAINTENANCE/REPAIR	MT	-994
OPERATOR ERROR	OE	-995
PERFORMANCE AUDIT	PA	-996
SITE FAILURE	SF	-997
STATION CHECK	SC	-998
NO MONITORING	blank	-999

6.0 Hourly-Averaged Data

One table for each data month for each parameter is contained in this section. In these tables, the data by hour is arranged in columns, and the data by day are arranged in rows. Tables showing hourly ozone concentrations, ambient temperature, scaler wind speed, peak wind gust, wind direction, sigma-theta (computed), and shelter temperature are included. The tables are ordered first by site, and next by parameter.

The reader is referred to Section 5 for an explanation of the data validation codes.

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Baldy Mesa
ELEVATION : 4250 feet
PARAMETER : Ozone (parts per billion)

LATITUDE : 34 degrees 23 minutes 20 seconds
LONGITUDE : 117 degrees 26 minutes 33 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	96	87	76	68	49	46	39	48	51	58	59	62	63	77	92	52	38	34	46	55	58	62	68	84	96
2	88	87	86	82	82	74	73	64	64	61	61	62	66	69	97	74	58	61	64	75	72	65	68	70	97
3	67	69	69	70	71	67	68	70	63	58	57	57	69	73	67	90	88	75	92	79	57	70	79	79	92
4	71	63	58	60	62	56	53	52	53	52	47	51	64	73	73	63	58	56	45	45	49	47	50	48	73
5	50	51	50	51	50	49	25	51	54	52	51	56	66	71	78	95	94	90	57	45	53	55	41	46	95
6	39	35	36	39	36	34	32	28	37	40	47	63	71	90	109	116	78	64	39	38	42	45	42	38	116
7	24	29	40	43	40	31	34	35	39	55	64	75	82	94	102	106	102	89	76	54	44	28	29	37	106
8	39	42	41	42	38	[SC]	38	38	45	50	56	59	73	78	92	84	78	68	50	40	36	39	40	38	
9	35	27	24	25	28	30	29	29	34	40	49	61	68	74	54	55	46	46	41	39	44	41	38	38	74
10	35	33	38	33	35	35	34	32	38	39	49	59	65	72	86	84	68	60	62	60	53	53	53	48	86
11	47	47	48	50	53	54	52	37	41	47	52	59	51	53	54	49	96	96	120	113	100	74	54	49	120
12	43	47	43	46	47	44	41	43	44	40	37	35	37	40	46	71	84	109	106	43	43	37	40	37	109
13	39	38	41	36	16	24	23	50	56	56	57	57	57	62	63	64	62	62	101	115	99	93	82	70	115
14	72	62	57	45	34	32	49	42	48	53	52	53	57	61	[CA]	68	71	75	56	65	65	64	69	66	
15	58	58	56	57	59	57	50	57	57	59	58	58	66	75	75	70	74	83	106	87	81	68	78	91	106
16	89	85	83	81	78	78	78	77	74	80	93	96	110	131	141	136	128	123	121	105	97	89	83	81	141
17	65	52	41	38	38	37	37	39	38	42	50	60	77	90	90	70	61	74	81	96	93	60	66	81	96
18	86	66	47	50	49	49	48	50	48	49	51	54	57	59	60	58	122	126	123	123	118	106	70	62	126
19	64	51	30	34	47	59	53	54	56	53	53	57	60	69	80	76	72	106	126	105	98	92	97	90	126
20	79	73	69	70	72	69	66	64	66	68	82	103	122	126	136	127	126	124	104	101	83	74	75	97	136
21	113	102	91	87	83	80	63	66	72	[SC]	67	75	85	104	106	103	112	112	103	101	98	96	93	91	
22	88	85	80	82	82	84	88	91	82	82	81	92	101	112	109	100	110	120	107	96	92	91	89	70	120
23	66	69	88	88	57	50	39	37	35	27	32	78	117	157	165	159	160	140	125	111	101	97	98	102	165
24	99	92	83	83	73	65	78	71	50	52	69	61	57	76	120	138	127	126	123	108	96	85	80	79	138
25	82	81	75	68	66	60	55	56	53	49	50	56	54	73	69	62	55	53	46	41	27	21	16	20	82
26	15	14	10	9	8	5	8	18	25	30	32	37	42	57	63	65	63	56	50	41	28	20	25	36	65
27	37	36	36	37	38	35	33	32	36	43	42	41	48	51	56	62	67	66	61	49	47	42	36	30	67
28	23	20	21	9	11	9	10	15	24	[PA]	[PA]	38	45	46	55	55	43	30	25	25	21	17	16	18	
29	21	28	33	29	27	26	35	43	47	49	50	53	54	56	56	57	57	53	51	48	52	53	53	52	57
30	50	49	48	49	49	44	42	41	41	41	43	46	46	48	49	48	48	48	38	25	44	47	51	52	52
AVG.	59	56	53	52	49	48	46	48	49	51	55	60	68	77	84	82	82	81	78	71	66	61	59	60	

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Boron

ELEVATION : 2460 feet

PARAMETER : Ozone (parts per billion)

LATITUDE : 35 degrees 01 minutes 00 seconds

LONGITUDE : 117 degrees 39 minutes 00 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	23	7	5	11	13	19	9	27	53	57	53	50	48	49	52	64	60	59	54	53	45	47	34	35	64
2	22	14	5	1	2	2	5	26	49	67	73	71	68	67	67	63	58	60	50	45	24	28	23	5	73
3	3	1	2	9	13	6	12	32	45	52	58	65	63	59	62	64	62	49	46	47	49	45	47	47	65
4	51	52	47	40	49	30	21	43	50	53	50	50	53	56	64	61	59	62	51	43	49	50	47	52	64
5	49	35	37	19	12	5	16	48	53	57	56	52	53	54	65	86	99	65	47	40	47	23	29	28	99
6	8	2	1	2	12	10	22	49	54	59	55	51	48	51	58	65	90	105	96	78	64	58	64	62	105
7	63	66	53	33	39	23	17	41	57	63	65	59	55	56	61	70	91	76	56	48	38	37	38	43	91
8	42	46	46	49	53	56	47	49	46	52	48	43	47	49	64	81	72	61	48	41	38	35	35	35	81
9	24	24	19	23	21	24	30	32	37	40	47	49	52	57	64	65	[SC]	68	62	51	45	49	50	43	
10	46	44	45	41	27	6	18	36	46	49	49	52	54	56	59	65	65	62	58	62	71	66	64	59	71
11	55	44	27	14	2	3	18	47	57	59	58	57	54	54	58	59	58	58	44	30	29	44	44	42	59
12	41	39	33	18	2	2	5	46	59	55	47	43	42	41	44	46	46	38	28	72	76	68	67	62	76
13	63	25	28	55	54	7	21	46	72	71	69	61	53	50	50	51	53	44	28	7	9	38	19	12	72
14	19	12	15	14	2	2	18	41	59	65	69	65	54	55	58	58	56	47	69	74	53	3	1	11	74
15	25	53	43	28	1	2	7	34	51	57	65	65	67	71	70	66	63	91	67	58	58	53	54	49	91
16	42	30	29	27	19	3	7	36	48	52	47	42	44	49	51	57	57	66	81	90	72	68	67	69	90
17	69	69	61	47	43	44	45	50	51	50	47	44	45	43	47	[CA]	49	56	58	57	56	58	59	58	
18	60	47	18	13	6	4	9	41	51	57	58	59	52	49	49	51	51	42	20	6	6	16	72	64	72
19	52	52	31	3	3	3	6	25	48	49	52	57	56	52	54	54	56	52	72	68	67	64	61	64	72
20	61	57	60	61	51	25	20	45	64	71	75	72	71	74	78	77	82	89	85	71	71	71	71	71	89
21	73	74	78	78	71	61	28	58	69	63	49	52	56	62	66	71	72	53	27	[SC]	81	74	41	3	
22	3	3	12	18	11	12	12	41	69	76	72	77	79	81	76	86	84	67	77	100	94	83	75	64	100
23	56	58	61	62	64	59	63	62	61	56	46	39	38	37	37	35	38	43	44	42	43	51	58	62	64
24	59	57	59	58	59	54	57	54	54	50	45	46	46	44	43	46	40	39	45	37	43	44	48	40	59
25	40	36	39	46	50	46	37	33	39	41	41	42	43	48	49	50	42	37	37	48	67	57	53	45	67
26	47	42	38	39	39	38	32	42	45	49	50	51	58	62	66	71	71	67	61	56	56	55	55	48	71
27	49	53	51	51	50	49	47	50	57	59	62	56	53	51	51	55	56	79	87	76	68	65	62	64	87
28	58	58	56	58	50	38	30	33	29	38	40	43	50	58	60	59	56	52	48	45	43	42	41	40	60
29	42	42	39	37	35	36	39	39	[PA]	40	46	49	52	52	52	54	56	52	44	32	49	42	17	4	
30	5	10	11	6	16	10	6	17	30	33	34	37	37	39	40	42	43	40	23	57	53	41	24	5	57
AVG.	42	38	35	32	29	23	23	41	52	55	54	53	53	54	57	61	62	59	54	53	52	49	47	43	

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Catalina Airport

LATITUDE : 33 degrees 24 minutes 00 seconds

MONTH : September

ELEVATION : 1602 feet

LONGITUDE : 118 degrees 24 minutes 30 seconds

YEAR : 1995

PARAMETER : Ozone (parts per billion)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	67	66	64	61	59	52	42	42	36	42	37	32	32	36	37	35	35	41	35	42	37	39	42	43	67
2	42	44	45	46	46	47	48	48	48	50	52	49	49	58	57	48	48	47	49	51	47	51	59	55	59
3	51	48	49	47	45	45	46	52	54	52	48	44	45	46	49	48	46	45	46	46	44	44	46	47	54
4	49	51	49	49	49	49	48	44	43	38	40	43	49	45	48	52	54	59	66	66	72	64	61	56	72
5	52	51	53	53	54	54	52	52	55	59	62	59	58	54	53	54	49	45	57	53	52	53	53	51	62
6	53	57	55	54	54	53	50	49	47	46	48	49	52	[SC]	[SC]	38	51	59	62	60	59	59	58	58	
7	59	59	59	55	55	56	54	51	45	37	34	43	48	46	52	55	67	68	69	73	72	71	71	71	73
8	63	67	67	69	71	65	62	54	43	47	38	35	31	29	29	30	30	31	41	43	43	44	44	42	71
9	35	33	33	33	33	33	33	33	33	35	36	37	37	36	37	39	41	38	38	39	38	37	37	38	41
10	39	39	39	39	39	40	41	38	37	38	39	42	42	41	43	44	44	48	49	45	46	42	45	44	49
11	43	44	44	41	41	42	41	39	38	40	43	51	[SC]	48	46	45	47	52	52	51	55	56	61	70	
12	67	52	52	53	52	53	53	53	48	49	57	58	67	63	59	68	72	70	68	73	72	67	63	60	73
13	69	73	63	57	55	52	48	57	80	95	102	102	87	81	84	74	62	62	76	76	69	69	72	71	102
14	68	65	67	65	64	65	64	60	55	43	47	57	50	44	47	55	58	66	73	84	107	102	118	122	122
15	119	117	128	116	119	116	116	107	89	82	63	54	53	66	101	140	114	90	82	88	84	71	91	64	140
16	46	61	68	60	62	58	58	57	61	60	60	58	57	54	52	50	49	47	46	46	47	44	50	61	68
17	64	69	73	72	71	72	70	67	63	67	71	71	72	72	73	63	61	62	61	63	69	63	60	60	73
18	63	54	45	44	42	41	44	48	47	46	48	47	46	44	43	43	42	42	58	66	62	75	69	59	75
19	53	55	52	47	48	48	45	46	46	46	48	48	52	56	62	75	63	55	62	47	51	64	61	45	75
20	40	40	42	41	39	40	38	34	35	39	44	[CA]	36	37	37	38	36	37	37	44	52	52	51	51	
21	50	44	43	45	43	42	43	43	43	38	44	44	48	49	49	50	51	48	47	46	43	63	51	39	63
22	49	52	52	55	55	54	56	53	52	54	56	56	57	63	69	69	80	135	86	57	54	68	84	75	135
23	58	45	47	46	46	50	48	39	40	40	40	40	39	43	51	48	45	51	59	67	65	65	69	62	69
24	64	62	62	67	68	62	62	51	48	46	48	48	48	47	47	45	49	52	57	59	60	56	52	42	68
25	35	38	29	32	39	47	41	39	39	33	32	[SC]	[SC]	26	25	25	24	26	24	24	41	47	39	35	
26	32	34	35	34	33	33	34	35	35	36	39	38	37	37	36	38	38	38	38	38	38	40	38	38	40
27	41	41	41	41	42	43	43	43	43	44	45	45	45	45	45	46	45	44	44	44	43	44	45	46	46
28	47	47	48	45	45	47	46	43	41	38	37	35	38	38	40	38	38	37	37	37	38	38	38	37	48
29	35	38	41	41	39	45	45	41	41	41	43	44	45	43	44	43	43	47	51	57	58	60	62	55	62
30	56	48	40	37	38	41	41	46	55	68	68	85	86	78	65	67	68	72	72	81	84	70	68	66	86
AVG.	54	53	53	51	52	52	50	49	48	48	49	51	50	49	51	52	52	54	55	55	57	57	59	55	

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Flash II Mountain

LATITUDE : 34 degrees 58 minutes 15 seconds

MONTH : September

ELEVATION : 3325 feet

LONGITUDE : 117 degrees 02 minutes 22 seconds

YEAR : 1995

PARAMETER : Ozone (parts per billion)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	37	35	34	34	34	34	33	35	39	43	43	45	51	63	65	82	69	60	54	58	51	45	41	43	82
2	46	46	44	43	44	42	41	43	44	50	55	60	60	55	50	49	62	56	60	61	57	56	46	40	62
3	29	22	23	21	23	24	22	26	29	34	40	46	48	47	52	52	54	68	69	45	37	38	34	35	69
4	35	36	37	37	37	35	36	36	38	40	42	43	48	43	49	63	64	59	56	59	50	38	38	39	64
5	38	39	37	41	40	41	39	38	47	49	49	48	49	53	56	56	51	63	82	66	55	50	48	44	82
6	42	41	39	38	39	39	38	36	41	48	45	44	49	43	41	42	53	66	79	67	69	55	49	47	79
7	41	49	46	41	45	47	42	46	47	48	51	45	41	48	38	46	62	72	69	54	50	48	[SC]	35	
8	26	26	29	28	33	30	23	27	30	33	43	38	35	34	43	56	59	52	46	38	30	26	23	23	59
9	29	29	30	25	23	25	22	21	28	30	33	34	35	38	47	63	75	72	67	51	39	45	38	39	75
10	42	41	41	41	41	37	33	35	39	40	38	38	38	40	46	47	46	53	61	55	55	49	51	52	61
11	53	54	50	48	47	49	50	55	57	53	50	51	43	38	36	40	46	49	50	50	49	37	30	33	57
12	43	43	39	38	37	38	40	43	41	40	40	34	32	33	35	34	35	37	40	39	51	53	44	48	53
13	57	54	51	51	51	53	52	51	55	57	57	53	43	35	36	40	41	44	46	47	47	46	44	38	57
14	37	56	47	53	51	52	49	51	52	49	47	46	43	43	40	41	44	44	42	40	36	46	53	61	61
15	61	59	56	53	51	49	49	62	[CA]	[CA]	81	78	72	73	76	81	83	83	93	103	78	75	73	71	
16	53	61	51	59	58	49	58	59	53	67	44	34	34	31	33	40	42	41	46	63	50	67	59	70	70
17	67	61	58	57	54	52	42	42	48	62	57	43	40	30	30	32	41	44	44	45	44	49	45	39	67
18	45	46	47	47	45	43	39	38	51	54	44	53	35	39	38	37	39	40	41	38	40	42	12	28	54
19	37	54	62	60	58	54	52	50	55	70	64	53	43	43	45	42	32	45	45	43	71	67	56	51	71
20	51	49	49	47	46	42	33	43	44	51	55	53	51	48	46	51	55	58	49	62	64	64	71	57	71
21	53	54	56	41	58	59	68	61	56	52	46	47	46	39	39	44	41	39	42	34	30	30	63	77	77
22	75	73	60	61	52	62	63	73	[SC]	71	73	75	76	82	80	79	79	101	95	85	80	72	77	72	
23	69	65	61	58	59	59	62	63	64	67	62	52	43	38	38	40	42	33	33	41	50	54	49	53	69
24	56	58	59	57	55	53	54	54	57	54	53	51	61	62	60	47	43	41	35	30	37	46	40	35	62
25	28	25	18	23	22	17	25	27	31	33	38	46	46	49	53	60	69	76	73	69	69	58	49	40	76
26	31	30	29	25	23	20	34	44	51	59	63	69	75	81	67	80	74	64	53	53	46	41	35	32	81
27	36	37	36	39	36	37	42	43	49	56	56	49	46	46	56	61	63	63	71	71	65	52	49	47	71
28	41	35	38	44	47	43	34	37	40	43	48	51	52	58	66	60	55	50	46	45	42	38	32	38	66
29	38	38	32	34	30	31	39	32	31	38	41	43	44	45	43	51	51	44	40	25	38	36	38	44	51
30	39	36	40	34	33	32	31	30	32	33	33	38	36	33	38	40	39	36	34	35	37	37	37	24	40
AVG.	45	45	43	43	42	42	41	43	45	49	50	49	47	47	48	52	54	55	55	52	50	49	46	45	

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Ludlow
ELEVATION : 1782 feet
PARAMETER : Ozone (parts per billion)

LATITUDE : 34 degrees 42 minutes 36 seconds
LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	9	10	11	11	10	12	19	21	30	44	51	61	65	63	64	62	60	61	59	49	54	39	35	44	65
2	27	11	2	9	18	16	22	25	19	31	50	55	57	56	55	54	49	45	38	44	52	45	22	15	57
3	10	18	10	15	12	14	23	32	42	61	67	70	69	68	66	66	65	57	54	58	72	61	45	29	72
4	28	27	14	21	33	23	25	33	40	51	56	59	63	62	62	62	61	60	59	38	54	48	50	32	63
5	25	28	26	32	32	28	28	31	51	63	63	57	48	43	40	40	41	37	41	31	24	14	9	11	63
6	26	23	20	19	15	15	20	31	42	53	68	70	71	72	68	60	55	55	53	60	47	49	33	25	72
7	39	44	42	47	38	37	38	39	42	45	50	56	59	61	61	62	64	[SC]	60	43	43	36	30	28	
8	19	29	17	13	4	6	13	22	31	35	40	45	49	52	50	53	61	73	56	45	12	18	10	14	73
9	20	30	26	3	-1	2	15	24	27	32	37	42	48	53	53	51	49	49	46	64	48	41	24	31	64
10	17	13	17	12	14	10	24	32	34	42	48	49	45	48	48	45	43	34	21	18	28	27	35	27	49
11	33	33	23	18	32	31	34	33	40	48	53	59	61	59	54	52	51	36	6	9	16	24	27	23	61
12	30	29	31	10	18	10	19	31	34	39	44	42	38	36	36	34	34	30	8	17	26	27	16	29	44
13	36	27	27	28	26	27	32	34	47	55	57	52	56	53	54	52	53	53	39	39	33	31	21	28	57
14	29	27	26	27	22	36	38	26	41	44	47	50	51	52	51	54	55	52	51	47	46	36	26	3	55
15	28	33	26	27	44	18	7	28	53	47	49	52	53	53	52	52	[CA]	[CA]	43	46	53	56	23	37	
16	50	35	47	48	46	38	[IM]	[IM]	35	45	51	54	58	57	56	[SF]	[SF]	[SF]	[SF]	24	21	21	14	28	
17	24	25	19	44	43	21	8	23	38	51	55	60	58	62	54	47	35	20	8	11	26	27	41	39	62
18	44	26	35	37	31	30	29	43	47	50	[SF]	[SF]	51	53	54	54	50	37	19	27	30	33	[SF]	[SF]	
19	20	20	29	12	22	27	29	42	51	57	56	62	57	52	56	50	52	24	43	42	46	42	26	52	62
20	45	51	46	46	45	46	46	36	41	55	61	63	63	64	64	63	64	61	55	49	44	48	33	27	64
21	25	34	9	11	27	11	45	52	58	51	52	54	48	52	51	47	44	38	22	19	35	21	22	23	58
22	15	29	19	17	23	22	20	17	22	33	41	47	[SC]	58	64	64	63	60	54	61	48	23	34	35	
23	36	32	24	12	28	19	34	43	49	53	55	51	49	46	[SF]	[SF]	[SF]	25	25	20	18	24	27	18	
24	20	15	3	13	22	21	29	34	42	43	40	45	48	51	52	52	47	21	18	48	41	44	29	15	52
25	15	7	3	13	17	27	25	33	43	45	50	55	54	49	47	49	46	51	58	68	46	43	33	19	68
26	21	30	29	15	19	14	23	29	38	49	55	57	58	57	62	62	54	50	40	44	42	35	33	17	62
27	10	10	11	8	7	12	7	26	43	53	61	64	65	63	61	57	51	44	33	43	49	39	34	26	65
28	35	23	20	28	20	28	30	39	46	52	56	59	62	65	63	70	65	57	51	41	40	37	36	35	70
29	31	30	28	32	31	34	35	37	39	44	47	49	49	48	46	43	40	33	14	13	24	28	22	32	49
30	29	25	21	27	10	25	14	11	27	31	35	36	37	38	39	[PA]	31	25	9	18	21	19	18	18	
AVG.	27	26	22	22	24	22	25	31	40	47	52	54	55	55	55	54	51	44	37	38	38	34	28	26	

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Palmdale
ELEVATION : 2760 feet
PARAMETER : Ozone (parts per billion)

LATITUDE : 34 degrees 33 minutes 26 seconds
LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	42	43	42	34	20	8	17	26	37	57	58	58	69	94	[SC]	111	116	91	75	66	48	38	38	40	
2	29	39	28	28	17	10	18	49	59	75	81	81	86	92	127	129	114	104	102	86	65	34	36	33	129
3	32	30	34	28	27	16	25	36	56	81	79	76	73	93	85	90	56	53	48	50	46	42	43	36	93
4	41	40	40	41	42	36	34	47	60	58	62	70	82	103	120	102	81	78	78	68	66	62	55	41	120
5	34	34	45	27	10	12	16	45	60	65	73	80	87	93	91	93	86	94	85	79	67	61	53	53	94
6	46	44	43	39	29	34	41	50	53	54	58	69	78	81	95	97	94	83	77	68	60	62	59	51	97
7	63	61	49	41	25	34	37	59	65	67	63	63	65	87	99	119	102	87	72	57	53	54	54	55	119
8	49	49	47	43	40	25	35	50	51	50	54	59	59	69	71	[SC]	62	58	54	49	46	43	42	41	
9	41	41	40	39	36	28	40	46	47	48	52	61	71	78	85	92	89	79	66	60	57	54	46	46	92
10	44	42	41	42	43	43	49	48	57	58	57	66	84	85	87	92	88	81	70	74	67	60	52	52	92
11	52	49	39	22	7	13	15	22	38	52	59	67	72	67	70	88	120	115	103	90	69	52	34	22	120
12	27	24	18	11	6	7	11	33	49	47	47	50	52	45	42	44	43	39	31	27	20	19	20	21	52
13	18	13	18	8	6	7	9	41	68	80	84	87	74	68	63	60	54	46	79	92	72	43	48	43	92
14	43	46	38	20	9	7	11	29	52	74	86	90	78	76	74	78	88	78	[CA]	[CA]	[CA]	57	67	55	
15	37	40	37	14	6	7	10	27	44	54	62	70	75	91	98	109	133	89	78	78	63	57	55	45	133
16	42	50	47	46	43	39	37	35	37	44	46	58	70	74	65	65	80	118	110	74	61	60	49	54	118
17	53	57	66	64	65	62	60	61	67	60	61	62	71	66	78	103	119	114	95	94	87	72	44	41	119
18	36	36	33	16	19	19	18	30	51	60	63	61	60	57	56	54	52	89	128	122	110	87	62	57	128
19	49	41	40	30	9	7	9	24	47	59	67	67	65	67	75	95	100	146	94	66	77	64	66	69	146
20	66	66	64	53	36	31	51	58	64	67	73	82	92	100	113	126	125	102	86	77	76	73	76	80	126
21	78	81	77	44	14	7	10	58	75	82	72	69	71	74	[SC]	86	141	135	123	111	96	79	82	78	
22	67	68	64	45	32	33	30	64	81	89	85	86	90	104	116	124	122	115	111	88	84	73	68	63	124
23	70	69	65	63	59	49	39	38	43	39	37	40	63	83	120	126	115	92	92	92	77	49	41	42	126
24	49	57	57	60	48	38	40	42	47	42	44	54	43	72	102	106	93	73	67	53	47	39	46	47	106
25	48	42	47	36	23	30	31	45	46	49	52	61	80	80	82	93	94	89	60	52	48	45	41	39	94
26	36	38	24	21	13	14	24	30	42	46	52	60	68	72	72	69	62	56	51	48	53	47	42	41	72
27	40	44	40	41	34	40	32	44	52	56	55	60	62	67	81	92	94	73	69	66	63	58	62	68	94
28	65	69	62	52	42	35	40	41	46	50	51	60	66	63	61	57	54	50	49	44	49	51	49	46	69
29	45	45	42	37	37	29	40	43	50	54	57	61	63	[PA]	61	59	51	44	44	39	39	29	36	45	
30	33	30	37	25	20	15	17	37	45	51	53	55	54	55	57	55	48	21	19	36	27	23	20	24	57
AVG.	46	46	44	36	27	25	28	42	53	59	61	66	71	78	84	90	89	83	76	69	62	53	49	47	

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Quartzite Mountain
ELEVATION : 4482 feet
PARAMETER : Ozone (parts per billion)

LATITUDE : 34 degrees 36 minutes 38 seconds
LONGITUDE : 117 degrees 17 minutes 20 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	41	49	44	39	51	56	59	54	[SC]	52	52	54	70	76	82	81	59	69	66	62	63	63	59	65	
2	79	78	74	73	71	67	63	62	72	59	52	56	57	62	74	89	69	72	82	68	66	74	82	75	89
3	73	74	74	75	77	78	80	78	81	75	67	68	70	70	88	94	101	114	99	74	46	44	74	53	114
4	48	30	51	48	52	51	51	53	59	59	54	58	61	73	76	76	81	82	85	60	66	69	64	50	85
5	66	60	56	63	63	58	56	54	49	50	62	67	70	78	85	84	100	116	71	60	63	62	56	50	116
6	45	47	48	47	45	45	45	45	49	46	48	46	48	75	92	106	102	77	69	56	60	57	59	52	106
7	59	49	60	74	68	56	57	51	53	61	58	65	66	76	94	110	106	89	78	67	59	57	59	44	110
8	58	48	48	39	61	50	40	42	47	51	[SC]	62	67	77	85	84	73	[IM]	59	55	41	45	44	52	
9	45	43	40	[IM]	[IM]	35	38	44	34	54	54	69	74	72	79	[IM]	77	[IM]	[IM]	51	43	40	38	39	
10	44	47	41	38	42	39	42	47	43	44	48	[IM]	[IM]	69	82	85	82	80	78	63	[IM]	[IM]	[IM]	[IM]	
11	61	[IM]	[IM]	57	63	62	57	55	[IM]	53	58	[IM]	67	71	72	66	57	65	[IM]	68	91	78	64	[IM]	
12	57	54	52	52	51	54	57	54	50	45	52	53	47	48	49	[IM]	58	61	62	63	64	58	69	[IM]	
13	[IM]	[IM]	[IM]	65	65	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[IM]	[CA]	[CA]	61	59	58	58	59	60	75	66	72	77	
14	79	78	69	64	66	65	67	64	64	67	64	57	56	58	64	68	67	59	64	76	78	71	86	73	86
15	71	68	67	67	67	67	68	67	69	68	68	66	69	69	71	75	89	84	104	90	74	75	75	69	104
16	71	80	82	76	72	69	68	69	64	58	49	48	52	56	64	71	61	73	85	80	66	16	31	32	85
17	52	56	55	49	39	37	37	39	40	44	46	53	63	71	71	66	72	67	59	69	38	63	39	59	72
18	44	61	58	59	58	57	55	56	55	48	51	55	60	60	61	59	56	56	54	50	53	63	70	77	77
19	79	73	68	65	61	60	59	58	58	63	60	66	65	64	64	66	67	66	77	89	78	79	84	87	89
20	76	69	63	61	62	61	60	60	58	54	57	60	61	63	81	111	109	84	109	103	81	75	78	72	111
21	74	75	75	75	76	66	68	78	74	73	78	83	84	88	89	86	86	86	81	94	110	105	99	97	110
22	92	84	82	85	83	83	85	78	76	62	61	77	88	95	100	114	102	90	96	87	72	72	73	59	114
23	42	57	56	53	54	58	53	50	54	46	43	42	37	34	38	42	48	57	54	56	51	50	33	28	58
24	35	42	48	41	40	28	30	28	37	45	45	[SC]	42	43	47	76	116	100	75	102	99	84	79	73	
25	64	59	51	45	49	45	50	47	47	53	64	57	68	74	77	74	70	59	70	63	48	40	29	27	77
26	30	29	24	21	23	25	27	31	38	41	50	49	53	54	64	68	65	61	56	54	49	48	48	50	68
27	53	52	51	51	50	48	46	48	46	45	50	54	56	59	63	70	74	67	71	70	65	60	60	54	74
28	57	54	56	56	54	54	50	43	40	47	52	58	63	67	67	67	64	52	46	43	44	46	43	45	67
29	40	41	46	39	37	40	42	45	48	52	56	57	59	59	59	60	61	60	60	52	56	62	63	62	63
30	60	59	54	49	46	45	39	[PA]	[PA]	35	37	46	47	46	49	50	50	50	51	52	46	43	48	58	
AVG.	59	58	57	56	57	54	54	54	54	54	55	59	61	66	71	77	76	73	72	68	64	61	61	58	

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Shadow Mountain

LATITUDE : 34 degrees 44 minutes 15 seconds

MONTH : September

ELEVATION : 4120 feet

LONGITUDE : 117 degrees 33 minutes 54 seconds

YEAR : 1995

PARAMETER : Ozone (parts per billion)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	39	41	41	43	43	49	50	49	51	50	50	50	57	69	74	80	66	55	60	57	58	56	64	67	80
2	47	50	52	56	54	53	53	53	55	61	64	68	68	70	72	74	104	130	138	95	69	52	35	35	138
3	48	53	61	69	77	77	77	73	66	71	72	72	74	74	73	70	83	61	48	43	43	48	44	46	83
4	45	45	47	47	50	49	48	49	48	48	51	54	56	56	66	94	93	81	68	73	59	51	53	53	94
5	53	54	59	56	57	60	59	57	57	60	62	64	65	66	62	68	87	87	89	73	67	58	55	55	89
6	53	50	47	46	45	46	47	48	52	42	46	51	53	62	70	69	69	62	68	78	59	55	57	58	78
7	59	55	57	63	60	54	55	56	53	49	55	60	49	57	71	71	91	88	78	64	52	45	41	39	91
8	36	35	37	43	42	42	42	42	42	42	45	47	51	62	73	68	59	59	52	45	41	39	37	37	73
9	38	35	36	35	36	34	35	35	35	38	40	46	50	60	70	78	85	82	73	59	48	[SC]	44	45	
10	43	38	38	39	42	41	41	41	44	47	48	47	49	55	60	68	68	63	67	65	62	59	51	50	68
11	49	50	56	56	54	47	43	43	47	52	56	58	57	52	51	51	53	55	66	81	54	55	49	44	81
12	42	41	42	47	50	55	56	52	54	50	42	38	36	42	48	49	49	48	57	58	62	64	62	60	64
13	57	60	62	64	68	68	67	70	66	63	64	60	56	53	52	54	54	53	53	54	54	53	61	71	71
14	73	74	67	65	64	61	64	66	62	61	61	58	58	61	61	61	59	62	82	79	82	76	78	76	82
15	69	64	71	75	71	61	60	62	63	59	61	61	58	62	67	68	78	117	98	81	66	63	61	56	117
16	50	48	48	45	43	40	37	33	31	33	42	45	47	50	54	54	54	55	52	59	76	66	54	51	76
17	62	70	65	63	60	64	61	54	53	[CA]	[CA]	48	44	47	52	59	77	74	54	55	56	57	57	56	
18	56	54	54	52	54	56	57	56	54	47	45	45	49	51	50	52	52	51	50	49	51	72	74	69	74
19	64	60	55	55	57	56	54	52	56	58	57	53	51	50	51	52	52	52	94	116	70	62	60	58	116
20	57	57	58	58	57	55	55	57	58	59	65	63	63	64	78	82	95	92	82	76	75	71	67	69	95
21	71	76	79	79	79	78	78	76	70	67	65	68	74	79	83	83	80	69	76	101	83	73	78	76	101
22	75	74	73	73	66	67	71	69	69	71	73	74	72	70	69	82	96	101	94	[SC]	83	76	69	66	
23	65	59	60	59	60	58	58	59	54	42	39	36	32	28	30	30	32	35	39	42	52	58	55	58	65
24	61	62	61	56	52	50	48	47	45	44	41	40	40	39	39	49	74	71	70	57	46	43	41	38	74
25	35	31	33	45	47	44	40	36	40	43	45	47	53	62	72	78	93	107	95	70	58	48	47	43	107
26	32	26	32	33	33	34	35	35	38	46	55	60	62	72	74	73	68	59	48	42	41	38	33	35	74
27	34	38	40	42	43	44	44	48	50	50	46	49	53	52	59	61	68	79	76	63	56	53	52	51	79
28	50	53	55	53	48	39	36	35	40	47	48	54	59	[PA]	[PA]	59	57	53	51	47	43	42	43	43	
29	41	42	40	38	38	39	38	39	43	49	52	55	56	57	58	60	60	60	58	55	56	59	61	60	61
30	60	57	49	43	43	42	41	40	40	41	43	44	44	47	48	49	50	49	49	58	64	62	65	64	65
AVG.	52	52	52	53	53	52	52	51	51	51	53	54	55	58	62	65	70	70	69	65	59	57	55	54	

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Baldy Mesa

ELEVATION : 4250 feet

PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 23 minutes 20 seconds

LONGITUDE : 117 degrees 26 minutes 33 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	25.0	24.7	25.6	26.4	26.3	26.2	26.7	28.3	30.1	30.9	31.3	31.2	31.4	30.4	26.9	20.5	22.7	23.2	24.4	24.4	24.2	24.6	24.3	25.2	31.4	20.5
2	26.0	25.6	25.6	25.8	25.3	24.7	26.0	27.1	29.1	30.6	31.2	31.5	31.7	32.1	31.9	28.0	27.2	27.1	26.4	25.7	25.0	24.1	23.7	24.7	32.1	23.7
3	24.7	24.6	24.7	24.3	24.5	24.7	25.8	27.6	28.3	29.1	31.1	31.3	31.4	31.5	30.8	30.1	29.5	28.7	26.5	23.8	22.7	22.7	22.2	21.9	31.5	21.9
4	21.5	23.2	23.5	22.3	22.0	22.0	23.1	25.4	26.3	27.4	28.3	28.7	29.8	29.7	29.7	29.3	28.9	27.9	26.2	25.0	23.7	22.4	22.5	22.2	29.8	21.5
5	21.9	21.7	21.6	21.6	21.9	22.5	23.6	26.0	27.4	27.7	28.3	29.2	30.1	30.4	30.2	29.9	29.1	28.0	26.1	25.4	24.8	23.8	22.7	22.6	30.4	21.6
6	22.1	21.6	20.8	20.9	20.9	20.6	21.0	21.4	24.3	25.8	26.5	26.8	27.3	27.9	27.7	27.4	26.7	24.9	22.6	21.8	21.6	21.5	21.0	20.8	27.9	20.6
7	19.9	20.2	21.3	21.5	21.4	20.9	21.6	22.3	23.9	24.8	25.8	26.4	27.1	27.2	27.4	27.4	26.3	24.6	22.5	20.7	19.9	18.9	18.8	18.7	27.4	18.7
8	18.3	18.4	18.6	18.6	18.5	18.6	19.6	20.8	21.9	23.0	23.5	23.9	24.1	24.4	24.4	23.9	23.0	21.4	19.9	18.7	17.7	17.0	16.8	16.7	24.4	16.7
9	16.5	15.8	15.3	15.3	15.4	15.6	16.5	17.1	18.5	20.2	21.2	21.8	22.8	23.0	23.0	23.2	23.0	21.6	20.5	19.6	18.7	17.9	18.2	17.7	23.2	15.3
10	17.4	16.9	16.2	16.2	16.5	17.0	18.2	19.2	20.4	21.8	22.7	23.5	23.9	24.2	24.3	24.2	24.0	22.7	21.1	20.6	20.1	19.4	19.4	19.5	24.3	16.2
11	19.2	19.4	19.3	19.4	19.9	19.7	23.0	24.6	25.2	26.5	27.5	28.4	29.5	29.9	30.0	30.3	29.0	26.4	24.1	23.9	24.3	24.3	24.0	23.8	30.3	19.2
12	23.3	23.5	23.6	23.0	23.4	22.9	24.2	25.9	27.2	28.5	29.2	29.9	30.3	30.9	31.4	31.3	30.5	28.4	26.7	25.5	24.4	23.3	22.4	21.8	31.4	21.8
13	22.3	21.5	20.8	20.7	20.7	20.7	22.4	24.2	26.3	27.6	28.9	29.8	30.7	31.1	31.6	31.9	31.7	30.3	26.4	25.1	25.4	25.1	25.1	25.1	31.9	20.7
14	26.4	25.4	25.4	24.8	23.2	23.9	25.5	27.1	29.6	30.8	31.2	31.6	31.8	31.9	31.9	31.9	31.5	30.0	27.7	25.8	23.4	25.0	25.1	25.0	31.9	23.2
15	26.0	26.5	24.9	25.3	25.8	24.9	25.8	28.2	29.7	30.3	30.9	31.1	31.2	31.5	31.5	31.3	30.6	29.1	25.7	23.6	22.3	21.5	21.0	21.7	31.5	21.0
16	21.7	21.5	21.0	21.0	20.9	21.1	22.1	23.9	25.1	25.5	25.8	26.3	26.4	26.6	26.4	26.1	25.0	22.8	20.8	20.6	20.6	20.4	20.3	20.1	26.6	20.1
17	20.4	20.6	20.8	20.3	20.1	19.2	21.2	22.8	24.1	25.5	26.3	26.5	26.6	26.3	26.1	26.0	25.1	23.0	21.4	20.3	19.7	20.6	21.1	21.1	26.6	19.2
18	21.4	20.4	18.8	17.4	17.9	19.6	19.6	21.0	23.9	25.0	25.7	26.5	27.6	28.4	29.0	29.0	26.5	23.6	22.0	21.7	21.5	22.2	23.7	25.3	29.0	17.4
19	24.3	24.2	22.9	22.3	22.1	21.9	23.1	25.8	27.1	28.3	28.9	29.4	29.7	29.7	29.6	29.4	28.3	26.1	23.6	23.2	22.5	21.7	21.3	21.5	29.7	21.3
20	22.0	22.1	22.1	21.5	21.2	21.4	22.7	24.4	25.6	27.3	27.9	27.9	27.9	28.0	27.8	26.7	24.5	22.0	20.6	19.8	18.7	18.6	18.7	19.2	28.0	18.6
21	19.2	19.1	19.2	19.9	20.3	20.5	22.3	23.8	25.0	25.6	26.4	27.2	28.0	28.8	28.0	27.1	25.2	23.3	21.7	21.1	20.6	20.8	20.7	20.9	28.8	19.1
22	20.9	20.7	20.1	20.1	19.9	19.7	20.6	22.8	24.6	25.8	26.5	26.5	26.5	26.7	26.6	26.1	24.7	22.1	20.2	19.2	18.7	19.0	18.9	20.2	26.7	18.7
23	20.5	20.4	19.0	18.9	19.0	19.6	21.2	23.1	24.3	25.2	25.9	25.6	25.1	24.5	24.3	23.3	21.5	19.7	18.6	17.9	17.6	17.4	16.9	16.6	25.9	16.6
24	17.0	16.9	17.4	17.5	17.9	17.8	18.7	20.2	22.5	23.7	23.7	24.1	24.6	24.7	24.3	23.2	21.9	19.5	18.0	17.4	17.2	17.1	16.8	16.5	24.7	16.5
25	16.1	16.2	16.1	15.8	15.7	16.0	16.6	17.5	18.7	19.7	20.2	20.7	21.5	21.9	21.8	21.3	20.5	18.9	18.0	17.1	15.6	15.3	15.0	15.1	21.9	15.0
26	14.7	14.5	13.7	13.4	13.2	13.0	13.1	13.9	14.8	16.3	17.7	18.8	19.9	19.7	19.8	19.8	18.9	17.3	16.2	15.3	14.2	13.6	13.4	14.1	19.9	13.0
27	14.1	13.9	13.7	13.5	13.5	13.2	13.9	15.5	17.3	18.6	19.0	19.0	19.9	20.2	20.3	20.0	19.1	17.6	16.1	15.0	13.9	13.1	12.5	11.8	20.3	11.8
28	11.2	10.6	10.3	9.7	9.4	9.5	9.7	10.3	[PA]	11.4	12.3	12.3	12.8	12.5	12.7	12.4	11.5	11.0	10.9	10.9	10.7	10.5	10.5	10.2		
29	9.8	9.6	9.4	9.2	8.8	8.8	9.2	13.2	15.3	15.9	16.9	17.4	18.3	19.4	19.8	20.0	19.8	18.5	17.2	15.0	15.9	16.3	16.0	15.5	20.0	8.8
30	15.6	16.0	16.1	15.2	14.4	13.9	14.6	16.4	17.3	18.1	19.1	20.0	20.8	21.7	22.1	22.1	21.7	20.2	19.2	18.9	18.9	18.8	17.4	16.5	22.1	13.9

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Boron

LATITUDE : 35 degrees 01 minutes 00 seconds

MONTH : September

ELEVATION : 2460 feet

LONGITUDE : 117 degrees 39 minutes 00 seconds

YEAR : 1995

PARAMETER : Ambient Temperature (Degrees C)

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	25.4	23.7	22.9	23.0	21.6	21.6	23.0	27.5	31.2	33.8	35.3	36.4	37.2	37.8	38.5	36.9	34.3	33.9	32.4	32.0	30.5	29.5	27.9	27.0	38.5	21.6
2	26.0	24.7	23.3	22.6	22.5	22.5	24.8	28.7	31.3	32.2	34.2	35.8	36.9	37.7	37.4	34.6	31.8	31.7	29.6	28.5	29.1	28.9	27.4	25.1	37.7	22.5
3	23.0	22.7	21.8	21.5	20.6	20.0	21.9	27.3	30.8	33.2	34.9	35.8	36.6	36.7	37.3	36.4	34.5	34.8	32.8	30.1	28.6	27.3	26.4	25.2	37.3	20.0
4	24.7	24.4	23.3	22.2	22.2	20.7	21.7	25.9	29.2	31.2	32.9	34.4	35.6	36.5	36.6	36.5	35.9	34.4	30.8	27.0	24.9	23.3	22.1	21.3	36.6	20.7
5	20.7	18.9	17.3	14.4	13.2	12.1	16.3	21.9	24.2	27.5	30.2	32.7	34.7	35.9	36.5	36.8	36.2	34.6	32.3	30.0	28.3	25.9	25.2	23.3	36.8	12.1
6	21.3	20.4	19.5	19.1	20.5	20.7	23.1	26.8	28.6	30.5	33.0	34.5	35.4	35.6	35.7	35.5	34.7	33.0	30.5	28.3	26.5	25.0	25.0	25.2	35.7	19.1
7	24.7	24.0	23.8	21.4	20.9	20.0	20.3	24.9	27.5	30.0	31.6	33.0	34.3	34.9	35.1	34.9	33.8	31.8	29.3	27.4	25.9	24.9	24.4	23.5	35.1	20.0
8	22.6	21.5	20.8	20.8	20.6	20.6	21.3	23.5	26.4	28.7	30.8	32.1	32.7	32.7	32.0	31.5	30.4	28.3	26.0	24.4	23.2	22.3	21.9	21.7	32.7	20.6
9	18.1	17.3	16.9	17.1	16.2	16.1	18.6	21.0	24.2	27.1	29.1	30.4	31.8	32.4	32.2	31.1	29.7	27.7	25.3	23.2	21.9	21.4	20.1	18.7	32.4	16.1
10	18.0	17.8	17.8	16.5	13.0	11.2	13.9	20.5	23.6	25.4	27.7	29.5	30.9	32.1	32.7	32.5	31.6	29.7	26.9	24.7	22.9	21.7	21.7	21.7	32.7	11.2
11	20.0	18.2	15.5	12.9	11.4	10.9	15.0	20.3	23.0	26.3	28.8	30.7	32.3	33.7	34.3	34.6	34.6	33.6	30.6	29.2	26.9	26.4	25.4	24.8	34.6	10.9
12	23.9	23.2	22.1	20.0	16.9	16.1	19.1	24.6	27.4	29.9	32.2	34.0	35.1	35.9	36.2	36.2	35.9	34.3	30.4	27.9	26.5	25.1	24.2	23.6	36.2	16.1
13	23.0	19.5	18.4	20.2	19.7	15.6	18.7	23.0	26.0	28.5	31.2	34.1	35.7	36.7	37.2	37.2	36.8	35.4	31.1	27.0	23.8	24.6	22.0	19.7	37.2	15.6
14	18.9	17.8	16.6	15.2	14.5	13.9	17.0	22.1	26.2	30.9	34.0	35.6	37.0	37.6	37.7	37.8	37.4	35.7	33.0	31.2	28.3	24.8	22.3	22.8	37.8	13.9
15	22.6	23.2	20.8	18.1	16.9	15.9	18.8	24.4	28.9	31.6	34.5	36.1	36.9	37.1	37.4	37.7	36.9	35.1	32.7	30.2	29.3	28.2	27.3	27.0	37.7	15.9
16	25.5	23.2	22.0	21.2	19.8	18.1	20.9	25.8	28.4	30.4	32.8	34.6	35.0	34.9	34.4	34.0	33.1	31.4	28.7	26.3	24.8	23.7	23.6	22.8	35.0	18.1
17	22.1	21.5	19.9	19.2	18.7	18.5	19.4	22.1	24.8	27.2	29.2	30.8	31.8	32.8	33.4	32.8	31.0	28.3	25.6	24.0	22.5	21.9	21.2	20.5	33.4	18.5
18	19.9	18.2	15.0	13.5	13.1	11.7	14.2	20.4	23.0	25.6	28.8	31.2	33.2	33.9	34.5	34.4	34.2	32.5	27.9	24.9	23.1	21.7	23.3	21.5	34.5	11.7
19	20.3	19.3	16.8	15.2	14.4	13.7	16.0	22.2	25.7	28.5	31.8	33.5	34.6	35.1	35.5	35.4	35.3	33.7	30.6	28.7	27.9	26.6	26.2	25.8	35.5	13.7
20	25.1	23.3	24.2	24.5	23.9	19.9	19.0	25.8	28.4	30.5	32.3	33.5	34.8	35.5	36.0	35.8	34.3	32.2	29.7	27.8	26.6	26.3	26.0	25.2	36.0	19.0
21	25.1	24.5	23.7	22.9	21.4	20.4	19.0	23.3	26.0	29.3	31.5	32.7	33.2	33.7	34.1	34.2	33.9	32.3	28.9	27.4	25.7	24.5	22.6	20.0	34.2	19.0
22	18.7	17.1	16.3	16.1	14.9	14.1	16.6	23.2	26.0	28.6	30.3	32.0	32.9	33.4	33.9	33.7	32.4	30.5	27.9	26.1	25.4	24.5	23.3	22.7	33.9	14.1
23	22.1	21.6	21.0	20.8	20.8	20.7	21.1	22.8	25.4	28.8	30.8	31.5	32.0	32.0	31.4	30.6	29.6	28.1	26.7	25.5	24.5	22.8	21.9	21.2	32.0	20.7
24	21.1	20.6	20.2	20.0	19.5	19.5	20.3	21.9	24.7	27.2	28.9	30.4	31.6	32.1	32.3	31.4	30.0	27.7	25.6	24.0	22.9	22.4	22.1	22.0	32.3	19.5
25	21.3	20.5	19.9	19.6	19.4	19.5	20.4	21.9	23.1	25.3	26.6	27.2	28.6	29.2	28.7	28.1	26.6	25.4	23.3	22.0	20.8	19.6	18.9	18.9	29.2	18.9
26	18.6	18.0	17.1	16.4	16.5	16.1	16.8	19.1	20.8	22.8	24.8	26.1	27.5	28.4	28.3	27.5	26.0	23.9	21.9	20.3	19.5	18.4	18.1	17.7	28.4	16.1
27	17.5	17.2	16.7	16.6	16.6	16.5	17.2	19.2	20.9	22.5	24.4	26.8	28.2	29.0	29.1	28.5	27.0	24.2	21.7	20.0	18.9	18.3	17.8	17.7	29.1	16.5
28	17.3	16.5	16.0	15.6	15.1	14.5	14.8	16.2	18.5	20.1	21.5	22.4	22.9	22.9	22.9	21.8	20.0	18.1	16.8	16.1	15.8	16.0	16.0	16.1	22.9	14.5
29	16.2	15.7	14.1	13.6	12.8	12.8	[PA]	[PA]	17.2	19.4	21.5	23.0	24.1	24.9	25.7	25.7	25.4	24.0	21.3	19.3	17.7	15.2	13.6	12.3		
30	10.9	9.7	8.3	8.5	7.4	7.0	9.0	13.9	17.5	21.4	23.9	24.5	25.4	26.4	27.0	27.3	26.9	25.3	22.2	21.1	19.3	16.8	15.2	13.3	27.3	7.0

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Catalina Airport
ELEVATION : 1602 feet
PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 33 degrees 24 minutes 00 seconds
LONGITUDE : 118 degrees 24 minutes 30 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	25.2	25.5	26.2	25.9	26.6	27.5	28.2	28.6	29.2	29.6	30.4	31.5	31.7	31.2	29.9	29.9	29.5	27.2	27.1	26.8	28.2	28.1	27.9	28.1	31.7	25.2
2	28.8	28.4	28.4	29.0	29.6	29.4	29.7	31.4	32.1	32.4	33.1	33.1	31.6	30.3	29.8	30.5	29.0	27.9	28.0	27.9	29.4	27.9	24.2	26.7	33.1	24.2
3	28.7	29.1	29.0	28.9	28.6	27.8	28.0	26.4	28.4	28.5	29.3	30.3	28.9	28.2	27.9	26.0	28.5	28.7	28.0	27.7	27.7	27.6	27.8	27.9	30.3	26.0
4	27.2	27.6	27.6	26.7	28.1	26.4	23.7	25.5	27.4	25.9	26.0	27.5	26.7	27.6	28.0	28.9	27.6	27.1	24.6	24.7	24.2	24.2	23.4	25.3	28.9	23.4
5	27.3	26.4	26.7	26.6	26.9	25.8	28.9	30.1	26.9	27.2	28.1	30.7	30.6	31.0	31.5	31.3	29.8	29.8	28.0	26.6	26.3	25.9	26.0	26.7	31.5	25.8
6	25.7	25.0	24.8	25.4	25.0	26.1	27.4	28.3	29.6	31.0	28.3	27.8	27.8	28.5	28.0	28.2	27.0	25.2	24.3	24.4	25.1	24.6	24.7	24.4	31.0	24.3
7	24.7	24.3	24.2	23.1	24.0	23.8	23.3	26.1	25.2	22.2	25.4	27.6	27.9	26.5	26.2	26.7	24.6	23.6	22.2	21.2	21.9	22.1	22.0	22.5	27.9	21.2
8	23.3	23.1	22.6	22.0	22.8	22.8	22.8	23.7	22.2	23.2	21.1	21.6	22.8	22.4	23.2	20.6	20.5	20.4	21.0	20.1	21.9	22.4	22.3	19.2	23.7	19.2
9	13.0	13.1	13.2	13.1	13.0	13.0	13.1	14.1	15.7	18.1	18.4	18.6	18.6	18.1	17.9	18.0	16.9	15.0	13.6	13.6	13.6	13.5	13.5	13.4	18.6	13.0
10	13.3	13.2	13.1	12.8	12.9	12.8	13.0	13.6	15.0	17.0	17.6	18.1	18.5	18.6	18.5	19.2	18.9	16.0	14.5	18.5	18.4	20.9	20.3	20.7	20.9	12.8
11	20.6	21.0	21.6	22.2	22.4	22.6	23.0	24.0	24.4	23.1	24.8	25.0	24.8	25.4	25.2	24.1	22.9	22.4	22.9	24.8	25.4	25.6	23.8	23.1	25.6	20.6
12	22.7	24.0	24.2	24.7	24.5	24.2	25.3	27.0	28.4	29.9	30.2	30.0	29.4	30.0	28.5	28.5	27.6	25.5	27.3	25.5	25.5	25.0	25.2	24.6	30.2	22.7
13	26.0	28.5	29.2	28.2	26.9	25.6	24.7	25.2	26.3	27.4	28.1	28.6	29.6	30.1	29.1	28.3	28.0	27.9	26.2	25.3	24.7	25.1	25.4	25.5	30.1	24.7
14	27.3	25.6	25.3	26.6	25.2	24.7	24.8	25.7	27.9	28.0	28.3	31.8	31.5	30.0	29.5	29.2	27.9	27.9	26.6	25.6	25.8	26.5	25.9	26.1	31.8	24.7
15	25.7	26.8	27.3	27.0	26.4	25.8	26.0	26.7	26.6	28.2	29.5	28.1	28.7	27.2	28.1	27.9	27.6	26.9	25.9	24.5	23.2	20.1	20.5	17.4	29.5	17.4
16	15.8	15.4	15.5	14.7	14.5	14.4	14.6	16.0	18.2	20.0	20.6	20.9	20.9	21.0	21.1	20.3	18.3	17.7	16.3	16.3	15.5	15.5	15.5	15.6	21.1	14.4
17	15.5	15.4	15.4	15.1	14.9	14.6	14.5	14.9	17.6	18.9	20.0	20.2	20.9	19.3	19.5	20.6	21.5	21.1	21.0	20.8	19.3	18.3	19.4	17.9	21.5	14.5
18	19.1	16.0	13.3	13.0	13.4	13.5	13.8	15.0	17.6	19.2	19.7	20.2	21.0	21.3	22.0	21.4	20.9	21.8	19.2	19.3	19.7	19.5	19.6	19.1	22.0	13.0
19	18.1	17.4	16.3	17.8	15.3	14.7	14.9	15.4	17.8	20.7	21.9	22.2	21.7	22.9	22.5	23.3	22.4	20.6	22.4	22.6	21.9	21.0	20.6	16.5	23.3	14.7
20	14.7	14.3	14.0	13.8	13.6	13.4	13.5	15.3	21.0	21.7	21.0	22.0	22.7	20.6	20.0	18.7	22.3	19.8	17.6	22.7	22.7	22.8	21.9	21.4	22.8	13.4
21	20.0	15.7	13.6	13.7	13.7	13.4	13.5	13.9	14.6	18.3	19.2	19.2	19.7	20.4	18.9	18.8	17.5	17.6	14.6	14.1	14.2	15.9	16.2	14.0	20.4	13.4
22	14.5	14.4	14.3	14.3	14.5	14.5	14.4	15.1	17.1	19.6	20.3	20.1	20.9	20.8	19.0	17.8	17.2	20.9	21.7	21.4	21.5	21.3	21.4	19.7	21.7	14.3
23	20.0	21.8	19.5	19.5	17.6	17.4	19.4	19.8	20.5	21.3	21.4	19.9	18.5	19.8	24.0	20.5	19.1	19.2	20.6	21.5	21.1	20.5	21.5	21.5	24.0	17.4
24	20.5	19.7	19.7	18.8	18.4	17.8	18.0	18.8	19.7	22.0	21.4	21.3	22.8	21.8	22.2	19.2	20.4	20.4	19.5	18.4	21.8	19.3	18.9	20.3	22.8	17.8
25	20.3	18.7	20.4	19.2	18.3	18.5	19.8	19.8	21.3	19.2	19.0	20.2	20.8	22.0	22.2	22.4	22.2	18.9	18.6	18.1	16.2	17.0	15.3	14.8	22.4	14.8
26	14.2	14.6	14.2	14.0	13.6	13.2	13.4	14.4	15.1	16.5	18.3	18.6	17.7	19.8	19.3	17.5	15.9	14.5	14.0	14.0	14.3	14.2	14.0	13.9	19.8	13.2
27	13.8	13.8	13.9	13.8	13.7	13.8	14.2	15.0	15.9	17.3	17.8	17.8	17.5	17.3	17.0	16.3	15.3	14.8	14.4	14.5	14.5	14.5	14.5	14.6	17.8	13.7
28	14.8	14.8	14.7	14.5	14.2	14.1	13.9	13.9	14.3	15.0	15.1	15.6	16.3	16.0	15.1	14.7	14.3	14.1	13.4	13.2	13.3	13.8	14.0	13.8	16.3	13.2
29	13.6	13.4	13.3	13.2	13.1	13.6	14.4	14.8	15.9	15.9	16.1	16.5	17.6	17.9	18.3	17.4	16.7	16.4	16.2	17.6	17.7	17.7	18.5	18.2	18.5	13.1
30	17.5	18.1	18.8	19.1	19.1	18.5	19.2	20.1	20.5	23.8	24.7	24.2	24.9	25.9	26.7	26.0	25.4	24.1	23.5	22.1	22.3	22.6	23.8	24.0	26.7	17.5

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Flash II Mountain

ELEVATION : 3325 feet

PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 58 minutes 15 seconds

LONGITUDE : 117 degrees 02 minutes 22 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	27.5	27.2	26.4	25.9	25.3	25.0	24.8	26.2	28.1	30.2	33.2	35.2	35.9	36.3	35.7	34.0	30.7	30.0	29.8	30.0	29.5	28.4	27.5	27.3	36.3	24.8
2	27.3	27.2	26.6	26.3	26.7	25.8	26.5	27.4	30.2	32.4	33.3	34.6	36.0	36.2	29.7	30.3	32.3	29.4	29.7	30.0	29.6	28.5	27.8	27.2	36.2	25.8
3	27.2	26.8	26.2	26.5	26.2	25.3	25.9	26.3	28.7	29.4	30.4	33.9	34.9	34.7	34.6	34.9	34.5	33.4	31.9	30.8	29.1	27.8	26.6	25.8	34.9	25.3
4	25.0	24.4	24.1	24.3	24.7	24.8	25.0	26.2	28.0	29.9	31.6	33.1	34.2	35.0	35.9	35.6	34.8	33.3	31.2	29.3	27.1	24.9	23.3	22.0	35.9	22.0
5	21.1	20.6	20.2	19.8	19.9	19.9	21.4	23.6	24.6	27.7	31.0	33.8	34.2	34.3	35.0	35.6	35.4	34.2	31.3	29.3	28.2	27.6	26.8	26.1	35.6	19.8
6	25.2	24.6	23.9	23.3	23.4	24.0	23.9	25.3	26.1	29.0	30.5	32.9	33.5	34.2	35.1	34.8	33.8	32.1	30.1	28.5	26.7	25.3	24.2	23.7	35.1	23.3
7	23.7	23.8	23.4	22.6	22.7	22.7	24.5	26.6	27.3	28.6	29.8	31.6	33.2	33.6	33.7	33.5	32.8	31.4	29.1	27.2	26.1	25.1	24.3	23.5	33.7	22.6
8	22.7	22.1	21.7	21.4	20.7	20.4	21.0	21.5	23.3	26.3	28.6	30.5	31.5	32.3	32.0	31.5	30.3	28.5	25.6	23.8	22.4	21.7	21.6	21.0	32.3	20.4
9	20.1	19.9	19.2	18.1	17.8	17.8	17.8	19.1	21.5	23.5	26.5	28.6	30.5	31.7	31.8	31.6	30.2	28.2	25.6	23.7	22.5	21.1	20.0	18.9	31.8	17.8
10	18.5	18.5	18.4	18.2	18.2	18.4	18.7	20.1	21.5	24.3	26.8	28.3	30.0	30.7	30.9	31.6	31.5	30.3	27.2	25.3	24.0	22.4	21.2	20.9	31.6	18.2
11	21.3	21.0	20.6	20.2	20.1	19.3	18.6	19.5	21.5	24.7	27.4	29.6	30.8	31.9	32.8	33.3	33.1	31.9	30.8	29.9	28.8	26.9	25.8	25.0	33.3	18.6
12	24.8	24.3	24.1	23.7	23.4	23.1	22.5	23.0	25.2	27.8	30.1	32.5	33.9	34.8	34.9	34.7	34.2	33.4	31.4	30.3	27.5	25.3	24.2	23.3	34.9	22.5
13	23.0	22.7	21.9	20.9	21.1	20.7	20.3	21.1	23.5	26.4	29.7	32.5	34.9	35.4	35.3	35.5	34.7	33.2	32.2	31.9	32.1	32.1	31.1	28.6	35.5	20.3
14	26.2	28.2	25.3	26.5	25.5	24.0	24.5	24.8	27.5	31.9	34.0	35.5	36.3	36.3	36.3	35.6	34.5	33.1	31.7	31.2	30.8	29.2	28.2	28.5	36.3	24.0
15	28.1	26.9	26.3	25.8	25.2	24.6	24.9	25.8	28.0	30.2	32.3	34.4	35.7	36.2	36.6	36.1	35.5	34.3	32.9	30.5	29.4	28.6	27.9	27.1	36.6	24.6
16	26.1	25.1	24.8	24.9	24.7	24.5	25.0	25.8	27.4	29.1	30.8	32.9	33.7	34.3	33.7	33.0	31.6	30.5	28.7	27.0	25.5	24.0	23.0	22.0	34.3	22.0
17	22.0	21.1	20.3	20.3	19.7	19.1	19.5	20.3	21.9	24.7	27.0	28.8	30.7	31.9	32.0	31.7	31.0	28.9	26.3	24.4	22.5	21.3	20.5	20.1	32.0	19.1
18	19.4	18.3	18.6	18.4	17.5	17.4	17.9	18.7	20.3	23.8	26.9	29.7	31.9	32.0	32.4	32.0	31.4	30.3	28.7	28.2	28.7	29.1	26.6	25.4	32.4	17.4
19	23.9	23.1	22.7	22.5	22.1	21.9	22.0	22.9	24.5	26.9	29.8	32.0	33.8	33.8	34.2	34.4	33.4	32.2	31.1	30.2	27.3	26.2	25.9	25.5	34.4	21.9
20	25.1	25.0	24.6	23.4	22.7	22.9	23.1	23.9	25.3	27.4	30.1	31.5	33.2	34.1	34.6	34.5	33.6	31.1	29.0	27.1	26.1	24.8	23.9	23.7	34.6	22.7
21	23.3	22.9	21.7	21.4	21.2	20.9	21.5	23.6	26.4	28.3	29.7	30.4	31.4	31.5	31.9	31.5	30.6	29.3	27.9	27.1	26.5	26.6	25.3	24.5	31.9	20.9
22	24.3	23.9	23.4	22.8	22.2	22.2	22.0	22.5	24.1	26.0	28.6	29.6	31.1	31.7	32.4	32.2	31.8	29.6	27.4	25.8	24.3	23.4	22.9	22.5	32.4	22.0
23	21.3	20.3	19.7	19.0	18.9	18.5	18.4	19.2	21.7	25.1	28.0	29.4	31.0	30.3	30.0	29.4	28.3	26.8	25.3	24.3	23.2	22.2	21.8	20.8	31.0	18.4
24	19.9	19.0	18.3	17.9	17.7	17.6	17.8	18.4	20.6	24.1	26.5	28.2	29.0	30.6	30.8	30.6	29.5	27.2	25.1	23.5	22.2	21.4	20.8	20.2	30.8	17.6
25	19.9	19.4	18.8	18.0	17.4	17.0	16.9	18.2	20.6	23.0	24.9	25.7	26.2	27.5	27.4	26.9	25.6	23.9	22.7	21.4	20.2	19.7	19.1	18.3	27.5	16.9
26	17.4	16.4	15.8	15.0	14.4	13.9	13.8	15.0	17.3	19.7	22.1	24.5	25.9	26.9	27.9	27.4	25.8	23.5	21.6	20.0	18.3	17.3	16.5	15.8	27.9	13.8
27	15.8	15.4	15.8	15.6	15.2	15.0	15.0	16.3	18.4	20.7	23.3	24.9	26.1	27.3	27.9	27.9	26.7	24.0	21.6	19.8	18.7	18.0	17.4	16.9	27.9	15.0
28	15.8	15.0	14.7	14.1	13.8	13.1	12.8	14.1	16.4	18.1	19.4	20.8	21.7	22.2	21.8	21.4	19.9	17.9	16.0	15.0	14.1	13.8	13.4	13.5	22.2	12.8
29	13.3	12.6	11.8	11.3	10.9	10.8	11.0	11.9	13.8	15.9	18.3	20.4	21.9	23.8	24.0	24.2	23.4	22.4	21.4	21.0	20.2	18.2	16.5	16.0	24.2	10.8
30	16.8	16.5	15.8	16.7	17.0	16.7	17.3	19.0	19.9	21.3	22.5	23.6	24.9	25.5	26.0	26.0	25.1	23.6	22.4	21.7	21.0	20.5	20.4	19.2	26.0	15.8

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Ludlow
ELEVATION : 1782 feet
PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 42 minutes 36 seconds
LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

DATE	HOUR (PST) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	33.8	32.9	32.2	31.2	30.9	30.8	31.3	31.5	32.9	35.9	36.6	36.3	37.3	38.3	38.3	38.3	38.6	37.4	34.9	34.5	34.1	33.6	32.8	31.2	38.6	30.8
2	30.5	31.1	31.0	30.8	30.6	30.7	31.6	32.0	31.4	32.7	34.7	35.6	38.0	39.5	39.2	38.2	36.6	36.6	35.2	34.0	32.9	31.8	31.6	31.6	39.5	30.5
3	31.3	31.2	31.1	30.7	30.1	29.7	30.5	31.9	34.4	36.0	37.3	38.6	39.1	40.7	40.4	40.4	39.8	39.0	37.8	37.0	36.2	35.2	34.1	33.7	40.7	29.7
4	32.6	31.5	30.5	29.5	29.2	28.8	29.8	31.7	33.9	35.5	36.7	38.0	38.8	39.9	40.6	40.8	40.7	39.2	37.8	36.8	35.3	33.7	32.6	31.6	40.8	28.8
5	30.4	29.8	28.5	27.8	27.2	26.1	26.9	29.4	32.7	34.8	35.6	37.0	38.0	38.9	38.3	36.8	30.3	30.8	30.3	30.2	29.9	29.2	28.8	28.4	38.9	26.1
6	28.7	29.4	28.9	28.4	28.3	27.8	28.9	30.3	31.7	33.8	34.9	36.0	36.7	38.2	38.9	38.6	38.4	37.4	36.1	35.4	34.2	33.2	32.7	31.7	38.9	27.8
7	31.2	29.8	28.5	28.7	28.0	27.2	26.9	27.9	30.0	32.7	34.1	35.9	36.8	37.3	37.1	37.4	37.4	36.3	35.2	34.3	33.4	32.2	31.4	30.5	37.4	26.9
8	29.9	29.8	29.0	27.7	26.9	26.3	26.7	27.7	30.8	32.9	34.2	35.1	36.3	37.0	38.2	38.1	37.3	35.6	33.2	31.6	28.5	28.4	27.4	26.1	38.2	26.1
9	26.5	24.2	24.0	22.6	21.2	20.7	23.4	24.9	26.8	29.1	31.0	32.8	34.3	35.5	36.2	36.4	36.8	35.8	33.1	32.0	30.0	29.2	27.9	26.4	36.8	20.7
10	25.4	24.2	23.3	22.7	22.4	22.0	23.7	25.6	27.3	29.5	31.1	32.2	33.5	34.6	35.1	35.7	35.5	34.8	32.5	29.9	28.4	29.5	28.7	27.8	35.7	22.0
11	26.3	25.7	24.9	24.1	23.8	23.4	24.7	26.0	28.4	30.7	32.3	33.9	35.2	35.9	36.8	37.2	37.1	36.4	33.8	32.6	31.7	30.3	30.2	29.5	37.2	23.4
12	29.3	29.1	28.3	28.1	27.7	26.8	28.1	29.4	31.4	33.3	34.8	36.7	37.8	38.3	38.7	38.9	38.5	37.3	35.0	32.3	30.0	30.3	31.0	30.2	38.9	26.8
13	29.2	28.3	27.8	27.1	26.4	26.0	26.5	28.1	30.2	32.3	34.5	36.3	37.6	38.6	38.8	39.1	39.0	38.2	34.3	32.2	30.8	29.9	29.8	29.2	39.1	26.0
14	27.9	26.5	26.0	25.9	26.0	26.4	28.3	29.9	33.4	33.9	35.0	36.3	37.7	38.3	38.5	38.9	38.6	37.5	35.9	35.2	34.1	32.1	30.9	30.1	38.9	25.9
15	29.2	27.6	26.2	26.7	27.4	26.3	27.6	30.9	33.8	34.9	36.0	37.1	38.7	38.9	39.4	39.8	38.9	37.7	36.2	34.9	34.3	34.2	32.7	31.7	39.8	26.2
16	30.5	29.9	28.5	27.8	27.3	27.9	28.2	29.1	30.6	32.4	33.9	35.1	35.9	36.6	34.0	26.5	32.0	31.5	31.4	30.0	28.8	29.0	27.2	26.4	36.6	26.4
17	25.7	25.2	24.8	23.3	23.6	21.9	21.8	25.8	27.9	29.7	31.8	33.3	34.5	35.5	35.9	36.3	36.0	34.4	31.7	30.2	29.5	28.3	27.6	27.1	36.3	21.8
18	25.6	25.1	24.3	23.4	23.3	22.8	23.0	25.3	26.9	29.0	31.7	32.9	34.1	35.0	35.6	36.1	35.8	34.7	31.7	29.2	28.3	28.1	27.4	26.0	36.1	22.8
19	25.9	26.2	26.9	27.0	26.5	25.5	26.3	28.3	30.2	32.4	34.3	35.6	36.8	36.7	37.1	37.2	37.0	35.8	34.2	31.6	30.8	29.9	30.3	29.3	37.2	25.5
20	28.6	27.8	25.9	25.9	25.9	26.2	27.4	30.0	30.9	33.3	35.2	36.5	37.6	37.9	38.4	38.6	38.3	36.7	34.9	33.5	31.5	31.2	30.7	29.7	38.6	25.9
21	29.7	28.4	27.6	26.9	26.1	26.0	26.9	28.1	29.5	31.3	32.6	33.3	34.7	35.0	35.4	35.7	35.4	34.0	32.0	30.5	30.3	28.1	27.7	27.1	35.7	26.0
22	25.3	24.8	24.1	23.0	22.0	22.2	23.8	26.7	29.2	31.4	32.7	33.7	36.8	35.5	35.7	35.8	35.3	34.2	33.1	31.9	31.1	29.6	28.9	28.1	36.8	22.0
23	27.7	26.4	25.6	24.5	24.1	23.9	24.6	26.5	28.3	30.4	32.1	33.7	34.6	35.3	35.7	35.4	34.5	32.7	31.1	29.8	28.7	28.3	28.1	26.4	35.7	23.9
24	25.4	25.3	24.5	23.9	23.6	22.8	23.3	25.9	28.2	30.0	31.6	32.6	33.5	34.4	34.5	35.0	34.8	33.6	31.9	30.1	28.3	27.2	27.1	26.5	35.0	22.8
25	25.5	24.7	23.2	23.0	22.7	21.8	23.0	25.0	27.0	27.9	29.6	30.9	32.1	33.3	34.0	34.2	33.4	31.8	30.0	28.5	27.3	26.5	25.2	24.5	34.2	21.8
26	23.1	22.0	21.7	21.5	20.5	20.5	20.7	22.6	24.2	25.6	27.6	29.0	30.9	32.6	32.8	33.3	33.3	31.8	29.6	27.7	26.6	26.1	23.8	22.8	33.3	20.5
27	21.9	20.7	20.3	19.9	19.2	18.4	18.9	21.4	23.1	24.9	27.0	28.8	30.3	31.8	32.2	32.5	32.3	31.2	29.4	28.4	26.4	24.9	24.4	23.8	32.5	18.4
28	23.4	21.9	21.7	20.6	20.4	19.4	20.5	22.0	23.3	24.7	25.9	27.1	28.0	29.0	29.6	30.6	29.1	25.6	23.9	22.5	21.4	20.5	19.9	19.7	30.6	19.4
29	19.2	18.9	18.7	17.9	17.5	17.8	18.4	19.7	21.1	22.7	23.7	24.9	26.0	26.9	27.2	27.9	27.6	26.4	24.8	23.5	21.8	19.7	20.4	19.6	27.9	17.5
30	19.2	18.5	18.3	18.2	16.6	16.4	18.0	20.2	21.8	23.7	24.9	25.9	26.6	27.2	[PA]	[PA]	27.5	26.2	24.4	22.1	20.5	18.7	18.3	18.4		

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Palmdale

ELEVATION : 2760 feet

PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 33 minutes 26 seconds

LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

DATE	HOUR (PST) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	27.0	26.4	26.3	25.7	24.8	23.6	25.5	28.7	31.0	33.7	35.3	36.0	36.0	36.5	36.4	35.7	34.1	32.4	30.8	30.0	29.4	28.1	27.0	25.9	36.5	23.6
2	25.0	24.9	23.3	23.9	23.4	24.1	27.0	29.4	30.6	32.0	33.3	34.3	35.3	35.8	36.4	35.8	34.6	33.0	31.0	30.4	29.2	27.8	28.4	26.7	36.4	23.3
3	25.2	25.3	26.0	26.5	25.8	24.4	26.6	28.4	30.3	31.9	33.4	34.3	35.1	35.9	35.3	34.1	33.0	31.8	30.2	29.0	27.9	26.3	25.8	25.0	35.9	24.4
4	24.4	23.6	23.4	23.0	22.7	23.0	25.6	28.4	30.8	31.7	32.9	34.0	34.6	34.6	34.2	33.7	33.2	31.5	28.3	26.9	26.4	24.9	22.7	20.8	34.6	20.8
5	19.0	17.9	18.3	17.9	16.3	17.5	19.6	23.3	25.0	27.8	30.1	32.2	33.8	35.9	35.8	34.9	33.9	31.7	29.6	29.2	28.7	26.7	24.7	24.7	35.9	16.3
6	24.6	24.1	23.3	22.9	22.4	22.2	24.7	28.4	30.3	31.4	32.2	32.6	32.8	32.7	32.4	32.0	31.2	30.0	28.3	27.5	26.0	25.6	26.0	25.6	32.8	22.2
7	25.7	25.4	23.6	22.9	23.7	23.6	25.0	27.5	28.5	29.5	30.5	31.0	31.5	31.2	31.6	30.9	29.7	28.6	27.1	26.4	26.1	25.6	25.1	24.8	31.6	22.9
8	23.9	25.1	22.9	22.4	21.2	19.7	23.0	26.3	27.5	28.1	29.1	29.5	29.6	29.6	29.4	28.7	27.3	25.5	24.3	24.0	23.7	23.0	21.4	21.8	29.6	19.7
9	22.8	22.0	20.6	20.0	19.3	18.1	21.4	23.7	25.2	26.4	27.6	28.4	28.6	28.6	28.1	27.6	26.6	24.9	22.9	21.2	20.5	20.7	19.2	18.1	28.6	18.1
10	18.0	18.1	18.7	17.2	16.1	15.7	18.1	21.7	23.3	27.1	28.6	29.4	29.4	29.9	30.1	29.1	28.3	26.9	25.8	24.6	23.5	23.3	22.9	23.5	30.1	15.7
11	23.8	19.3	18.1	17.6	17.0	17.5	20.5	23.5	24.4	26.3	28.4	30.6	32.0	33.0	33.8	34.3	32.9	30.8	28.7	27.2	25.5	24.1	22.4	21.5	34.3	17.0
12	21.1	20.6	20.3	19.1	19.2	20.2	21.7	26.8	30.4	31.5	32.5	33.6	34.2	35.3	35.5	35.0	33.8	32.0	28.5	26.0	23.2	22.5	22.1	21.5	35.5	19.1
13	21.0	20.9	19.1	19.1	18.1	18.1	19.4	25.4	27.1	28.7	30.3	32.0	33.8	35.0	35.7	36.0	35.7	34.3	30.3	29.2	26.6	23.9	23.5	22.0	36.0	18.1
14	21.1	20.9	20.0	19.5	19.6	19.6	20.8	25.8	27.8	29.5	31.5	33.2	35.0	36.2	36.6	36.3	34.6	33.0	31.6	30.1	28.7	26.7	25.2	23.9	36.6	19.5
15	21.8	22.9	22.3	21.0	21.2	21.0	22.5	25.9	29.0	31.5	33.5	34.8	34.9	35.8	35.4	34.7	33.4	32.0	30.4	29.6	28.3	27.9	27.3	24.6	35.8	21.0
16	23.9	23.5	22.8	23.1	23.1	25.2	27.2	29.1	30.1	31.1	31.5	31.6	31.7	31.5	31.7	31.0	29.9	27.5	25.5	24.7	24.0	23.5	23.3	24.5	31.7	22.8
17	23.6	22.1	21.6	20.5	20.3	19.7	20.4	22.5	25.3	28.2	29.4	30.2	30.6	30.5	30.3	29.7	28.4	26.6	25.0	23.6	22.7	20.9	19.2	18.3	30.6	18.3
18	16.9	16.7	16.3	15.9	17.4	17.7	18.3	22.3	24.1	25.3	27.5	29.7	31.1	32.2	32.6	32.9	32.8	30.7	27.2	25.4	24.3	23.5	22.0	21.4	32.9	15.9
19	20.5	19.1	20.2	20.1	18.9	19.0	20.3	24.3	27.3	29.2	30.9	32.4	33.4	34.3	34.5	33.6	31.9	29.6	28.6	28.0	27.5	26.3	25.9	26.5	34.5	18.9
20	25.7	25.8	25.4	24.9	24.2	24.4	26.0	29.2	30.4	31.3	32.3	32.8	33.1	33.0	32.5	31.4	30.1	28.6	27.7	27.8	27.5	27.0	25.8	25.5	33.1	24.2
21	24.9	24.7	24.1	22.4	21.2	20.0	20.9	26.8	27.7	28.6	30.1	31.1	32.1	32.8	33.2	33.5	31.0	29.0	27.2	26.1	24.8	26.2	24.3	24.3	33.5	20.0
22	23.4	22.7	22.0	22.2	22.0	21.4	22.6	25.7	27.8	29.1	30.8	31.0	31.2	31.0	30.5	29.8	28.6	26.9	25.5	25.5	24.8	24.1	24.4	23.7	31.2	21.4
23	23.7	23.3	22.6	22.2	23.0	22.5	22.5	25.7	27.9	28.8	29.7	30.4	30.9	30.4	29.5	28.9	28.1	26.6	25.0	24.0	23.4	23.6	22.1	22.0	30.9	22.0
24	22.9	22.9	23.2	21.3	20.4	20.3	21.2	24.0	26.2	27.4	28.7	29.3	30.4	29.9	28.7	27.5	26.3	24.8	23.7	23.1	22.7	21.7	21.7	21.1	30.4	20.3
25	20.4	20.9	21.0	20.4	19.3	19.4	20.2	22.6	23.4	24.9	25.8	26.5	26.6	26.9	26.2	25.7	24.5	22.9	21.7	20.8	20.3	19.6	19.1	18.6	26.9	18.6
26	17.9	18.5	16.2	15.9	15.1	14.9	16.9	18.4	21.0	21.2	23.9	25.3	25.8	25.8	25.3	24.4	22.9	21.3	20.1	19.2	20.0	18.5	17.5	16.7	25.8	14.9
27	16.1	16.0	15.1	15.7	16.8	16.5	17.7	20.6	22.4	24.5	25.8	26.3	26.4	26.0	25.4	24.0	22.3	20.8	19.8	19.4	19.4	17.7	17.1	18.0	26.4	15.1
28	17.1	16.6	16.1	15.0	13.9	13.6	14.2	14.5	16.0	17.4	18.5	19.2	19.1	18.9	18.6	17.5	16.6	15.6	15.3	15.1	15.3	15.7	15.5	14.9	19.2	13.6
29	14.1	13.7	12.8	13.0	12.8	12.8	13.5	15.2	17.0	18.4	19.9	[PA]	22.7	23.5	24.3	24.2	22.3	20.0	17.8	16.3	15.2	14.2	14.2	14.3		
30	13.3	12.8	12.6	12.1	11.4	11.1	12.5	14.8	17.1	19.1	21.1	22.8	24.4	25.3	26.0	26.3	26.0	24.0	20.7	19.9	18.1	16.5	15.2	15.1	26.3	11.1

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Quartzite Mountain
ELEVATION : 4482 feet
PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 36 minutes 38 seconds
LONGITUDE : 117 degrees 17 minutes 20 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	26.7	26.1	25.7	25.4	25.5	25.8	26.0	27.4	29.0	30.0	31.1	31.1	32.2	31.9	29.0	24.6	24.4	24.9	26.8	25.9	26.6	26.4	25.5	25.3	32.2	24.4
2	25.9	25.9	26.1	25.8	25.8	25.9	26.3	26.5	28.7	29.5	30.1	31.5	32.7	32.6	32.7	29.4	28.0	27.2	27.3	26.6	25.7	26.0	26.0	25.9	32.7	25.7
3	25.7	25.4	25.6	25.6	25.1	25.6	25.5	26.2	27.7	28.4	30.6	31.5	31.9	32.0	30.7	30.3	29.9	28.5	27.5	27.2	26.4	24.9	23.8	24.2	32.0	23.8
4	24.0	23.9	23.9	23.8	23.9	23.6	24.5	24.9	25.8	27.1	28.7	29.5	30.2	30.4	30.3	30.2	29.2	28.3	26.5	26.3	24.7	23.7	22.8	21.7	30.4	21.7
5	22.0	21.4	22.2	22.1	23.0	23.2	23.8	24.4	25.4	26.8	28.2	29.5	30.6	30.7	31.0	30.3	29.3	27.8	26.3	25.0	24.5	23.5	23.7	23.5	31.0	21.4
6	23.0	22.5	22.8	22.5	22.5	22.5	22.4	23.0	24.4	25.8	27.6	29.3	30.8	30.6	29.8	29.2	28.4	26.9	25.0	24.1	24.1	23.1	22.7	22.6	30.8	22.4
7	22.6	22.0	22.5	22.6	22.6	22.3	22.4	22.5	24.8	25.9	28.0	29.0	29.7	29.2	29.1	28.4	27.4	25.0	22.9	22.4	22.4	21.4	21.0	21.6	29.7	21.0
8	21.7	21.3	21.1	20.7	20.4	20.2	20.2	22.0	22.5	24.4	25.5	26.2	26.8	26.6	25.8	25.5	24.2	22.5	20.9	19.4	19.2	19.1	19.0	19.6	26.8	19.0
9	18.9	18.3	17.5	17.4	17.1	16.8	17.6	18.9	20.1	21.9	23.6	24.9	25.8	25.9	25.5	24.7	24.0	22.1	20.3	19.6	19.0	18.8	18.9	18.6	25.9	16.8
10	18.3	17.7	17.6	17.7	18.1	18.2	18.9	19.6	20.6	22.3	24.5	25.8	26.7	27.2	26.7	26.1	26.0	24.5	22.6	21.6	21.0	20.6	20.4	20.3	27.2	17.6
11	20.7	20.5	19.8	20.6	20.7	21.1	22.1	22.5	22.6	25.1	25.4	27.1	27.6	28.5	29.0	29.2	28.8	28.0	27.5	26.6	25.0	24.3	23.7	23.6	29.2	19.8
12	23.8	23.1	23.0	22.5	22.6	22.8	23.4	24.4	26.6	27.6	27.7	29.3	29.2	30.7	30.8	30.3	29.8	29.2	28.1	25.8	24.2	23.1	23.0	22.6	30.8	22.5
13	22.0	22.3	21.5	21.5	21.3	21.6	23.8	24.7	25.5	24.7	26.2	28.3	31.0	31.6	31.8	31.4	32.0	30.8	29.6	28.6	27.1	26.5	26.5	26.6	32.0	21.3
14	26.7	26.2	26.9	27.0	26.4	25.8	26.0	27.4	29.4	29.6	30.3	31.7	32.6	33.1	32.4	32.7	32.0	31.0	29.2	28.1	27.3	27.2	26.9	27.2	33.1	25.8
15	26.5	26.1	26.6	26.5	26.1	26.1	26.6	27.4	27.5	28.3	30.3	31.0	32.2	31.9	31.8	32.2	31.2	29.7	28.1	26.8	25.8	25.3	25.6	25.2	32.2	25.2
16	25.2	24.0	23.5	22.9	22.6	22.8	23.3	24.1	26.6	27.7	29.0	29.4	30.9	30.6	30.4	29.4	28.3	26.4	24.3	22.9	22.8	22.9	23.0	22.5	30.9	22.5
17	22.1	21.9	21.4	21.2	21.2	21.0	21.0	21.7	23.0	24.2	26.2	26.8	27.4	27.7	27.7	27.1	25.8	24.6	23.0	22.1	20.8	19.4	18.9	18.5	27.7	18.5
18	18.6	18.0	18.0	18.1	18.1	18.9	20.8	20.8	21.3	22.7	25.1	26.9	28.1	28.8	28.9	28.4	28.5	27.3	26.9	26.3	26.1	25.3	23.8	22.4	28.9	18.0
19	22.5	22.7	23.0	23.3	23.8	23.8	24.0	24.5	25.9	26.7	26.7	27.7	28.7	29.7	30.0	29.7	29.4	28.1	25.9	25.4	24.1	24.2	24.2	24.1	30.0	22.5
20	24.9	24.7	24.4	23.3	22.8	23.3	23.4	24.0	24.9	26.4	28.1	29.5	30.2	30.7	31.0	29.3	28.7	27.4	24.0	23.4	23.2	22.4	22.2	22.5	31.0	22.2
21	22.3	22.1	21.4	21.1	20.9	20.3	20.5	21.6	21.7	23.7	25.9	27.4	28.9	29.3	30.2	30.3	29.0	26.6	25.0	23.8	23.0	23.1	22.9	22.7	30.3	20.3
22	22.7	21.7	21.9	21.7	21.7	21.5	21.8	23.3	24.1	25.1	26.8	27.4	28.5	28.8	28.3	27.4	26.5	25.7	23.2	22.4	22.1	21.4	21.0	20.9	28.8	20.9
23	20.1	19.1	18.4	18.4	18.0	17.7	18.1	19.0	20.9	23.4	24.8	25.8	26.7	26.6	26.7	26.3	25.9	24.5	22.8	21.4	20.1	19.5	19.4	19.0	26.7	17.7
24	18.3	18.1	18.0	17.5	17.6	17.6	17.8	18.3	20.2	22.4	23.7	25.3	26.6	27.1	27.5	26.4	23.7	22.5	21.3	19.1	18.4	18.6	18.2	18.1	27.5	17.5
25	18.0	17.5	17.6	16.8	16.7	16.5	16.2	17.3	18.9	20.2	21.9	23.0	23.4	23.6	23.7	23.3	21.9	20.1	19.1	18.0	17.3	16.0	15.4	15.3	23.7	15.3
26	14.9	14.8	14.4	13.4	13.3	13.3	14.0	15.0	16.1	17.7	19.9	20.5	22.0	21.8	21.2	20.7	19.8	18.4	16.8	16.1	15.6	15.1	15.7	15.8	22.0	13.3
27	15.8	15.4	14.8	14.7	14.7	14.3	14.8	15.5	16.7	19.0	20.6	21.9	22.3	22.5	22.5	21.8	20.2	18.8	17.5	16.4	15.5	14.8	14.5	14.3	22.5	14.3
28	15.1	14.2	14.0	13.4	12.4	11.7	11.1	11.3	13.3	14.0	15.6	17.3	17.0	16.9	16.4	15.6	14.9	12.5	11.4	11.4	11.5	11.4	10.7	10.9	17.3	10.7
29	10.6	10.2	9.6	9.2	9.0	8.6	8.7	9.5	11.2	13.1	14.5	16.3	17.2	17.8	18.3	18.5	18.5	18.1	17.9	16.0	14.1	15.2	15.6	16.1	18.5	8.6
30	15.9	15.9	15.7	15.0	14.5	13.5	[PA]	15.7	16.8	18.2	19.2	19.7	20.2	20.8	20.4	20.1	20.2	20.0	19.4	19.7	19.8	18.5	18.4	17.6		

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Shadow Mountain

ELEVATION : 4120 feet

PARAMETER : Ambient Temperature (Degrees C)

LATITUDE : 34 degrees 44 minutes 15 seconds

LONGITUDE : 117 degrees 33 minutes 54 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	26.8	26.4	26.3	25.7	25.0	24.8	25.7	26.7	28.2	30.0	31.0	32.6	33.0	33.1	32.2	27.8	27.3	26.6	27.3	27.2	27.5	26.6	26.8	27.1	33.1	24.8
2	27.5	26.9	26.9	26.9	26.8	27.1	27.7	28.6	28.8	30.7	31.9	32.4	33.0	33.1	32.2	29.1	28.1	28.8	28.4	28.0	27.1	27.0	26.9	26.5	33.1	26.5
3	26.5	26.5	26.2	26.1	26.4	26.2	26.7	28.1	29.0	29.7	31.2	32.1	32.3	32.1	31.6	30.9	31.3	29.8	28.4	27.0	25.9	25.2	24.9	24.6	32.3	24.6
4	24.3	24.3	24.4	24.2	24.6	24.4	25.2	26.0	26.6	27.9	29.3	30.3	31.1	31.8	32.2	31.4	30.5	29.4	27.8	25.4	23.2	21.8	21.6	21.9	32.2	21.6
5	21.7	22.3	20.2	20.5	21.5	22.6	23.9	24.7	24.7	26.4	28.9	30.1	31.7	32.0	32.1	32.3	32.1	30.5	28.3	26.9	26.2	25.8	24.9	24.7	32.3	20.2
6	23.8	23.2	22.7	22.6	22.9	23.0	23.8	25.3	27.5	27.5	28.2	29.4	30.2	30.5	30.6	29.9	29.1	28.0	26.7	25.3	24.2	23.8	23.2	22.9	30.6	22.6
7	22.6	22.5	22.5	23.0	23.0	22.8	22.3	23.7	24.6	26.2	27.3	28.5	29.2	29.6	29.5	29.0	28.3	26.9	25.3	24.2	23.5	22.8	22.5	22.5	29.6	22.3
8	22.5	21.9	22.0	21.1	21.5	21.2	21.0	21.8	23.4	25.2	26.3	27.3	27.9	27.9	27.6	27.3	26.5	24.8	22.8	21.6	21.1	20.6	20.1	20.0	27.9	20.0
9	19.8	19.6	18.9	19.0	18.6	18.2	18.8	20.0	21.3	23.1	24.9	26.1	27.1	27.6	27.6	27.0	26.1	24.3	21.7	20.5	19.3	18.7	18.0	17.9	27.6	17.9
10	18.2	18.6	18.6	18.3	18.4	18.8	19.7	21.5	22.8	24.3	25.6	26.7	26.9	27.8	28.3	28.0	26.9	25.7	23.7	22.4	21.4	20.9	21.0	21.2	28.3	18.2
11	20.9	20.9	20.2	20.2	20.5	21.3	22.0	22.1	22.9	24.2	25.7	27.0	28.0	29.0	29.9	30.0	30.0	29.6	28.6	26.1	25.1	24.6	24.3	24.3	30.0	20.2
12	24.0	24.3	24.2	23.3	23.2	22.8	23.0	23.7	25.1	27.0	28.6	29.2	30.1	30.7	31.1	31.4	30.9	30.3	27.3	25.2	23.3	22.5	22.4	22.4	31.4	22.4
13	22.2	21.7	21.5	21.2	21.0	20.8	21.7	22.1	24.5	26.5	28.3	30.4	30.8	31.8	32.0	32.1	31.8	31.2	30.4	30.4	30.2	29.3	27.9	27.6	32.1	20.8
14	27.3	26.8	27.6	27.5	27.3	26.2	26.9	28.3	29.3	30.5	31.1	31.5	31.9	33.3	33.3	33.4	33.1	32.1	29.3	28.5	28.2	28.0	27.7	27.6	33.4	26.2
15	26.9	26.9	26.6	26.1	26.4	27.3	27.5	28.7	30.1	30.6	31.5	31.3	32.4	31.9	31.9	32.7	32.2	30.0	28.5	27.5	26.8	27.0	26.5	25.7	32.7	25.7
16	25.3	25.0	24.6	24.5	24.5	24.6	24.8	25.6	26.5	28.0	28.7	29.1	29.5	29.4	28.9	28.4	27.8	26.8	25.4	24.1	22.7	22.3	22.1	21.5	29.5	21.5
17	21.1	20.5	19.5	20.3	21.2	19.9	19.3	19.5	21.1	23.1	24.9	26.6	27.4	27.6	27.8	27.6	26.8	24.8	22.5	21.0	19.7	18.8	18.2	18.2	27.8	18.2
18	18.2	18.2	18.5	20.6	19.0	20.1	20.7	22.0	23.4	24.8	25.8	26.7	27.4	28.6	28.9	28.9	28.9	28.4	27.9	27.7	26.4	23.6	23.8	23.7	28.9	18.2
19	23.1	23.4	25.4	24.8	23.9	24.8	24.8	26.0	25.4	26.8	28.5	29.7	30.0	30.5	30.6	30.7	30.2	29.5	27.2	25.1	24.7	25.0	24.5	24.6	30.7	23.1
20	24.6	24.1	23.9	23.3	22.7	22.6	22.8	23.6	24.9	26.6	27.7	28.8	29.7	30.4	30.7	30.0	28.8	27.2	25.5	24.1	23.3	23.1	23.0	22.8	30.7	22.6
21	22.4	22.1	21.6	21.0	20.5	20.5	21.5	23.2	24.6	25.1	25.6	26.6	27.7	28.7	29.4	29.9	29.1	28.3	26.9	25.0	23.9	23.5	23.3	22.7	29.9	20.5
22	22.2	21.9	22.0	22.0	22.2	22.3	22.1	22.0	22.8	24.9	26.5	27.7	28.1	28.8	28.8	28.4	27.2	25.6	23.9	22.7	21.8	21.3	20.9	20.9	28.8	20.9
23	19.9	18.9	18.6	17.7	17.4	17.1	17.3	19.0	21.4	23.5	24.6	25.3	26.2	26.4	26.3	26.1	25.6	24.6	23.0	21.5	20.6	20.0	19.4	18.7	26.4	17.1
24	18.1	17.6	17.4	17.2	16.9	16.7	17.4	18.6	20.3	22.0	23.6	24.7	25.7	26.5	26.7	26.1	24.7	23.0	21.3	20.4	19.8	19.3	19.1	18.6	26.7	16.7
25	18.4	17.8	17.0	16.4	16.3	16.3	16.6	17.3	19.3	20.8	21.7	22.3	23.6	24.0	23.9	23.3	22.0	21.0	19.5	18.6	18.4	18.0	17.3	16.1	24.0	16.1
26	14.6	13.6	13.6	13.1	12.6	12.4	12.4	13.0	15.1	17.5	19.3	22.0	23.5	24.2	24.5	23.4	22.4	20.7	18.1	16.0	15.1	14.3	14.0	14.4	24.5	12.4
27	13.9	14.2	14.0	13.8	14.0	14.2	14.3	15.8	16.9	18.8	20.8	22.2	23.1	23.9	24.5	23.7	21.9	19.6	17.8	17.3	17.2	16.1	15.6	14.4	24.5	13.8
28	13.6	14.4	13.9	13.2	12.2	11.5	11.3	12.0	13.0	14.2	15.5	16.2	16.9	17.0	17.3	16.6	15.3	13.8	12.9	12.2	11.6	11.4	11.3	11.4	17.3	11.3
29	10.7	9.8	9.1	8.8	8.8	8.6	8.3	9.6	11.6	14.0	16.4	17.7	18.9	19.7	20.1	20.3	20.3	19.7	17.6	15.5	14.4	16.2	17.2	17.4	20.3	8.3
30	17.6	16.6	16.3	16.1	15.5	15.0	15.1	15.0	15.9	17.1	[PA]	19.5	20.5	21.2	21.9	22.2	22.0	21.7	21.1	19.6	18.7	17.4	16.8	16.8		

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Baldy Mesa

LATITUDE : 34 degrees 23 minutes 20 seconds

MONTH : September

ELEVATION : 4250 feet

LONGITUDE : 117 degrees 26 minutes 33 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.3	3.2	1.9	0.7	1.1	0.6	1.0	1.1	1.3	2.3	3.4	5.1	5.6	5.6	8.7	6.2	4.3	2.9	3.1	3.5	3.9	3.3	3.8	2.8
2	1.6	0.8	1.4	1.3	0.8	1.4	0.4	1.4	2.2	3.4	4.8	5.2	5.7	6.8	7.7	8.9	7.1	5.1	5.9	5.7	6.0	3.4	1.6	2.8
3	2.8	2.3	2.2	0.9	1.0	0.7	0.5	1.3	2.2	2.2	3.2	4.8	5.7	6.4	7.3	7.6	7.5	6.2	5.7	5.8	5.7	5.6	4.7	3.5
4	3.0	0.9	2.2	3.9	4.5	4.5	4.0	3.6	5.3	5.7	6.3	7.6	6.8	7.5	7.3	7.8	7.0	5.8	3.3	3.8	3.8	2.7	2.7	1.6
5	3.2	3.1	2.5	2.6	1.6	0.6	2.5	5.2	6.2	7.0	7.9	8.1	8.7	8.1	7.8	6.7	7.0	5.9	5.1	7.2	8.2	8.0	7.1	6.8
6	6.1	6.6	6.7	6.2	5.9	5.6	4.6	4.7	5.1	4.4	5.3	5.9	6.8	7.2	7.6	7.6	7.0	6.7	6.9	6.2	5.3	4.9	4.8	5.1
7	5.6	5.2	4.1	3.8	4.1	5.2	4.3	5.0	6.0	6.9	6.4	6.4	6.6	7.1	7.2	6.6	6.6	6.5	7.1	7.0	7.4	6.7	6.4	6.0
8	6.2	6.6	6.2	5.5	5.4	5.1	5.7	6.7	7.6	7.1	7.6	8.6	9.8	10.3	10.2	9.7	8.3	8.2	7.5	7.0	6.7	6.1	6.4	6.2
9	6.7	7.2	7.2	7.4	7.7	7.3	6.8	7.5	8.1	7.4	6.9	7.3	8.2	9.1	9.9	9.1	8.2	8.5	7.7	7.4	6.9	7.2	7.5	6.7
10	6.9	7.2	7.1	7.1	6.6	6.5	6.8	6.9	6.8	7.2	7.3	6.2	7.0	7.8	7.7	7.4	7.0	6.7	6.3	5.8	6.1	6.2	5.9	5.4
11	4.8	4.9	4.7	4.4	4.0	4.0	1.3	1.0	1.9	1.8	2.1	2.5	3.6	4.2	3.4	3.1	3.7	4.1	4.8	4.5	3.7	3.6	2.3	3.5
12	1.3	1.3	0.6	0.6	0.9	2.4	1.5	2.0	2.6	3.3	3.4	3.4	3.5	2.8	2.3	2.5	2.9	3.8	3.8	4.0	3.5	3.3	2.2	0.9
13	1.7	1.5	3.2	1.1	1.1	1.2	0.6	1.3	2.4	2.5	3.2	3.3	3.5	3.2	2.6	2.6	2.6	2.3	4.0	4.6	4.7	4.6	4.7	2.9
14	1.2	1.0	0.7	1.8	2.2	1.4	0.6	1.4	2.2	4.4	5.6	6.4	6.2	4.9	4.4	3.7	3.5	4.0	3.9	2.6	2.4	3.2	4.1	4.0
15	2.9	2.1	3.2	2.1	1.5	1.3	0.8	0.9	1.4	2.5	3.5	4.7	4.6	4.0	4.5	4.9	5.4	5.1	5.4	5.4	5.8	6.7	6.1	5.5
16	4.7	5.0	5.6	5.3	4.4	5.4	4.6	4.7	5.1	5.4	6.1	6.6	6.8	6.7	6.9	6.6	6.2	5.9	5.7	5.6	5.4	5.1	5.3	5.3
17	5.0	4.9	4.8	5.0	4.6	3.8	4.8	4.7	6.0	6.2	5.9	6.3	7.6	7.9	7.9	7.9	6.9	5.7	5.4	5.5	5.0	4.0	3.4	2,4
18	1.7	0.8	1.3	3.3	3.3	3.2	2.0	1.8	2.7	3.7	3.9	3.7	3.5	3.6	3.2	3.1	4.0	5.0	5.1	4.7	4.4	4.4	2.9	1.9
19	1.9	2.2	1.9	1.4	1.3	0.6	1.2	1.3	1.4	2.2	2.5	3.0	3.2	5.1	4.5	5.2	5.5	4.8	5.5	5.3	5.3	5.1	5.0	4.8
20	4.7	4.0	4.6	4.9	5.0	4.7	4.3	4.5	3.6	3.3	4.4	5.3	6.0	6.5	6.7	6.8	6.6	6.6	6.5	6.7	6.7	6.4	6.1	6.1
21	5.7	5.1	4.9	4.6	4.6	3.4	1.6	3.6	3.8	3.1	2.9	3.0	2.8	3.7	5.1	5.1	5.7	6.2	6.9	6.7	5.7	5.1	4.6	4.6
22	4.1	4.3	4.1	4.1	4.6	4.6	3.8	3.2	2.6	2.8	3.6	4.9	6.2	6.1	6.5	6.1	6.0	5.9	5.7	5.9	5.0	5.0	4.8	3.8
23	2.8	2.9	3.4	3.5	3.1	3.4	2.9	4.6	5.8	7.3	7.1	5.1	6.3	5.9	6.1	6.4	6.3	5.6	5.8	6.1	5.2	4.2	4.6	5.2
24	5.3	4.6	3.8	3.7	3.4	3.4	3.1	2.6	2.8	3.1	4.6	5.6	6.4	6.5	6.5	6.5	6.5	6.1	5.5	5.0	4.9	4.9	4.5	4.9
25	4.9	5.3	5.1	4.8	4.2	4.1	3.8	5.1	7.2	8.6	7.3	7.7	7.9	8.7	8.4	7.8	8.2	7.3	5.8	5.8	6.7	6.6	7.1	7.9
26	7.7	8.2	8.0	7.5	8.2	8.1	7.8	8.1	8.8	8.6	9.8	9.8	10.1	9.8	9.9	9.2	9.2	7.5	6.6	7.6	6.7	6.2	5.9	7.5
27	7.0	6.9	7.0	7.3	7.4	6.9	7.3	7.7	7.0	6.3	7.5	8.1	7.9	8.0	8.0	8.3	7.9	6.6	6.0	6.4	6.1	6.0	5.9	5.9
28	5.8	5.7	5.5	6.0	5.5	5.6	5.8	6.2	[PA]	8.0	8.4	8.9	9.5	9.8	9.8	9.6	8.8	8.1	8.2	7.4	5.9	5.4	5.0	4.8
29	4.6	5.1	5.0	4.7	3.3	2.0	2.2	5.2	4.4	4.1	3.9	3.8	2.9	2.9	3.0	2.4	2.6	2.3	2.3	3.2	3.4	3.2	1.8	2.4
30	2.7	3.0	3.3	3.4	3.3	3.4	2.8	3.0	3.1	3.0	2.9	3.3	3.0	3.4	3.5	3.8	2.9	2.3	1.3	0.6	1.9	2.0	3.2	3.7
AVG.	4.2	4.1	4.1	4.0	3.8	3.7	3.3	3.9	4.3	4.8	5.3	5.7	6.1	6.3	6.5	6.3	6.0	5.6	5.4	5.4	5.3	5.0	4.7	4.5

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Boron

LATITUDE : 35 degrees 01 minutes 00 seconds

MONTH : September

ELEVATION : 2460 feet

LONGITUDE : 117 degrees 39 minutes 00 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0.8	0.6	1.2	1.5	0.5	1.3	1.1	1.0	0.9	0.8	1.3	2.0	2.3	2.5	2.4	5.1	6.7	5.6	3.6	1.5	1.6	1.7	0.9	1.5
2	1.2	0.4	1.0	0.8	0.6	0.7	0.4	0.5	0.8	1.8	1.3	1.9	1.7	1.9	3.3	6.0	6.2	4.5	2.2	1.0	2.1	2.7	1.2	1.0
3	0.7	0.5	0.8	0.8	0.8	1.4	1.3	0.6	1.4	1.1	1.2	1.3	1.7	1.9	2.2	3.7	3.5	5.1	4.2	2.5	2.3	3.0	3.4	1.9
4	2.7	3.0	1.4	2.1	1.8	0.7	1.4	1.2	0.8	2.7	3.5	3.4	3.6	3.4	4.8	4.8	5.1	4.7	3.9	3.2	3.0	3.1	2.7	3.1
5	2.6	1.1	1.1	1.0	1.3	1.0	0.7	0.8	1.4	1.1	1.5	1.8	1.9	2.3	3.3	3.9	5.4	4.5	3.7	3.2	2.5	1.2	1.1	0.8
6	0.6	1.1	0.7	1.0	0.9	0.9	1.0	2.1	2.3	1.9	3.4	3.8	4.2	4.8	5.6	5.8	5.8	5.6	4.8	5.1	4.5	4.0	4.0	3.8
7	3.8	3.3	2.6	1.6	2.5	0.9	1.6	1.5	2.6	3.4	4.4	4.2	4.7	5.2	5.4	5.8	6.3	5.5	5.0	4.5	3.9	3.7	4.1	3.7
8	3.7	2.9	3.0	3.4	2.7	2.9	2.6	3.3	4.8	5.4	5.1	5.4	6.3	7.7	7.8	7.2	6.9	6.6	5.0	5.1	5.5	4.1	3.7	4.1
9	2.1	1.9	1.7	2.4	2.3	1.8	2.4	2.8	3.9	4.4	4.8	4.7	4.9	5.0	5.3	6.5	7.2	6.6	5.6	4.1	4.0	3.1	2.9	2.5
10	2.7	2.6	2.7	1.6	1.4	1.8	1.6	0.5	1.4	2.4	2.7	3.5	3.0	2.6	3.1	3.8	4.5	4.4	4.3	4.0	3.1	3.1	3.7	4.0
11	2.8	2.2	1.3	1.3	0.9	1.2	0.7	0.7	1.4	1.1	1.3	1.1	1.4	1.7	2.2	2.2	1.9	1.8	2.4	2.0	1.8	2.5	2.9	2.5
12	2.2	1.4	1.4	0.6	0.8	1.2	1.0	1.9	2.1	2.1	2.0	2.7	2.7	3.0	3.2	2.8	2.6	4.3	2.5	2.7	3.1	3.4	3.3	3.2
13	2.2	0.4	0.7	1.9	1.9	1.3	0.6	0.8	1.6	1.4	0.9	1.5	2.6	3.0	3.8	3.1	3.0	2.8	1.5	1.0	0.9	2.0	0.8	0.6
14	0.8	0.8	0.7	0.9	0.9	0.9	0.9	1.2	1.1	0.9	2.2	2.5	2.8	2.9	2.7	1.5	2.1	2.7	2.9	2.2	1.2	0.9	1.0	1.3
15	1.1	1.8	1.2	1.1	1.0	0.9	0.6	0.6	0.4	1.1	0.9	1.2	1.8	1.9	2.1	2.0	2.6	5.3	3.9	3.1	3.3	3.2	2.9	2.9
16	2.3	1.0	1.0	1.0	0.4	0.9	0.8	1.1	2.0	3.2	3.6	4.5	5.3	6.0	6.9	7.3	7.0	5.5	4.0	4.5	3.8	3.1	3.0	2.9
17	2.5	2.2	0.9	1.8	2.7	2.2	2.3	2.4	2.9	4.0	4.5	4.8	4.6	4.5	4.6	5.6	5.5	5.2	4.2	4.2	3.8	3.9	3.9	2.7
18	2.0	1.4	1.2	0.9	0.7	1.3	1.0	0.7	1.2	1.5	1.2	1.4	2.9	3.6	3.1	2.6	2.5	1.8	1.1	0.7	0.6	1.0	2.3	1.9
19	2.5	1.4	0.9	1.1	1.3	1.4	0.8	0.4	0.8	0.8	0.8	1.4	1.6	2.0	1.8	1.5	1.1	1.5	3.7	4.5	4.5	3.9	3.4	3.4
20	2.1	1.1	2.1	2.2	2.1	1.5	1.5	1.0	2.8	2.2	2.0	2.3	3.5	3.4	3.7	3.9	4.9	4.1	3.6	3.9	4.5	5.1	4.8	4.4
21	4.2	3.7	2.9	2.6	1.8	1.3	1.7	1.7	1.7	2.7	3.9	3.7	4.2	3.5	3.1	2.2	2.2	2.0	1.6	1.9	1.4	1.6	0.6	0.8
22	0.9	0.9	0.4	0.5	0.8	0.7	0.6	0.3	0.4	0.7	1.0	1.5	2.4	2.8	3.0	3.7	6.1	4.6	4.3	5.2	5.1	3.9	3.5	4.2
23	3.6	4.4	4.5	4.2	4.0	4.4	4.2	5.3	5.3	5.3	6.3	7.3	8.4	8.1	8.0	9.1	8.4	6.7	6.1	4.6	3.3	3.4	4.3	4.6
24	4.8	4.2	4.2	3.7	3.9	3.8	3.8	4.1	3.6	3.2	2.7	2.5	2.6	3.9	3.7	5.2	5.2	4.7	4.4	4.1	4.3	4.4	4.3	3.7
25	3.7	3.8	3.8	3.9	4.2	4.5	4.8	5.1	5.2	5.4	5.6	6.0	5.8	6.7	7.7	7.1	6.5	5.2	4.4	3.6	4.4	4.2	4.8	5.2
26	6.0	5.3	2.6	2.8	3.8	2.8	2.4	2.5	4.1	4.9	4.8	5.5	5.4	5.2	5.3	5.9	6.1	6.3	5.9	4.3	4.7	3.3	4.2	4.1
27	4.4	4.8	4.0	3.6	3.9	2.9	1.8	3.5	2.5	2.6	2.5	3.2	4.4	5.1	4.4	4.7	5.3	5.7	6.5	5.7	5.3	5.4	4.3	4.1
28	4.4	4.7	4.7	4.9	4.8	5.1	5.7	6.5	7.0	7.3	6.8	7.1	8.1	8.7	8.4	8.0	8.2	7.4	7.5	6.2	5.4	5.2	5.3	5.4
29	7.1	7.9	5.9	5.8	5.5	5.0	[PA]	[PA]	3.4	2.0	1.5	1.8	1.8	1.6	1.8	2.1	2.0	1.2	2.6	1.9	1.9	0.5	0.8	0.5
30	0.3	1.0	0.8	0.7	0.4	0.2	0.4	0.9	1.0	1.2	3.1	2.4	1.9	1.4	1.6	1.3	1.1	1.3	1.5	2.3	1.4	0.9	0.9	0.8
AVG.	2.7	2.4	2.0	2.1	2.0	1.9	1.7	1.9	2.4	2.6	2.9	3.2	3.6	3.9	4.1	4.5	4.7	4.4	3.9	3.4	3.2	3.1	3.0	2.9

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Catalina Airport

ELEVATION : 1602 feet

PARAMETER : Mean Horizontal Wind Speed (meters per second)

LATITUDE : 33 degrees 24 minutes 00 seconds

LONGITUDE : 118 degrees 24 minutes 30 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5.4	5.5	6.0	5.8	4.8	4.5	4.8	4.3	4.5	2.9	2.4	3.2	3.6	2.7	1.9	3.2	4.1	4.3	4.4	5.1	5.4	5.4	5.0	4.8
2	5.1	4.6	5.0	5.6	4.1	3.4	3.2	2.5	2.8	3.2	3.3	3.3	3.1	3.9	4.5	3.8	3.4	3.6	3.4	4.0	4.5	4.4	5.2	4.4
3	3.4	2.4	2.7	3.0	3.0	2.3	2.1	3.1	2.6	3.4	3.0	2.6	3.1	3.6	4.0	4.1	4.2	3.7	3.6	3.9	2.9	1.5	2.0	1.2
4	1.0	2.0	1.5	1.4	1.7	2.4	1.1	0.8	1.4	1.6	2.2	2.4	2.8	2.3	2.6	2.7	2.6	3.4	2.8	2.7	3.6	3.5	2.0	0.8
5	1.4	1.5	1.2	1.2	1.0	1.8	2.4	2.9	1.5	1.4	2.2	1.6	2.2	2.6	2.0	1.4	1.4	1.9	1.7	3.8	3.2	3.0	2.6	2.2
6	1.6	1.9	2.0	1.6	2.7	2.5	2.5	1.6	1.6	1.6	1.6	1.7	2.2	1.9	2.9	3.2	2.6	3.3	3.5	3.6	3.2	2.6	2.6	2.8
7	2.5	2.7	1.8	1.1	1.7	1.8	1.7	0.8	1.9	2.9	2.4	2.7	2.7	3.3	3.6	3.5	3.9	4.5	4.7	4.8	4.1	3.3	2.6	2.1
8	3.0	2.5	1.8	0.6	1.3	0.6	0.4	0.8	1.6	2.6	3.0	3.3	2.9	2.6	2.4	3.0	1.6	2.1	2.9	2.9	2.6	2.0	1.5	1.5
9	2.8	2.0	2.4	2.1	1.2	1.0	1.1	1.0	1.6	1.2	2.1	2.9	3.2	4.4	4.4	3.7	4.1	4.1	4.9	5.3	5.3	4.2	3.9	3.8
10	3.5	3.3	2.6	2.7	2.0	1.8	3.0	3.0	2.7	1.4	1.8	2.0	2.5	3.0	4.2	2.9	2.9	3.8	3.3	1.9	2.4	1.6	1.9	1.7
11	2.1	1.7	1.2	0.7	1.3	0.8	1.0	0.6	1.0	1.7	1.6	2.2	2.9	3.1	3.5	4.3	4.3	4.7	4.0	5.3	5.3	5.5	4.5	4.1
12	3.7	3.9	3.9	3.8	3.0	2.8	1.5	0.6	0.7	1.1	1.4	1.7	2.2	2.5	3.3	3.5	3.9	5.0	5.8	6.6	6.5	6.4	5.0	3.4
13	2.9	1.9	2.3	2.6	2.2	2.3	1.8	1.7	2.7	2.5	2.5	2.8	2.5	2.5	3.2	2.2	2.2	4.6	6.0	6.6	5.4	3.6	3.6	2.6
14	1.5	1.5	1.0	1.6	0.7	0.6	1.1	1.0	1.1	1.2	2.0	1.7	1.3	1.7	2.0	1.9	1.4	1.4	1.7	2.7	2.6	2.2	2.0	1.9
15	1.3	2.5	2.4	2.8	2.4	1.4	0.6	1.2	1.2	1.3	1.1	2.0	1.9	2.4	2.5	2.8	3.0	2.2	2.2	1.4	1.2	2.2	2.6	1.6
16	2.4	2.4	2.4	2.8	2.2	3.0	4.6	3.6	2.3	1.5	1.4	1.6	2.2	2.3	2.2	2.0	2.0	0.9	0.8	1.0	1.3	1.3	1.1	2.2
17	1.0	1.5	2.1	1.1	1.5	1.8	1.1	1.2	1.3	2.0	2.2	2.7	2.6	3.4	3.7	3.1	3.3	3.2	2.5	2.4	2.7	2.1	1.0	1.4
18	1.3	0.9	1.2	1.0	1.9	2.5	2.7	1.8	1.0	1.9	1.9	2.2	2.2	2.1	1.9	1.9	1.3	0.9	2.0	2.6	2.0	1.8	1.7	1.7
19	1.7	2.0	2.0	2.6	2.4	2.8	1.5	1.3	1.3	1.6	1.7	2.0	2.9	2.7	2.9	2.7	1.9	1.5	0.7	0.6	1.3	1.5	1.7	1.8
20	1.4	1.8	1.8	1.0	1.3	1.9	1.3	0.7	0.8	1.9	2.4	2.5	3.0	3.4	3.6	2.9	2.8	2.8	3.0	2.9	1.2	0.9	0.7	1.1
21	1.7	2.1	3.8	2.7	2.0	1.7	2.0	1.8	1.3	1.1	1.4	2.5	2.3	2.4	3.4	3.1	2.3	0.7	1.5	0.9	1.4	2.0	1.5	1.8
22	3.7	2.6	1.4	1.4	2.0	1.9	1.6	0.7	0.9	1.6	2.1	2.5	2.5	2.9	3.9	3.7	3.2	3.5	4.1	2.7	2.4	3.1	4.0	2.4
23	3.4	5.0	2.0	2.9	1.3	1.0	1.0	0.8	1.2	1.9	2.3	3.7	4.7	3.5	1.6	4.6	2.5	3.7	3.6	2.9	3.3	1.7	1.5	1.7
24	2.4	2.4	2.5	1.8	1.9	1.9	2.0	1.3	1.4	1.5	3.1	3.2	2.9	3.9	4.2	5.0	4.1	4.0	3.9	3.9	3.5	3.0	2.3	3.2
25	3.0	1.6	2.1	2.0	1.5	1.8	1.4	1.4	1.8	2.2	1.9	2.1	2.6	2.5	2.3	1.6	1.4	1.7	1.7	1.8	2.3	1.9	1.2	1.4
26	1.4	3.0	2.0	2.3	2.5	2.1	2.5	2.6	2.2	2.5	3.0	2.5	2.1	3.1	2.7	2.3	2.3	2.0	2.3	2.1	1.5	1.9	2.2	2.5
27	2.8	2.3	2.6	2.9	2.9	3.4	2.6	2.7	3.5	2.8	1.8	3.0	2.9	2.4	2.2	2.1	2.2	1.7	1.7	1.8	1.7	1.4	1.1	1.1
28	1.0	1.3	1.1	1.3	1.4	2.0	2.5	2.8	2.9	3.1	3.0	3.4	3.3	4.3	4.8	4.3	4.7	5.5	4.7	2.6	1.8	2.5	2.3	1.3
29	1.7	1.3	0.9	1.9	2.3	1.3	1.2	0.8	1.1	1.5	1.7	1.9	2.1	2.5	2.6	3.3	3.1	2.7	3.0	3.0	2.9	2.1	2.2	2.3
30	2.2	1.9	1.9	2.4	1.5	2.2	2.5	1.8	2.0	1.7	1.4	1.9	2.2	2.2	2.5	3.2	3.3	3.6	3.9	5.1	6.0	5.3	4.7	4.1
AVG.	2.4	2.4	2.3	2.2	2.1	2.0	2.0	1.7	1.8	2.0	2.1	2.5	2.7	2.9	3.0	3.1	2.9	3.0	3.1	3.2	3.1	2.8	2.5	2.3

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Flash II Mountain

LATITUDE : 34 degrees 58 minutes 15 seconds

MONTH : September

ELEVATION : 3325 feet

LONGITUDE : 117 degrees 02 minutes 22 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.1	4.5	2.9	3.3	4.2	3.3	3.3	3.0	3.0	3.1	1.9	2.3	3.4	3.1	2.5	6.3	10.0	8.8	6.3	2.2	3.7	3.9	3.4	3.5
2	3.6	3.6	3.1	2.6	2.6	3.1	3.2	2.0	1.2	1.8	2.5	3.3	4.6	3.5	5.0	4.1	5.7	5.4	3.1	2.7	4.3	5.2	3.9	2.9
3	3.2	3.6	4.1	3.0	2.9	3.6	3.1	3.3	2.8	2.9	2.8	2.1	2.6	2.8	2.6	2.9	5.1	7.2	7.8	5.9	5.5	5.8	6.4	5.7
4	4.9	3.8	3.9	3.8	3.9	4.0	4.3	3.3	2.6	3.0	3.0	2.5	2.9	5.2	6.5	6.2	7.5	7.9	7.0	6.9	4.2	3.8	3.9	3.7
5	5.5	4.3	4.7	5.8	5.3	4.8	3.4	1.5	3.5	2.7	2.2	2.0	2.9	3.7	3.5	3.5	3.9	4.0	7.3	7.0	6.8	8.1	5.3	4.8
6	3.9	3.7	3.8	3.5	5.1	4.5	3.0	3.2	3.0	3.4	3.8	2.9	3.2	3.7	4.5	5.6	7.2	7.7	7.3	8.2	5.9	6.8	7.1	6.6
7	6.8	6.6	6.6	4.0	3.7	1.8	2.5	3.0	2.9	2.9	4.3	5.6	6.5	6.3	7.4	7.9	8.3	8.5	10.7	8.8	8.9	8.3	7.4	7.7
8	7.8	8.0	7.1	5.4	3.1	4.5	5.8	4.5	5.1	5.4	5.7	7.2	8.2	8.6	8.9	10.1	11.1	11.8	9.1	9.0	9.9	10.5	9.3	7.7
9	6.8	7.2	7.4	7.4	7.7	5.9	4.3	5.0	3.8	4.6	3.8	4.5	5.8	6.1	5.7	6.7	8.2	8.5	9.6	7.6	7.4	5.7	4.8	4.1
10	4.3	3.9	4.0	4.1	4.0	4.0	4.4	4.3	3.8	2.6	2.3	2.3	2.9	3.2	3.0	2.1	3.5	4.3	4.0	4.1	5.2	3.2	3.7	3.7
11	3.6	3.9	5.3	5.5	5.7	4.4	3.8	3.6	3.1	2.1	2.2	2.6	3.2	3.1	3.0	2.8	2.9	2.5	3.0	4.1	3.5	3.9	4.6	4.8
12	5.9	5.9	5.7	5.8	6.1	5.9	6.2	5.1	2.8	3.0	3.2	2.6	3.0	3.2	3.3	3.7	4.5	2.8	2.7	3.6	4.0	6.8	7.2	6.6
13	7.1	7.1	7.3	6.3	6.6	6.1	4.7	3.5	2.7	2.1	1.3	2.0	2.2	3.5	3.7	3.0	3.0	2.9	2.0	0.8	0.8	1.7	1.7	3.1
14	4.1	3.0	3.0	2.0	2.5	2.4	3.3	2.8	2.0	2.4	3.3	2.9	3.9	3.8	3.9	5.0	5.7	6.5	6.3	4.5	2.4	3.2	4.7	4.9
15	2.7	3.0	3.7	4.4	3.7	3.7	3.5	2.4	3.0	2.3	2.0	1.8	2.1	2.9	2.3	2.7	2.8	1.3	3.0	4.0	5.2	6.3	6.4	5.2
16	4.7	4.2	5.3	5.5	4.6	3.8	5.5	4.0	2.8	2.9	4.3	3.8	3.9	6.8	7.3	8.2	10.2	10.3	10.5	8.2	5.3	6.4	6.2	4.5
17	4.8	4.0	3.9	4.8	4.4	4.3	4.5	4.0	2.9	3.3	4.3	5.6	7.5	7.4	6.7	6.8	7.4	7.6	6.8	6.6	6.2	5.8	5.2	7.2
18	6.0	4.7	4.2	4.6	3.7	4.2	3.5	3.6	3.1	1.9	1.9	2.0	3.9	4.2	4.1	3.2	3.1	3.6	3.4	1.9	1.6	1.4	3.2	4.0
19	4.5	4.5	4.8	4.2	4.0	4.0	3.7	3.5	2.4	1.8	1.7	1.9	1.9	3.1	1.7	2.3	2.9	3.1	2.3	3.1	5.2	6.3	5.3	4.8
20	5.4	6.1	5.5	5.0	5.2	5.9	6.1	5.8	4.8	4.7	3.8	4.0	3.9	5.2	4.4	5.2	8.0	11.8	7.8	7.6	10.1	10.5	9.1	7.5
21	6.5	5.7	5.1	5.3	5.1	4.4	3.3	2.7	2.1	2.8	4.4	4.5	4.3	4.2	4.1	4.2	4.5	5.1	4.6	4.5	3.8	1.9	3.8	4.2
22	4.3	4.8	5.1	4.8	4.2	2.6	2.4	2.2	2.5	1.9	2.4	2.6	3.1	3.8	4.0	6.9	5.3	8.8	9.7	7.4	6.5	5.5	5.0	6.1
23	5.1	5.7	6.4	7.4	6.9	6.7	7.5	6.1	5.1	6.0	6.5	7.0	6.6	10.8	12.4	11.3	10.7	10.3	9.2	10.1	11.6	11.3	9.5	8.3
24	8.6	7.9	7.4	7.6	5.6	4.3	4.2	4.0	4.7	3.8	4.1	3.6	4.3	3.5	3.8	6.3	8.6	8.0	7.2	7.2	7.4	7.1	6.9	7.1
25	7.5	6.9	6.5	5.4	6.6	7.6	6.9	7.6	7.6	7.2	7.6	8.7	8.8	9.9	9.5	10.6	9.6	9.7	8.4	8.4	10.2	10.5	10.1	9.4
26	9.1	11.2	9.8	8.0	7.6	7.8	6.5	6.5	5.9	6.8	6.8	6.6	6.4	6.6	6.9	7.9	8.1	8.1	7.9	7.3	6.4	5.3	4.5	3.9
27	4.1	4.3	7.6	7.7	6.7	6.0	5.6	3.9	3.8	3.4	4.5	5.1	5.8	5.4	5.7	6.4	7.0	8.9	9.7	8.8	8.8	7.2	6.2	6.3
28	5.9	7.0	6.2	5.7	6.9	8.1	7.5	7.7	11.9	11.3	11.0	10.7	10.1	10.1	11.7	11.8	11.3	13.2	13.8	12.2	12.7	13.6	12.6	12.4
29	12.1	11.8	10.7	9.6	8.8	8.9	7.4	6.1	4.9	3.8	3.1	2.5	2.8	2.2	2.4	1.9	2.7	1.7	1.4	2.0	2.0	2.6	3.3	2.8
30	2.8	3.7	2.4	1.8	2.1	2.3	2.1	3.6	3.0	3.8	3.8	2.8	2.0	1.7	2.2	2.0	3.0	1.9	1.4	1.0	2.2	2.1	1.8	2.3
AVG.	5.5	5.5	5.4	5.1	5.0	4.8	4.5	4.1	3.8	3.7	3.8	3.9	4.4	4.9	5.1	5.6	6.4	6.7	6.4	5.9	5.9	6.0	5.8	5.5

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Ludlow
ELEVATION : 1782 feet
PARAMETER : Mean Horizontal Wind Speed (meters per second)

LATITUDE : 34 degrees 42 minutes 36 seconds
LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5.2	4.3	3.9	4.9	4.4	3.7	4.5	4.4	3.8	1.7	5.9	4.4	5.2	4.6	4.3	3.5	3.5	4.5	6.9	2.5	3.4	3.3	3.0	1.9
2	1.8	2.5	2.6	3.5	3.3	2.4	2.2	1.8	1.4	1.1	3.1	3.7	6.6	5.8	4.4	5.0	5.8	4.2	4.7	4.6	2.1	1.8	2.9	2.4
3	2.5	3.7	3.9	4.1	4.2	3.4	4.3	4.7	3.6	1.4	1.5	1.6	2.9	3.1	3.5	4.4	4.0	4.4	4.2	3.4	4.2	3.6	2.8	2.8
4	2.4	2.1	5.1	4.8	4.6	4.0	4.0	3.5	1.5	1.2	1.7	2.7	3.4	5.7	4.5	4.2	4.4	4.9	4.7	3.3	5.8	5.0	2.5	4.2
5	2.8	3.9	4.9	4.1	4.6	5.2	3.9	3.3	1.4	4.4	5.5	6.6	6.5	6.6	8.6	7.3	6.6	4.2	3.3	1.4	1.8	1.1	1.0	1.3
6	2.3	3.2	3.3	4.2	3.7	3.7	3.0	4.3	4.6	2.8	1.4	1.5	2.0	1.7	2.2	2.9	2.1	2.0	2.7	6.0	7.8	7.7	5.2	3.6
7	1.6	1.4	2.2	3.3	6.5	7.4	6.6	5.0	3.1	1.7	2.4	2.9	2.9	3.4	3.5	2.6	3.5	5.6	4.3	2.2	3.9	5.2	6.3	5.7
8	2.6	2.4	2.4	1.0	2.1	3.8	3.5	4.2	4.5	2.9	2.4	2.7	2.6	2.4	4.4	5.8	6.7	7.0	5.3	4.3	1.9	3.5	2.7	2.2
9	2.3	1.3	2.1	3.2	3.6	3.6	4.2	4.4	3.5	1.3	1.5	1.8	1.8	2.0	2.6	3.1	3.5	3.5	2.9	3.4	2.1	2.2	3.8	4.3
10	3.6	4.2	4.0	3.6	3.6	3.6	3.9	4.0	3.0	1.9	1.6	1.3	1.8	1.7	2.1	2.4	2.5	2.6	1.9	1.0	2.7	1.9	2.0	3.4
11	6.1	5.1	4.7	4.2	4.6	4.1	3.7	4.8	4.1	2.0	1.5	1.8	1.9	1.9	3.0	3.7	3.3	4.0	2.1	1.6	2.8	1.1	2.5	3.1
12	4.6	5.5	4.7	4.2	4.1	4.0	4.2	4.8	3.7	2.3	2.1	3.5	4.1	4.7	5.5	5.5	4.3	3.4	2.1	1.5	2.5	2.2	3.9	4.6
13	6.3	5.4	4.9	6.1	5.7	4.4	5.1	4.7	1.7	2.0	2.7	3.3	2.7	2.3	1.9	2.0	1.8	1.8	1.8	2.9	3.3	2.3	2.6	2.0
14	2.3	1.9	1.2	2.4	2.1	2.5	2.2	1.3	3.7	5.2	4.5	4.5	5.8	5.5	3.9	2.6	2.5	3.0	3.4	4.3	4.3	2.0	1.6	0.7
15	2.4	2.5	1.7	1.1	2.6	2.1	0.5	1.2	2.6	4.9	4.7	2.8	1.8	2.2	2.8	3.3	2.7	3.6	3.2	3.3	3.3	4.2	3.6	3.2
16	2.3	1.8	2.4	2.2	2.8	5.0	5.9	5.9	6.5	6.0	6.0	4.9	4.2	4.3	6.6	9.7	4.4	4.8	5.0	4.7	4.8	5.0	4.5	4.2
17	3.9	3.4	3.8	3.4	3.5	1.8	1.8	1.3	3.4	3.0	1.7	1.5	2.2	1.4	1.6	2.8	3.5	3.1	3.5	4.0	4.4	3.2	4.7	5.8
18	5.6	4.6	5.0	5.6	5.2	4.6	4.8	2.5	1.3	2.2	4.2	3.4	2.0	2.0	1.7	2.0	3.0	2.5	1.5	2.4	2.8	3.3	2.1	2.0
19	2.6	4.5	3.3	3.6	4.2	3.5	2.9	3.8	3.5	3.4	1.4	1.5	1.8	2.6	2.2	2.2	0.8	0.5	1.7	2.9	4.2	1.9	2.7	3.4
20	2.8	2.9	3.2	3.4	3.2	2.8	2.4	0.9	1.3	0.7	1.4	1.6	2.6	2.4	2.5	2.6	1.6	2.1	4.1	4.9	5.4	6.8	5.2	3.2
21	2.8	1.6	3.6	4.4	4.5	2.3	2.0	2.8	1.8	2.1	2.8	2.1	2.9	2.8	2.3	3.5	4.0	3.3	2.0	1.7	2.0	1.8	1.6	1.8
22	1.4	1.0	1.0	0.8	2.4	1.5	1.9	1.2	1.0	1.4	3.2	3.5	3.4	3.9	4.0	4.0	4.4	5.0	5.5	4.5	5.5	5.9	6.5	5.5
23	4.9	4.0	3.3	4.0	4.0	4.2	2.8	3.1	3.6	6.4	5.4	6.8	6.7	6.8	7.6	8.3	8.7	8.8	9.2	8.6	7.7	9.0	8.8	3.2
24	2.0	3.7	3.0	3.5	3.6	2.1	4.4	3.8	5.2	6.9	6.5	4.9	3.6	1.7	1.7	2.1	2.3	2.3	3.7	8.2	6.3	5.4	3.5	2.5
25	2.3	2.1	2.4	2.6	3.0	1.9	2.6	2.3	0.6	1.0	1.5	1.5	2.1	2.4	2.8	3.0	4.5	5.3	6.7	6.7	4.3	4.5	2.7	2.0
26	0.9	1.7	1.6	1.5	1.2	3.0	4.0	3.0	1.8	1.2	1.0	1.3	1.6	2.3	3.1	4.2	4.4	2.7	4.3	3.3	2.7	4.3	5.1	3.3
27	2.6	3.9	3.6	3.1	3.1	2.0	2.6	3.0	1.2	1.3	1.4	1.5	1.8	3.1	3.1	3.5	3.2	2.5	3.0	2.9	5.5	4.9	3.7	3.5
28	3.4	2.6	2.2	2.5	1.9	0.7	1.2	4.0	4.2	1.9	1.4	1.7	1.9	1.9	1.9	3.4	6.4	9.3	8.2	7.3	9.9	10.7	8.9	4.9
29	4.8	6.0	4.6	9.8	8.6	9.4	8.8	9.1	7.6	4.1	4.1	6.3	5.9	5.7	4.9	4.1	4.3	3.7	2.7	2.4	1.4	2.5	2.6	2.2
30	2.4	1.8	2.7	2.1	2.6	1.6	0.5	0.8	2.1	3.3	3.3	3.7	4.3	4.6	[PA]	[PA]	4.3	3.2	1.4	0.9	2.4	2.4	1.7	1.7
AVG.	3.1	3.2	3.2	3.6	3.8	3.5	3.5	3.5	3.0	2.7	2.9	3.0	3.3	3.4	3.6	3.9	3.9	3.9	3.9	3.7	4.0	4.0	3.7	3.2

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Palmdale

LATITUDE : 34 degrees 33 minutes 26 seconds

MONTH : September

ELEVATION : 2760 feet

LONGITUDE : 118 degrees 06 minutes 46 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.6	3.9	3.5	1.6	0.7	1.1	0.8	1.2	1.3	1.5	3.3	4.4	4.8	5.4	5.8	6.0	6.8	7.3	7.3	4.4	1.4	1.2	0.5	1.9
2	2.5	2.1	2.2	1.7	1.3	1.3	0.8	1.4	1.6	2.0	2.1	2.0	1.7	2.4	6.4	7.2	6.6	5.6	4.7	5.2	2.8	1.4	2.2	2.1
3	2.2	2.7	1.7	0.6	0.7	1.0	0.5	1.0	1.4	1.4	2.0	1.8	2.8	5.6	7.0	8.5	9.3	8.6	6.5	2.8	2.3	2.1	1.2	2.4
4	2.2	2.1	1.5	1.6	1.9	1.3	0.8	1.9	2.7	2.8	4.1	4.8	5.2	5.8	6.7	6.7	5.0	4.6	4.6	3.7	3.5	2.3	0.8	1.0
5	0.9	1.5	2.4	1.5	1.3	1.6	1.0	0.7	1.8	1.6	1.5	1.3	1.7	2.6	5.5	5.8	5.6	5.1	7.0	7.9	4.6	1.4	1.2	1.9
6	2.4	3.7	4.0	3.7	2.5	2.0	0.9	1.5	3.7	5.7	7.5	8.4	9.1	9.4	9.1	9.3	9.1	8.9	7.3	4.2	3.6	4.4	4.3	1.6
7	3.2	5.5	3.6	1.6	0.9	1.0	1.3	2.3	2.3	6.5	7.5	8.8	8.9	9.3	9.4	9.4	8.5	6.6	8.7	10.8	4.9	6.5	4.5	2.2
8	1.9	4.4	2.5	1.4	3.4	3.1	3.9	3.3	5.6	10.5	10.9	10.1	7.1	8.9	7.3	6.9	9.1	9.2	7.2	6.7	6.3	6.6	5.7	3.4
9	7.8	5.9	4.0	2.3	2.4	1.1	4.9	8.2	8.3	9.6	9.4	8.7	9.3	10.5	10.9	10.0	10.1	8.8	8.2	6.1	5.4	5.7	2.8	1.3
10	1.3	1.1	1.5	1.7	1.8	3.0	4.1	1.4	1.5	1.3	4.8	6.8	6.9	6.2	6.2	8.6	8.1	7.0	7.1	7.5	6.4	3.5	1.6	1.7
11	2.8	1.0	1.2	1.9	2.2	2.6	1.5	1.2	1.5	1.2	1.5	1.6	1.6	2.0	2.0	2.2	4.8	5.2	4.4	1.5	1.3	1.5	1.8	2.0
12	2.0	2.4	2.1	2.6	2.6	2.5	1.8	1.0	1.0	1.6	1.7	2.3	2.5	3.6	4.2	5.3	6.2	4.5	3.1	0.9	2.6	2.6	2.6	1.2
13	1.4	1.2	2.3	1.9	2.3	2.5	1.5	0.7	1.3	1.4	2.3	2.4	2.5	2.9	3.3	2.8	2.9	1.9	2.5	2.8	1.5	1.9	2.0	1.6
14	2.2	2.2	2.6	2.3	2.1	2.2	1.7	0.7	1.3	1.6	1.5	1.8	2.1	1.7	3.3	2.7	6.6	6.8	6.6	5.9	2.4	1.5	2.9	2.7
15	2.8	2.8	2.8	2.3	2.0	1.7	1.7	1.0	1.1	1.4	2.6	3.0	2.2	5.6	5.7	5.8	7.2	7.7	8.3	7.1	0.8	2.1	2.7	1.5
16	1.9	2.4	1.7	1.0	0.9	3.6	5.8	5.9	6.5	6.1	6.1	6.1	5.9	6.6	6.8	6.5	5.6	5.2	4.9	3.5	2.4	1.5	2.1	4.3
17	3.0	1.4	1.8	1.4	1.8	1.2	1.0	1.2	1.5	3.0	4.2	6.8	6.8	6.7	6.4	6.4	6.0	4.8	3.8	3.6	1.5	2.2	1.9	2.3
18	2.4	2.2	2.7	3.0	2.9	2.9	2.0	0.7	1.1	1.7	2.3	3.3	2.8	3.6	3.9	2.5	3.1	3.1	3.6	3.5	2.8	2.3	2.5	2.7
19	2.8	2.8	2.9	2.9	2.8	2.8	1.6	1.3	1.1	1.6	2.2	2.3	1.7	2.4	2.1	5.7	6.8	7.0	7.1	6.3	5.1	1.9	3.0	4.9
20	3.0	2.8	2.9	3.3	1.9	1.9	1.7	2.3	2.6	4.3	4.0	4.6	6.2	6.9	7.1	7.0	7.3	6.1	5.4	4.7	4.2	3.8	3.6	4.0
21	3.2	4.3	3.1	2.6	2.4	2.1	2.0	1.1	1.4	2.5	3.2	3.6	3.0	2.6	2.1	2.0	5.1	4.7	7.0	2.9	1.4	2.4	2.1	2.2
22	1.4	1.4	2.2	0.4	0.9	0.9	0.6	1.5	1.0	1.2	3.0	6.3	6.6	7.7	8.4	8.2	8.0	4.9	6.5	4.7	3.4	3.5	3.8	3.6
23	3.8	3.0	3.5	4.5	3.8	3.1	1.0	1.9	5.1	5.1	5.7	6.1	5.1	6.6	6.7	6.0	5.1	4.3	5.1	4.1	2.9	3.6	3.6	4.1
24	2.9	4.2	4.3	2.1	1.9	2.1	1.2	1.6	1.6	3.6	3.6	2.7	4.7	6.4	7.9	7.8	7.1	6.4	4.7	4.1	2.7	1.2	2.8	2.5
25	1.9	2.1	3.0	2.5	1.0	2.5	1.9	3.8	5.0	5.8	6.4	7.8	8.8	8.8	8.9	6.8	6.6	5.8	3.5	4.3	3.8	1.8	1.7	2.9
26	2.4	2.2	1.4	1.1	1.2	2.9	2.4	2.1	3.4	4.9	5.5	7.5	9.0	8.5	7.7	7.9	8.3	9.4	9.3	3.5	2.3	1.8	1.4	1.2
27	1.1	1.0	1.2	1.8	2.2	1.6	1.2	0.9	0.9	3.5	3.6	4.9	6.1	6.1	6.7	8.2	7.3	5.0	3.7	3.8	2.5	1.5	3.1	5.7
28	4.9	4.2	4.8	4.1	5.7	5.7	5.7	6.8	6.6	6.8	6.8	8.6	9.9	9.7	8.3	9.1	8.6	7.7	5.9	6.3	6.7	6.4	7.9	4.9
29	5.2	3.5	2.7	4.2	1.4	3.5	2.4	2.4	1.3	2.0	2.6	[PA]	[PA]	2.4	2.2	2.9	5.5	4.2	2.9	2.2	0.9	1.7	2.0	2.1
30	2.2	2.1	1.9	1.2	1.8	2.1	1.0	1.0	1.0	2.0	2.5	2.3	1.9	1.8	1.6	2.1	2.5	2.0	2.2	2.5	2.3	2.1	2.4	2.0
AVG.	2.7	2.7	2.6	2.2	2.0	2.2	2.0	2.1	2.5	3.5	4.1	4.9	5.1	5.6	6.0	6.2	6.6	5.9	5.6	4.6	3.2	2.7	2.7	2.6

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Quartzite Mountain

LATITUDE : 34 degrees 36 minutes 38 seconds

MONTH : September

ELEVATION : 4482 feet

LONGITUDE : 117 degrees 17 minutes 20 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	3.1	4.0	3.7	3.8	4.6	3.4	2.8	1.5	1.3	1.1	1.5	2.8	4.2	6.1	11.2	10.7	8.3	4.7	2.0	3.4	3.5	3.0	4.7	3.8
2	4.2	3.8	2.5	2.2	1.3	1.1	1.6	2.8	1.5	2.0	3.2	4.5	6.6	8.6	10.3	11.7	8.3	6.8	6.4	6.7	6.1	3.9	3.5	3.0
3	2.6	2.4	2.2	2.1	1.9	2.2	1.7	1.7	1.6	2.2	2.0	2.8	5.7	9.2	9.5	8.8	8.7	7.5	4.7	2.7	3.3	5.0	5.9	3.8
4	4.6	4.3	4.5	4.1	4.7	3.3	3.1	3.5	3.4	4.6	6.2	7.7	9.8	10.7	11.2	10.4	8.7	6.8	5.1	4.9	4.0	4.5	4.4	6.4
5	7.2	5.5	4.2	3.5	2.7	2.5	3.9	7.3	5.3	4.7	4.6	3.7	7.9	8.8	9.4	10.0	10.8	9.4	9.2	9.5	9.8	9.3	8.6	6.7
6	7.3	7.6	6.7	4.8	4.1	4.2	3.3	3.4	2.9	2.1	1.1	1.8	2.5	5.0	7.5	7.4	6.7	4.5	5.2	4.8	5.2	5.5	5.8	5.9
7	6.6	6.9	5.9	4.2	3.4	4.2	3.5	2.9	1.9	2.9	2.6	3.0	3.4	6.7	7.8	8.4	7.7	8.1	6.9	5.7	5.0	5.8	5.8	5.3
8	4.0	4.2	3.9	3.5	3.6	5.3	4.2	2.3	3.3	5.1	5.3	7.9	8.7	9.9	10.3	9.8	9.2	9.3	8.3	7.6	8.3	8.1	8.0	6.8
9	7.3	6.5	8.1	8.0	8.2	7.6	6.3	5.2	5.7	4.7	4.6	4.6	6.8	7.0	8.9	10.5	9.5	9.0	8.8	8.2	9.0	8.2	7.4	7.1
10	8.7	9.3	8.5	8.5	6.9	7.3	6.7	5.6	5.1	4.1	2.4	3.7	3.4	4.7	6.4	7.3	6.6	5.8	6.3	6.6	6.2	6.5	6.9	5.2
11	3.5	3.5	3.3	3.0	2.0	1.0	1.1	2.4	2.1	1.5	1.9	2.0	2.6	3.4	4.4	4.8	5.2	6.0	4.7	5.2	5.2	6.0	4.3	3.3
12	3.5	3.6	4.1	4.6	5.0	4.6	3.2	2.8	1.8	1.5	2.5	3.5	4.8	3.4	4.2	5.1	5.0	5.9	3.1	5.1	5.7	6.3	5.1	4.5
13	4.2	3.9	4.2	4.2	3.0	2.3	0.8	1.0	0.7	1.8	2.7	4.0	3.9	3.9	3.4	4.4	4.2	4.6	4.9	3.0	4.8	5.1	4.9	3.8
14	2.9	2.3	1.7	1.4	2.3	2.7	2.4	2.6	1.1	2.6	3.3	2.5	3.3	3.8	3.7	4.6	4.8	6.2	5.8	4.9	2.7	2.6	1.8	2.3
15	3.4	2.9	1.5	2.0	2.3	1.9	0.9	1.1	2.1	2.4	1.7	2.3	4.3	4.2	5.1	3.6	5.8	4.9	5.6	3.8	4.9	4.4	3.9	4.5
16	4.6	4.7	5.8	5.9	5.9	5.6	4.1	3.9	1.8	2.7	3.0	4.0	2.7	4.2	4.3	6.2	6.0	5.4	5.4	6.2	6.4	6.0	5.2	4.0
17	4.0	3.5	3.9	6.1	6.8	7.1	7.0	6.5	5.3	4.5	3.2	3.5	5.1	8.6	8.9	9.3	8.2	5.6	6.7	6.0	5.7	4.9	5.4	4.9
18	5.5	5.3	6.0	3.7	2.4	0.7	1.4	2.5	2.6	1.6	3.0	3.4	3.4	4.2	3.6	4.9	4.9	4.5	2.1	2.4	2.0	2.2	2.7	3.7
19	3.7	3.9	3.7	2.6	2.8	2.2	1.9	1.4	1.0	1.1	2.3	3.7	3.4	3.0	3.1	3.1	4.0	3.6	5.5	4.1	3.1	1.7	2.8	3.4
20	5.7	5.4	5.9	6.3	6.7	6.1	5.9	4.9	4.4	4.1	4.2	4.7	4.0	4.5	6.4	8.3	5.8	6.2	6.7	6.8	7.0	8.3	8.9	8.3
21	7.2	7.3	6.1	5.8	5.4	4.2	5.0	3.8	2.7	1.3	1.8	2.2	2.9	2.3	2.3	3.6	4.6	4.7	4.8	6.9	6.0	4.6	4.1	4.4
22	5.4	5.2	5.8	5.6	5.2	4.8	3.6	1.5	1.2	0.9	1.4	2.9	3.1	4.9	7.6	8.2	6.1	4.7	4.9	6.6	7.1	6.9	6.4	6.8
23	6.9	6.6	6.7	7.1	6.4	7.1	7.1	7.2	5.7	6.5	6.5	6.6	7.3	9.3	8.2	8.1	6.9	5.9	5.9	7.0	7.1	6.6	7.6	7.6
24	8.3	9.0	8.9	7.7	7.5	7.4	7.2	6.6	5.3	4.1	4.2	3.3	3.4	3.7	4.4	6.2	7.7	5.2	5.1	6.5	7.3	7.3	6.1	5.2
25	5.4	5.5	5.8	5.8	6.2	6.5	6.6	6.4	6.6	7.5	6.6	6.9	6.8	7.5	8.9	7.6	6.7	7.5	8.9	9.2	8.6	6.4	6.7	6.9
26	8.9	8.4	6.7	8.0	7.2	7.0	8.1	6.4	5.8	5.7	6.7	7.7	8.1	9.6	10.7	11.3	10.3	8.3	7.8	7.7	9.2	10.3	9.7	9.9
27	11.2	9.7	8.9	9.1	8.2	8.3	10.4	10.3	8.9	7.3	5.4	6.9	7.6	8.8	8.9	9.7	9.0	7.8	7.2	7.3	5.8	6.3	6.3	5.5
28	5.3	6.0	6.3	6.7	7.3	7.3	8.4	9.1	7.5	7.7	7.9	7.9	8.6	8.2	8.3	9.3	8.6	9.3	9.6	10.2	10.7	10.2	11.3	10.9
29	11.2	11.6	9.6	8.6	7.3	6.6	6.2	5.2	3.7	2.6	2.9	4.2	4.1	4.0	3.9	4.3	5.3	4.3	3.7	3.5	4.8	4.5	3.9	3.3
30	2.3	3.4	3.8	4.3	4.6	4.7	3.5	[PA]	3.0	1.3	1.6	2.4	3.2	3.6	5.0	4.4	4.6	4.4	3.6	3.6	2.2	1.6	2.0	2.5
AVG.	5.6	5.5	5.3	5.1	4.9	4.6	4.4	4.2	3.5	3.4	3.5	4.2	5.1	6.1	6.9	7.4	6.9	6.2	5.8	5.9	5.9	5.7	5.7	5.3

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Shadow Mountain

LATITUDE : 34 degrees 44 minutes 15 seconds

MONTH : September

ELEVATION : 4120 feet

LONGITUDE : 117 degrees 33 minutes 54 seconds

YEAR : 1995

PARAMETER : Mean Horizontal Wind Speed (meters per second)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	7.0	6.9	7.7	7.3	6.9	7.2	5.2	3.5	2.4	1.9	2.1	2.2	3.5	3.9	8.0	16.5	11.3	11.4	7.5	3.9	2.8	1.6	3.7	3.7
2	2.8	3.6	1.8	1.2	1.9	1.2	1.4	1.3	1.9	1.6	2.0	2.6	2.3	3.4	4.4	6.4	12.2	8.0	5.4	5.6	6.5	6.9	6.3	6.0
3	5.7	5.5	4.9	4.1	2.8	3.0	1.5	1.2	1.6	2.2	2.0	2.6	3.2	2.9	2.1	1.9	7.6	10.6	9.1	7.9	7.4	7.8	7.9	8.4
4	7.3	8.0	7.9	8.0	9.8	8.8	6.6	4.8	4.2	2.6	2.3	3.5	4.7	5.0	5.5	9.6	9.8	9.4	7.7	7.4	8.0	8.3	8.1	8.0
5	7.6	7.5	7.6	7.1	6.3	4.0	2.5	1.5	2.2	2.0	1.8	2.0	2.1	2.6	4.0	5.8	6.6	9.3	8.0	6.1	4.6	4.8	6.1	5.4
6	5.8	6.9	7.1	6.4	5.4	5.2	3.9	1.3	1.4	3.3	3.8	4.4	5.3	6.7	8.4	10.6	11.3	11.8	11.1	10.5	10.9	11.7	11.1	10.6
7	10.3	10.3	10.0	8.9	8.6	7.5	5.5	3.8	3.9	4.9	6.6	7.6	8.2	8.3	10.1	11.7	13.4	13.5	11.5	11.2	12.4	12.3	11.3	11.5
8	11.0	11.0	11.2	9.8	10.0	10.3	9.7	8.6	8.7	9.3	9.0	10.6	10.9	11.9	12.7	12.8	12.7	11.4	10.3	11.0	11.9	11.8	11.7	12.0
9	11.8	11.2	10.2	10.8	11.6	10.9	10.3	8.7	6.8	8.1	8.1	7.3	6.0	5.7	7.8	9.1	10.5	11.0	10.3	10.2	8.5	7.1	6.6	7.3
10	7.4	7.4	6.9	6.8	6.0	4.1	1.5	1.1	1.4	1.4	1.6	2.8	3.7	4.0	4.3	5.8	8.5	8.3	8.2	8.7	7.8	8.4	8.3	6.8
11	6.8	6.7	6.8	6.9	5.8	4.7	5.5	4.1	2.8	2.3	2.3	2.8	3.8	4.1	3.8	4.2	3.7	4.6	6.1	7.3	6.9	6.5	6.5	6.7
12	6.9	7.2	6.8	7.1	7.0	7.3	6.4	5.4	4.3	3.7	3.2	4.6	5.5	5.2	4.9	3.7	4.5	6.4	8.2	8.4	8.7	8.4	9.1	8.4
13	8.1	7.0	5.7	6.2	6.4	4.8	4.2	2.9	1.5	2.2	2.2	2.3	3.6	3.5	4.5	3.5	4.6	4.5	4.6	4.0	5.2	4.4	3.7	3.6
14	2.8	2.6	1.2	1.0	2.1	2.7	2.6	1.6	1.4	2.2	4.2	4.4	4.9	2.5	3.5	2.4	2.1	2.9	8.0	6.6	6.5	5.5	5.3	5.4
15	5.4	5.5	5.2	4.7	3.8	3.3	1.7	0.7	1.0	1.7	2.3	4.9	3.5	3.5	2.0	3.2	6.4	12.2	10.3	10.1	10.1	9.0	8.8	8.5
16	8.1	8.2	8.6	7.8	8.4	9.0	8.4	7.8	7.3	7.2	7.6	8.2	9.7	11.6	13.6	15.0	14.6	12.0	10.5	10.4	9.5	9.9	8.4	7.2
17	6.3	6.5	6.8	6.1	5.6	5.0	4.8	4.9	3.6	4.4	6.2	8.6	9.9	9.8	8.9	9.3	10.5	10.5	10.4	11.1	11.6	10.5	9.9	8.3
18	8.4	8.6	6.0	3.0	3.0	2.7	2.0	1.5	1.5	3.0	4.6	4.9	4.7	3.5	4.5	4.1	2.8	4.0	4.6	5.2	4.6	5.5	4.5	3.7
19	4.8	4.3	1.9	2.2	3.3	3.1	2.5	1.5	2.1	1.9	1.8	1.8	3.2	3.1	2.1	2.1	2.9	4.0	7.0	9.3	9.3	9.7	9.6	9.3
20	9.0	9.1	8.4	8.6	8.2	8.5	8.5	7.9	7.6	7.5	7.8	6.7	6.7	6.2	8.7	10.9	12.6	11.6	10.0	10.9	10.6	10.5	10.7	10.3
21	10.4	10.1	9.5	8.6	7.9	7.2	5.2	3.6	3.0	5.0	6.5	5.2	4.9	3.6	2.7	2.6	4.1	5.4	5.1	7.4	7.8	7.2	6.9	6.5
22	6.2	6.1	6.1	5.3	4.7	4.9	4.6	4.2	3.3	2.0	2.8	3.6	4.8	5.1	6.6	8.0	11.3	10.7	10.7	10.0	9.2	9.0	9.6	10.9
23	11.3	11.5	11.0	9.0	8.8	9.1	9.7	10.1	10.5	12.9	12.9	10.8	13.0	15.4	14.2	14.4	14.0	13.2	12.8	12.6	12.4	11.7	11.1	12.0
24	11.4	11.2	12.5	10.7	10.5	9.7	9.7	8.4	9.1	8.4	7.5	7.8	7.2	6.9	9.0	10.9	12.8	12.4	11.9	9.8	9.9	9.6	10.1	8.7
25	9.4	9.9	9.5	10.4	9.9	10.3	9.7	8.4	9.0	10.1	10.6	11.2	11.7	13.0	13.2	12.7	13.1	12.4	11.1	10.5	10.0	11.2	11.6	11.0
26	8.7	8.3	9.1	10.4	9.7	9.9	9.6	6.5	5.0	5.6	5.9	6.3	7.0	8.0	8.1	9.3	9.4	7.8	6.3	5.2	6.6	7.6	7.7	6.9
27	7.4	7.1	7.9	7.9	9.0	8.9	7.7	6.7	6.3	5.9	4.7	5.1	6.4	5.6	6.1	9.1	10.6	10.7	10.0	9.9	10.3	9.0	10.5	9.9
28	10.9	12.5	12.2	12.4	13.0	13.7	12.3	13.2	11.5	11.1	11.8	12.0	13.2	13.8	13.4	15.0	14.6	13.9	14.3	15.0	13.6	12.6	13.3	14.4
29	16.9	17.3	15.0	15.1	13.2	11.4	9.6	7.8	6.5	4.4	2.8	2.0	2.1	1.6	2.3	2.6	1.7	1.1	4.7	5.2	4.2	3.1	3.2	2.8
30	2.7	3.7	6.2	4.9	6.5	6.8	7.3	7.4	6.2	5.8	[PA]	3.6	2.8	2.1	2.4	2.2	1.9	1.7	3.3	5.1	4.9	3.9	5.2	5.3
AVG.	8.0	8.1	7.7	7.3	7.2	6.8	6.0	5.0	4.6	4.8	5.1	5.4	5.9	6.1	6.7	7.8	8.7	8.9	8.6	8.6	8.4	8.2	8.2	8.0

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Baldy Mesa

LATITUDE : 34 degrees 23 minutes 20 seconds

MONTH : September

ELEVATION : 4250 feet

LONGITUDE : 117 degrees 26 minutes 33 seconds

YEAR : 1995

PARAMETER : Peak Wind Gust (meters per second)

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	4.9	4.2	3.1	1.9	2.0	1.4	2.6	2.5	3.4	5.3	6.9	9.0	8.8	9.8	16.2	11.7	6.7	5.8	4.3	4.4	5.0	5.6	4.7	4.4	16.2
2	2.3	1.7	2.0	1.9	2.6	2.5	1.5	2.6	3.9	7.3	8.2	10.8	11.7	12.8	18.0	17.2	10.7	8.6	9.3	8.6	9.2	8.5	3.3	3.8	18.0
3	3.4	3.4	3.0	2.0	1.6	1.6	1.1	3.1	4.2	5.1	7.6	9.4	9.5	10.3	12.5	11.6	11.4	10.1	8.9	8.4	8.2	8.4	8.3	5.8	12.5
4	5.6	2.3	4.1	6.5	7.0	7.1	6.4	6.2	8.6	9.5	10.8	12.2	12.0	13.2	12.2	12.6	11.7	10.2	6.6	5.6	6.1	5.7	3.8	3.2	13.2
5	4.6	4.6	4.1	4.3	2.8	1.7	5.6	8.5	9.7	10.7	12.0	14.2	14.2	13.6	13.4	11.7	11.3	11.3	8.8	11.1	13.0	11.5	11.7	11.1	14.2
6	10.4	11.2	10.5	9.4	8.7	9.5	7.6	7.4	8.2	7.4	8.5	9.8	11.3	11.6	12.0	11.5	11.0	9.4	10.4	10.0	8.2	7.6	6.9	7.6	12.0
7	8.2	7.6	6.0	5.6	6.1	8.2	7.0	8.2	9.7	10.9	10.2	9.7	10.6	11.1	10.9	10.1	10.2	10.9	11.6	10.6	11.1	10.6	9.9	9.0	11.6
8	9.7	9.6	8.9	8.1	8.4	7.8	9.8	10.7	11.3	11.3	12.4	13.2	16.0	15.9	16.1	15.0	14.4	14.6	13.6	11.2	11.0	9.9	9.6	9.2	16.1
9	10.1	12.0	12.6	11.3	12.2	11.5	10.1	12.7	13.1	11.2	10.3	11.8	12.8	15.4	15.5	14.5	13.9	13.3	13.2	11.3	10.7	11.2	12.5	11.1	15.5
10	10.7	10.9	11.0	10.8	10.2	9.7	10.5	11.3	11.5	11.0	11.4	10.7	11.6	11.9	12.4	11.5	10.8	11.3	9.2	8.9	9.0	9.2	10.7	8.1	12.4
11	7.3	6.8	6.2	5.5	4.8	5.1	3.7	2.5	4.2	4.5	5.8	6.1	7.6	9.0	8.3	7.8	6.5	6.1	6.8	6.3	5.6	5.8	4.7	4.8	9.0
12	4.0	2.2	1.4	2.0	2.6	3.9	4.0	3.9	5.4	6.8	7.8	9.4	8.1	7.6	7.6	6.9	7.7	6.9	7.3	7.6	5.5	5.7	4.4	2.8	9.4
13	3.8	3.6	4.9	4.8	2.2	2.0	1.2	3.0	5.2	5.1	6.8	7.4	8.8	7.3	7.3	7.0	7.6	5.3	6.1	6.6	5.9	5.6	5.7	4.9	8.8
14	2.2	2.0	2.3	2.9	3.1	2.4	2.3	3.0	5.0	9.8	11.7	12.4	12.5	11.0	8.9	8.2	7.2	7.1	5.8	5.4	4.3	4.5	5.4	5.0	12.5
15	4.5	3.6	4.2	3.3	2.5	3.0	2.1	2.3	3.7	7.3	7.7	8.9	9.6	9.5	10.4	9.2	9.1	8.2	8.5	8.0	8.3	9.7	9.7	8.7	10.4
16	7.2	7.6	8.0	7.6	7.6	8.1	7.2	7.6	7.8	7.9	10.1	10.0	10.6	10.4	11.1	9.9	9.9	8.6	7.9	8.1	7.7	7.3	7.7	7.8	11.1
17	7.3	6.9	8.1	6.8	6.4	5.8	8.9	8.4	9.6	9.9	11.2	10.1	12.3	11.9	13.7	12.2	11.9	9.8	8.3	8.1	8.1	6.4	4.2	3.2	13.7
18	2.8	1.8	2.9	4.9	5.3	4.5	3.4	2.9	6.9	7.2	8.3	7.2	7.6	7.4	8.3	6.9	7.1	7.6	7.7	6.9	6.5	5.3	4.9	2.7	8.3
19	3.1	2.9	3.0	2.5	2.7	2.5	2.5	3.8	3.6	5.5	8.0	7.6	6.7	10.6	8.3	9.3	8.7	7.3	8.3	7.7	7.6	7.6	7.6	6.8	10.6
20	6.4	6.0	6.4	7.0	6.8	6.5	6.8	6.8	6.0	6.1	6.8	9.6	9.0	10.7	10.3	10.3	10.3	10.3	10.0	10.4	10.0	10.0	9.1	9.3	10.7
21	8.4	7.7	6.8	6.6	6.3	6.7	4.1	5.8	6.5	6.9	7.0	6.5	6.1	7.6	7.9	8.8	9.2	9.6	10.4	10.0	8.8	7.6	6.9	6.4	10.4
22	5.7	5.5	5.4	5.8	6.3	6.7	5.9	5.2	4.8	5.7	8.2	9.6	10.8	9.7	9.6	9.2	9.2	9.1	8.5	8.7	8.3	7.6	8.1	5.7	10.8
23	4.6	5.5	6.3	6.9	4.9	5.6	5.4	8.3	11.2	13.1	14.0	13.2	12.3	9.7	9.8	9.7	9.9	9.3	8.9	9.5	9.1	6.4	8.3	7.9	14.0
24	8.2	8.5	6.5	6.0	5.7	5.6	5.0	4.6	6.7	9.7	8.5	8.5	9.8	10.4	10.1	10.0	10.1	9.5	8.5	7.7	8.1	7.4	6.6	7.1	10.4
25	7.9	9.5	7.0	7.3	6.4	6.4	6.4	8.1	11.8	13.3	11.9	12.8	12.0	13.1	13.2	12.5	13.1	11.9	9.4	8.9	9.9	11.0	12.7	12.9	13.3
26	12.8	13.6	12.4	11.3	13.1	12.8	12.4	13.2	13.1	12.7	15.8	15.8	15.7	16.1	15.8	14.7	14.4	12.2	12.4	13.0	11.6	10.4	10.4	12.6	16.1
27	12.5	11.0	11.1	11.8	11.7	11.1	11.3	12.0	12.7	10.1	12.0	12.3	12.4	12.4	12.0	12.8	12.4	10.7	9.3	9.9	10.2	9.5	9.2	9.0	12.8
28	8.5	8.7	7.9	8.8	8.3	8.5	8.8	[PA]	[PA]	13.0	12.4	13.5	14.5	15.5	16.3	14.9	14.0	13.5	13.5	12.8	12.4	9.8	10.2	8.5	
29	8.4	8.5	9.0	9.1	6.3	5.0	6.9	9.4	8.2	7.7	7.6	7.9	7.2	7.1	6.6	5.6	5.4	4.5	5.5	5.1	4.7	4.3	5.0	3.0	9.4
30	3.6	4.0	4.6	5.3	4.7	4.3	3.9	5.2	6.2	6.6	6.4	6.9	7.4	7.3	6.9	7.3	5.3	4.3	2.1	1.9	2.4	3.1	4.7	5.5	7.4

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Boron

LATITUDE : 35 degrees 01 minutes 00 seconds

MONTH : September

ELEVATION : 2460 feet

LONGITUDE : 117 degrees 39 minutes 00 seconds

YEAR : 1995

PARAMETER : Peak Wind Gust (meters per second)

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	2.4	2.1	2.5	2.9	3.6	2.6	2.4	2.7	2.8	3.0	4.1	6.7	7.6	7.4	7.7	13.1	15.0	10.9	8.8	5.0	4.9	3.7	2.1	3.5	15.0
2	3.1	1.4	2.2	1.6	1.5	1.4	1.1	1.8	2.4	4.0	3.1	4.6	5.1	5.7	9.1	13.6	12.4	8.7	4.9	4.4	4.5	5.7	3.2	1.7	13.6
3	1.5	1.2	1.8	1.8	1.5	3.6	3.0	2.9	3.9	3.3	3.6	4.7	6.4	5.8	6.6	10.1	10.2	10.2	8.7	6.3	5.5	6.8	7.9	5.9	10.2
4	5.8	6.8	3.4	3.9	3.8	1.9	3.0	2.6	3.1	5.8	7.7	7.7	8.0	8.8	10.5	11.2	11.3	10.0	7.7	6.2	7.6	7.2	5.2	6.4	11.3
5	6.0	5.3	2.7	2.5	2.5	1.9	1.8	4.2	2.6	2.8	3.8	3.9	5.5	8.6	8.1	9.5	13.8	11.2	8.7	7.2	5.6	3.0	3.1	2.5	13.8
6	1.5	3.5	2.0	2.5	4.7	2.4	3.3	4.3	5.4	4.9	7.3	9.0	9.9	10.9	11.6	11.8	11.6	11.7	9.5	10.2	9.2	7.6	9.2	7.7	11.8
7	8.6	7.0	6.1	3.1	4.9	2.5	4.8	4.2	5.1	7.6	9.7	8.8	11.0	10.2	11.6	11.8	12.8	11.1	10.5	9.0	8.0	7.9	8.4	7.6	12.8
8	6.8	6.9	6.0	7.0	7.2	6.6	5.2	8.1	9.4	10.3	10.8	13.0	13.7	14.6	14.7	13.5	13.4	13.3	10.2	11.8	10.0	8.8	8.8	9.2	14.7
9	4.1	3.7	3.0	4.7	3.9	4.1	6.5	6.6	8.8	8.8	9.4	9.9	11.3	11.8	10.7	13.3	13.2	12.8	11.2	9.4	8.4	7.3	6.3	5.1	13.3
10	6.4	5.8	5.2	3.5	2.6	3.6	2.6	1.9	3.2	5.2	6.3	7.6	7.6	7.2	6.9	8.7	9.4	8.5	8.1	7.8	6.7	7.0	7.3	7.3	9.4
11	5.6	4.1	3.7	2.6	1.8	2.2	2.0	2.5	3.3	2.8	3.0	3.4	3.6	4.7	5.0	5.6	5.2	4.7	5.3	4.2	4.6	5.3	5.7	5.0	5.7
12	4.4	3.2	3.2	2.5	2.2	2.2	1.9	4.4	4.5	4.5	4.4	7.3	6.5	7.3	7.3	6.9	6.5	7.9	4.7	5.1	6.2	6.3	6.5	6.3	7.9
13	5.8	1.5	2.7	4.4	4.7	2.4	1.4	4.3	3.7	3.2	2.8	5.2	6.2	7.8	8.5	7.9	6.4	5.9	3.2	2.2	1.9	4.3	1.9	1.8	8.5
14	2.1	2.0	2.5	2.3	2.1	2.3	2.5	2.8	3.0	4.2	5.8	5.6	7.7	8.7	7.1	4.8	6.0	5.2	9.9	7.2	3.3	1.8	1.6	2.9	9.9
15	2.7	3.3	3.0	3.3	1.8	3.5	2.1	1.5	1.5	3.3	2.5	3.6	5.5	6.7	5.9	6.4	6.4	10.9	8.1	6.6	6.3	6.3	6.3	6.5	10.9
16	4.2	2.3	2.7	2.7	1.5	1.8	1.8	3.1	5.1	6.8	8.0	10.6	11.7	12.4	13.4	13.5	13.9	11.1	7.8	9.5	7.4	6.5	5.5	5.9	13.9
17	5.1	5.6	2.7	6.1	5.7	5.1	5.4	5.1	5.9	9.1	10.0	11.0	9.6	11.7	10.5	12.0	11.6	10.5	9.2	9.2	7.7	7.8	7.6	5.2	12.0
18	4.5	3.5	2.4	1.8	1.4	2.5	2.3	1.5	2.7	3.8	2.9	5.5	7.3	9.2	7.6	10.0	6.0	3.9	2.2	4.3	1.7	4.6	5.3	2.8	10.0
19	3.4	3.3	2.8	3.3	2.2	4.4	2.1	1.3	2.6	2.3	3.3	4.4	4.9	5.4	7.2	4.2	3.0	3.1	9.3	8.8	9.6	7.4	7.3	8.2	9.6
20	5.0	4.1	4.8	4.7	5.3	2.8	3.4	4.8	5.4	4.5	5.0	5.6	7.4	8.2	10.0	10.7	9.6	9.0	8.2	8.2	9.0	9.1	9.3	8.3	10.7
21	7.6	8.1	7.3	5.4	4.3	3.4	4.1	3.3	3.2	6.4	8.5	8.8	9.9	9.1	8.6	5.6	5.9	4.9	2.8	4.9	3.8	3.6	2.0	1.9	9.9
22	2.2	1.7	1.2	1.3	1.7	1.3	1.5	1.4	1.3	2.1	2.5	3.4	6.1	6.8	7.8	9.8	13.1	9.9	8.4	9.7	9.3	8.2	7.3	8.4	13.1
23	7.6	8.6	8.8	7.6	7.6	8.7	8.9	10.7	9.9	10.9	12.4	15.1	25.5	15.9	16.0	16.7	15.1	12.3	12.5	10.4	8.4	7.2	8.7	8.6	25.5
24	9.4	8.6	8.1	7.3	8.4	7.3	8.0	7.7	7.4	7.2	7.3	7.0	6.9	10.3	9.3	13.5	11.3	9.8	9.3	8.5	9.2	8.6	9.1	7.7	13.5
25	7.3	7.7	7.6	7.4	8.1	8.8	9.5	9.4	10.2	11.4	12.6	12.3	12.7	14.6	14.4	14.2	11.8	9.8	8.7	7.7	8.6	7.6	10.0	10.6	14.6
26	11.7	11.1	7.3	7.0	7.4	7.0	5.9	6.7	8.5	9.2	10.8	11.8	12.5	10.8	10.9	11.9	13.1	13.4	11.9	10.3	9.7	8.4	9.1	8.1	13.4
27	9.1	9.1	7.9	6.8	7.7	6.4	5.6	6.6	5.9	5.8	6.0	8.7	10.2	11.0	10.5	10.1	10.8	12.0	12.5	11.1	10.1	10.6	8.4	8.3	12.5
28	8.4	9.0	9.7	9.5	10.0	10.9	11.6	12.5	13.2	13.6	14.1	15.0	15.8	16.3	16.0	15.9	16.6	15.0	14.1	13.3	11.0	10.3	11.3	13.6	16.6
29	15.5	15.8	13.8	11.8	10.7	9.7	[PA]	[PA]	6.9	4.7	4.3	4.8	5.3	4.4	5.5	5.5	4.0	2.4	6.0	3.7	4.4	1.9	1.8	1.5	
30	0.8	1.9	2.5	2.1	1.5	0.9	1.0	2.0	2.7	4.9	6.3	6.2	5.2	3.9	4.0	4.3	3.5	3.2	3.5	4.1	4.1	2.9	1.9	2.5	6.3

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Catalina Airport

ELEVATION : 1602 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 33 degrees 24 minutes 00 seconds

LONGITUDE : 118 degrees 24 minutes 30 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	8.3	7.8	8.2	8.1	6.7	6.8	6.9	6.6	6.9	5.4	4.7	5.2	5.9	5.2	4.4	5.8	6.5	6.8	6.5	7.6	7.3	8.1	7.3	7.3	8.3
2	7.1	7.3	8.0	7.8	6.3	5.0	4.9	3.8	5.3	4.8	5.6	6.9	5.2	6.1	6.5	6.2	5.4	5.0	5.9	5.9	6.6	6.4	8.1	6.8	8.1
3	5.7	3.5	3.5	3.8	4.0	3.2	3.8	5.4	4.3	5.9	5.2	4.7	4.7	6.2	7.6	7.6	7.6	6.4	6.4	6.8	4.7	2.7	2.9	2.4	7.6
4	2.1	3.0	2.3	3.1	2.8	3.9	2.5	2.2	3.4	3.0	4.7	4.2	4.4	3.6	3.9	4.9	4.7	4.9	3.7	3.9	5.0	5.1	4.6	1.7	5.1
5	2.4	2.7	2.1	2.3	1.9	3.1	4.3	4.8	3.4	3.7	3.8	3.8	4.3	4.6	4.5	3.4	3.4	3.7	3.2	6.2	5.4	5.1	6.0	5.7	6.2
6	3.9	4.8	4.6	3.3	5.6	5.0	4.6	3.8	3.6	4.1	3.3	3.7	4.5	3.6	5.6	5.5	3.9	4.8	4.7	4.3	3.8	3.8	3.5	3.6	5.6
7	3.2	4.4	3.9	2.5	3.0	2.9	2.8	2.9	3.4	5.2	4.6	4.3	5.2	5.2	5.3	5.0	5.4	6.8	6.6	6.9	6.0	5.1	4.8	3.4	6.9
8	3.8	3.5	2.9	1.8	2.0	1.4	1.0	2.3	2.9	4.3	4.7	5.0	5.0	4.0	3.5	4.5	3.1	3.8	4.0	3.8	3.5	3.6	2.5	3.3	5.0
9	4.1	4.3	4.0	3.8	2.5	2.6	2.2	3.2	3.5	3.5	4.7	5.1	6.0	6.6	6.7	5.8	6.0	5.4	6.1	7.7	7.1	6.4	6.4	6.4	7.7
10	5.7	5.0	4.1	4.0	3.4	4.2	4.9	4.9	4.5	3.8	4.8	4.5	5.1	5.4	6.4	4.8	4.5	5.3	5.5	3.5	3.6	2.4	3.6	2.6	6.4
11	2.9	2.5	2.2	1.5	2.0	2.2	1.8	1.8	3.1	3.1	3.6	4.0	4.8	4.8	5.0	5.9	7.2	6.8	6.3	7.0	7.0	6.9	6.4	5.8	7.2
12	5.1	5.6	5.8	5.3	4.8	3.9	2.9	2.0	2.6	2.7	3.5	3.1	3.4	3.9	4.2	5.5	5.7	7.2	8.8	9.3	9.7	9.5	7.9	5.5	9.7
13	4.1	2.6	3.2	3.9	3.1	3.1	3.0	3.5	4.2	3.9	4.3	4.9	5.0	4.0	5.5	4.7	5.7	7.2	9.8	9.3	8.4	5.8	4.7	4.2	9.8
14	2.6	3.7	2.5	2.5	1.7	1.4	2.1	2.7	2.8	3.2	6.0	4.5	3.3	3.3	4.0	2.8	3.3	2.4	2.7	4.2	3.7	3.3	3.1	2.9	6.0
15	2.7	3.7	3.7	4.1	3.8	2.8	1.7	2.7	2.3	2.6	2.9	3.6	3.5	3.8	4.1	4.7	6.3	3.7	3.4	3.0	3.4	4.2	4.7	3.8	6.3
16	4.1	4.1	3.6	4.8	5.2	5.8	6.7	6.2	5.4	4.6	3.8	4.6	4.3	4.0	4.3	3.6	3.5	2.4	2.0	1.7	2.8	3.2	2.2	3.7	6.7
17	2.7	3.1	3.6	2.3	2.8	3.1	2.8	3.0	3.3	3.6	4.3	4.4	5.5	5.6	5.2	4.5	6.0	5.2	5.3	4.0	3.8	2.9	2.4	2.3	6.0
18	2.5	2.5	2.5	3.1	3.9	4.7	5.1	4.8	2.7	3.9	4.4	3.7	3.8	4.2	3.4	3.2	2.9	2.9	3.4	4.0	3.1	2.8	2.8	2.9	5.1
19	2.7	3.1	3.6	4.1	3.8	4.2	3.5	3.5	2.7	3.1	3.4	3.8	4.8	4.6	4.6	4.0	3.6	2.6	2.2	1.8	2.2	2.7	3.1	3.2	4.8
20	3.0	2.7	3.4	2.5	2.3	3.1	2.7	2.1	1.8	3.7	3.7	4.0	4.5	5.1	4.8	5.0	4.3	4.4	3.9	4.0	2.9	2.0	1.3	2.2	5.1
21	2.6	3.6	5.4	4.6	4.0	3.2	3.6	3.6	3.0	3.2	3.4	4.2	4.3	4.3	5.0	4.9	3.6	1.7	3.1	1.8	2.5	2.9	3.4	4.2	5.4
22	5.5	4.2	2.5	3.4	3.4	3.6	3.1	2.3	2.1	3.8	4.1	4.1	4.1	5.2	5.9	5.6	4.6	5.2	5.9	4.9	3.7	5.4	6.8	4.9	6.8
23	6.4	7.6	5.2	4.3	2.4	2.3	2.3	2.1	3.2	3.7	4.3	6.0	7.1	6.5	4.2	11.5	5.2	5.7	5.1	4.2	4.7	2.6	2.4	2.8	11.5
24	3.9	4.0	3.3	3.3	3.0	2.9	2.9	2.6	2.9	4.1	5.5	5.1	5.0	6.0	6.1	7.1	8.3	6.9	6.8	6.0	5.9	5.4	3.5	4.8	8.3
25	5.2	3.7	2.8	3.2	3.0	2.7	2.6	3.4	3.8	3.7	4.0	4.4	4.7	5.2	3.9	2.9	2.5	3.0	2.6	2.7	3.4	3.2	2.2	2.1	5.2
26	3.6	4.5	3.9	3.6	4.5	4.4	4.8	5.3	5.0	7.3	7.2	6.1	6.3	6.5	6.0	4.7	4.5	3.7	4.6	4.7	3.7	4.1	4.8	4.6	7.3
27	5.4	5.5	5.0	5.0	5.9	6.1	4.7	5.3	6.4	6.5	6.2	6.8	6.6	5.6	5.5	4.9	3.5	2.6	2.6	3.1	3.4	2.4	2.1	2.4	6.8
28	2.1	2.4	2.4	2.5	2.7	3.6	4.0	4.6	4.8	5.3	5.0	6.0	5.9	6.7	7.6	6.7	7.3	8.1	6.4	4.9	3.3	3.5	3.4	2.3	8.1
29	3.2	2.0	1.7	2.9	2.9	2.4	2.2	1.7	2.9	4.0	4.3	4.6	5.2	5.4	4.8	6.0	4.8	4.5	4.7	5.2	4.9	3.7	2.8	2.9	6.0
30	3.7	3.2	2.9	3.4	2.8	3.5	3.5	2.9	3.7	3.8	4.5	3.6	3.8	4.1	4.6	4.9	4.6	5.2	5.6	7.9	8.8	7.7	6.7	6.3	8.8

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Flash II Mountain

ELEVATION : 3325 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 34 degrees 58 minutes 15 seconds

LONGITUDE : 117 degrees 02 minutes 22 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	7.0	6.9	5.0	5.4	6.2	5.4	5.2	5.3	6.2	5.4	5.5	5.9	7.1	9.5	6.7	16.6	16.0	17.4	12.2	4.5	6.1	6.4	6.3	5.0	17.4
2	5.0	4.7	4.7	3.7	3.4	4.2	4.3	3.4	2.8	4.2	4.8	7.7	11.1	7.9	17.9	10.6	14.0	8.4	6.0	5.8	7.0	7.8	7.6	5.1	17.9
3	6.1	5.1	5.6	4.7	3.9	4.8	4.6	4.9	5.5	5.4	5.0	4.6	5.7	9.1	8.2	7.0	9.4	11.6	13.9	9.0	8.7	9.1	10.0	8.6	13.9
4	7.9	7.4	6.6	5.9	5.3	5.2	6.4	6.5	5.5	6.0	6.0	5.9	7.9	11.3	12.1	11.4	14.1	12.9	11.0	11.1	9.0	7.7	7.4	6.6	14.1
5	7.7	7.0	6.8	7.0	6.7	6.3	5.4	5.2	5.2	4.5	4.4	4.8	5.4	8.2	7.9	8.1	9.7	11.0	11.5	11.6	9.9	12.1	9.6	7.7	12.1
6	7.9	7.0	7.7	7.0	6.9	6.8	6.1	6.9	5.5	7.7	7.9	6.8	7.3	8.1	11.5	13.5	13.5	13.4	12.3	13.2	9.7	10.6	10.9	9.9	13.5
7	10.6	11.9	9.4	7.5	7.1	4.4	5.1	5.7	5.2	6.4	8.7	10.6	12.8	12.2	14.7	14.8	14.4	16.2	16.2	14.8	14.4	12.9	13.3	12.0	16.2
8	11.3	10.3	10.7	9.4	6.3	7.6	8.7	8.7	10.3	9.2	11.6	13.8	16.9	14.5	16.0	17.4	17.4	16.8	16.3	13.8	14.7	15.5	14.5	12.2	17.4
9	9.9	10.7	10.2	10.2	10.7	8.6	7.9	7.9	7.7	7.9	8.8	9.1	10.8	11.5	9.9	10.8	11.8	12.8	13.4	11.5	12.2	10.6	8.9	7.8	13.4
10	7.7	7.7	6.1	6.5	6.0	5.5	5.3	6.1	6.6	6.0	6.0	5.2	6.2	8.3	8.1	5.6	8.5	9.4	8.8	7.6	7.9	7.0	7.9	6.2	9.4
11	7.5	5.8	6.7	7.0	7.2	7.2	7.3	7.9	6.1	4.9	4.8	6.4	6.3	6.4	7.0	6.6	6.4	5.9	5.2	6.5	7.2	7.1	6.6	6.5	7.9
12	8.7	8.1	7.9	7.7	7.8	7.3	7.9	7.7	5.9	6.6	7.4	6.0	9.0	8.9	7.7	10.3	9.1	7.2	4.7	6.4	7.9	10.0	10.2	9.0	10.3
13	9.2	10.0	9.3	8.3	8.1	7.9	7.0	6.0	5.9	4.6	3.8	4.8	7.8	8.2	10.7	9.1	7.5	7.8	4.4	2.6	1.6	2.6	2.5	5.3	10.7
14	5.0	4.1	5.0	3.1	3.8	4.7	4.6	4.7	5.6	6.5	6.9	7.9	12.5	10.1	10.8	11.6	11.6	9.8	9.5	7.4	6.2	6.0	6.7	6.7	12.5
15	5.8	5.3	4.9	5.3	5.1	4.4	4.3	3.9	4.3	4.8	4.2	5.5	5.4	8.6	6.4	6.8	6.0	3.4	11.5	9.1	10.8	9.5	9.9	8.2	11.5
16	7.5	6.9	7.6	7.1	6.7	6.6	7.2	6.3	5.0	5.9	7.8	8.5	8.5	12.8	14.7	15.3	16.6	16.1	16.4	16.1	13.9	11.4	9.9	7.3	16.6
17	7.1	6.1	5.6	7.3	6.9	6.3	6.7	6.7	5.4	8.2	8.4	11.4	13.0	13.2	12.6	12.3	12.4	13.4	12.1	10.4	9.3	10.2	9.9	10.2	13.4
18	8.5	9.2	8.1	7.7	6.1	7.5	5.9	5.0	4.3	4.0	4.2	6.6	9.8	10.1	11.5	9.4	9.1	6.7	5.3	3.0	2.5	1.9	5.6	5.2	11.5
19	5.7	6.9	6.9	5.8	6.0	6.0	5.1	4.9	3.8	4.1	4.0	5.0	6.6	9.1	7.6	6.1	5.5	5.6	3.5	9.0	8.1	10.1	8.6	6.7	10.1
20	8.7	8.8	7.2	7.2	6.8	7.5	7.9	7.9	7.8	8.1	7.9	7.6	8.8	9.8	10.8	10.5	17.0	18.6	13.9	11.8	14.0	14.1	14.8	11.9	18.6
21	10.0	9.9	8.5	6.7	7.3	7.0	4.5	5.0	6.8	11.9	9.3	12.0	10.7	9.9	10.3	11.0	9.0	8.5	7.6	7.2	6.7	4.8	5.2	5.8	12.0
22	6.2	6.4	6.9	7.0	5.7	3.8	3.3	3.4	3.9	4.1	4.9	5.3	6.6	8.1	8.6	12.0	8.9	14.9	17.4	12.7	10.3	8.7	8.4	9.8	17.4
23	8.7	9.3	9.9	11.7	11.5	10.2	11.6	11.3	8.9	11.4	12.2	13.2	13.2	18.6	21.3	21.6	19.1	16.3	15.0	16.7	19.2	19.4	17.3	15.3	21.6
24	14.8	14.0	11.5	10.9	8.8	7.0	7.1	7.1	7.9	7.6	8.1	7.9	8.7	7.9	9.1	11.9	14.4	14.1	12.5	11.5	11.5	10.2	10.2	10.0	14.8
25	11.1	10.1	9.1	8.1	9.7	10.9	10.4	11.5	11.1	11.8	12.9	13.9	13.9	15.2	17.1	17.4	16.0	15.6	15.1	15.2	14.7	15.5	14.4	14.1	17.4
26	15.4	18.1	15.9	12.0	11.5	11.3	10.8	9.7	9.4	11.1	11.0	12.4	12.7	11.5	11.4	12.6	12.1	12.5	12.6	13.6	10.3	9.9	8.3	7.4	18.1
27	8.7	8.5	14.5	14.3	9.6	9.4	8.5	7.1	7.7	6.3	8.3	10.5	10.3	10.0	10.1	11.3	11.7	13.9	14.9	15.2	14.0	12.7	9.1	10.8	15.2
28	9.5	11.0	11.1	10.2	12.1	11.8	12.2	13.9	16.4	17.4	15.7	16.0	16.2	15.8	17.1	17.4	18.7	19.5	20.1	19.3	18.5	18.7	16.9	21.4	21.4
29	21.2	16.6	16.2	15.9	12.8	12.7	11.7	11.1	7.7	7.1	5.8	6.4	6.0	6.2	5.6	4.9	5.8	4.1	2.8	3.7	3.4	5.1	4.2	4.0	21.2
30	4.9	7.9	7.8	4.1	4.1	4.3	4.9	6.9	6.9	8.1	9.5	6.9	6.4	5.6	6.6	4.8	5.8	3.6	2.3	2.5	3.4	3.8	2.7	3.4	9.5

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Ludlow

ELEVATION : 1782 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 34 degrees 42 minutes 36 seconds

LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	8.5	7.4	7.1	7.2	7.4	6.6	6.5	6.8	6.0	4.5	11.3	7.9	9.3	8.7	9.3	6.9	6.9	11.1	12.4	5.0	5.6	5.0	4.5	3.4	12.4
2	3.8	3.5	4.3	5.3	5.3	4.7	4.2	3.4	3.0	3.0	6.5	7.4	11.3	11.4	8.1	10.7	10.1	7.6	8.2	7.2	4.8	3.1	4.8	4.8	11.4
3	4.7	6.0	6.0	6.7	6.9	5.8	6.6	7.1	6.6	4.0	4.5	4.5	8.6	7.4	8.1	9.2	9.7	8.5	7.5	7.0	7.5	7.9	6.9	6.4	9.7
4	5.0	7.8	8.4	7.6	7.1	6.6	7.2	6.4	3.4	3.3	5.6	7.5	8.9	11.3	10.5	10.4	10.2	7.9	8.1	7.0	10.0	9.6	5.9	6.7	11.3
5	4.9	6.1	8.3	7.4	7.6	8.1	6.6	5.4	5.5	9.1	10.5	12.4	12.8	12.3	15.4	14.5	14.5	8.7	9.3	3.5	3.8	2.6	2.2	2.8	15.4
6	4.9	5.9	5.6	7.4	5.8	5.4	5.2	6.9	6.8	5.4	3.6	4.8	5.1	5.7	6.0	7.2	4.6	4.1	7.7	12.2	12.6	12.8	9.8	6.3	12.8
7	5.0	3.8	3.9	6.8	12.5	11.4	10.3	8.3	8.7	7.1	6.7	9.1	7.6	8.3	8.1	6.7	7.6	10.9	8.4	6.1	7.7	9.9	10.0	9.2	12.5
8	5.6	5.9	5.1	3.9	5.1	6.0	5.8	6.3	7.1	7.3	8.5	7.8	6.5	6.6	11.8	10.9	10.9	11.5	9.5	8.2	3.9	6.0	4.3	3.9	11.8
9	6.2	2.6	4.2	5.0	5.4	5.2	6.2	6.4	6.0	4.3	4.4	4.8	5.3	6.7	7.5	7.9	9.2	5.9	6.4	6.0	5.0	4.7	6.0	7.6	9.2
10	5.9	6.4	6.5	5.7	5.4	5.6	6.4	6.0	5.7	4.7	5.0	3.9	5.4	4.5	5.7	6.7	4.9	4.9	4.8	2.8	7.4	4.8	4.9	8.1	8.1
11	9.5	8.3	7.1	6.7	7.2	7.8	7.0	7.1	7.3	6.2	4.9	5.3	5.3	5.6	6.9	7.5	6.5	6.5	3.9	3.9	4.1	3.2	4.9	4.8	9.5
12	7.9	7.6	6.3	6.6	6.7	6.9	6.9	7.1	6.1	4.8	4.8	8.2	9.1	12.4	13.3	10.0	7.9	7.5	3.7	3.1	3.5	4.9	6.3	7.6	13.3
13	9.9	8.3	8.3	9.6	10.0	7.1	8.4	7.7	3.6	4.4	6.6	6.6	5.8	5.7	5.0	4.8	5.1	4.4	2.8	3.6	4.0	3.5	5.0	5.2	10.0
14	4.8	3.8	2.5	4.3	3.6	4.6	4.2	3.0	7.6	8.2	7.8	10.3	10.5	10.7	10.0	6.5	5.9	5.5	5.3	5.6	5.6	4.8	3.1	2.2	10.7
15	3.9	3.8	2.8	2.8	3.6	4.3	1.6	3.3	4.9	8.9	7.7	7.4	4.3	6.4	6.4	6.8	7.4	6.5	5.1	6.2	7.0	7.5	6.6	5.0	8.9
16	4.8	2.9	3.8	4.0	5.2	8.6	9.1	9.1	9.7	9.1	9.6	9.3	9.1	9.3	21.1	23.1	8.1	6.8	7.9	8.1	7.9	7.9	6.5	5.5	23.1
17	5.2	6.2	6.3	4.8	5.5	3.8	4.2	4.1	5.3	4.8	3.3	4.1	4.3	4.0	4.2	7.1	6.2	5.4	5.6	6.3	7.5	6.6	9.5	8.8	9.5
18	8.4	8.2	9.9	9.6	8.1	7.1	7.8	5.5	2.9	5.3	9.4	6.7	5.1	5.0	5.6	5.8	7.6	4.2	2.9	3.2	3.5	4.1	4.1	3.4	9.9
19	4.3	7.9	5.6	6.6	7.5	5.4	5.3	5.6	5.6	6.0	3.0	4.5	5.8	6.1	5.7	4.6	2.0	1.8	4.3	4.6	5.8	4.8	7.5	5.1	7.9
20	5.0	4.1	4.9	4.4	5.0	4.5	4.2	2.3	2.8	2.5	4.0	4.8	8.1	7.5	7.5	5.5	4.3	4.5	8.9	7.9	8.7	10.0	8.7	6.1	10.0
21	5.8	4.8	5.7	7.1	7.8	5.3	4.5	5.4	4.1	4.9	6.6	5.7	8.2	7.9	7.7	7.0	6.8	5.6	4.2	3.5	4.8	3.7	3.6	3.4	8.2
22	2.5	2.1	2.4	2.4	3.3	2.4	3.0	2.5	2.7	5.0	7.5	9.9	6.9	7.5	7.8	7.8	7.8	8.1	8.7	11.1	11.1	9.5	10.1	8.7	11.1
23	7.9	6.9	5.7	5.3	5.8	6.0	4.4	5.5	6.8	11.9	10.6	11.7	11.7	13.4	13.6	13.2	13.4	13.1	14.4	13.9	13.2	13.9	15.4	11.1	15.4
24	4.6	5.7	5.1	5.4	6.5	5.8	6.7	6.8	8.7	10.7	10.9	8.5	9.7	5.2	5.1	4.8	5.4	5.4	10.4	13.0	9.6	8.4	7.1	7.0	13.0
25	5.3	3.2	3.6	4.0	4.7	3.5	4.9	4.5	1.9	3.8	4.8	4.5	6.2	6.8	7.4	6.3	8.1	8.4	11.1	11.5	7.2	6.9	5.6	6.1	11.5
26	2.3	3.0	2.8	3.8	3.3	5.7	7.4	6.5	4.8	3.4	6.2	4.4	4.8	8.4	8.4	8.7	8.1	9.5	8.9	5.8	4.9	7.8	8.7	7.2	9.5
27	5.9	6.3	5.5	4.7	4.6	3.9	4.3	4.8	2.9	3.3	3.7	4.6	5.2	8.4	7.8	6.9	7.3	5.2	6.6	7.6	12.4	10.2	7.2	6.5	12.4
28	6.0	4.8	6.6	5.2	5.0	2.2	4.1	6.4	7.7	5.7	5.5	4.6	5.7	6.3	5.5	7.3	11.5	14.4	13.7	11.7	16.6	15.8	16.3	9.6	16.6
29	11.6	12.4	12.3	16.3	14.1	14.9	13.5	13.6	11.8	8.9	8.6	10.6	10.7	11.4	11.3	8.4	7.6	6.7	3.8	3.7	2.1	3.4	4.5	3.3	16.3
30	3.7	2.8	5.7	5.2	4.8	2.6	1.7	2.6	4.8	7.7	6.3	7.4	8.4	9.0	[PA]	[PA]	7.6	5.6	3.4	2.6	3.3	3.2	2.4	3.3	

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Palmdale

ELEVATION : 2760 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 34 degrees 33 minutes 26 seconds

LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	6.0	6.0	4.3	4.3	1.6	2.5	1.7	3.8	2.5	3.5	9.2	9.1	8.5	10.6	10.6	11.4	11.0	11.9	11.9	10.0	4.2	2.6	1.5	3.6	11.9
2	4.1	3.5	3.4	3.3	2.0	3.3	2.3	3.2	3.5	4.6	4.7	4.4	5.5	5.8	13.8	13.8	11.1	11.4	7.7	8.2	7.6	3.2	5.9	4.2	13.8
3	4.1	3.8	3.1	1.6	1.7	1.7	1.5	2.2	2.5	3.5	4.7	4.5	8.2	10.5	12.7	13.3	13.4	13.5	12.7	7.1	7.2	4.0	2.5	4.3	13.5
4	3.5	3.1	3.6	2.8	4.2	3.9	2.2	5.0	5.7	6.2	8.4	8.7	9.3	12.8	11.1	11.8	9.1	7.9	7.4	6.6	6.4	6.3	2.4	2.0	12.8
5	2.2	3.3	4.6	2.9	3.3	3.5	2.4	2.1	3.0	3.7	3.8	3.3	4.6	9.4	12.0	9.5	9.1	8.4	10.7	11.6	9.4	2.8	3.6	4.3	12.0
6	4.7	5.6	5.6	6.4	4.4	4.8	2.1	5.3	7.3	10.9	11.9	13.1	13.8	14.0	14.6	14.1	14.2	13.9	13.5	8.2	6.8	7.2	6.8	5.8	14.6
7	6.2	8.1	6.3	4.1	2.6	3.1	6.9	6.0	7.8	12.6	12.0	14.4	14.0	14.4	14.8	13.8	13.0	11.9	15.3	16.7	11.7	11.1	7.9	5.3	16.7
8	8.4	9.8	5.0	4.5	6.1	6.3	7.0	11.3	14.4	16.5	17.0	15.9	12.7	16.6	15.5	11.9	14.4	15.1	13.1	12.3	11.9	10.1	9.5	12.4	17.0
9	12.0	8.7	7.3	5.6	5.3	2.5	12.8	13.6	14.0	14.6	16.0	15.2	14.8	16.0	15.4	14.7	14.9	14.2	12.2	8.8	8.0	8.1	5.8	3.0	16.0
10	3.3	3.9	4.9	4.4	5.9	6.6	7.3	3.3	2.8	3.4	11.2	11.7	10.9	10.3	11.0	13.4	12.6	11.5	11.9	12.6	10.9	9.5	4.9	6.1	13.4
11	9.4	2.6	3.0	3.7	3.4	4.4	3.3	2.5	3.7	2.6	3.4	4.1	4.6	7.0	5.5	5.9	8.6	8.2	8.4	4.2	4.1	3.3	2.7	3.0	9.4
12	3.5	3.3	3.4	3.4	3.3	3.2	2.9	2.1	2.9	3.4	4.6	5.2	6.3	8.5	9.4	9.8	10.3	8.6	4.3	3.2	4.0	4.0	4.3	2.4	10.3
13	2.7	2.9	3.6	2.7	3.0	3.1	2.7	2.1	2.7	4.2	4.8	5.8	6.5	6.9	7.9	7.9	6.8	6.1	4.2	8.0	3.2	2.8	2.7	2.9	8.0
14	3.2	3.5	3.6	3.3	3.0	3.4	2.4	1.5	2.5	3.8	3.6	4.6	6.0	5.9	9.4	8.4	12.3	12.0	10.2	8.8	7.6	3.2	4.5	4.2	12.3
15	3.2	3.2	3.8	3.1	2.9	2.9	2.9	2.8	2.7	2.9	5.5	6.3	5.9	10.9	10.1	11.0	11.6	11.9	12.2	11.5	2.5	6.5	5.3	3.6	12.2
16	4.6	4.4	3.6	2.5	3.1	7.2	8.4	9.0	10.2	9.2	8.9	9.7	10.2	10.9	11.1	10.8	9.1	7.6	8.0	5.9	6.6	3.8	6.4	6.4	11.1
17	6.6	4.1	5.9	4.2	4.1	3.3	2.6	2.3	3.9	8.4	9.6	11.7	10.7	10.1	9.5	9.3	10.0	8.3	7.4	7.3	5.1	3.7	3.4	3.6	11.7
18	3.9	3.6	3.4	4.3	4.5	4.6	3.1	1.6	2.7	3.4	5.4	8.9	6.7	7.6	7.3	6.9	6.6	7.1	7.8	5.8	7.0	3.3	3.3	3.4	8.9
19	3.6	3.3	3.6	3.8	3.8	3.6	2.9	3.5	2.5	3.6	4.5	5.6	4.8	5.6	7.0	10.5	11.2	11.3	11.2	10.5	8.6	6.0	6.8	7.3	11.3
20	5.9	7.1	5.4	5.0	4.3	4.1	5.5	5.8	5.6	7.6	7.9	8.4	10.4	11.3	10.9	11.1	11.5	10.6	8.6	8.4	7.3	6.8	6.7	7.1	11.5
21	5.6	7.1	4.8	3.9	3.3	3.0	3.0	2.0	4.0	6.1	6.5	8.1	6.7	6.5	6.7	7.1	7.3	9.2	11.3	9.2	4.5	5.1	5.0	5.9	11.3
22	3.0	2.8	4.0	1.6	1.8	1.8	1.8	3.3	2.3	3.5	7.6	9.7	11.2	13.1	12.4	12.7	12.5	11.5	10.8	7.8	5.9	5.8	6.6	5.4	13.1
23	6.4	7.9	7.6	7.3	7.3	4.9	2.7	6.8	9.2	9.5	10.7	10.8	11.5	11.6	10.5	8.8	8.7	6.9	8.5	7.2	5.7	5.9	5.1	6.2	11.6
24	6.5	7.1	8.5	4.1	4.1	3.9	2.5	3.0	6.4	7.4	7.7	7.1	11.1	10.8	12.8	12.0	10.7	9.6	8.1	7.9	5.1	2.7	4.7	4.7	12.8
25	4.3	6.3	5.0	5.3	3.8	5.9	4.0	7.1	8.4	10.7	11.3	14.1	13.5	14.2	14.3	11.5	11.2	9.8	6.3	7.4	7.6	5.8	4.4	6.8	14.3
26	6.8	4.8	3.2	3.8	3.1	6.1	7.6	4.2	7.4	9.5	10.2	12.3	13.0	12.9	13.0	12.4	12.9	14.6	14.6	12.8	8.0	4.8	4.4	4.0	14.6
27	2.9	2.5	3.1	4.9	5.6	4.3	2.5	2.0	2.4	7.0	6.0	9.9	9.7	9.2	11.1	12.4	12.0	8.4	8.0	9.0	8.7	4.4	7.2	9.1	12.4
28	9.3	7.8	8.6	7.0	9.6	10.4	9.3	11.0	11.5	11.3	13.0	13.7	16.1	16.0	14.3	15.9	13.9	14.1	11.8	11.4	11.9	12.4	13.0	10.6	16.1
29	10.1	6.6	6.7	7.2	4.0	8.0	5.6	5.1	3.7	6.1	5.8	[PA]	[PA]	6.4	5.6	7.2	9.0	7.7	5.9	6.3	2.9	2.9	3.5	3.2	
30	2.8	2.9	2.7	2.5	2.6	2.5	2.5	2.5	2.8	4.3	6.0	6.5	4.7	5.3	4.3	4.5	5.2	4.0	3.9	4.3	4.3	3.2	3.2	3.3	6.5

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Quartzite Mountain

ELEVATION : 4482 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 34 degrees 36 minutes 38 seconds

LONGITUDE : 117 degrees 17 minutes 20 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	6.0	5.7	6.2	7.7	7.3	5.8	4.9	3.7	3.9	3.2	4.8	7.6	8.4	11.0	19.8	17.5	11.9	11.0	5.1	4.8	4.7	4.4	8.4	6.7	19.8
2	5.9	5.5	4.0	3.4	2.2	2.2	2.6	4.9	4.2	4.8	6.5	11.7	12.4	16.9	18.0	20.1	13.8	11.3	9.6	9.3	8.8	7.0	4.5	3.7	20.1
3	3.3	3.5	3.0	2.6	2.8	2.9	2.7	2.6	4.1	5.5	6.2	9.2	11.9	13.9	13.1	12.5	13.3	11.8	8.4	5.4	7.3	8.3	10.2	7.8	13.9
4	8.4	8.6	8.5	7.5	7.1	4.8	4.1	5.0	5.6	8.1	11.4	12.8	13.6	15.6	15.0	14.2	12.8	11.7	8.5	8.8	7.6	8.3	8.1	9.9	15.6
5	9.5	8.6	7.2	5.2	4.1	3.7	7.0	9.3	8.5	9.1	7.6	9.1	12.6	14.2	14.7	14.0	14.4	14.2	14.3	14.4	15.0	13.4	13.8	9.7	15.0
6	9.1	9.3	9.7	6.8	6.7	6.2	4.5	4.8	4.8	4.5	3.7	5.9	7.7	10.0	12.3	11.0	9.9	8.6	6.7	7.8	8.9	8.5	8.6	9.4	12.3
7	8.7	9.1	8.1	7.3	6.5	5.9	5.0	5.4	5.0	5.5	6.4	7.9	8.4	12.5	11.8	13.2	11.4	11.3	10.4	7.9	6.8	7.6	9.0	8.8	13.2
8	7.6	7.6	7.4	5.1	5.2	6.9	6.8	4.6	6.4	8.9	9.3	13.6	13.9	14.4	14.1	14.7	13.4	14.4	12.5	11.0	12.6	12.4	11.7	9.6	14.7
9	10.5	10.3	11.8	11.4	11.7	11.6	9.6	7.5	8.1	8.1	8.8	8.2	10.5	11.1	13.0	13.4	13.8	12.6	13.6	12.0	12.0	10.7	11.1	9.4	13.8
10	11.5	13.4	10.9	10.8	9.2	8.9	9.0	8.5	8.3	6.9	5.4	9.0	7.1	9.3	10.4	10.3	9.6	9.3	9.2	10.0	9.3	8.7	8.9	8.7	13.4
11	4.9	5.3	5.4	4.2	2.7	1.8	2.9	4.8	4.8	4.3	4.8	5.8	6.2	7.8	7.9	8.7	9.1	8.9	6.3	10.0	8.9	9.4	6.8	6.6	10.0
12	6.7	6.8	6.6	6.8	7.1	6.3	6.1	5.2	4.5	4.6	6.7	7.5	10.7	8.1	10.7	10.6	10.4	8.3	7.9	11.8	10.7	10.8	10.5	9.9	11.8
13	7.9	7.5	7.5	7.8	4.8	4.8	1.9	1.7	2.2	3.8	5.4	8.7	9.1	10.3	10.2	10.4	12.1	9.9	9.7	7.7	7.1	7.0	6.9	5.9	12.1
14	4.2	4.2	4.8	3.5	6.5	6.8	4.3	5.1	3.4	6.0	8.5	7.1	9.3	10.9	8.3	10.2	9.1	9.3	9.7	9.8	5.7	4.5	3.9	3.7	10.9
15	4.8	4.6	2.9	2.7	2.9	3.0	2.1	2.4	3.8	4.6	4.8	5.8	9.9	8.7	9.4	7.9	9.3	7.8	11.3	7.3	7.1	7.0	6.1	7.8	11.3
16	6.6	7.4	8.4	8.4	8.1	8.2	6.4	6.2	4.6	6.8	6.4	9.2	6.9	10.0	11.5	12.7	19.2	13.4	10.3	9.6	12.0	11.7	11.0	9.0	19.2
17	7.3	5.4	6.4	9.9	9.8	10.8	10.3	9.6	7.9	7.2	7.3	7.8	10.4	13.0	13.4	15.2	12.1	9.8	10.4	11.7	9.8	10.3	9.9	8.6	15.2
18	10.5	9.3	7.5	7.0	3.9	2.3	4.5	4.1	5.1	4.8	7.8	8.2	7.7	10.3	8.6	10.9	9.1	9.0	6.2	7.1	4.7	5.3	4.4	6.6	10.9
19	5.9	7.1	4.9	3.8	4.5	3.5	2.7	2.7	2.4	3.2	4.5	8.2	9.5	7.3	6.9	8.5	7.9	7.2	9.2	7.9	5.5	3.4	3.8	7.0	9.5
20	8.1	9.1	10.8	10.6	11.1	11.0	9.0	7.7	7.6	8.2	9.3	9.3	9.9	10.2	13.4	14.1	11.5	13.4	12.4	10.5	11.1	11.9	11.6	11.1	14.1
21	11.5	12.6	13.5	11.7	10.2	8.1	7.0	5.6	4.6	3.5	5.9	7.1	6.9	5.2	8.2	7.5	9.8	7.7	6.8	9.4	9.2	6.7	6.0	5.5	13.5
22	6.5	6.7	8.8	7.9	6.4	6.6	5.2	2.9	3.6	3.3	5.4	7.8	9.1	11.1	11.1	10.9	11.0	9.4	7.9	11.1	12.1	13.2	11.3	13.4	13.4
23	12.8	12.6	12.3	14.0	13.0	14.5	14.7	13.5	12.3	14.3	14.7	16.4	19.6	20.7	17.3	16.8	15.8	14.7	13.3	13.5	14.5	15.6	14.2	14.4	20.7
24	15.1	15.7	16.6	14.4	14.1	14.4	13.0	12.2	11.9	11.4	9.7	9.1	8.9	10.5	11.1	12.4	13.1	10.3	9.4	9.5	9.6	9.7	8.6	7.5	16.6
25	7.8	8.1	8.7	8.5	9.3	9.4	9.0	9.2	10.5	12.4	12.3	12.8	12.0	11.7	13.3	12.3	10.7	10.7	14.4	13.0	12.6	9.6	10.6	10.6	14.4
26	14.4	12.0	9.7	11.9	10.8	10.0	11.3	9.7	8.5	9.7	12.2	12.4	12.8	15.3	14.7	15.0	14.4	11.9	11.8	11.1	13.6	13.6	13.4	14.4	15.3
27	15.3	13.4	12.4	13.0	11.6	12.3	14.5	14.0	13.4	10.9	9.4	12.5	12.8	14.5	11.6	13.4	12.5	12.3	10.7	13.2	8.7	10.0	8.7	8.1	15.3
28	10.2	11.1	10.2	11.4	12.7	13.7	13.4	14.7	11.4	11.8	13.3	13.8	13.6	14.1	12.9	14.1	12.9	14.8	12.8	14.4	17.4	16.1	16.6	20.3	20.3
29	19.6	19.7	18.4	15.5	15.2	13.4	13.6	9.9	6.8	5.3	5.7	8.1	8.2	10.1	8.3	8.4	9.0	6.5	4.8	6.2	6.7	6.3	5.8	4.5	19.7
30	4.8	5.7	7.1	8.6	8.1	8.2	34.0	[PA]	6.6	5.0	5.9	7.5	7.5	9.3	8.5	8.2	7.0	6.6	4.6	4.5	3.3	3.2	2.7	3.4	

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Shadow Mountain

ELEVATION : 4120 feet

PARAMETER : Peak Wind Gust (meters per second)

LATITUDE : 34 degrees 44 minutes 15 seconds

LONGITUDE : 117 degrees 33 minutes 54 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																								
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.
1	8.5	8.1	8.5	8.6	8.2	8.9	8.0	5.2	4.3	5.5	6.4	5.6	7.6	8.5	21.7	23.2	15.6	15.4	14.3	6.8	4.2	3.6	4.6	4.3	23.2
2	3.7	4.5	4.5	3.0	2.7	2.0	2.6	4.3	4.8	4.5	6.9	7.1	7.2	8.2	10.9	17.6	17.3	11.8	8.4	7.9	8.8	9.3	8.3	7.4	17.6
3	7.9	6.8	6.2	5.6	3.9	3.5	2.5	5.4	5.3	5.5	5.2	5.7	7.9	7.3	6.7	7.6	14.7	14.6	12.5	11.4	10.7	10.0	10.2	11.2	14.7
4	9.3	9.8	10.2	10.1	11.8	11.1	8.5	7.3	7.1	4.8	6.6	7.9	9.8	10.5	10.9	15.3	13.0	13.1	11.3	10.6	12.6	10.7	10.4	10.4	15.3
5	9.0	8.5	8.9	8.2	7.6	6.0	3.9	3.9	4.6	4.3	4.5	6.1	5.5	7.6	9.5	10.6	12.3	13.2	11.9	9.1	6.9	7.0	7.2	6.9	13.2
6	8.2	8.8	8.6	8.3	6.1	6.8	6.0	3.0	3.6	7.3	8.2	8.4	11.6	14.0	13.8	15.1	14.7	14.7	14.8	13.2	13.6	14.1	13.4	12.4	15.1
7	12.0	11.9	12.3	10.7	10.8	9.3	8.3	6.0	7.8	10.2	10.7	12.4	13.2	13.8	15.6	16.8	16.9	17.0	14.7	14.6	16.4	15.6	14.6	14.2	17.0
8	13.6	13.9	13.3	12.0	12.2	12.9	12.5	11.9	13.3	13.7	13.3	15.7	16.4	18.5	17.5	17.0	16.4	15.1	13.7	14.5	15.7	14.7	14.9	15.2	18.5
9	15.0	14.8	12.7	13.6	13.8	13.4	13.4	12.0	10.3	13.0	12.4	10.9	10.4	11.2	12.4	12.8	14.8	14.4	13.6	13.0	12.2	9.7	8.4	8.9	15.0
10	9.4	9.4	8.4	8.7	7.6	6.1	3.9	4.2	4.4	4.5	5.2	7.1	7.3	8.1	9.5	11.1	11.8	10.9	11.0	11.1	10.4	10.2	10.7	8.6	11.8
11	8.2	7.9	8.1	8.5	7.6	6.0	6.6	6.2	4.5	4.7	5.4	6.3	7.9	9.3	8.0	7.7	7.7	7.4	12.4	10.5	8.7	7.9	7.6	7.8	12.4
12	8.3	8.2	8.0	8.4	8.5	8.3	7.6	7.3	7.0	6.3	6.7	9.8	11.9	11.2	10.7	9.4	9.7	11.9	12.2	11.3	11.3	11.0	11.8	10.7	12.2
13	10.5	9.4	7.6	8.0	7.7	6.6	5.2	4.1	3.0	4.7	5.5	6.7	9.2	9.7	12.7	10.1	11.0	9.6	7.8	8.1	7.8	5.9	4.7	4.6	12.7
14	3.6	3.6	2.7	2.2	4.2	5.1	4.8	4.2	3.8	7.7	8.5	10.1	11.6	8.2	9.6	9.0	7.6	10.0	14.5	11.0	8.0	7.2	6.4	6.3	14.5
15	6.7	6.4	6.5	5.6	5.0	3.8	3.4	2.8	3.8	6.0	8.0	9.8	8.8	8.7	6.9	7.3	16.7	16.4	13.6	12.8	12.3	11.7	11.6	10.7	16.7
16	10.3	10.1	10.6	9.5	10.7	10.7	10.2	10.2	10.1	10.8	12.3	13.7	15.8	17.0	19.0	19.6	18.5	16.8	14.0	13.4	12.3	12.3	10.5	9.5	19.6
17	7.9	8.3	8.4	7.4	6.4	6.7	7.2	7.6	6.0	7.8	11.4	13.9	16.6	16.1	14.0	13.6	15.1	14.7	13.1	13.9	15.4	12.8	12.4	10.3	16.6
18	9.8	10.7	9.2	5.1	4.6	3.8	3.0	3.0	4.1	10.1	12.4	11.1	11.0	10.9	10.4	10.6	8.8	7.1	6.3	6.2	7.6	7.7	5.6	4.8	12.4
19	6.0	5.3	3.1	4.0	5.0	4.6	5.0	3.5	4.4	4.4	4.9	5.7	7.7	7.2	7.0	8.4	7.6	8.0	10.4	11.9	12.3	13.2	12.0	11.4	13.2
20	11.2	11.2	10.5	11.0	10.1	10.6	10.9	10.6	10.3	11.7	11.9	12.4	11.6	11.0	15.4	15.9	16.9	15.7	13.8	13.8	13.5	13.3	13.4	13.2	16.9
21	12.6	12.7	12.0	11.1	9.9	9.0	7.2	6.6	8.3	12.9	13.5	12.4	11.7	9.8	7.3	7.3	8.7	9.4	8.5	10.3	10.9	10.1	9.3	8.5	13.5
22	7.8	7.6	7.6	7.0	5.6	5.4	5.6	6.2	5.8	4.3	6.6	9.0	10.0	10.8	12.6	12.8	15.6	13.5	13.9	12.9	12.4	11.1	12.6	14.2	15.6
23	14.7	15.0	15.1	12.4	11.5	12.3	13.7	13.3	14.3	19.5	18.3	19.8	21.4	21.5	21.2	20.2	19.3	17.5	16.0	16.4	15.4	15.0	15.4	15.7	21.5
24	15.0	15.5	15.6	14.2	14.0	12.4	12.6	11.6	13.0	12.4	12.0	13.1	13.1	12.8	15.5	15.6	16.9	15.8	15.9	13.0	12.4	12.2	13.1	11.5	16.9
25	12.3	12.6	12.0	13.6	12.7	13.9	13.8	10.8	12.8	15.1	15.1	15.1	16.6	17.4	17.4	17.0	15.7	15.9	15.1	14.0	13.1	13.7	14.4	15.4	17.4
26	12.9	11.5	12.0	12.8	12.4	13.0	12.5	10.9	8.3	8.4	9.5	12.3	12.3	12.4	14.4	14.5	12.4	10.8	9.2	8.0	8.5	9.8	9.4	9.1	14.5
27	9.8	11.9	10.6	10.1	11.6	10.7	10.0	9.3	8.1	8.7	9.7	9.7	11.9	10.8	11.5	13.9	13.9	13.4	13.3	13.8	14.5	12.7	14.3	13.1	14.5
28	14.2	16.5	15.9	16.2	17.0	17.3	17.9	17.5	15.2	14.8	15.8	16.8	18.5	18.6	18.0	19.2	19.3	18.4	19.3	20.3	18.4	16.8	18.6	19.9	20.3
29	22.4	21.9	20.1	19.6	16.5	14.5	12.9	10.7	9.5	7.7	6.7	7.3	5.9	5.0	6.2	6.7	5.7	4.0	6.6	6.3	5.8	5.0	4.8	4.4	22.4
30	4.5	7.2	7.9	9.2	11.1	9.2	10.1	10.3	10.4	11.0	[PA]	8.7	8.2	6.3	6.2	6.1	3.7	5.1	5.0	7.2	6.8	5.5	6.5	6.6	

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Baldy Mesa

ELEVATION : 4250 feet

PARAMETER : Wind Direction

LATITUDE : 34 degrees 23 minutes 20 seconds

LONGITUDE : 117 degrees 26 minutes 33 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																						
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	219	222	210	240	189	32	350	45	90	116	171	183	187	165	178	208	181	174	201	209	200	243	258	262
2	288	304	300	285	7	299	333	108	132	180	192	191	180	168	167	159	202	202	201	197	204	267	242	218
3	220	206	217	263	143	219	312	69	83	101	170	178	181	175	172	177	185	195	208	212	206	211	221	245
4	248	218	237	223	224	223	220	207	191	191	174	173	167	161	159	163	168	168	155	170	190	226	237	207
5	217	241	240	249	286	172	174	183	187	182	178	171	173	177	174	183	177	172	155	168	175	184	208	216
6	214	219	213	216	218	219	215	215	204	201	198	203	199	195	195	196	205	215	216	219	219	219	217	215
7	213	217	223	216	214	209	206	208	202	205	208	199	199	196	193	197	198	206	212	215	212	213	218	219
8	216	215	216	218	219	210	206	211	209	210	199	192	189	191	193	193	194	195	204	208	210	212	209	213
9	209	208	215	213	211	212	211	210	207	202	200	192	194	191	192	194	199	200	202	200	201	202	203	201
10	205	205	211	211	214	212	211	214	206	199	202	197	199	195	197	202	199	206	211	213	211	213	223	216
11	219	216	220	220	216	215	129	101	80	80	54	9	324	332	346	321	208	213	218	218	229	272	254	274
12	140	180	221	5	296	278	19	24	17	349	347	349	307	2	337	267	230	206	250	274	273	255	178	143
13	327	335	299	130	123	64	92	359	348	17	23	12	35	10	9	38	6	28	221	222	222	218	219	263
14	267	102	110	144	134	138	16	66	91	122	145	190	188	200	189	183	188	203	207	270	188	199	216	216
15	248	291	289	297	318	308	167	121	88	117	169	196	179	188	192	188	182	193	210	218	215	214	222	221
16	225	218	217	220	228	219	219	214	209	208	201	201	203	203	203	200	204	208	215	215	218	219	218	218
17	219	217	219	215	213	203	206	206	204	198	191	186	181	186	190	192	196	213	211	214	223	228	224	227
18	227	119	62	290	278	287	331	338	360	15	27	37	34	13	22	35	217	213	216	217	217	220	265	190
19	179	177	149	139	151	84	265	344	1	55	57	61	59	196	186	194	193	209	217	215	215	217	218	217
20	218	226	221	221	221	220	220	207	201	211	199	203	200	199	201	210	214	216	214	214	216	215	215	219
21	216	215	221	224	218	216	306	326	352	4	13	41	81	205	198	206	211	214	216	213	219	217	221	222
22	224	219	221	221	211	218	230	224	224	198	197	202	198	194	197	202	203	215	217	219	227	220	224	253
23	258	246	227	233	244	254	269	302	311	294	303	226	201	214	209	209	211	218	215	216	221	223	226	219
24	219	219	226	219	212	223	212	192	238	217	200	195	199	198	197	206	210	212	209	215	219	219	220	217
25	221	215	215	218	221	221	212	206	201	202	199	189	189	192	194	196	199	208	212	211	215	208	206	202
26	204	208	213	211	206	208	208	209	210	206	206	199	194	194	188	186	187	192	195	204	217	210	213	203
27	200	212	208	213	216	211	206	205	210	205	197	200	194	190	194	198	201	203	208	206	216	213	216	216
28	217	214	216	211	214	212	201	201	[PA]	193	197	198	197	199	199	199	201	202	200	202	206	194	202	207
29	206	203	202	201	204	255	326	317	329	354	360	9	22	357	349	27	21	27	354	286	285	294	308	295
30	299	298	313	308	298	293	308	349	34	49	26	40	29	9	354	2	17	18	36	345	287	285	290	286

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Boron

LATITUDE : 35 degrees 01 minutes 00 seconds

MONTH : September

ELEVATION : 2460 feet

LONGITUDE : 117 degrees 39 minutes 00 seconds

YEAR : 1995

PARAMETER : Wind Direction

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	324	358	288	265	275	296	89	298	236	119	234	252	258	259	268	192	166	171	187	220	251	225	296	278
2	332	68	94	98	125	357	93	52	301	294	288	304	286	291	84	100	116	108	87	51	276	234	247	125
3	42	59	38	125	101	96	88	35	274	312	271	202	343	288	303	259	193	245	258	259	258	240	236	273
4	242	241	296	273	256	92	78	84	219	265	265	249	251	264	263	260	261	261	265	247	252	263	288	246
5	244	28	248	71	71	83	63	344	290	260	281	265	278	286	255	258	265	259	253	254	251	333	291	162
6	324	93	35	75	328	328	274	242	277	301	250	247	247	250	248	252	253	249	251	246	243	243	231	247
7	245	249	244	285	289	274	97	199	254	245	236	249	250	249	248	245	238	241	242	240	238	235	234	237
8	241	254	241	237	247	242	283	256	238	234	245	244	240	235	240	236	235	235	232	228	229	237	242	243
9	272	290	277	284	281	272	258	249	245	246	244	246	240	243	244	244	240	242	244	252	260	255	264	256
10	253	251	247	280	112	95	90	51	252	249	246	242	247	241	249	252	252	248	239	244	248	249	243	232
11	277	288	116	76	73	89	96	286	256	239	305	290	231	237	273	247	244	246	260	265	258	240	239	237
12	246	276	265	272	133	91	81	293	264	281	294	289	294	296	315	337	313	281	281	278	247	238	232	233
13	239	338	186	254	257	93	105	236	276	295	258	64	105	105	105	88	90	107	110	106	105	224	335	74
14	21	16	132	85	59	65	117	270	299	52	86	97	121	117	98	73	54	87	230	248	265	84	77	298
15	300	312	82	93	91	59	143	300	122	258	290	315	122	354	360	270	261	247	246	249	233	236	238	234
16	261	308	293	297	79	79	60	290	252	252	248	244	245	244	236	237	233	236	249	241	236	240	238	240
17	248	245	277	258	256	255	256	259	240	246	242	255	244	248	251	260	264	265	254	247	236	227	229	224
18	258	258	78	79	114	92	69	79	265	282	211	146	81	114	101	95	97	98	102	61	156	243	257	284
19	284	270	128	96	84	100	80	48	268	261	16	108	77	138	89	65	223	259	237	229	233	238	238	238
20	230	191	243	240	232	127	80	93	243	242	266	262	277	279	248	256	262	264	247	244	230	228	229	229
21	227	231	243	238	267	268	91	87	111	94	88	91	83	75	94	95	75	67	98	193	265	258	306	85
22	86	85	66	109	118	88	91	317	215	213	60	339	256	270	238	254	242	262	233	225	226	233	236	230
23	231	227	230	231	234	232	235	238	233	252	274	272	271	269	267	274	274	269	269	266	254	235	234	228
24	229	235	231	231	231	233	231	237	238	248	254	263	248	253	260	262	265	268	247	240	229	231	226	227
25	227	233	227	227	221	223	227	232	236	233	242	240	246	257	269	274	275	271	262	246	237	237	240	246
26	245	249	243	258	241	267	255	247	234	242	249	246	249	255	254	255	252	249	249	250	247	233	240	244
27	234	239	239	224	227	215	223	230	213	240	272	255	242	240	252	251	253	247	237	231	237	241	236	233
28	228	234	235	233	233	232	231	230	230	233	245	242	239	239	241	245	245	239	241	240	237	244	248	256
29	259	266	245	242	233	232	[PA]	[PA]	238	256	307	150	189	261	280	259	219	231	249	261	246	251	40	276
30	274	118	60	134	85	181	327	252	259	227	96	113	115	136	207	252	216	240	249	237	233	251	348	89

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Catalina Airport

ELEVATION : 1602 feet

PARAMETER : Wind Direction

LATITUDE : 33 degrees 24 minutes 00 seconds

LONGITUDE : 118 degrees 24 minutes 30 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	314	311	308	309	309	310	307	310	312	310	306	300	299	291	287	314	311	326	324	316	307	312	315	309
2	306	307	315	303	315	318	322	300	315	328	320	297	255	248	241	245	251	245	274	306	301	309	332	325
3	327	330	289	261	280	242	290	297	313	302	298	292	244	246	251	250	274	295	281	287	296	293	293	278
4	205	237	242	250	284	223	161	175	206	215	215	224	244	233	241	255	289	285	247	272	301	305	339	119
5	20	45	62	66	30	108	137	128	228	250	253	240	259	258	249	224	247	146	131	131	128	149	146	155
6	183	166	120	142	143	160	156	159	167	165	288	218	209	226	222	240	237	240	242	241	239	232	237	245
7	254	263	276	217	225	279	38	37	111	221	231	239	248	245	244	244	243	241	239	247	258	253	283	306
8	291	292	320	342	329	254	145	219	200	212	240	219	232	236	232	233	194	224	236	234	264	292	290	204
9	215	210	215	228	202	169	238	127	24	8	265	254	252	237	234	234	229	227	227	228	229	226	230	232
10	237	233	225	223	227	225	236	227	215	241	298	308	253	249	236	231	228	229	223	250	246	272	298	324
11	335	342	332	11	234	321	219	228	209	224	228	241	243	241	240	242	243	251	269	296	297	303	311	322
12	321	313	317	315	291	291	288	277	185	207	261	253	242	246	243	246	251	257	295	307	310	312	315	316
13	296	315	9	348	313	307	313	349	9	13	348	333	295	297	249	259	299	295	306	306	309	305	303	316
14	305	336	201	355	186	102	227	193	138	153	140	134	146	204	225	220	224	239	293	319	330	319	327	293
15	302	338	335	331	318	323	23	102	181	165	184	225	216	225	238	248	260	250	232	205	159	153	155	88
16	127	148	144	135	143	134	131	130	139	250	338	16	299	267	266	254	242	294	63	128	128	99	62	37
17	5	344	6	360	347	1	342	350	221	270	253	247	243	243	241	241	261	264	265	274	298	237	310	95
18	134	63	215	36	107	99	117	132	196	228	249	247	251	256	252	245	219	121	110	100	105	106	106	102
19	131	111	108	123	58	57	79	20	233	217	247	251	240	233	236	245	229	217	281	336	144	147	167	70
20	50	11	344	325	355	334	300	204	216	225	237	237	236	235	237	242	292	269	262	305	351	294	172	200
21	199	211	224	225	221	185	201	202	172	105	267	251	256	252	238	227	221	183	211	178	129	123	136	80
22	63	66	59	5	15	44	23	313	313	231	248	250	247	241	234	230	253	300	311	298	310	323	302	283
23	310	312	322	274	263	250	200	114	192	220	238	241	243	247	316	264	251	265	288	301	298	268	334	304
24	326	347	313	321	302	265	287	352	6	221	242	238	236	240	241	243	253	261	297	304	297	322	307	270
25	263	233	239	225	195	190	230	120	171	233	228	279	254	250	248	229	237	216	214	191	241	265	206	136
26	161	130	171	217	204	158	166	159	165	145	116	126	230	121	120	233	251	304	7	5	56	67	127	115
27	125	130	111	116	128	123	105	113	109	116	202	246	271	277	293	347	346	5	343	337	322	320	295	285
28	263	242	272	259	247	252	240	241	242	241	249	242	252	246	242	249	249	240	234	233	265	333	349	273
29	239	229	212	50	73	149	246	239	121	299	353	312	283	276	257	248	243	260	277	306	318	331	360	49
30	78	51	35	6	332	306	318	327	3	72	347	360	331	298	267	250	245	250	263	302	306	306	299	307

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Flash II Mountain
ELEVATION : 3325 feet
PARAMETER : Wind Direction

LATITUDE : 34 degrees 58 minutes 15 seconds
LONGITUDE : 117 degrees 02 minutes 22 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	255	260	271	287	292	276	274	259	257	232	258	265	221	165	132	187	205	202	216	234	242	289	284	302
2	305	313	297	316	305	308	318	316	329	281	229	204	103	179	168	67	213	339	308	253	251	256	249	249
3	254	258	265	290	289	293	283	278	297	252	294	299	216	210	209	205	206	205	215	230	251	249	233	239
4	253	248	255	259	253	238	251	250	245	233	292	296	252	223	213	213	230	232	239	247	269	277	269	258
5	261	264	278	298	299	278	264	310	324	320	324	274	222	228	235	278	291	254	225	222	226	229	248	255
6	279	268	255	249	249	253	265	272	262	233	232	244	242	249	234	246	244	248	236	232	244	247	255	255
7	238	241	250	248	267	187	203	213	233	235	231	232	227	231	232	231	231	228	228	227	229	227	244	248
8	254	260	256	253	261	254	245	243	237	230	234	232	231	232	233	228	227	229	221	225	225	230	234	242
9	252	249	254	257	255	255	256	250	235	229	232	233	217	209	219	213	219	226	226	222	233	254	254	255
10	246	262	289	292	293	300	308	306	303	271	253	231	244	257	251	278	236	245	250	250	253	259	282	300
11	276	260	254	253	247	261	268	250	258	260	269	241	237	238	243	256	250	252	252	255	275	258	253	253
12	239	243	243	250	256	252	259	258	254	245	248	253	269	281	262	235	232	272	303	321	272	233	236	231
13	237	237	247	256	253	259	271	264	258	265	281	237	113	86	81	120	95	96	78	63	43	42	37	312
14	304	280	238	328	331	319	320	274	178	106	104	120	113	114	109	106	92	99	100	113	178	199	223	254
15	268	263	281	304	287	292	269	221	236	233	203	211	228	200	226	228	237	220	241	244	241	226	228	256
16	258	251	241	256	259	269	250	241	235	237	230	245	262	229	237	235	228	228	228	239	252	250	254	254
17	258	258	252	244	261	292	301	299	280	259	233	230	223	232	230	231	233	245	239	237	246	251	243	236
18	251	284	265	265	274	276	272	303	307	279	223	179	82	80	100	77	82	85	86	71	62	54	292	282
19	301	262	262	289	277	268	290	316	308	297	294	199	170	107	104	206	208	228	238	224	239	234	247	239
20	232	241	246	254	240	229	228	233	229	230	237	235	221	230	236	233	229	228	224	222	225	224	228	237
21	239	242	235	238	240	257	324	358	89	127	90	83	91	71	89	91	81	84	82	82	80	194	210	219
22	234	232	237	228	243	256	232	216	211	217	215	212	228	227	221	227	211	217	228	238	228	231	241	233
23	253	236	244	236	241	243	232	231	236	244	247	237	238	233	226	233	239	254	246	235	228	228	240	234
24	237	247	252	257	248	242	240	226	228	236	236	235	228	239	237	228	229	235	236	226	233	233	233	230
25	234	226	230	228	228	228	224	225	228	233	228	229	228	228	229	230	231	227	229	228	229	231	228	227
26	245	239	235	233	232	233	230	228	228	228	228	228	226	231	225	207	217	220	228	242	250	252	250	252
27	258	263	251	246	258	254	255	252	245	228	228	231	227	217	221	218	213	223	230	230	231	242	251	238
28	244	235	236	238	234	229	223	233	230	228	229	230	229	227	228	228	229	229	231	230	229	226	225	228
29	230	231	232	239	236	234	232	233	229	226	233	238	230	267	263	251	233	258	250	18	66	224	294	338
30	28	16	196	59	63	70	73	85	111	99	86	96	115	61	260	218	217	218	211	155	94	70	49	323

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Ludlow
ELEVATION : 1782 feet
PARAMETER : Wind Direction

LATITUDE : 34 degrees 42 minutes 36 seconds
LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

DATE	HOUR (PST) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	254	248	256	254	252	259	255	258	268	235	128	139	137	131	135	131	160	200	244	235	235	241	241	200
2	230	251	253	249	247	243	250	186	339	80	123	127	130	133	147	211	277	269	259	257	226	218	261	267
3	271	257	255	258	262	259	266	265	290	21	36	208	94	198	145	141	157	190	206	205	207	260	248	258
4	285	239	257	249	236	247	260	269	340	28	43	94	150	144	175	187	195	188	190	281	291	299	260	253
5	250	250	256	251	252	254	259	283	333	148	138	138	133	133	123	143	301	84	156	111	230	71	259	226
6	222	263	250	252	256	260	263	262	269	300	17	59	332	119	195	247	225	222	210	295	282	283	271	257
7	125	197	221	166	147	145	155	155	151	61	52	176	170	141	138	178	167	165	175	312	290	276	274	270
8	302	318	316	354	267	257	254	255	258	323	19	353	256	11	305	290	297	298	289	265	308	270	266	254
9	281	199	232	266	270	274	263	269	275	258	12	14	213	143	167	133	167	191	216	260	253	253	250	261
10	263	263	261	256	256	256	269	272	276	345	7	338	9	41	325	347	36	9	346	170	209	288	242	263
11	253	253	255	259	253	262	272	263	270	321	2	358	7	65	301	274	282	291	290	275	250	222	245	231
12	228	241	237	256	260	261	260	270	267	6	355	6	347	313	324	313	319	327	301	213	195	235	261	258
13	256	259	257	257	261	261	265	267	340	336	339	8	360	358	317	29	292	243	212	188	187	215	240	217
14	211	205	190	223	229	216	219	354	140	150	155	132	130	128	148	156	162	140	140	140	141	201	210	295
15	192	182	189	199	206	238	150	70	164	142	145	158	219	83	142	179	165	163	163	187	208	234	263	246
16	184	234	183	188	201	158	137	138	133	143	141	131	126	135	155	165	142	158	178	276	262	265	262	243
17	240	240	251	211	225	229	268	258	275	265	296	343	310	208	327	280	286	278	270	262	266	289	258	259
18	250	272	271	255	258	266	255	275	331	308	343	345	338	318	295	296	346	3	254	199	194	187	194	227
19	158	225	217	256	267	266	266	267	267	255	328	348	256	300	214	351	68	351	158	174	180	97	259	220
20	217	218	198	190	214	202	214	331	353	28	266	311	195	143	190	172	203	159	157	284	268	268	258	258
21	283	255	256	257	267	261	243	284	278	353	351	11	350	33	24	345	336	344	1	94	119	230	165	121
22	211	228	204	186	197	225	211	269	20	142	144	146	125	128	116	133	140	138	148	186	280	262	261	263
23	267	268	268	247	242	251	244	250	264	278	295	300	300	299	294	294	294	294	288	275	265	263	264	302
24	60	285	256	270	281	258	258	271	283	280	302	335	337	12	360	272	276	302	297	280	258	267	280	280
25	255	261	268	264	264	226	252	278	95	47	69	26	151	170	172	192	282	291	292	297	293	283	274	244
26	184	179	174	226	230	258	257	270	269	289	112	59	71	169	137	139	168	176	276	263	244	253	256	262
27	260	259	257	254	254	246	276	287	318	303	356	5	8	134	152	140	127	157	224	250	287	278	269	269
28	278	255	289	252	301	84	239	274	283	304	35	292	78	106	354	257	278	283	273	278	280	275	287	316
29	321	291	288	277	271	280	283	284	288	338	351	356	358	355	356	340	331	323	306	268	231	192	227	210
30	206	224	241	207	260	179	116	315	324	340	332	335	337	341	[PA]	[PA]	6	360	326	225	183	192	224	212

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Palmdale

ELEVATION : 2760 feet

PARAMETER : Wind Direction

LATITUDE : 34 degrees 33 minutes 26 seconds

LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	195	190	208	194	31	256	180	61	56	43	272	252	251	252	257	233	227	221	216	214	283	87	209	227
2	242	190	235	234	228	181	271	4	66	24	17	45	7	287	271	231	233	223	232	246	232	331	296	205
3	172	211	207	23	68	138	110	333	52	43	82	95	184	274	259	245	227	227	235	254	290	244	222	231
4	273	204	230	206	190	217	332	255	229	228	247	241	254	255	261	258	261	267	253	232	251	91	29	312
5	225	251	271	246	173	279	272	29	78	54	68	66	53	138	194	230	232	255	245	235	229	110	84	209
6	224	208	208	205	192	129	121	172	206	213	221	225	229	234	225	221	225	225	223	307	262	227	227	241
7	234	246	205	149	185	165	130	260	258	229	229	230	231	227	227	235	231	248	232	219	243	227	225	233
8	255	228	88	159	210	188	205	174	218	217	222	227	231	221	236	244	231	228	235	235	228	223	215	165
9	226	238	209	237	204	83	194	211	212	215	214	220	230	229	229	229	229	235	234	253	255	233	209	162
10	141	102	31	138	171	175	153	328	24	54	218	223	238	267	274	231	228	229	221	211	215	245	46	316
11	222	19	232	232	211	238	250	339	11	44	51	1	39	56	65	310	247	245	225	246	192	229	214	193
12	185	214	188	200	221	226	241	219	38	28	48	26	36	333	323	312	309	288	275	244	241	234	229	191
13	158	185	199	206	210	224	220	100	58	17	28	45	54	63	84	68	22	15	223	238	172	248	247	208
14	231	237	225	214	228	250	238	18	55	57	24	33	57	119	252	231	265	234	231	212	36	217	204	230
15	216	229	242	210	224	249	246	299	15	61	51	55	313	252	252	247	239	230	222	216	73	310	286	205
16	245	190	172	185	121	220	212	219	225	228	240	247	244	247	265	261	254	248	244	229	270	56	77	224
17	267	226	245	1	208	247	192	37	48	270	244	225	238	244	245	248	253	270	244	224	162	226	241	209
18	230	216	234	202	223	251	238	75	44	56	59	47	44	52	83	54	55	138	218	218	219	214	236	243
19	231	209	210	235	218	227	239	321	3	38	356	354	344	224	349	252	241	236	232	225	223	238	193	215
20	244	323	242	263	226	226	208	243	226	206	218	235	237	242	248	247	244	239	233	240	246	244	215	217
21	221	217	204	202	208	209	187	108	53	38	49	67	53	10	39	280	247	235	211	185	147	272	242	238
22	211	227	224	58	42	77	261	247	71	53	272	238	243	240	238	231	230	255	233	230	236	254	258	260
23	268	282	280	259	263	277	43	354	293	298	305	311	260	250	248	248	251	251	247	257	228	263	275	264
24	261	248	252	213	201	249	128	71	85	321	299	251	267	245	242	246	246	242	247	228	233	350	266	249
25	265	246	235	242	285	244	230	226	237	258	260	242	235	232	238	245	245	249	274	265	272	242	226	230
26	240	274	96	25	123	192	201	167	278	213	219	226	229	226	223	220	214	212	211	359	318	6	40	76
27	91	101	99	199	234	158	205	41	26	210	230	229	231	248	243	246	248	319	314	315	230	42	257	241
28	230	249	231	220	210	216	226	227	254	265	250	247	237	233	233	223	213	215	232	250	227	237	242	241
29	231	248	187	247	212	281	274	311	5	3	10	[PA]	[PA]	16	324	321	322	308	281	261	203	164	161	186
30	221	223	243	238	244	228	287	4	10	39	38	28	16	16	44	10	330	308	281	258	185	228	229	194

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Quartzite Mountain

LATITUDE : 34 degrees 36 minutes 38 seconds

MONTH : September

ELEVATION : 4482 feet

LONGITUDE : 117 degrees 17 minutes 20 seconds

YEAR : 1995

PARAMETER : Wind Direction

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	248	278	259	225	219	212	236	241	297	348	334	169	178	182	184	186	176	188	150	152	154	178	187	228
2	225	204	231	227	219	265	165	141	110	176	182	182	184	183	177	184	183	186	186	187	196	226	326	329
3	325	340	358	12	12	16	1	31	84	67	149	191	183	185	184	185	186	187	191	216	246	214	207	216
4	224	235	241	234	211	197	176	168	176	183	185	185	186	184	183	185	186	187	189	206	263	246	222	225
5	223	225	239	272	261	186	178	173	169	182	183	185	184	186	185	184	185	184	182	184	186	187	188	188
6	191	191	191	187	190	189	193	182	175	161	353	269	230	189	187	186	185	185	194	201	215	206	209	216
7	205	198	208	228	245	190	169	182	185	181	203	221	208	186	184	183	185	184	183	189	193	189	200	214
8	214	209	197	200	200	200	198	179	186	188	184	183	185	184	186	188	187	191	191	192	192	193	194	198
9	194	187	184	185	189	191	189	189	187	189	184	186	183	186	184	185	183	184	184	185	186	189	191	189
10	190	188	189	188	187	189	188	187	186	186	186	188	189	181	187	185	185	189	198	194	186	186	190	188
11	299	284	202	192	188	201	251	325	344	280	287	280	330	318	333	335	328	340	327	299	273	287	276	245
12	217	216	217	214	217	216	220	212	221	238	322	315	328	298	298	319	333	349	333	273	264	269	244	226
13	227	224	223	225	265	275	283	255	2	1	356	3	51	51	52	39	67	63	64	103	173	174	185	190
14	194	191	144	102	95	70	128	140	135	168	166	165	167	172	201	184	178	158	171	256	269	246	246	183
15	185	182	255	309	319	335	6	144	152	163	162	183	183	187	190	191	183	189	212	193	186	194	200	204
16	207	187	185	183	185	186	184	183	191	212	218	209	264	228	228	199	214	205	204	207	214	214	212	220
17	209	202	217	201	188	188	188	183	186	187	201	213	194	183	184	184	185	186	200	212	216	224	223	242
18	221	245	294	252	200	220	19	16	27	30	46	52	48	56	59	38	52	53	87	103	129	139	243	256
19	239	236	255	265	317	341	360	1	344	340	345	352	346	329	297	313	326	312	189	204	193	236	198	193
20	209	209	216	215	216	214	213	209	218	210	212	200	216	212	198	183	196	210	202	211	214	211	205	207
21	214	216	215	221	218	249	302	321	349	10	78	64	165	189	171	197	187	189	186	187	208	206	205	203
22	204	208	216	210	208	209	199	229	218	289	247	218	201	191	183	185	193	211	200	217	217	216	214	215
23	217	221	224	220	224	226	219	221	225	263	259	252	244	267	273	261	262	243	241	216	215	221	217	215
24	213	215	216	217	219	217	217	216	219	248	274	255	249	219	217	197	186	203	210	198	193	198	201	198
25	206	205	213	210	208	213	207	195	190	185	202	205	186	184	185	185	188	186	208	200	195	188	188	193
26	202	207	218	215	201	204	195	195	192	194	188	186	184	184	185	185	185	186	184	188	194	198	186	186
27	184	190	193	186	201	195	188	184	186	184	190	186	186	184	185	184	186	191	200	202	195	191	191	198
28	211	212	209	215	219	216	223	217	204	187	201	205	185	185	185	182	191	194	200	212	220	219	219	216
29	214	213	216	221	218	233	240	264	294	317	345	358	9	354	345	342	345	346	359	309	313	344	15	37
30	72	57	65	65	61	58	65	[PA]	56	96	90	41	26	36	360	346	345	355	8	6	347	226	261	286

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Shadow Mountain

ELEVATION : 4120 feet

PARAMETER : Wind Direction

LATITUDE : 34 degrees 44 minutes 15 seconds

LONGITUDE : 117 degrees 33 minutes 54 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

DATE	HOUR (PST) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	258	256	251	262	270	272	274	272	257	272	300	213	183	165	151	164	161	136	118	153	135	257	254	269
2	274	264	251	161	263	213	126	54	46	86	210	297	299	246	158	179	169	179	201	280	287	284	278	272
3	274	280	273	264	266	258	196	169	99	72	101	116	117	337	3	38	294	270	272	284	283	276	263	267
4	257	249	264	265	256	248	242	242	244	216	197	264	258	239	268	282	278	280	274	287	290	285	276	276
5	268	272	265	278	268	250	193	111	17	4	351	345	324	348	314	269	285	268	275	263	274	267	238	251
6	288	281	285	290	272	259	242	196	151	254	277	249	252	274	279	275	270	267	267	268	274	273	266	268
7	261	247	253	269	269	257	204	214	233	237	249	260	267	261	274	272	269	267	261	254	249	253	253	255
8	257	258	264	296	49	66	74	106	257	255	261	265	267	271	263	254	255	142	91	236	250	251	251	252
9	254	254	249	251	250	247	250	254	250	255	260	253	249	248	263	266	268	267	266	266	257	250	263	261
10	261	257	260	265	260	250	266	111	99	68	56	263	244	225	242	269	274	267	269	268	271	260	251	272
11	277	276	282	275	262	261	270	277	274	285	287	284	295	314	308	302	312	291	291	278	281	274	274	272
12	259	269	268	262	263	263	272	275	279	281	308	297	312	315	329	328	1	308	293	278	269	264	267	273
13	271	266	255	257	273	281	269	266	314	345	22	56	64	52	52	58	63	57	65	72	89	142	222	238
14	245	260	254	79	83	77	95	120	55	91	100	118	115	110	67	86	93	25	295	286	283	267	234	245
15	270	280	276	281	308	320	342	278	69	37	89	135	128	180	161	206	235	267	254	255	266	265	257	254
16	254	255	253	245	240	241	236	237	248	263	265	279	267	274	273	272	270	265	253	249	258	266	271	268
17	282	280	263	261	246	282	285	294	276	259	257	248	268	273	270	276	280	277	276	275	269	269	263	264
18	256	275	290	318	266	356	9	42	33	46	50	52	58	55	52	62	56	92	99	117	164	271	262	263
19	261	263	288	300	335	1	331	14	277	304	355	27	100	59	60	38	358	356	269	260	256	255	246	246
20	249	257	260	269	256	253	255	259	266	265	260	272	259	273	262	265	262	258	252	254	256	256	256	256
21	258	263	263	258	264	266	284	348	51	53	58	59	60	82	98	105	104	92	125	274	281	272	273	266
22	257	257	262	261	276	282	271	259	280	269	265	260	224	245	251	253	267	262	263	260	256	250	251	262
23	270	265	268	268	265	262	256	265	268	274	277	283	282	277	278	280	279	277	272	268	265	266	272	270
24	262	261	267	266	269	266	271	269	272	271	274	276	268	261	267	276	271	269	266	258	264	260	260	248
25	257	260	256	265	263	259	256	243	240	257	263	270	266	270	275	272	271	271	270	255	259	263	270	270
26	242	253	276	270	272	270	274	244	214	235	242	244	257	258	263	279	280	279	258	247	261	253	248	267
27	263	251	244	237	244	42	42	147	223	240	254	242	247	256	243	266	273	271	272	270	267	270	269	274
28	67	119	118	141	135	157	155	177	256	257	258	259	260	263	260	264	261	258	258	259	256	259	257	264
29	267	267	264	264	267	265	250	249	263	287	7	45	56	2	13	358	16	29	292	271	263	310	7	31
30	45	57	58	67	53	53	43	26	55	63	[PA]	60	46	44	359	9	345	305	326	314	283	249	267	268

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Baldy Mesa

LATITUDE : 34 degrees 23 minutes 20 seconds

MONTH : September

ELEVATION : 4250 feet

LONGITUDE : 117 degrees 26 minutes 33 seconds

YEAR : 1995

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	4.5	8.5	15.0	35.9	13.4	35.8	24.8	37.8	56.1	43.8	26.8	14.0	13.4	13.0	9.5	7.5	10.2	17.9	5.7	5.3	4.4	15.8	6.3	9.0
2	6.9	24.0	8.6	4.6	25.2	8.7	37.8	22.4	23.1	20.2	16.5	17.1	16.9	16.6	14.8	13.6	10.6	9.7	8.2	7.7	7.3	34.4	46.5	5.6
3	4.4	5.1	4.9	13.8	15.6	32.5	18.2	21.7	21.9	32.0	29.4	20.1	14.5	13.3	12.1	11.1	10.4	9.8	7.8	7.4	7.2	7.3	16.1	14.0
4	27.1	23.3	9.7	7.2	8.4	8.4	9.0	11.1	12.6	13.4	17.9	13.4	14.8	13.7	14.4	13.0	11.3	8.8	9.0	5.3	7.8	17.0	8.9	19.2
5	6.9	30.6	12.3	20.2	12.7	12.2	8.4	9.0	10.8	11.6	12.4	12.5	13.1	14.2	13.9	13.1	11.8	11.1	12.3	7.4	8.4	8.2	8.3	8.5
6	8.3	12.7	8.1	8.2	8.4	9.0	9.4	9.8	12.5	13.6	14.7	13.2	13.3	12.5	11.2	9.8	9.4	8.1	8.0	9.4	8.6	8.2	7.3	7.9
7	7.3	7.6	7.6	7.0	6.7	8.3	9.7	10.1	10.8	10.0	12.0	14.2	12.7	11.5	11.4	11.0	10.4	8.6	8.3	8.1	7.5	8.7	8.6	8.3
8	8.5	7.5	8.0	8.1	8.3	8.6	8.6	9.4	9.6	11.2	11.2	11.1	10.6	10.4	10.4	9.8	10.2	9.9	9.4	8.1	8.2	9.4	7.3	6.9
9	7.2	7.5	8.7	7.4	7.6	7.0	8.1	9.3	9.8	10.7	12.9	12.7	10.9	10.8	9.9	9.8	9.6	8.9	9.1	8.1	7.9	8.1	7.8	8.6
10	8.5	7.9	7.7	7.2	8.0	8.1	8.6	10.3	10.8	11.3	11.9	12.1	11.4	11.6	11.6	9.5	8.9	7.8	7.2	7.6	7.0	7.8	11.4	8.4
11	7.5	6.4	6.4	4.4	3.1	3.6	32.4	44.5	27.9	43.7	44.4	55.3	30.3	21.0	28.6	34.8	44.5	7.8	6.8	6.6	6.6	7.2	14.6	5.3
12	28.2	16.8	26.5	50.0	24.2	6.3	40.6	18.4	22.8	25.7	34.6	35.7	42.1	47.3	55.2	67.3	31.8	14.1	17.3	9.6	8.9	11.4	22.0	48.6
13	18.0	26.0	8.5	40.5	13.3	13.1	19.6	26.7	22.4	24.6	25.1	24.7	34.7	46.0	45.2	44.7	40.0	30.3	7.7	7.0	5.1	5.1	4.6	11.1
14	44.9	38.3	36.7	8.9	8.8	12.7	41.5	17.3	18.3	22.7	22.0	15.2	19.5	23.4	30.0	25.9	22.6	8.8	6.7	21.0	39.9	6.8	4.5	4.0
15	22.3	9.4	6.4	5.6	8.6	18.5	41.7	29.6	39.0	47.6	30.5	22.9	21.5	33.8	27.5	19.9	11.9	9.9	7.8	7.9	7.4	7.4	8.8	8.5
16	9.1	7.7	7.5	8.3	16.5	8.6	9.2	9.9	11.6	11.9	10.9	11.3	11.0	11.1	11.0	11.9	9.2	7.8	7.8	7.6	7.4	7.7	7.7	7.5
17	7.6	8.0	8.6	7.2	6.8	8.0	10.6	12.9	11.4	11.7	12.7	13.1	11.7	11.9	11.1	10.3	9.8	9.4	7.5	7.6	10.6	10.1	7.3	9.8
18	28.2	21.2	23.0	9.1	6.5	7.2	8.1	15.9	17.0	21.5	19.4	22.8	29.1	26.4	36.4	28.9	35.1	8.2	7.3	7.2	6.5	4.2	12.6	10.4
19	10.2	7.7	14.2	15.4	15.9	37.6	22.8	19.4	40.0	34.7	57.6	42.1	54.3	17.8	18.5	14.4	10.4	9.8	9.1	7.9	7.2	7.6	7.6	7.4
20	6.9	16.1	7.3	7.9	6.7	6.9	8.6	8.9	11.6	13.9	13.6	14.4	12.2	11.9	10.7	10.2	9.4	8.5	7.6	8.1	8.6	8.0	7.8	8.9
21	8.0	7.9	7.4	9.3	6.0	13.9	15.7	11.2	18.3	30.1	37.1	32.9	48.3	22.9	12.3	11.9	10.0	8.4	8.1	8.4	8.5	10.1	8.2	7.3
22	6.5	6.4	6.0	7.0	5.2	7.4	9.9	12.4	21.4	22.9	20.8	15.6	12.5	12.7	11.1	10.6	8.9	8.0	8.2	8.8	12.1	9.6	10.2	8.8
23	11.1	14.5	8.7	12.4	10.1	10.9	11.1	13.0	13.2	15.0	17.0	26.3	12.8	11.1	12.6	9.9	9.0	10.2	8.0	7.8	9.0	10.0	12.6	9.6
24	9.4	10.6	16.0	13.1	13.2	13.0	9.0	11.2	32.3	45.2	19.7	11.2	11.3	12.1	12.2	10.6	10.9	8.4	7.8	8.3	8.9	8.4	8.5	8.1
25	8.7	8.8	7.3	7.9	7.3	8.3	9.5	10.6	10.4	10.3	12.0	11.9	10.4	10.9	10.9	11.0	9.8	9.5	9.2	9.2	9.0	8.9	10.4	9.0
26	9.3	8.7	8.3	8.2	8.6	8.6	9.2	9.8	9.4	9.8	9.8	9.7	10.6	10.4	10.3	9.9	8.3	7.8	10.6	9.4	9.4	9.9	9.2	8.3
27	8.6	8.8	8.5	8.2	8.5	8.7	9.5	9.6	11.2	12.8	10.8	10.2	11.7	11.1	10.4	9.6	9.0	8.4	8.3	8.9	8.9	8.5	8.5	8.1
28	7.9	7.2	7.5	7.3	8.7	10.1	8.9	[PA]	[PA]	10.0	9.7	9.6	10.2	9.3	9.6	9.5	9.1	9.3	10.0	10.8	11.6	9.4	14.7	15.4
29	14.2	13.5	10.2	13.3	12.3	42.3	22.5	10.6	16.3	18.8	20.2	23.1	37.2	41.9	31.0	34.8	22.0	6.9	13.0	7.5	6.5	7.2	41.5	9.7
30	7.0	6.6	7.3	5.8	6.8	6.4	6.5	12.0	21.4	22.7	28.7	27.8	32.0	28.3	26.4	22.3	20.1	7.3	20.4	23.3	5.4	7.1	7.0	8.2
AVG.	12.1	12.8	10.8	12.3	10.4	13.0	16.3	15.7	19.1	21.1	20.7	19.2	19.8	18.3	18.0	17.2	14.8	10.0	9.1	8.9	9.1	9.6	11.9	10.3

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Boron

ELEVATION : 2460 feet

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

LATITUDE : 35 degrees 01 minutes 00 seconds

LONGITUDE : 117 degrees 39 minutes 00 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	27.6	26.5	18.3	13.7	21.3	43.3	13.4	34.0	40.0	51.2	53.8	40.5	60.6	45.1	51.1	22.8	13.3	15.3	22.5	17.2	19.8	17.9	25.3	16.6
2	30.5	15.3	11.2	20.9	28.3	30.2	16.5	52.6	47.6	33.1	73.9	64.1	44.4	54.5	36.8	15.5	12.8	12.0	18.7	28.5	22.5	13.7	25.8	23.8
3	23.7	27.8	21.0	18.5	12.2	17.4	18.0	25.9	34.5	70.2	51.9	59.1	73.3	43.8	55.5	37.4	49.9	16.5	15.6	17.9	17.7	15.1	14.6	23.2
4	15.1	17.6	15.1	13.6	12.5	12.6	11.6	21.2	63.1	22.5	23.0	25.7	24.6	34.0	23.1	19.3	17.9	16.4	14.7	15.7	18.5	17.4	16.2	14.6
5	45.0	55.7	35.6	30.9	15.8	14.3	34.4	38.7	25.7	51.6	38.2	43.6	35.0	42.1	21.1	20.6	20.3	17.5	17.1	17.0	18.6	28.9	21.6	47.2
6	24.0	35.6	44.7	57.2	57.4	47.8	53.0	19.9	21.2	31.4	23.1	22.6	23.5	20.8	18.8	19.0	18.3	17.0	16.7	15.0	15.3	14.7	13.3	17.5
7	15.6	16.7	17.0	13.0	8.8	37.9	29.7	25.5	21.0	21.2	18.6	22.3	21.7	21.5	21.0	19.1	15.1	15.8	15.2	14.6	14.1	14.2	14.6	13.7
8	14.9	19.6	16.1	14.7	19.1	16.7	14.9	18.0	16.2	17.9	19.1	18.9	17.3	15.8	15.7	15.3	14.1	14.1	13.5	12.7	12.7	15.2	16.4	17.5
9	14.6	15.9	14.5	13.6	10.5	15.7	17.2	19.2	18.4	18.6	19.1	19.2	19.0	19.6	18.4	16.4	14.7	15.2	14.8	17.5	16.1	18.2	16.1	14.3
10	16.8	16.5	15.7	21.4	29.8	10.3	11.7	34.4	30.6	21.7	28.6	22.3	28.9	28.2	24.8	21.5	18.6	17.1	13.7	14.1	16.3	16.0	14.7	13.0
11	16.6	11.9	41.6	18.7	17.2	16.1	29.8	36.0	24.3	32.8	50.0	55.9	64.2	39.9	40.9	46.7	28.2	20.3	13.5	17.8	15.5	14.8	13.4	13.8
12	17.1	17.0	12.7	32.0	44.4	10.2	12.6	36.0	21.7	24.0	34.8	40.7	39.0	34.0	34.3	35.7	51.3	11.3	11.0	14.1	14.9	13.9	12.7	12.9
13	31.4	50.1	40.7	18.2	30.5	14.3	23.9	25.1	22.3	41.0	61.7	52.2	29.4	30.3	27.1	27.4	25.1	11.8	13.3	15.8	19.3	16.4	44.9	16.5
14	34.2	50.1	55.4	24.0	45.7	33.0	70.9	47.1	48.5	49.9	21.8	32.4	48.5	54.9	45.3	47.6	43.6	11.4	38.2	16.1	40.5	9.1	17.0	38.8
15	28.1	14.8	55.0	19.0	16.6	22.1	34.4	41.0	55.0	50.0	66.0	66.3	63.5	58.7	41.9	42.3	20.3	16.9	15.7	16.3	13.6	14.1	16.1	14.7
16	13.6	41.8	17.9	22.1	37.2	14.5	17.7	26.9	21.6	21.3	21.2	21.1	20.3	18.5	15.6	15.5	14.4	15.1	16.4	15.3	13.8	14.1	13.8	14.8
17	16.7	18.8	45.3	25.0	15.6	18.5	16.8	19.7	18.9	20.4	19.2	20.6	19.0	21.4	22.4	17.6	16.5	15.7	15.8	17.0	14.2	13.7	13.9	13.4
18	20.5	46.6	16.9	22.1	25.3	13.6	17.3	42.1	31.2	30.1	56.7	52.2	29.9	24.6	25.6	37.3	19.9	9.7	16.8	36.4	38.8	20.6	14.9	8.5
19	5.2	35.4	30.2	14.9	20.7	23.1	29.5	32.4	45.9	48.2	60.6	65.9	58.3	44.0	46.6	42.6	62.9	20.8	13.7	13.1	13.2	14.0	15.0	14.7
20	36.4	38.6	18.6	16.6	14.2	18.2	15.9	24.7	16.2	25.9	39.7	36.9	27.2	22.6	28.1	23.3	17.8	16.2	16.3	15.9	13.3	12.3	13.1	13.1
21	12.5	13.0	19.5	14.7	15.3	25.2	12.2	14.2	17.8	18.8	18.1	21.3	19.5	24.8	28.4	41.1	23.4	12.6	12.4	29.1	49.1	19.1	36.4	27.1
22	26.0	11.6	14.0	32.6	19.5	16.3	18.7	19.7	56.0	68.9	53.4	50.2	41.9	28.7	32.9	26.7	17.5	15.7	13.4	11.7	12.1	13.4	14.1	12.9
23	13.0	12.2	12.9	12.8	13.4	13.4	14.1	14.4	14.0	17.5	18.0	16.0	18.4	16.7	16.0	13.0	12.6	13.7	14.1	15.1	17.3	14.7	13.3	12.6
24	12.6	13.4	13.1	13.3	12.8	13.2	14.0	14.2	16.5	21.5	28.4	30.6	36.2	23.7	26.9	18.8	15.5	15.0	16.6	16.3	13.4	12.6	12.3	13.3
25	13.3	14.1	12.5	11.9	12.0	12.7	12.7	14.0	15.3	16.2	18.9	17.7	18.5	18.9	14.9	13.8	11.8	12.7	14.0	16.3	14.5	13.7	14.1	16.6
26	15.4	16.9	18.3	16.7	15.9	17.3	23.3	19.4	17.9	18.1	18.8	18.2	19.6	19.1	19.2	18.8	18.3	16.7	17.0	18.0	15.6	16.8	15.5	15.4
27	14.1	15.1	15.0	13.0	12.5	19.0	18.7	14.1	23.6	20.8	35.4	28.1	23.5	19.2	23.0	19.2	19.0	16.7	13.6	13.1	13.4	13.9	13.7	13.6
28	13.0	13.0	13.8	13.4	13.9	13.3	13.4	13.3	13.9	14.1	17.5	17.7	16.7	14.9	16.1	17.1	16.1	14.9	15.1	15.3	14.0	16.0	18.2	16.9
29	17.7	14.9	16.2	15.0	13.8	13.7	[PA]	[PA]	20.5	30.8	65.5	47.3	58.0	55.9	58.4	30.2	20.4	19.7	13.9	15.4	20.6	36.1	35.5	22.2
30	29.8	12.5	21.2	21.0	57.6	26.6	34.2	23.9	27.6	41.3	24.3	28.2	48.4	57.0	43.5	55.5	40.1	16.1	14.2	13.2	16.3	49.3	43.8	20.6
AVG.	20.5	23.6	23.3	19.8	22.3	20.0	22.4	26.5	28.2	31.7	36.0	35.3	34.9	31.8	29.8	26.6	23.0	15.3	15.9	17.1	18.5	17.3	19.0	17.8

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Catalina Airport

LATITUDE : 33 degrees 24 minutes 00 seconds

MONTH : September

ELEVATION : 1602 feet

LONGITUDE : 118 degrees 24 minutes 30 seconds

YEAR : 1995

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	7.7	6.5	5.3	6.0	5.9	6.7	5.9	8.7	9.6	16.5	17.7	13.0	15.2	25.6	43.3	15.8	10.1	8.4	6.9	7.8	6.3	6.8	8.0	7.1
2	6.3	7.0	7.8	5.6	7.5	7.9	8.5	10.4	12.0	13.0	13.6	14.9	12.5	9.9	9.4	10.7	9.0	6.9	12.8	9.8	6.8	6.5	7.8	7.6
3	7.8	8.2	5.9	5.0	7.6	8.9	10.1	10.0	10.2	10.2	16.2	16.7	8.7	9.2	11.1	9.4	10.3	9.4	8.6	10.3	10.7	9.6	9.1	29.7
4	25.6	8.2	10.6	35.6	41.9	9.2	41.1	45.6	24.8	24.9	14.8	14.2	13.8	14.5	11.2	15.7	13.3	8.0	8.3	7.9	4.1	7.3	31.4	36.0
5	23.1	13.1	28.3	22.9	23.5	11.5	9.4	11.0	40.2	50.4	15.0	34.4	20.0	13.3	49.7	52.6	26.8	14.4	15.2	7.4	11.6	11.7	23.1	25.9
6	29.1	30.8	24.7	24.5	14.5	14.0	13.7	18.2	24.8	42.9	37.0	26.0	18.0	28.0	19.0	12.1	9.4	6.3	4.3	3.4	3.9	5.5	5.4	4.7
7	4.9	6.5	19.9	27.9	11.4	11.4	27.2	67.8	24.9	15.6	15.6	13.8	16.7	10.3	10.1	9.6	7.5	5.9	5.7	7.4	7.6	7.5	9.9	9.7
8	4.4	7.9	8.2	40.2	24.4	29.1	37.8	48.2	21.0	16.0	12.4	14.0	12.9	12.8	12.5	9.9	18.0	5.9	6.9	4.6	7.3	10.2	17.0	9.3
9	7.8	25.5	11.2	15.9	26.3	27.5	22.4	46.2	31.2	63.4	23.2	15.2	13.1	12.3	11.0	10.2	8.8	6.5	4.7	6.4	6.5	7.5	8.6	9.6
10	10.0	9.6	8.9	7.8	10.9	14.1	12.6	16.0	16.5	50.2	29.7	26.6	17.8	13.5	8.3	9.1	8.4	5.9	6.3	15.5	7.3	12.5	15.2	8.0
11	9.2	7.0	12.5	33.6	18.0	44.6	28.1	44.6	36.2	18.1	29.9	13.8	10.0	9.8	8.2	7.2	6.8	8.1	9.4	5.8	4.6	4.8	6.8	7.3
12	7.2	7.3	7.2	7.2	10.6	5.0	11.4	42.7	48.2	42.5	55.5	20.7	9.8	11.0	7.4	9.1	9.3	6.4	7.5	6.4	6.5	7.2	7.8	9.5
13	6.6	10.8	5.0	7.9	8.2	6.4	12.5	11.8	7.8	11.3	15.5	18.6	23.3	14.7	12.6	18.2	11.8	8.1	6.8	6.2	6.9	8.4	5.7	7.7
14	16.3	30.5	23.8	19.4	51.9	49.3	28.5	28.0	36.6	39.7	43.7	50.5	33.9	31.9	16.9	13.6	16.9	9.4	12.4	8.7	7.6	9.3	11.6	13.1
15	18.0	11.7	7.6	7.6	8.8	10.4	24.3	24.6	24.7	39.1	48.6	20.5	17.2	13.3	11.7	11.1	11.4	11.4	9.4	30.9	31.6	21.3	17.2	35.5
16	14.3	14.6	10.9	8.1	13.8	14.4	8.4	10.0	26.8	47.4	62.5	49.2	32.7	21.0	17.7	15.3	13.0	40.5	34.6	17.3	26.2	14.2	18.1	15.2
17	22.5	16.1	14.2	20.8	19.6	17.1	22.9	38.4	32.9	23.3	16.6	12.6	16.1	11.0	7.8	7.4	10.0	10.0	14.3	11.9	8.6	8.7	25.9	10.9
18	21.2	52.8	29.3	21.3	18.4	11.8	13.6	21.8	56.0	24.6	24.1	19.4	16.2	17.0	19.5	14.9	18.0	24.6	10.1	9.6	8.5	11.3	9.8	7.7
19	9.2	13.6	13.3	7.7	14.0	11.9	45.4	30.3	47.7	25.2	22.4	16.8	12.2	9.3	10.3	10.4	14.8	15.2	54.0	39.4	28.5	15.5	24.7	43.0
20	17.1	13.1	12.9	37.5	17.3	10.4	17.2	49.3	28.0	19.2	11.9	11.7	9.7	8.3	7.0	13.3	10.3	10.4	7.6	8.2	14.9	40.8	17.0	19.6
21	8.6	7.0	6.2	9.0	12.0	16.4	15.5	15.8	25.8	60.8	50.0	15.0	17.6	18.2	10.3	7.1	8.3	22.2	12.0	29.0	17.8	11.3	28.8	29.1
22	8.1	10.7	17.3	14.0	17.1	18.8	22.9	50.8	47.7	36.7	15.5	13.5	11.9	10.1	8.2	8.9	10.1	8.1	7.0	17.9	10.8	7.2	7.9	9.1
23	8.4	9.3	20.9	12.2	21.2	46.1	36.1	62.5	40.8	20.2	20.1	12.1	9.1	24.8	38.9	24.1	19.7	12.8	5.8	9.9	5.9	7.1	21.9	12.4
24	12.8	6.8	7.6	12.3	14.4	14.6	12.0	23.1	48.8	41.0	17.9	16.0	13.2	8.4	7.7	6.8	13.3	11.9	9.8	7.5	9.1	7.7	10.3	8.2
25	11.8	32.8	10.3	12.3	42.0	13.4	34.7	38.0	22.3	23.8	44.4	20.4	14.8	18.7	16.9	31.1	22.0	11.4	9.7	12.8	14.0	19.4	10.1	20.1
26	18.7	9.3	14.2	11.9	14.3	12.3	14.3	17.9	23.3	31.0	39.4	53.1	56.1	23.7	30.5	31.3	18.8	20.0	13.8	19.4	27.0	20.9	23.1	14.5
27	14.8	25.8	15.4	15.2	15.0	13.6	15.4	20.0	16.5	30.4	62.1	44.1	26.7	42.9	44.0	24.2	14.1	11.0	8.8	14.0	12.7	11.8	15.2	20.7
28	27.5	11.9	33.8	23.5	13.2	12.9	9.3	11.1	12.4	14.3	12.8	15.8	18.4	12.6	9.7	11.6	9.7	8.2	5.9	10.0	12.9	8.0	6.9	11.7
29	6.9	10.8	22.5	8.2	8.3	23.6	10.2	33.5	46.1	39.0	46.5	36.0	33.1	37.8	22.5	12.1	8.0	9.1	9.8	9.6	7.7	9.9	7.2	7.1
30	9.8	10.2	7.3	8.1	18.6	10.1	6.5	7.8	13.3	31.0	45.2	21.8	16.4	20.3	22.4	10.6	6.6	7.1	7.0	6.5	5.9	5.8	5.2	6.6
AVG.	13.2	14.5	14.1	16.3	17.7	16.8	19.3	28.8	28.6	30.7	29.3	22.3	18.2	17.1	17.2	14.8	12.5	11.5	11.2	12.0	11.3	11.2	13.9	15.2

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Flash II Mountain

LATITUDE : 34 degrees 58 minutes 15 seconds

MONTH : September

ELEVATION : 3325 feet

LONGITUDE : 117 degrees 02 minutes 22 seconds

YEAR : 1995

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	20.0	14.1	20.0	17.0	14.8	16.1	18.8	18.0	20.1	17.2	34.2	34.0	23.0	48.7	39.1	33.6	8.7	8.6	9.6	13.1	9.8	17.3	23.7	14.4
2	13.7	5.6	10.8	3.8	9.7	5.8	2.8	33.1	43.9	27.2	28.2	27.6	21.0	35.9	44.8	17.4	38.5	12.1	17.8	18.4	10.4	10.3	19.3	24.2
3	22.7	15.5	9.4	9.6	11.4	8.3	21.4	16.1	37.1	22.6	23.1	33.0	34.7	33.8	31.4	51.4	24.4	9.8	11.2	13.5	15.6	12.6	9.6	12.5
4	18.9	23.3	19.2	12.6	7.5	6.2	8.8	16.1	20.9	23.8	29.0	48.4	44.7	18.8	15.2	13.3	11.9	13.2	16.3	16.2	26.1	26.7	26.0	26.9
5	10.4	17.2	11.1	5.6	6.5	8.2	16.0	58.6	6.6	12.7	30.3	43.7	27.1	28.1	32.6	42.0	32.7	29.0	10.3	9.3	7.4	8.0	13.7	14.1
6	24.4	25.4	24.3	23.0	11.0	10.1	23.3	24.7	18.5	21.3	17.7	38.2	41.0	26.3	22.4	26.2	21.1	17.9	15.7	11.8	13.5	12.1	12.5	12.7
7	12.5	11.9	9.1	23.0	16.9	25.4	11.0	13.7	18.5	23.4	17.9	16.2	15.4	15.9	12.8	15.9	14.1	12.6	8.9	8.4	9.2	9.6	14.8	10.5
8	10.6	8.4	14.0	16.7	28.7	18.5	9.6	15.1	18.7	15.9	18.7	15.9	15.7	14.2	15.7	12.7	10.9	9.2	8.6	8.3	8.5	8.4	9.9	11.6
9	10.0	9.9	8.3	11.5	8.7	11.2	25.7	15.9	20.3	15.0	19.6	23.2	15.7	12.8	16.3	13.3	11.1	8.8	7.7	8.1	10.2	11.1	21.7	28.3
10	24.4	25.0	16.7	16.1	11.9	8.2	4.3	10.8	22.5	35.4	31.5	29.4	33.4	37.5	36.8	56.8	23.0	23.1	22.5	19.0	13.7	25.9	24.9	20.6
11	20.4	11.4	6.7	5.8	7.0	16.4	18.9	24.9	25.2	31.9	35.7	25.3	23.0	23.3	31.9	35.7	28.6	21.5	11.4	11.9	14.9	18.1	11.0	7.1
12	9.3	9.4	9.7	7.8	4.8	6.6	6.4	11.1	23.0	22.5	24.9	30.3	38.7	47.0	45.1	25.2	18.9	32.8	25.7	10.1	21.1	8.4	8.2	7.4
13	7.9	9.5	7.7	5.7	5.7	6.3	11.8	24.0	28.8	34.6	43.9	33.1	49.7	30.5	24.3	48.0	47.3	18.2	12.1	15.3	6.6	4.5	15.7	22.4
14	5.0	9.8	11.6	39.8	6.4	34.0	10.5	31.8	45.1	36.3	25.3	41.0	48.1	53.5	56.4	28.8	14.5	7.2	4.0	16.9	34.5	10.1	7.6	8.6
15	26.4	23.4	10.4	7.6	8.6	4.6	8.2	9.9	11.3	19.7	29.6	49.5	64.9	51.7	61.2	66.2	27.7	27.7	16.4	21.5	16.9	10.3	8.6	9.4
16	11.5	20.2	8.8	8.0	7.3	10.0	7.2	11.7	20.2	26.4	17.4	25.9	37.6	18.0	19.4	18.7	12.6	10.6	9.9	17.7	27.2	18.2	10.6	16.2
17	7.4	10.1	12.7	10.4	16.0	9.1	10.6	17.9	25.8	30.2	22.3	15.5	13.5	15.3	15.9	14.6	15.3	15.6	17.4	14.4	12.1	11.7	12.4	8.6
18	8.2	19.5	23.9	15.0	21.0	18.0	16.2	6.2	6.7	29.8	25.9	53.9	36.3	20.7	29.6	25.4	25.8	10.9	7.2	8.0	4.1	10.3	21.5	10.1
19	4.4	12.6	8.9	9.6	12.3	10.6	9.8	5.5	15.0	33.9	39.2	52.1	56.6	36.0	63.8	41.2	17.2	11.4	8.2	16.2	12.8	10.4	10.3	8.6
20	8.3	10.7	8.1	6.9	6.3	6.9	7.1	8.6	10.5	12.9	19.4	21.5	23.1	20.1	28.4	18.6	11.7	9.7	11.5	8.2	7.9	7.8	8.5	10.2
21	11.6	12.2	9.9	6.0	7.0	13.4	4.7	10.2	39.5	41.5	21.6	17.8	23.9	16.0	29.5	21.2	12.6	9.3	9.7	9.6	9.2	25.5	7.7	7.2
22	6.2	6.2	6.9	7.3	7.5	8.1	8.8	10.2	12.1	21.2	24.9	25.1	29.9	25.6	32.9	11.9	11.0	11.6	11.5	15.6	9.8	9.5	11.4	12.2
23	13.8	10.9	12.8	12.4	13.8	13.2	10.0	9.9	17.2	17.4	22.7	19.3	23.5	17.2	13.0	17.3	17.8	15.3	16.4	15.7	11.9	13.6	15.9	14.9
24	11.7	12.1	12.7	10.7	12.4	9.9	11.8	12.4	13.2	19.7	20.7	21.7	17.4	27.1	25.1	12.9	14.4	16.4	15.6	8.7	9.8	8.6	8.4	8.3
25	9.1	7.7	8.2	8.3	8.1	7.8	6.9	7.5	8.8	12.7	11.3	10.1	10.8	10.2	13.4	12.7	13.7	10.0	12.2	11.4	8.7	8.7	8.4	8.7
26	13.0	14.7	13.1	10.5	8.4	7.2	8.7	8.6	12.5	9.6	13.0	13.6	13.0	11.5	12.9	11.4	11.1	9.5	9.4	14.6	13.6	19.2	24.2	26.4
27	28.7	26.1	12.4	13.6	8.8	8.5	12.2	19.7	20.6	19.6	18.1	14.0	15.1	16.0	15.8	14.3	12.8	9.1	9.8	10.3	11.1	12.0	11.0	12.0
28	12.5	12.7	13.2	13.1	13.4	8.6	7.7	8.5	8.1	9.4	9.4	9.7	9.8	10.2	9.0	10.6	12.9	9.0	8.9	9.8	8.5	8.1	8.1	9.6
29	12.0	10.1	10.5	13.6	11.8	8.6	10.2	12.0	10.2	13.6	17.6	34.0	23.8	63.6	41.7	48.7	20.2	28.6	22.1	38.8	26.9	8.7	11.7	12.0
30	14.7	11.4	45.4	14.4	9.6	9.1	8.9	10.6	36.6	24.0	17.3	46.8	46.7	41.5	51.7	36.0	20.2	13.1	8.8	11.6	6.7	7.3	7.7	39.0
AVG.	13.7	13.9	13.2	12.2	10.8	11.2	11.3	16.1	20.6	22.7	23.7	29.0	29.2	27.6	29.6	26.7	18.8	14.7	12.6	13.7	13.3	12.4	13.5	14.5

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Ludlow

LATITUDE : 34 degrees 42 minutes 36 seconds

MONTH : September

ELEVATION : 1782 feet

LONGITUDE : 116 degrees 09 minutes 15 seconds

YEAR : 1995

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	8.7	9.3	9.8	8.0	9.2	9.9	8.6	8.3	9.3	39.5	15.1	16.1	14.2	17.9	22.3	16.1	18.0	14.4	9.1	15.4	10.3	9.4	8.4	9.4
2	12.5	8.9	8.6	7.9	9.1	12.2	15.6	27.8	47.3	22.3	18.9	12.1	12.5	18.0	17.6	15.9	7.9	9.2	10.2	7.9	20.2	12.8	8.4	18.4
3	13.2	8.6	7.8	8.8	8.5	9.0	9.1	8.6	23.1	38.9	63.5	41.1	40.7	32.5	39.9	23.1	22.1	14.3	13.5	13.2	12.2	12.4	15.1	21.6
4	17.8	23.5	8.3	8.3	10.1	11.5	9.7	11.6	30.6	60.2	61.3	49.3	32.5	21.0	28.8	43.4	18.7	10.6	8.3	25.6	8.4	11.2	45.3	12.3
5	13.1	9.8	9.3	9.5	8.4	7.8	8.5	8.0	43.5	18.4	15.8	15.4	17.1	16.1	9.6	20.1	21.3	11.7	41.2	43.6	26.8	31.0	34.7	22.6
6	15.6	10.7	8.4	8.7	8.5	8.0	9.0	10.0	9.5	22.4	49.6	63.7	41.9	51.8	60.1	38.1	38.3	18.1	48.6	9.4	9.2	7.0	7.9	11.1
7	50.6	23.5	13.1	22.8	9.5	8.4	9.0	11.5	22.1	59.8	42.2	35.8	36.7	41.7	25.3	44.8	20.8	13.3	24.7	36.9	9.4	9.4	7.6	8.6
8	13.4	18.4	17.1	37.2	31.3	9.0	9.6	8.9	11.2	38.7	52.5	53.7	56.7	50.6	30.5	14.2	11.2	7.8	5.9	10.7	15.5	8.1	8.1	13.3
9	29.7	31.9	16.2	7.5	7.3	7.0	7.4	8.2	12.1	61.7	45.9	51.3	61.9	47.9	28.3	27.8	27.8	12.3	16.5	11.2	17.4	27.3	8.8	10.5
10	8.3	7.9	8.4	7.8	7.0	7.4	6.9	9.1	16.1	38.7	44.0	57.6	48.7	44.2	39.2	35.1	21.8	23.0	22.6	30.6	11.9	38.8	39.3	20.5
11	9.6	9.3	8.1	8.0	8.2	9.3	9.6	7.9	20.1	37.7	40.1	61.3	67.1	31.5	36.8	22.2	14.0	10.2	13.1	21.1	8.3	42.6	18.5	33.6
12	22.8	6.5	6.2	8.4	8.2	8.5	7.8	7.7	13.5	30.0	37.8	24.1	22.5	19.6	16.9	17.1	13.8	14.4	9.3	18.8	8.0	14.0	9.6	8.0
13	8.0	8.1	8.6	8.1	9.4	11.5	9.8	10.1	21.0	32.3	23.7	17.8	27.4	48.7	38.3	42.1	56.2	19.8	12.5	3.1	21.6	11.6	13.7	18.8
14	35.7	24.1	42.3	14.0	27.1	14.2	44.6	34.3	28.0	12.7	14.1	17.5	15.0	14.2	20.3	28.5	26.8	11.5	5.0	5.0	5.7	25.1	28.8	64.2
15	13.8	6.0	16.5	58.7	7.5	14.8	44.9	17.7	19.4	13.9	16.4	33.4	44.3	38.9	27.3	24.0	35.2	14.5	9.1	12.9	13.1	10.0	13.6	10.9
16	38.6	42.6	9.6	16.3	11.6	9.3	9.1	10.5	9.4	13.2	14.4	20.1	24.1	22.7	46.0	27.5	13.0	6.0	27.6	10.9	7.8	6.8	6.5	5.3
17	8.5	11.9	8.4	11.7	10.9	28.0	21.3	20.1	9.6	15.5	28.4	35.3	43.2	45.6	49.8	24.9	14.5	7.8	7.3	8.2	9.4	10.7	12.1	8.6
18	8.4	11.9	16.0	9.2	8.5	8.3	7.7	15.2	35.8	19.1	14.4	20.0	35.2	40.6	62.4	29.7	24.2	10.4	21.4	8.6	4.8	3.1	30.7	30.6
19	28.8	26.1	10.7	9.4	9.8	7.3	9.2	9.0	11.1	23.5	45.4	56.8	64.1	37.8	42.2	23.0	65.1	27.7	29.7	8.9	4.8	38.8	41.7	9.5
20	13.1	8.4	9.4	5.0	10.9	10.1	8.6	49.2	25.5	57.7	55.0	58.7	55.8	55.6	40.3	43.5	33.2	46.2	12.3	32.4	7.9	8.2	9.1	12.8
21	37.5	29.3	8.2	8.0	7.3	10.1	17.5	27.5	23.8	26.2	28.6	32.7	55.2	31.9	39.6	21.2	12.5	9.1	18.6	28.8	23.8	15.2	52.1	53.2
22	28.9	18.5	18.7	28.1	8.3	13.5	10.6	19.7	30.3	47.4	21.7	20.7	18.5	21.6	20.4	19.5	13.5	8.6	7.7	19.7	9.2	7.8	7.7	7.8
23	8.3	8.1	10.5	6.1	7.6	7.4	7.5	13.8	13.3	11.7	18.1	12.4	13.0	10.9	10.9	12.7	7.5	6.6	6.2	6.6	7.5	7.6	8.0	37.5
24	33.7	8.3	8.8	9.1	10.2	20.2	8.3	14.5	11.5	10.7	17.1	15.8	23.3	53.4	54.5	46.5	23.5	11.5	10.8	6.8	8.4	7.8	13.0	25.6
25	34.6	9.0	7.5	7.0	7.2	15.0	11.6	21.1	51.2	43.9	37.2	58.4	39.1	33.6	45.1	29.6	16.7	7.5	6.3	8.0	9.8	8.2	28.1	38.8
26	44.6	26.4	19.2	56.7	22.2	12.1	17.2	35.3	40.3	48.4	69.6	67.8	53.8	48.5	29.9	22.7	13.8	29.6	8.6	8.9	16.0	9.0	10.2	8.8
27	12.7	8.1	7.1	7.8	7.4	13.7	8.4	15.0	31.3	56.4	64.0	44.4	43.8	34.1	27.5	21.6	20.7	14.2	18.2	24.6	15.6	10.9	12.2	13.1
28	10.4	11.6	30.4	13.1	26.3	66.5	32.1	10.1	13.7	46.6	48.0	62.5	47.9	58.1	54.9	32.0	10.7	7.0	9.1	7.7	7.2	6.5	13.5	15.5
29	13.8	13.8	15.4	7.1	7.8	7.1	7.0	6.6	11.3	23.3	19.7	15.3	15.8	18.1	23.4	25.6	14.7	7.8	5.9	9.5	13.6	8.1	13.8	12.8
30	15.9	18.1	13.9	20.8	20.0	24.7	29.6	26.2	17.8	17.6	26.4	23.0	20.1	16.4	[PA]	[PA]	13.1	10.9	19.3	25.3	4.2	6.2	11.9	13.3
AVG.	20.4	15.3	12.7	14.6	11.5	13.4	13.9	16.1	22.1	32.9	35.0	36.5	36.4	34.1	34.1	27.3	21.7	13.9	15.3	16.0	11.6	14.2	17.9	19.2

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Palmdale

ELEVATION : 2760 feet

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

LATITUDE : 34 degrees 33 minutes 26 seconds

LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6.6	6.8	5.6	32.5	19.2	51.9	51.4	23.7	18.3	45.7	30.9	22.0	16.8	16.5	14.8	17.4	10.5	8.7	10.1	55.8	61.2	33.0	54.3	14.2
2	11.1	20.5	12.9	16.2	13.2	23.0	31.9	25.5	28.8	23.7	35.4	34.5	52.9	36.0	18.5	10.6	10.3	9.4	8.9	7.5	50.4	64.3	29.3	18.0
3	46.2	8.1	23.0	42.9	40.6	18.4	22.5	28.0	21.0	28.0	30.7	46.3	44.2	17.9	12.1	11.2	8.2	7.9	19.0	21.2	38.0	16.7	24.9	20.8
4	19.2	12.6	16.4	13.7	17.6	58.3	38.9	21.4	21.1	25.3	18.3	16.7	17.2	18.4	12.8	11.8	11.5	10.2	7.8	8.0	9.2	51.7	48.0	26.8
5	18.0	12.4	13.1	15.9	46.8	16.8	33.2	32.0	15.8	26.3	27.6	55.6	38.1	47.0	17.5	15.3	12.0	9.8	6.8	7.1	39.8	36.1	38.1	38.4
6	23.6	12.8	6.2	21.5	49.2	30.8	38.6	51.1	11.2	11.6	9.6	9.5	10.0	9.8	8.8	9.3	8.7	7.9	38.4	19.1	12.3	10.2	10.5	25.0
7	11.7	7.2	11.6	42.8	51.2	34.6	57.2	54.2	43.2	13.0	9.6	9.6	9.7	9.7	9.3	8.7	8.9	11.1	8.4	7.9	26.3	7.9	7.3	23.3
8	58.8	25.3	26.4	64.3	14.8	15.6	15.6	28.6	37.5	8.5	9.1	10.4	14.6	13.6	14.5	13.3	8.9	8.7	12.5	12.1	10.8	7.8	8.4	59.5
9	6.6	6.4	14.2	35.1	25.7	42.7	29.8	10.0	12.4	9.3	9.6	10.7	10.0	9.0	7.7	8.2	7.9	7.2	5.9	6.7	7.6	7.0	17.8	35.6
10	51.0	48.4	80.8	75.6	66.4	40.3	34.7	47.4	24.0	69.7	35.8	11.2	10.9	13.4	13.7	9.8	8.8	11.2	8.9	10.8	10.2	36.1	46.1	54.9
11	47.6	61.6	39.3	18.3	11.9	10.7	17.1	25.8	27.3	35.3	34.3	58.1	45.2	39.2	37.3	51.5	9.3	7.6	29.5	32.2	67.8	19.6	11.6	10.6
12	11.4	14.0	9.2	7.7	6.9	6.3	7.0	26.5	33.0	29.8	36.8	34.3	52.5	27.6	22.3	15.4	10.0	10.1	7.7	25.8	13.5	12.3	9.5	24.2
13	25.0	24.2	7.0	8.5	5.9	4.5	5.5	17.2	26.5	36.1	34.1	31.1	34.7	24.7	28.7	35.6	19.2	29.3	17.0	36.5	28.4	12.5	9.7	17.3
14	9.5	11.2	7.8	8.1	10.7	9.5	9.2	36.5	17.2	24.9	41.5	45.9	30.1	58.5	32.3	31.4	12.2	8.3	7.4	6.8	58.2	33.6	11.8	26.6
15	4.0	6.1	8.6	5.1	7.9	9.6	26.2	41.4	39.0	20.9	16.2	19.8	47.4	16.9	14.9	11.7	9.8	8.2	6.9	9.6	54.1	23.3	19.5	20.1
16	27.7	20.9	24.2	59.3	52.4	45.9	6.0	7.5	7.4	9.5	9.1	10.1	12.3	12.1	10.6	10.2	10.6	8.3	7.0	7.7	30.9	28.9	36.7	6.6
17	27.3	52.6	37.1	39.9	37.8	41.1	49.0	20.6	28.9	48.8	18.4	11.9	11.4	9.9	9.6	9.1	11.0	10.4	13.2	15.5	64.1	18.7	15.3	12,6
18	13.6	12.4	7.3	5.8	19.4	6.4	7.3	19.8	29.2	23.6	24.7	21.2	26.2	34.4	22.4	30.0	20.6	17.6	11.1	22.0	41.3	13.3	9.9	4.7
19	7.9	8.3	9.8	6.9	7.7	10.4	35.4	22.5	25.5	21.9	23.4	35.9	60.7	45.7	50.5	12.1	10.2	8.4	8.8	8.9	10.1	74.1	25.0	6.0
20	27.3	26.0	17.4	10.2	19.7	24.4	27.1	29.1	18.9	12.2	13.9	16.3	10.6	10.4	9.4	9.5	9.1	8.3	8.9	10.4	9.9	8.7	13.5	9.8
21	9.0	7.8	6.7	7.5	5.0	9.3	8.0	19.4	25.4	29.7	21.1	26.0	28.0	38.3	48.7	49.2	8.1	9.8	7.4	40.3	59.2	17.2	31.7	20.1
22	28.5	23.4	15.5	73.0	40.9	53.3	57.9	35.4	25.3	37.9	41.8	11.1	12.3	11.1	9.5	8.9	8.5	17.5	10.1	10.1	13.1	5.8	7.4	6.4
23	9.6	36.1	23.4	7.3	10.8	11.5	45.9	37.7	12.6	16.6	15.5	17.8	26.9	13.1	10.2	9.5	9.7	7.9	9.4	9.7	17.5	8.7	6.6	7.4
24	9.8	8.6	13.1	21.3	49.3	24.3	55.5	16.4	52.8	26.3	24.3	46.4	24.7	14.1	11.3	11.0	9.4	8.6	10.1	14.7	20.4	54.9	13.3	14.6
25	37.3	21.6	12.2	25.5	70.8	21.2	26.2	14.2	12.7	12.2	13.5	11.9	10.0	10.7	9.4	12.6	10.5	10.6	13.0	11.0	12.9	51.2	43.2	35.0
26	29.6	23.5	48.7	57.1	64.0	27.0	32.0	22.6	41.3	42.6	15.5	10.4	9.0	8.8	10.0	9.3	8.9	7.8	7.9	46.6	71.8	85.1	58.3	57.4
27	40.4	52.1	33.8	45.9	41.0	45.8	21.3	32.1	44.6	26.7	11.9	14.0	11.8	8.4	9.2	8.8	10.9	18.5	23.6	28.2	67.6	55.9	49.8	8.7
28	8.7	13.7	9.9	8.7	9.1	9.8	11.3	10.2	12.1	11.7	13.3	12.4	9.9	10.4	11.9	10,7	10.2	12.8	15.0	12.8	10.1	12.1	10.1	24.3
29	14.5	20.6	30.3	18.6	49.4	12.8	41.7	18.4	42.3	31.6	32.3	[PA]	[PA]	37.8	47.6	30.2	9.4	8.5	12.2	20.5	43.3	13.5	9.8	11.7
30	6.5	5.1	8.8	10.1	4.7	6.6	17.1	23.8	36.3	23.2	21.4	32.5	48.0	49.0	52.8	31.1	17.6	10.4	15.1	14.3	14.1	10.6	7.8	15.1
AVG.	21.6	20.3	19.3	26.8	29.0	24.1	28.7	26.6	26.4	26.1	22.7	23.9	25.4	22.4	19.6	17.1	10.7	10.7	12.3	18.0	32.5	27.7	22.8	21.9

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Quartzite Mountain

ELEVATION : 4482 feet

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

LATITUDE : 34 degrees 36 minutes 38 seconds

LONGITUDE : 117 degrees 17 minutes 20 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	22.1	9.2	14.8	21.8	14.8	13.5	20.2	26.7	54.8	44.2	66.0	35.9	22.3	13.8	6.6	7.2	6.8	20.4	33.7	6.3	8.1	7.1	11.2	9.0
2	9.7	6.9	5.9	15.9	29.9	33.3	22.4	9.1	52.4	30.2	16.1	17.1	9.8	8.5	8.9	6.3	7.4	7.8	7.1	7.3	8.1	14.9	4.8	5.2
3	9.5	4.9	8.4	3.6	9.1	10.0	36.1	15.1	38.6	29.9	39.7	39.3	18.0	8.3	6.2	6.4	7.3	7.2	12.7	25.1	19.1	17.3	14.5	16.9
4	19.2	23.8	21.6	18.6	12.6	6.1	5.1	6.6	10.5	11.3	10.3	8.4	6.3	7.5	6.4	6.8	8.0	9.5	10.8	15.8	20.0	22.2	23.8	12.7
5	5.9	14.2	12.9	9.8	17.2	5.8	4.0	5.1	9.7	14.5	13.1	48.5	10.5	9.1	7.9	7.6	6.1	7.4	7.0	8.3	9.3	8.4	9.6	6.9
6	5.6	7.0	7.3	8.1	6.1	6.8	7.2	6.0	12.4	36.2	70.6	53.8	42.7	23.5	7.9	6.4	6.9	13.9	7.6	11.7	15.4	8.2	10.4	15.2
7	8.6	6.8	7.9	19.7	21.7	10.5	12.4	18.2	33.1	13.1	27.5	36.5	27.6	14.5	8.0	6.9	7.8	6.1	5.8	6.8	5.8	6.1	9.5	10.4
8	19.6	15.6	10.8	8.8	7.5	6.3	7.3	10.5	13.7	13.5	10.6	7.6	8.6	7.3	8.3	8.9	10.8	10.6	8.6	8.8	10.8	10.4	9.8	9.8
9	8.4	8.5	8.6	8.8	8.6	7.5	7.8	8.1	6.7	11.0	12.2	14.2	7.9	7.6	5.9	5.0	5.5	6.5	6.2	8.1	7.1	6.4	7.3	5.7
10	6.4	6.6	5.2	5.1	5.1	3.5	5.0	6.3	10.3	13.2	22.1	18.1	18.3	13.4	9.1	6.2	5.4	10.1	8.6	8.0	7.3	4.6	4.5	29.9
11	4.5	14.0	8.4	6.7	5.9	21.0	23.5	13.7	15.3	33.5	42.5	42.6	32.1	30.8	14.7	13.7	13.4	8.6	6.1	15.6	20.3	6.4	7.6	24.0
12	19.9	15.2	10.7	11.0	10.7	9.7	17.4	19.2	29.8	41.3	24.9	33.5	21.7	51.7	42.7	34.9	18.4	7.6	37.5	23.8	17.0	14.9	25.2	24.6
13	24.6	23.3	17.0	15.9	7.1	10.9	30.1	35.6	54.3	17.0	16.5	18.1	29.4	38.0	41.9	27.4	36.1	29.0	20.7	38.0	6.8	4.4	5.6	5.8
14	6.9	9.2	31.7	38.7	36.8	30.8	24.6	18.5	55.0	21.7	25.8	73.1	38.5	38.8	37.2	17.0	12.4	10.1	10.3	26.1	23.5	20.4	18.3	7.9
15	2.8	8.7	20.4	6.8	5.6	7.1	20.5	32.2	12.3	16.0	50.9	44.1	24.4	16.2	37.8	40.1	10.4	12.1	22.8	12.2	7.2	9.7	9.7	11.1
16	8.6	7.2	7.4	7.8	7.0	8.2	8.8	10.6	31.9	31.9	32.7	24.4	53.1	37.7	37.8	23.2	28.6	21.2	16.0	9.5	17.4	22.5	23.8	27.0
17	13.2	7.8	8.6	8.7	8.1	7.7	9.2	10.6	12.0	14.6	20.6	29.1	20.9	8.2	7.5	8.9	8.4	11.8	9.4	14.6	18.0	27.8	21.2	20.5
18	19.3	15.9	4.8	14.4	13.2	49.2	22.2	6.8	16.1	36.8	28.3	33.2	34.0	37.6	41.1	22.1	21.7	16.7	40.8	40.9	23.9	27.3	12.7	11.4
19	14.7	12.9	5.5	9.0	8.5	14.9	9.2	11.3	25.4	40.9	23.1	18.6	39.0	44.9	40.1	37.4	26.8	13.7	8.4	12.7	20.2	16.8	8.9	8.1
20	9.3	11.5	15.7	18.5	14.8	13.6	13.6	13.0	18.6	20.0	18.5	18.6	27.8	28.7	19.8	8.4	22.1	25.4	11.9	11.4	13.0	8.7	5.7	6.7
21	11.6	18.3	23.2	22.6	23.3	24.2	6.2	5.9	19.1	49.4	52.1	52.3	38.3	39.7	58.4	21.0	14.3	8.6	7.0	6.9	7.8	9.1	6.7	4.2
22	3.4	8.9	9.2	7.4	4.1	4.0	8.0	22.4	36.7	55.8	54.0	33.3	38.8	24.5	8.5	5.7	23.0	27.1	12.3	15.9	17.6	18.5	15.1	20.2
23	23.1	24.7	26.0	24.7	25.4	27.2	24.4	22.4	27.3	30.7	37.9	34.9	34.3	30.6	30.8	30.2	31.4	31.4	27.8	23.1	23.5	25.9	22.8	22.2
24	21.7	22.7	23.1	23.8	25.5	23.1	22.8	21.9	25.8	36.0	32.5	40.4	40.1	31.1	30.3	23.2	11.3	21.1	21.9	8.8	9.3	7.4	6.1	7.6
25	8.8	10.2	13.3	12.4	10.1	12.0	8.6	11.2	11.7	12.2	16.7	18.4	11.9	9.6	9.9	11.2	11.2	11.7	12.1	9.3	10.9	9.1	7.5	9.5
26	7.2	8.5	11.9	10.0	10.6	8.0	8.4	8.9	10.7	13.5	12.5	11.9	9.8	6.5	5.7	5.7	7.0	8.7	6.6	7.6	9.0	7.8	8.7	7.4
27	7.9	9.4	9.5	8.3	7.6	7.2	8.9	9.2	11.6	10.3	15.3	12.5	11.2	7.6	5.7	5.8	7.2	11.9	8.2	7.5	6.8	8.8	8.8	9.1
28	15.8	20.9	13.6	14.3	16.5	21.4	14.3	12.5	14.5	12.6	16.8	18.0	13.1	11.8	11.2	11.5	14.5	10.8	7.9	10.9	15.6	16.2	12.1	17.9
29	21.9	21.0	21.8	22.8	22.7	24.5	25.0	14.4	15.5	18.6	18.4	16.9	18.0	29.5	21.6	17.5	11.2	6.6	6.3	17.9	6.6	4.7	6.6	13.0
30	26.4	13.7	19.2	17.5	17.3	15.2	15.5	[PA]	28.2	58.3	71.4	37.0	25.1	30.6	15.2	12.5	13.3	9.9	8.2	5.5	7.2	25.7	5.8	4.6
AVG.	12.9	12.9	13.5	14.0	13.8	14.8	15.0	14.2	23.8	26.3	30.0	29.7	24.4	22.3	19.8	14.8	13.8	13.4	13.7	14.1	13.1	13.3	11.5	12.8

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Shadow Mountain

ELEVATION : 4120 feet

PARAMETER : Standard Deviation of Wind Direction (Sigma Theta)

LATITUDE : 34 degrees 44 minutes 15 seconds

LONGITUDE : 117 degrees 33 minutes 54 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																							
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2.9	2.7	2.5	3.2	3.2	4.2	4.1	6.8	19.8	28.9	37.3	60.4	50.9	25.1	17.0	10.2	7.5	5.8	4.3	5.1	27.3	35.2	3.1	2.6
2	2.3	3.3	37.8	27.3	11.7	18.4	36.2	48.5	37.0	53.5	61.7	39.6	62.2	43.5	31.5	44.3	6.1	5.6	9.7	6.7	5.8	5.0	4.6	4.3
3	5.1	3.1	4.3	4.0	4.0	5.2	14.1	53.6	44.7	43.0	49.6	48.6	43.7	34.7	45.7	40.7	31.0	7.3	6.4	6.3	5.6	5.1	3.9	5.3
4	4.0	2.9	4.1	4.8	4.0	2.9	3.2	6.1	14.2	26.4	49.3	26.6	35.0	28.7	25.5	9.7	8.8	7.6	5.6	7.0	6.0	4.4	4.3	4.0
5	4.2	3.3	3.3	3.1	4.2	4.1	15.9	39.3	30.9	30.9	66.4	42.5	61.7	44.9	30.8	21.3	18.3	9.1	6.7	7.9	8.4	8.6	4.2	6.2
6	5.9	4.6	3.7	3.1	4.1	3.3	5.4	21.5	34.0	24.1	17.8	25.9	18.9	21.9	14.0	9.9	8.7	6.1	5.6	4.9	4.6	3.5	3.6	3.3
7	3.7	3.1	3.8	3.9	3.9	5.1	7.3	11.5	13.9	12.7	14.1	13.5	12.7	16.3	11.8	8.5	7.4	5.7	5.3	4.8	4.2	4.4	4.4	4.7
8	4.2	3.8	3.5	31.3	14.6	20.6	19.3	22.8	7.5	11.1	11.2	11.1	11.3	10.5	9.7	7.7	10.6	49.9	21.1	42.7	4.1	4.1	4.1	4.8
9	4.8	4.5	3.6	3.1	3.1	3.0	3.8	6.4	7.7	10.8	11.9	14.0	19.5	18.0	13.4	10.1	8.5	6.3	5.7	4.5	5.8	4.6	4.5	3.3
10	3.7	4.0	4.7	4.1	4.2	4.4	19.6	54.1	61.7	49.5	47.0	40.6	32.2	31.0	28.3	19.7	9.6	6.9	5.7	4.7	5.7	3.4	3.3	4.3
11	3.4	2.6	2.5	3.7	3.8	3.2	4.1	7.4	12.5	18.1	26.6	27.0	22.3	22.2	30.9	24.2	23.6	14.4	6.9	5.6	5.1	3.8	3.2	3.3
12	3.9	3.4	3.2	2.4	3.4	2.6	3.6	5.7	8.4	13.8	23.5	20.7	28.4	22.7	30.0	43.0	23.6	21.0	7.7	5.9	4.6	4.9	4.5	4.7
13	4.7	4.6	3.2	3.1	3.9	3.5	3.6	4.0	22.9	22.1	38.1	46.4	35.6	40.7	40.1	38.4	30.8	21.8	12.1	13.3	9.9	8.9	5.4	4.2
14	7.6	11.4	30.7	51.1	21.7	24.4	28.1	25.7	37.3	30.8	14.8	24.3	36.6	62.1	50.5	63.7	45.1	27.2	11.0	9.1	4.3	4.0	5.4	3.3
15	3.5	3.1	3.9	2.5	3.8	5.4	48.6	42.6	50.1	42.4	58.9	27.5	41.2	31.8	37.5	48.3	17.1	6.3	5.9	5.2	4.4	4.8	3.9	3.9
16	4.1	3.2	3.3	3.4	3.5	3.0	3.4	5.1	7.4	11.0	13.4	13.1	12.7	10.9	9.4	7.8	6.4	6.2	4.9	4.5	4.1	4.2	4.9	4.8
17	3.7	4.9	3.8	3.5	5.0	3.9	5.8	8.1	11.6	12.2	13.9	13.1	11.7	11.0	11.4	10.0	8.6	6.6	5.3	4.2	4.8	4.2	3.8	3.6
18	3.2	3.6	8.0	29.2	4.7	13.1	10.3	24.2	41.0	44.0	43.6	36.1	27.5	41.8	37.1	25.3	30.8	12.6	8.1	3.4	23.0	3.7	2.5	3.2
19	2.2	2.7	10.8	17.0	17.8	10.4	18.5	31.2	15.1	28.8	46.7	47.3	38.9	37.6	51.6	45.0	36.9	16.7	17.6	5.3	4.9	5.1	3.5	3.1
20	3.5	4.0	4.2	4.6	4.2	3.7	4.4	6.4	7.2	10.5	10.8	15.5	15.8	19.1	16.6	13.1	7.7	6.9	5.6	4.7	4.7	4.7	4.6	4.3
21	3.9	4.2	4.6	5.4	4.5	3.2	5.2	24.8	35.8	26.7	23.0	27.1	24.3	32.0	38.7	29.2	21.5	13.7	20.2	9.5	6.1	6.1	4.9	4.2
22	3.9	4.0	3.9	4.5	2.8	2.2	4.1	6.3	9.9	28.5	24.0	26.7	26.3	27.5	19.3	12.8	7.8	7.7	5.5	5.5	4.7	3.9	3.8	5.2
23	5.8	5.6	5.1	6.5	5.5	5.6	5.3	5.6	6.2	9.1	9.5	10.2	11.6	10.3	9.0	8.4	7.0	6.2	5.0	6.0	5.5	5.2	5.6	5.5
24	5.4	5.9	5.0	5.5	5.3	5.3	5.2	6.7	8.0	10.6	12.8	12.6	16.8	15.3	14.4	8.9	9.5	6.1	5.7	5.8	4.5	5.3	5.6	4.2
25	5.5	5.3	5.3	5.5	5.1	5.7	5.0	4.1	6.2	9.0	9.9	9.3	10.5	8.4	7.9	7.9	5.4	6.0	5.6	5.3	5.2	4.9	5.2	7.7
26	9.8	5.4	4.4	4.1	4.5	4.9	4.6	7.5	13.4	12.6	11.0	13.4	13.7	14.4	15.1	9.7	7.9	6.9	7.4	10.8	4.1	5.4	4.9	6.9
27	4.1	6.2	5.7	6.4	23.4	9.8	8.2	23.0	6.6	9.9	16.0	16.8	18.2	19.0	20.8	13.3	8.6	6.2	5.3	6.0	5.8	5.8	5.1	27.7
28	17.6	24.4	28.5	19.8	27.4	19.8	18.7	65.3	39.6	8.3	8.1	9.7	9.8	9.0	9.0	7.2	7.3	6.2	6.3	6.3	5.8	5.7	5.7	5.7
29	5.0	12.1	5.8	5.0	4.5	39.0	4.2	6.3	8.6	18.3	35.1	40.4	48.0	46.9	38.1	38.9	40.6	36.6	12.4	7.3	12.9	11.0	8.6	9.3
30	11.2	11.9	5.6	12.4	8.4	6.1	9.4	9.5	15.0	15.5	[PA]	33.9	41.2	43.1	46.1	49.6	27.3	27.4	11.9	5.3	7.4	6.6	3.4	4.5
AVG.	5.1	5.5	7.3	9.4	7.3	8.2	11.0	19.7	21.1	22.4	27.8	26.5	28.0	26.7	25.4	22.9	16.3	12.4	8.2	7.5	7.0	6.2	4.5	5.4

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Baldy Mesa
ELEVATION : 4250 feet
PARAMETER : Shelter Temperature (Degrees C)

LATITUDE : 34 degrees 23 minutes 20 seconds
LONGITUDE : 117 degrees 26 minutes 33 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	20.5	20.3	20.2	20.1	20.0	20.0	20.0	20.3	20.9	21.7	22.5	23.4	24.4	25.0	24.9	24.2	23.0	22.1	21.6	21.2	20.8	20.6	20.4	20.3	25.0	20.0
2	20.1	20.0	19.9	19.8	19.8	19.8	19.8	20.0	20.6	21.5	22.5	23.6	24.4	25.1	25.9	26.5	26.5	25.9	24.8	23.8	23.0	22.4	21.7	21.0	26.5	19.8
3	20.6	20.4	20.2	20.0	19.9	19.8	19.7	19.9	20.5	21.3	21.9	22.8	23.9	24.9	25.7	26.2	26.3	26.1	25.3	24.0	22.7	21.7	21.1	20.7	26.3	19.7
4	20.3	20.0	19.8	19.7	19.6	19.6	19.6	19.9	20.6	21.6	22.6	23.6	24.5	25.2	25.7	26.2	26.5	26.2	25.1	23.6	22.4	21.6	20.9	20.4	26.5	19.6
5	20.1	19.8	19.7	19.6	19.6	19.6	19.6	19.9	20.8	22.1	23.1	24.1	25.0	25.7	26.3	26.7	26.8	26.5	25.4	23.9	22.9	22.3	21.8	21.2	26.8	19.6
6	20.9	20.6	20.3	20.1	20.0	19.9	19.9	20.0	20.3	21.0	21.8	22.7	23.5	24.4	25.2	25.8	25.9	25.3	24.2	22.8	21.7	21.0	20.5	20.1	25.9	19.9
7	19.9	19.7	19.5	19.5	19.4	19.4	19.5	19.7	20.1	20.8	21.8	22.6	23.4	24.3	25.1	25.6	25.6	25.0	24.0	22.8	21.7	20.9	20.3	19.9	25.6	19.4
8	19.7	19.6	19.6	19.7	19.8	20.0	20.3	20.4	20.5	20.8	21.3	22.0	22.7	23.6	24.3	24.7	24.7	24.1	23.1	21.8	20.8	20.2	19.9	19.7	24.7	19.6
9	19.4	19.1	18.7	18.3	17.9	17.6	17.6	18.1	18.8	19.4	20.0	20.6	21.5	22.4	23.3	23.6	23.7	23.5	22.7	21.5	20.7	20.1	19.8	19.7	23.7	17.6
10	19.6	19.5	19.4	19.1	18.9	18.6	18.6	19.0	19.5	20.0	20.6	21.2	21.9	22.5	23.3	23.7	23.8	23.6	22.9	21.8	20.9	20.3	19.9	19.8	23.8	18.6
11	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.9	20.5	21.2	21.9	22.5	23.0	23.3	23.5	24.0	24.4	24.6	24.1	23.1	22.1	21.4	21.0	20.6	24.6	19.7
12	20.4	20.1	20.0	19.8	19.7	19.7	19.7	20.0	20.7	21.5	22.2	22.9	23.4	23.7	24.0	24.4	24.7	24.6	23.9	22.9	22.4	22.2	21.5	20.8	24.7	19.7
13	20.3	19.9	19.8	19.7	19.6	19.7	19.7	19.8	20.3	21.0	21.7	22.4	23.0	23.5	23.9	24.3	24.5	24.6	24.2	23.8	23.0	22.1	21.5	21.0	24.6	19.6
14	20.6	20.3	20.0	19.8	19.6	19.6	19.5	19.9	20.5	21.4	22.2	23.3	24.6	25.8	27.1	27.7	27.4	26.8	25.5	23.9	22.7	21.8	21.2	20.9	27.7	19.5
15	20.6	20.3	20.1	19.9	19.8	19.7	19.6	19.9	20.5	21.4	22.2	23.3	24.5	25.5	26.1	26.5	26.9	26.8	25.7	24.2	23.0	22.1	21.5	21.0	26.9	19.6
16	20.5	20.2	20.0	19.8	19.7	19.7	19.6	19.9	20.5	21.3	22.0	23.0	23.9	24.8	25.5	26.0	26.1	25.5	24.0	22.5	21.4	20.7	20.2	19.9	26.1	19.6
17	19.7	19.5	19.5	19.5	19.5	19.5	19.6	19.7	20.1	20.8	21.7	22.7	23.8	24.8	25.7	26.2	26.3	25.6	24.0	22.5	21.4	20.6	20.1	19.8	26.3	19.5
18	19.7	19.6	19.7	19.6	19.4	19.1	19.2	19.4	20.0	20.6	21.3	21.9	22.5	23.1	23.7	24.2	24.5	24.7	23.9	22.7	21.7	20.9	20.4	20.0	24.7	19.1
19	19.8	19.7	19.6	19.5	19.5	19.5	19.6	19.8	20.3	21.0	21.8	22.5	23.2	24.0	25.3	26.1	26.6	26.3	24.9	23.4	22.3	21.5	20.9	20.5	26.6	19.5
20	20.2	20.0	19.8	19.7	19.7	19.6	19.6	19.8	20.4	21.1	21.9	23.0	24.2	25.2	26.0	26.5	26.5	25.6	23.9	22.5	21.4	20.7	20.2	19.9	26.5	19.6
21	19.7	19.5	19.5	19.5	19.5	19.5	19.5	19.7	20.2	21.4	22.1	22.6	23.1	23.6	24.7	25.6	25.8	25.0	23.6	22.4	21.4	20.8	20.3	19.9	25.8	19.5
22	19.8	19.6	19.5	19.5	19.4	19.4	19.4	19.6	20.0	20.6	21.4	22.3	23.5	24.5	25.3	25.8	25.8	25.0	23.6	22.2	21.2	20.5	20.0	19.8	25.8	19.4
23	19.7	19.7	19.6	19.7	19.7	19.6	19.6	19.7	20.1	20.6	21.2	21.7	22.8	24.1	24.9	25.3	25.1	24.1	22.8	21.6	20.7	20.2	19.9	19.8	25.3	19.6
24	19.8	19.7	19.5	19.4	19.3	19.2	19.2	19.4	19.7	20.2	20.9	21.8	22.8	23.8	24.7	25.1	24.9	24.1	22.7	21.5	20.7	20.2	19.9	19.9	25.1	19.2
25	19.8	19.6	19.4	19.1	18.9	18.7	18.6	18.8	19.2	19.7	20.2	20.7	21.5	22.5	23.4	23.7	23.6	23.0	21.9	20.8	20.2	19.9	19.5	19.2	23.7	18.6
26	18.8	18.5	18.2	17.9	17.5	17.2	16.9	17.1	17.6	18.4	19.0	19.5	20.2	21.1	21.8	22.3	22.5	22.2	21.2	20.4	19.8	19.2	18.5	17.9	22.5	16.9
27	17.2	16.6	16.3	16.0	15.8	15.6	15.5	15.8	16.6	17.8	18.8	19.6	20.5	21.5	22.3	22.9	23.0	22.5	21.4	20.5	19.9	19.3	18.6	18.0	23.0	15.5
28	17.4	16.8	16.3	15.7	15.1	14.7	14.4	14.6	16.4	18.5	20.3	20.4	20.0	19.9	19.9	20.1	20.4	19.9	18.6	17.3	16.4	15.8	15.4	15.1	20.4	14.4
29	14.8	14.4	14.1	13.9	13.6	13.3	12.9	12.9	13.7	15.3	17.1	18.6	19.7	20.5	21.4	22.3	23.5	24.4	23.1	21.4	20.3	19.4	18.8	18.2	24.4	12.9
30	17.6	17.0	16.6	16.2	15.9	15.6	15.3	15.6	16.8	18.2	19.3	20.3	21.1	21.7	22.5	23.2	24.3	25.3	23.7	21.8	20.7	19.9	19.3	18.8	25.3	15.3
AVG.	19.6	19.3	19.1	19.0	18.9	18.8	18.7	18.9	19.6	20.4	21.2	22.1	22.9	23.7	24.4	24.8	25.0	24.6	23.5	22.3	21.3	20.7	20.2	19.8		

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Boron

LATITUDE : 35 degrees 01 minutes 00 seconds

MONTH : September

ELEVATION : 2460 feet

LONGITUDE : 117 degrees 39 minutes 00 seconds

YEAR : 1995

PARAMETER : Shelter Temperature (Degrees C)

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	23.0	22.4	21.9	21.5	21.3	21.0	20.9	21.0	22.0	23.5	25.1	26.4	27.3	28.0	28.2	28.2	28.2	27.6	26.9	26.0	25.1	24.4	23.8	23.2	28.2	20.9
2	22.7	22.3	22.0	21.8	21.5	21.4	21.3	21.5	22.5	23.9	25.2	26.4	27.3	27.7	27.9	28.0	27.8	27.0	26.1	25.1	24.3	23.5	23.0	22.6	28.0	21.3
3	22.2	21.8	21.5	21.1	20.9	20.8	20.8	20.9	21.9	23.3	24.8	26.1	27.1	27.7	27.9	28.0	27.8	27.1	26.5	25.7	24.8	24.0	23.3	22.9	28.0	20.8
4	22.5	22.1	21.9	21.6	21.4	21.2	20.9	20.6	21.5	23.0	24.4	25.5	26.4	27.0	27.5	27.8	27.7	27.4	26.7	25.7	24.5	23.5	22.6	21.9	27.8	20.6
5	21.5	21.1	20.8	20.5	20.1	19.4	18.7	18.8	20.1	21.8	23.3	24.7	25.8	26.7	27.4	27.8	27.8	27.5	26.7	25.7	24.6	23.7	22.9	22.4	27.8	18.7
6	21.9	21.5	21.2	21.0	20.8	20.7	20.7	20.9	21.9	23.3	24.6	25.8	26.7	27.3	27.7	27.9	27.8	27.3	26.6	25.5	24.5	23.7	23.0	22.5	27.9	20.7
7	22.2	22.0	21.8	21.6	21.3	21.1	20.9	21.0	21.6	22.8	24.1	25.3	26.1	26.8	27.2	27.5	27.5	27.2	26.4	25.4	24.4	23.5	22.8	22.2	27.5	20.9
8	21.8	21.6	21.4	21.1	20.9	20.9	20.8	20.9	21.6	22.7	23.8	24.9	25.6	26.3	26.7	26.8	26.6	26.2	25.5	24.4	23.4	22.6	22.0	21.6	26.8	20.8
9	21.3	21.0	20.7	20.5	20.2	19.9	19.6	19.9	20.8	22.1	23.4	24.5	25.4	26.1	26.5	26.9	27.2	26.4	24.7	23.2	21.9	21.0	20.4	19.9	27.2	19.6
10	19.5	19.3	19.1	19.0	18.9	18.5	17.7	17.5	18.5	20.1	21.7	23.0	24.0	24.7	25.2	25.5	25.5	25.1	24.3	23.2	22.1	21.3	20.7	20.3	25.5	17.5
11	20.0	19.7	19.4	19.1	18.7	18.1	17.3	17.2	18.1	20.0	21.7	23.2	24.4	25.2	25.8	26.2	26.3	26.0	25.3	24.2	23.1	22.2	21.6	21.2	26.3	17.2
12	20.8	20.5	20.2	19.9	19.4	19.0	19.1	19.3	20.2	21.7	23.1	24.4	25.4	26.0	26.5	26.7	26.7	26.5	25.8	24.6	23.4	22.6	21.9	21.4	26.7	19.0
13	21.0	20.6	20.2	19.7	19.4	19.3	19.2	19.3	20.1	21.4	22.8	24.0	25.1	25.9	26.4	26.6	26.6	26.3	25.6	24.4	23.1	22.0	21.2	20.6	26.6	19.2
14	20.0	19.6	19.4	19.3	19.3	19.1	18.9	19.0	19.9	21.2	22.8	24.2	25.3	26.0	26.5	26.7	26.7	26.5	25.8	24.8	23.8	22.8	21.9	21.2	26.7	18.9
15	20.6	20.2	20.0	19.8	19.6	19.4	19.0	19.0	20.0	21.5	23.2	24.6	25.7	26.3	26.6	26.9	27.0	26.7	26.0	25.0	24.0	23.1	22.4	22.0	27.0	19.0
16	21.7	21.3	20.9	20.4	20.0	19.7	19.5	19.6	20.5	21.9	23.2	24.3	25.2	25.8	26.2	26.3	26.1	25.8	25.0	24.0	23.0	22.2	21.6	21.0	26.3	19.5
17	20.5	19.7	19.6	19.6	19.4	19.3	19.3	19.1	19.9	21.1	22.3	23.3	24.1	24.9	26.1	26.8	26.8	26.0	24.6	23.2	22.1	21.3	20.6	20.2	26.8	19.1
18	19.9	19.6	19.3	19.0	18.7	18.3	17.9	17.7	18.6	20.1	21.6	23.0	24.2	25.0	25.5	25.8	25.7	25.4	24.7	23.4	22.2	21.2	20.5	20.2	25.8	17.7
19	19.9	19.6	19.4	19.2	19.0	18.9	18.7	18.8	19.5	20.9	22.4	23.8	24.9	25.6	26.1	26.4	26.3	25.9	25.1	24.0	23.2	22.5	21.9	21.5	26.4	18.7
20	21.1	20.8	20.5	20.2	20.1	20.0	19.8	19.7	20.4	21.7	23.0	24.2	25.2	25.8	26.3	26.4	26.4	25.9	25.0	24.0	23.0	22.2	21.7	21.2	26.4	19.7
21	20.9	20.8	20.6	20.4	20.2	20.0	19.8	19.7	20.4	21.5	22.8	23.9	24.7	25.2	25.7	25.8	25.8	25.4	24.7	24.9	24.1	22.8	21.7	20.9	25.8	19.7
22	20.3	19.8	19.5	19.2	19.3	19.3	19.1	19.1	19.8	20.6	22.0	23.5	24.6	25.3	25.7	25.9	25.8	25.4	24.5	23.4	22.6	21.9	21.4	20.9	25.9	19.1
23	20.5	20.0	19.8	19.7	19.7	19.6	19.5	19.7	20.4	21.3	22.3	23.4	24.2	24.8	25.1	25.2	25.1	24.6	23.8	22.9	22.1	21.4	20.8	20.4	25.2	19.5
24	20.1	19.9	19.7	19.5	19.2	19.1	19.1	19.3	20.0	21.0	22.1	23.2	24.1	24.8	25.3	25.5	25.4	24.8	23.8	22.7	21.8	21.2	20.5	20.0	25.5	19.1
25	19.9	19.8	19.6	19.5	19.4	19.3	19.2	19.5	20.0	20.8	21.6	22.4	22.9	23.3	23.7	23.9	23.8	23.2	22.5	21.7	21.0	20.5	20.0	19.7	23.9	19.2
26	19.4	19.2	19.1	18.9	18.8	18.7	18.6	18.8	19.4	20.3	21.2	22.0	22.6	23.1	23.5	23.8	23.8	23.4	22.6	21.6	20.7	20.0	19.6	19.2	23.8	18.6
27	19.0	18.9	18.7	18.6	18.6	18.6	18.6	18.8	19.4	20.3	21.3	22.2	23.0	23.5	23.9	24.0	24.0	23.5	22.7	21.7	20.7	20.0	19.5	19.2	24.0	18.6
28	19.0	18.9	18.8	18.7	18.6	18.6	18.6	18.6	18.9	19.5	20.2	20.9	21.4	21.8	22.1	22.1	21.9	21.4	20.6	19.8	19.3	18.9	18.8	18.8	22.1	18.6
29	18.8	18.8	18.7	18.4	18.0	17.5	17.4	17.8	19.1	20.8	21.9	22.3	22.7	23.1	23.3	23.5	23.5	23.1	22.3	21.2	20.3	19.7	19.1	18.7	23.5	17.4
30	18.1	17.3	16.3	15.4	14.5	13.8	13.1	13.1	14.9	17.3	19.4	21.0	22.0	22.7	23.3	23.6	23.7	24.2	25.9	26.3	25.5	23.0	21.0	20.0	26.3	13.1
AVG.	20.7	20.3	20.1	19.8	19.6	19.3	19.1	19.2	20.1	21.4	22.7	23.9	24.8	25.4	25.9	26.1	26.0	25.6	24.9	23.9	23.0	22.1	21.4	20.9		

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Catalina Airport
ELEVATION : 1602 feet
PARAMETER : Shelter Temperature (Degrees C)

LATITUDE : 33 degrees 24 minutes 00 seconds
LONGITUDE : 118 degrees 24 minutes 30 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	32.2	32.1	32.0	31.9	31.8	31.7	31.7	31.7	31.7	31.8	32.0	32.2	32.5	32.7	33.0	33.2	33.4	33.5	33.6	33.5	33.4	33.2	33.0	32.8	33.6	31.7
2	32.7	32.5	32.4	32.3	32.2	32.1	32.1	32.2	32.3	32.5	32.8	33.1	33.4	33.7	34.0	34.2	34.4	34.5	34.5	34.5	34.4	34.3	34.1	34.0	34.5	32.1
3	33.8	33.7	33.6	33.5	33.4	33.3	33.2	33.1	33.2	33.2	33.3	33.5	33.6	33.7	33.8	33.9	34.0	34.0	34.0	33.9	33.8	33.7	33.6	33.6	34.0	33.1
4	33.5	33.4	33.4	33.3	33.2	33.1	33.0	32.9	32.9	33.1	33.2	33.3	33.5	33.7	33.8	33.9	34.0	34.1	34.1	34.1	34.0	33.8	33.7	33.5	34.1	32.9
5	33.4	33.3	33.2	33.1	33.1	33.0	32.9	32.8	32.8	32.9	32.9	33.1	33.2	33.3	33.5	33.6	33.8	33.9	34.0	34.1	34.1	34.0	34.0	33.9	34.1	32.8
6	33.8	33.7	33.7	33.6	33.5	33.4	33.3	33.3	33.2	33.2	33.3	33.4	33.5	33.9	34.5	34.7	34.7	34.6	34.6	34.4	34.2	34.0	33.9	33.7	34.7	33.2
7	33.6	33.4	33.2	33.1	33.0	32.9	32.8	32.8	32.7	32.8	32.9	33.0	33.0	33.1	33.2	33.3	33.3	33.4	33.4	33.3	33.1	32.9	32.7	32.5	33.6	32.5
8	32.4	32.2	32.0	32.0	31.9	31.9	31.9	31.8	31.8	31.9	32.0	32.1	32.3	32.4	32.5	32.5	32.6	32.6	32.6	32.5	32.3	32.1	31.9	31.7	32.6	31.7
9	31.6	31.5	31.3	31.2	31.0	30.8	30.6	30.5	30.4	30.3	30.3	30.3	30.2	30.2	30.2	30.2	30.3	30.3	30.3	30.1	30.0	29.8	29.7	29.5	31.6	29.5
10	29.4	29.2	29.0	28.9	28.8	28.7	28.6	28.4	28.4	28.3	28.4	28.4	28.5	28.5	28.6	28.6	28.7	28.8	28.9	28.9	28.9	28.8	28.7	28.6	29.4	28.3
11	28.5	28.4	28.4	28.3	28.3	28.3	28.3	28.3	28.3	28.4	28.5	28.7	29.1	29.4	29.5	29.7	29.8	29.9	29.9	29.8	29.6	29.3	29.1	29.1	29.9	28.3
12	29.1	29.1	29.2	29.1	29.1	29.0	29.0	29.0	29.2	29.4	29.7	29.9	30.2	30.5	30.7	31.0	31.2	31.3	31.4	31.3	31.3	31.2	31.1	31.0	31.4	29.0
13	31.0	30.9	31.0	31.1	31.2	31.2	31.2	31.2	31.3	31.4	31.5	31.6	31.8	32.0	32.2	32.3	32.5	32.7	32.7	32.7	32.5	32.3	32.2	32.1	32.7	30.9
14	32.0	32.0	32.0	32.0	32.0	32.0	31.9	31.9	31.9	31.9	32.1	32.2	32.4	32.7	32.9	33.2	33.4	33.5	33.7	33.6	33.5	33.4	33.3	33.2	33.7	31.9
15	33.2	33.1	33.0	33.0	32.9	32.8	32.8	32.8	32.7	32.8	32.9	33.0	33.2	33.3	33.5	33.6	33.7	33.7	33.8	33.7	33.7	33.6	33.5	33.4	33.8	32.7
16	33.3	33.1	32.9	32.8	32.6	32.4	32.2	32.0	31.8	31.7	31.7	31.8	31.8	31.8	31.9	31.9	31.9	31.9	31.8	31.7	31.6	31.4	31.3	31.1	33.3	31.1
17	31.0	30.9	30.7	30.6	30.5	30.4	30.3	30.2	30.1	30.0	30.0	30.0	30.0	30.1	30.1	30.2	30.2	30.3	30.3	30.2	30.2	30.2	30.1	30.1	31.0	30.0
18	30.0	30.0	29.9	29.8	29.6	29.5	29.4	29.3	29.2	29.2	29.2	29.2	29.3	29.4	29.5	29.6	29.8	29.9	30.0	30.0	30.0	29.9	29.9	29.9	30.0	29.2
19	29.9	29.9	29.8	29.7	29.6	29.5	29.4	29.4	29.3	29.3	29.4	29.4	29.5	29.7	29.8	29.9	30.0	30.1	30.2	30.2	30.2	30.1	30.0	30.0	30.2	29.3
20	30.0	29.9	29.8	29.7	29.5	29.4	29.3	29.1	28.8	27.8	27.6	27.6	27.9	28.2	28.5	28.8	29.0	29.2	29.3	29.4	29.4	29.4	29.3	29.3	30.0	27.6
21	29.3	29.2	29.2	29.1	29.0	28.9	28.9	28.8	28.7	28.7	28.8	28.9	29.0	29.0	29.1	29.2	29.3	29.3	29.4	29.4	29.3	29.2	29.1	29.0	29.4	28.7
22	28.9	28.7	28.6	28.5	28.4	28.3	28.3	28.2	28.1	28.1	28.2	28.2	28.3	28.3	28.4	28.5	28.6	28.7	28.7	28.7	28.6	28.6	28.5	28.5	28.9	28.1
23	28.4	28.4	28.3	28.2	28.2	28.1	28.1	28.1	28.1	28.3	28.4	28.6	28.7	28.9	29.0	29.1	29.2	29.2	29.3	29.2	29.2	29.1	29.0	29.0	29.3	28.1
24	29.0	29.0	28.9	28.9	28.8	28.8	28.7	28.6	28.6	28.6	28.7	28.8	28.9	29.0	29.2	29.3	29.3	29.4	29.4	29.4	29.3	29.2	29.1	29.0	29.4	28.6
25	28.9	28.8	28.7	28.7	28.6	28.6	28.6	28.6	28.6	28.7	28.8	28.7	28.4	28.3	28.6	28.9	29.1	29.3	29.5	29.5	29.5	29.5	29.4	29.3	29.5	28.3
26	29.2	29.1	29.0	28.9	28.8	28.7	28.5	28.4	28.3	28.3	28.2	28.3	28.3	28.4	28.5	28.6	28.6	28.6	28.6	28.6	28.5	28.4	28.3	28.2	29.2	28.2
27	28.1	28.0	27.9	27.8	27.7	27.6	27.5	27.5	27.4	27.3	27.4	27.4	27.5	27.5	27.6	27.7	27.8	27.8	27.9	27.9	27.8	27.8	27.7	27.6	28.1	27.3
28	27.6	27.5	27.4	27.3	27.3	27.2	27.2	27.1	27.0	27.0	27.0	27.1	27.1	27.2	27.2	27.1	26.2	25.1	24.2	23.6	23.0	22.6	22.3	22.0	27.6	22.0
29	21.9	21.7	21.5	21.3	21.1	21.0	20.9	21.2	21.9	22.6	23.2	23.7	24.2	24.7	25.1	25.4	25.7	25.9	26.1	26.2	26.2	26.2	26.2	26.2	26.2	20.9
30	26.2	26.2	26.3	26.3	26.3	26.3	26.3	26.3	26.3	26.4	26.6	26.8	26.9	27.1	27.3	27.5	27.8	28.0	28.1	28.2	28.1	28.1	28.0	27.9	28.2	26.2
AVG.	30.4	30.3	30.2	30.1	30.0	30.0	29.9	29.8	29.8	29.9	30.0	30.1	30.2	30.4	30.5	30.7	30.7	30.8	30.8	30.8	30.7	30.5	30.4	30.3		

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Flash II Mountain

LATITUDE : 34 degrees 58 minutes 15 seconds

MONTH : September

ELEVATION : 3325 feet

LONGITUDE : 117 degrees 02 minutes 22 seconds

YEAR : 1995

PARAMETER : Shelter Temperature (Degrees C)

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	28.5	28.6	28.7	28.8	28.9	28.9	29.0	29.1	28.9	28.3	27.5	27.4	27.8	28.4	28.7	28.6	28.1	27.7	28.0	28.3	28.6	28.7	29.0	29.3	29.3	27.4
2	29.7	30.0	30.7	30.8	31.7	31.8	31.6	31.5	31.3	30.2	29.2	29.2	29.5	29.9	30.0	29.1	28.3	28.0	28.2	28.5	28.5	28.5	29.0	29.8	31.8	28.0
3	30.5	30.9	30.9	30.8	30.6	30.5	30.6	30.7	30.8	30.0	29.1	28.9	28.7	29.0	29.0	28.8	28.6	28.3	27.9	27.8	28.1	28.7	29.5	31.1	31.1	27.8
4	31.5	31.6	31.6	31.8	31.8	32.1	33.1	32.2	30.9	29.8	28.5	28.0	28.1	28.5	28.8	28.9	28.8	28.5	28.0	27.9	28.2	28.5	28.8	29.0	33.1	27.9
5	29.4	29.9	30.1	30.3	30.5	30.5	30.6	30.7	30.9	30.5	29.5	28.5	28.3	28.5	28.7	28.8	28.6	28.1	27.7	28.2	29.0	29.7	30.3	30.5	30.9	27.7
6	30.5	30.2	29.8	29.5	29.5	29.6	29.6	29.5	29.4	29.1	28.3	27.6	27.8	28.2	28.5	28.5	28.4	28.0	27.8	28.5	29.2	29.6	29.8	29.9	30.5	27.6
7	29.9	29.9	29.8	29.8	29.7	29.7	29.7	29.8	29.4	28.8	28.2	27.5	27.3	27.4	27.6	27.5	27.3	27.0	27.2	27.9	28.9	29.9	30.7	30.9	30.9	27.0
8	31.9	33.3	34.2	34.8	33.7	32.2	31.4	31.3	31.0	30.4	29.4	28.3	27.6	27.2	27.1	26.8	26.8	27.2	27.9	28.7	29.4	30.0	30.6	30.8	34.8	26.8
9	30.8	30.8	31.1	31.9	32.6	33.0	33.1	32.5	31.9	31.2	30.4	29.2	27.9	27.3	27.0	26.9	27.0	27.5	28.3	29.0	29.6	29.9	29.9	29.9	33.1	26.9
10	30.0	30.3	30.2	29.9	29.8	29.7	30.0	30.3	30.3	30.2	29.9	29.2	28.3	27.6	27.4	27.5	27.6	27.5	27.8	28.3	28.8	29.0	29.1	29.2	30.3	27.4
11	29.3	29.4	29.6	29.9	30.3	30.9	30.6	30.5	30.4	30.3	29.9	29.2	28.3	27.7	27.3	27.1	26.8	26.9	27.3	27.7	28.0	28.4	28.7	28.9	30.9	26.8
12	29.2	29.4	29.6	29.7	29.7	29.6	29.7	29.8	29.9	29.6	28.8	27.8	27.5	27.5	27.6	27.6	27.5	27.2	27.3	27.8	28.3	28.7	29.3	30.0	30.0	27.2
13	30.7	31.1	31.3	31.6	31.5	31.7	31.6	31.4	31.0	30.5	29.5	28.6	28.8	29.1	29.4	29.4	29.2	28.8	28.1	27.5	27.4	27.5	27.7	27.9	31.7	27.4
14	28.2	28.3	28.2	28.6	28.8	29.1	29.6	29.9	29.5	28.4	27.9	28.2	28.9	29.4	29.8	29.8	29.5	29.1	28.4	27.8	27.5	27.6	28.0	28.1	29.9	27.5
15	28.0	28.1	28.2	28.3	28.5	28.4	28.3	28.5	28.8	28.0	27.8	28.1	28.7	29.3	29.7	29.9	29.8	29.5	28.9	28.2	27.4	26.9	27.2	27.5	29.9	26.9
16	27.9	28.2	28.9	29.7	29.7	29.3	29.1	29.3	29.0	28.4	27.5	27.4	27.8	28.3	28.7	28.6	28.3	27.8	27.2	26.9	27.2	27.5	28.0	28.6	29.7	26.9
17	29.2	29.8	30.3	31.4	32.2	31.8	31.5	31.4	31.2	30.6	29.7	28.2	27.6	27.6	27.6	27.5	27.2	26.8	26.7	27.3	28.0	28.7	29.5	30.5	32.2	26.7
18	32.2	32.3	31.8	31.4	31.3	31.2	31.3	31.3	31.9	31.6	30.5	28.8	28.3	28.2	28.1	28.0	27.6	27.1	26.8	27.0	27.4	27.6	27.7	27.7	32.3	26.8
19	27.8	28.0	28.4	28.6	28.8	29.1	29.3	29.5	29.6	29.2	28.6	27.9	28.1	28.5	28.7	28.7	28.5	28.1	27.5	26.9	26.8	27.2	27.7	28.0	29.6	26.8
20	28.4	28.8	28.8	28.9	28.8	29.3	29.7	29.8	29.2	28.3	27.5	27.2	27.5	28.0	28.5	28.6	28.6	28.4	27.9	27.4	27.8	28.7	29.7	32.2	32.2	27.2
21	32.3	32.2	32.5	34.0	35.2	36.0	34.3	33.3	32.5	31.5	29.7	28.8	28.5	28.4	28.2	28.0	27.8	27.3	27.0	27.2	27.5	27.7	27.9	28.3	36.0	27.0
22	29.0	29.8	31.2	32.0	33.1	33.1	32.2	32.1	31.5	30.8	28.8	27.9	27.8	28.0	28.1	28.1	28.0	27.5	26.8	26.7	27.3	28.4	29.4	29.8	33.1	26.7
23	30.3	31.0	32.6	33.9	34.8	35.5	36.0	36.6	35.6	32.5	31.1	29.1	28.2	27.7	27.5	27.1	26.6	26.3	27.2	28.4	31.2	33.6	35.0	33.7	36.6	26.3
24	33.8	34.8	35.5	35.8	36.0	35.9	35.6	35.6	34.3	32.9	30.2	28.3	27.7	27.5	27.5	27.3	27.1	26.7	26.6	27.3	28.5	29.9	31.0	33.0	36.0	26.6
25	34.5	35.4	36.0	36.3	36.4	36.5	36.7	36.5	36.7	35.1	31.2	29.0	27.8	27.1	26.8	26.4	26.5	27.7	30.8	31.1	32.1	34.0	35.3	36.0	36.7	26.4
26	36.3	36.4	36.2	36.0	35.9	36.0	35.9	35.8	35.7	35.9	35.2	31.4	28.7	27.4	26.9	26.5	26.3	27.2	28.6	31.1	33.3	34.5	34.1	33.2	36.4	26.3
27	33.3	33.2	33.2	33.7	34.3	34.7	34.8	34.8	33.5	32.1	30.6	28.4	27.0	26.4	26.1	25.8	25.7	26.2	27.0	28.4	30.5	32.7	34.0	34.5	34.8	25.7
28	34.8	34.8	34.8	34.7	34.5	34.5	34.8	34.8	35.1	35.6	35.2	32.2	33.1	34.2	31.3	31.1	33.5	35.2	36.0	36.1	36.0	35.8	35.4	35.0	36.1	31.1
29	34.6	34.2	33.8	33.6	33.4	33.3	33.2	33.1	33.1	33.2	33.2	32.0	30.5	29.9	29.5	28.7	28.6	28.5	28.7	29.2	29.7	29.8	30.0	30.4	34.6	28.5
30	31.1	31.6	31.9	32.1	32.3	32.5	32.1	31.2	30.1	29.4	28.8	28.3	27.7	27.1	26.9	26.7	26.8	27.0	27.4	27.8	27.9	28.1	28.5	28.8	32.5	26.7
AVG.	30.8	31.1	31.3	31.6	31.8	31.9	31.8	31.8	31.4	30.7	29.7	28.7	28.3	28.3	28.2	28.1	28.0	27.9	28.0	28.4	28.9	29.5	30.0	30.4		

OZONE TRANSPORT CORRIDORS STUDY
SITE NAME : Ludlow
ELEVATION : 1782 feet
PARAMETER : Shelter Temperature (Degrees C)

LATITUDE : 34 degrees 42 minutes 36 seconds
LONGITUDE : 116 degrees 09 minutes 15 seconds

T & B SYSTEMS, INC.
MONTH : September
YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	23.1	23.0	22.9	22.9	22.8	22.8	22.8	22.8	22.7	22.8	22.8	22.9	23.0	23.1	23.2	23.2	23.2	23.2	23.1	23.0	23.0	22.9	22.9	22.8	23.2	22.7
2	22.8	22.8	22.8	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.9	22.9	23.0	23.2	23.2	23.2	23.1	23.1	23.0	22.9	22.9	22.8	22.8	23.2	22.7
3	22.8	22.7	22.7	22.6	22.5	22.4	22.4	22.3	22.4	22.5	22.7	23.0	23.3	23.5	23.7	23.8	23.9	23.9	23.9	23.6	23.2	22.9	22.8	22.6	23.9	22.3
4	22.5	22.5	22.4	22.4	22.4	22.4	22.4	22.3	22.3	22.5	22.7	23.0	23.3	23.5	23.7	23.8	23.9	23.9	23.8	23.7	23.4	23.3	23.3	23.2	23.9	22.3
5	23.0	22.9	22.7	22.6	22.5	22.4	22.3	22.3	22.3	22.6	22.8	23.1	23.3	23.4	23.3	23.2	23.0	22.8	22.7	22.7	22.6	22.6	22.6	22.6	23.4	22.3
6	22.5	22.5	22.5	22.5	22.5	22.4	22.3	22.3	22.3	22.4	22.6	23.0	23.2	23.4	23.5	23.6	23.7	23.6	23.3	23.0	22.8	22.5	22.4	22.4	23.7	22.3
7	22.5	22.5	22.4	22.4	22.4	22.4	22.4	22.5	22.5	22.6	22.6	22.6	22.6	22.7	22.8	22.8	22.8	23.3	23.7	23.3	23.0	22.7	22.5	22.4	23.7	22.4
8	22.3	22.3	22.3	22.3	22.3	22.3	22.2	22.2	22.2	22.2	22.3	22.6	23.0	23.3	23.5	23.6	23.7	23.7	23.7	23.5	23.4	23.1	22.8	22.6	23.7	22.2
9	22.4	22.4	22.3	22.2	22.2	22.2	22.1	22.1	22.1	22.2	22.3	22.5	22.9	23.2	23.4	23.5	23.6	23.6	23.5	23.5	23.3	23.0	22.7	22.7	23.6	22.1
10	22.7	22.7	22.7	22.7	22.7	22.6	22.6	22.7	22.7	22.7	22.8	22.9	22.9	23.0	23.1	23.1	23.1	23.1	23.0	22.9	22.8	22.8	22.7	22.7	23.1	22.6
11	22.7	22.6	22.6	22.6	22.6	22.6	22.6	22.7	22.7	22.7	22.8	22.8	23.0	23.0	23.1	23.2	23.2	23.3	23.2	23.1	23.0	22.9	22.8	22.8	23.3	22.6
12	22.8	22.8	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.9	23.0	23.1	23.2	23.4	23.5	23.4	23.3	23.1	23.0	23.0	22.9	22.8	23.5	22.7
13	22.8	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.8	22.8	22.9	23.0	23.0	23.2	23.3	23.3	23.4	23.3	23.1	23.0	23.0	22.9	22.8	23.4	22.7
14	22.8	22.8	22.8	22.8	22.8	22.7	22.7	22.7	22.7	22.8	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.3	23.3	23.1	23.0	23.0	23.0	22.9	23.4	22.7
15	22.9	22.8	22.8	22.8	22.8	22.8	22.7	22.8	22.8	22.8	22.9	23.0	23.1	23.2	23.4	24.2	24.4	24.4	24.2	23.7	23.4	23.3	23.1	23.0	24.4	22.7
16	23.0	22.9	22.9	22.9	22.9	22.8	22.8	22.9	22.9	23.0	23.0	23.0	23.1	23.1	23.2	23.2	24.1	25.7	27.1	26.0	24.4	23.5	23.1	22.9	27.1	22.8
17	22.9	22.8	22.6	22.5	22.5	22.4	22.3	22.3	22.3	22.4	22.4	22.5	22.8	23.1	23.3	23.5	23.7	23.6	23.6	23.4	23.2	23.0	22.8	22.6	23.7	22.3
18	22.5	22.4	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.7	23.3	24.9	25.0	24.4	24.1	24.0	24.0	23.8	23.6	23.4	23.1	22.8	22.6	22.5	25.0	22.3
19	22.4	22.4	22.3	22.3	22.3	22.2	22.2	22.3	22.2	22.3	22.5	22.8	23.1	23.3	23.5	23.6	23.6	23.6	23.5	23.4	23.3	23.1	22.8	22.6	23.6	22.2
20	22.5	22.4	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.5	22.9	23.2	23.4	23.5	23.6	23.7	23.7	23.6	23.5	23.5	23.4	23.2	22.9	23.7	22.3
21	22.7	22.5	22.5	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.5	22.8	23.1	23.3	23.5	23.5	23.5	23.5	23.5	23.4	23.2	22.9	22.7	22.5	23.5	22.3
22	22.4	22.4	22.3	22.3	22.2	22.2	22.2	22.2	22.2	22.2	22.4	22.8	23.6	23.9	23.6	23.6	23.5	23.5	23.4	23.3	23.2	23.0	22.8	22.6	23.9	22.2
23	22.5	22.4	22.3	22.3	22.3	22.2	22.2	22.2	22.3	22.3	22.4	22.6	22.9	23.1	23.4	24.5	26.4	27.3	25.7	24.6	24.0	23.4	23.0	22.6	27.3	22.2
24	22.5	22.4	22.4	22.3	22.3	22.2	22.2	22.2	22.2	22.2	22.2	22.5	22.8	23.0	23.2	23.3	23.4	23.4	23.3	23.3	23.1	22.8	22.5	22.4	23.4	22.2
25	22.4	22.3	22.3	22.3	22.3	22.2	22.2	22.3	22.2	22.2	22.3	22.4	22.6	22.9	23.1	23.3	23.3	23.4	23.3	23.1	22.8	22.6	22.4	22.4	23.4	22.2
26	22.4	22.3	22.3	22.3	22.3	22.3	22.3	22.4	22.4	22.5	22.5	22.5	22.5	22.8	23.0	23.3	23.3	23.3	23.2	23.0	22.7	22.5	22.4	22.3	23.3	22.3
27	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.3	22.6	22.9	23.1	23.2	23.3	23.3	23.2	23.0	22.6	22.4	22.3	22.3	23.3	22.2
28	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.2	22.3	22.4	22.7	22.9	23.1	23.2	23.1	22.8	22.5	22.4	22.3	22.2	22.2	23.2	22.2
29	22.2	22.2	22.2	22.2	22.3	22.3	22.3	22.3	22.2	22.2	22.2	22.3	22.3	22.5	22.6	22.8	22.8	22.7	22.5	22.3	22.2	22.2	22.1	22.1	22.8	22.1
30	22.1	22.1	22.1	22.1	22.1	22.1	22.2	22.1	22.1	22.1	22.2	22.3	22.4	22.6	23.1	23.8	23.8	23.4	23.1	22.9	22.8	22.7	22.6	22.6	23.8	22.1
AVG.	22.6	22.5	22.5	22.5	22.4	22.4	22.4	22.4	22.4	22.5	22.6	22.8	23.0	23.1	23.3	23.4	23.6	23.6	23.5	23.3	23.1	22.9	22.7	22.6		

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Palmdale

ELEVATION : 2760 feet

PARAMETER : Shelter Temperature (Degrees C)

LATITUDE : 34 degrees 33 minutes 26 seconds

LONGITUDE : 118 degrees 06 minutes 46 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	18.8	18.8	18.7	18.6	18.6	18.6	18.6	18.5	18.5	18.5	18.6	19.4	20.6	23.2	25.6	26.5	26.5	25.6	24.4	22.9	21.4	20.0	19.4	19.1	26.5	18.5
2	18.9	18.8	18.7	18.7	18.6	18.6	18.5	18.5	18.5	18.5	18.9	19.7	20.5	21.4	22.2	22.7	23.2	23.2	22.7	21.7	20.7	19.7	19.1	18.8	23.2	18.5
3	18.7	18.7	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.9	19.6	20.4	21.2	22.0	22.7	23.0	23.0	22.5	21.5	20.3	19.5	19.2	19.0	23.0	18.6
4	18.8	18.7	18.6	18.5	18.5	18.4	18.4	18.4	18.4	18.4	18.6	19.2	20.1	20.9	21.6	22.1	22.2	21.9	21.4	20.5	19.7	19.2	19.0	18.8	22.2	18.4
5	18.7	18.6	18.5	18.4	18.4	18.4	18.4	18.5	18.6	18.8	18.9	18.9	19.2	19.9	20.9	21.9	22.5	22.4	21.8	20.9	19.9	19.2	19.0	18.9	22.5	18.4
6	18.8	18.7	18.7	18.7	18.7	18.7	18.8	18.8	18.8	18.7	18.9	19.5	20.3	21.0	21.6	21.9	21.9	21.6	20.9	19.9	19.2	18.9	18.8	18.8	21.9	18.7
7	18.7	18.6	18.6	18.6	18.6	18.5	18.5	18.5	18.5	18.5	18.4	18.6	19.1	19.7	21.1	21.7	21.5	21.1	20.4	19.6	19.1	18.9	18.8	18.7	21.7	18.4
8	18.7	18.6	18.5	18.5	18.5	18.4	18.4	18.4	18.5	18.5	18.4	18.6	19.0	19.5	20.7	22.2	22.6	22.4	21.2	20.0	19.4	19.0	18.9	18.8	22.6	18.4
9	18.7	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.7	18.6	18.7	18.9	19.3	19.8	20.1	20.1	19.9	19.3	19.0	18.9	18.8	18.7	18.7	20.1	18.6
10	18.6	18.6	18.6	18.5	18.5	18.6	18.6	18.6	18.6	18.7	18.8	19.0	19.3	19.7	20.1	20.4	20.6	20.4	19.9	19.3	19.0	18.9	18.8	18.8	20.6	18.5
11	18.7	18.7	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.8	18.9	19.0	19.2	19.8	20.6	21.3	21.9	22.3	22.1	21.2	20.1	19.5	19.2	19.1	22.3	18.6
12	18.9	18.8	18.7	18.6	18.5	18.5	18.5	18.6	18.6	18.7	18.8	19.1	19.8	20.7	21.6	22.3	22.8	22.8	22.2	21.1	20.0	19.4	19.1	18.8	22.8	18.5
13	18.6	18.5	18.4	18.4	18.3	18.3	18.3	18.3	18.4	18.4	18.6	18.9	19.5	20.4	21.2	21.8	22.1	22.2	21.8	20.9	19.9	19.4	19.0	18.8	22.2	18.3
14	18.7	18.5	18.4	18.3	18.2	18.2	18.2	18.2	18.3	18.4	18.5	18.9	19.6	20.6	21.5	22.4	23.0	23.1	23.1	23.3	23.0	22.0	20.6	19.6	23.3	18.2
15	19.1	18.9	18.7	18.5	18.4	18.4	18.3	18.3	18.3	18.4	18.5	19.0	19.9	20.7	21.6	22.3	22.8	22.9	22.5	21.8	20.8	19.8	19.2	18.9	22.9	18.3
16	18.7	18.6	18.5	18.4	18.3	18.3	18.2	18.2	18.2	18.1	18.2	18.7	19.4	20.1	20.7	21.1	21.2	21.0	20.6	19.9	19.3	19.0	18.8	18.6	21.2	18.1
17	18.5	18.4	18.4	18.3	18.3	18.3	18.2	18.2	18.3	18.4	18.5	18.7	19.3	20.0	20.5	20.8	20.9	20.8	20.4	19.7	19.2	19.0	18.8	18.7	20.9	18.2
18	18.5	18.4	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.4	18.5	18.6	19.0	19.6	20.3	20.8	21.1	21.0	20.6	19.9	19.4	19.1	19.0	18.8	21.1	18.3
19	18.7	18.6	18.5	18.4	18.4	18.3	18.3	18.3	18.4	18.4	18.6	18.9	19.5	20.3	21.3	22.0	22.5	22.6	22.1	21.3	20.2	19.4	19.1	18.8	22.6	18.3
20	18.6	18.5	18.4	18.4	18.4	18.3	18.3	18.3	18.3	18.3	18.5	19.0	20.0	21.0	21.8	22.2	22.4	22.2	21.5	20.5	19.5	19.0	18.8	18.7	22.4	18.3
21	18.6	18.5	18.4	18.4	18.4	18.3	18.4	18.4	18.4	18.5	18.6	19.0	19.8	20.7	22.5	23.7	24.3	24.2	23.2	21.9	20.5	19.6	19.1	18.8	24.3	18.3
22	18.6	18.5	18.5	18.4	18.4	18.3	18.3	18.4	18.3	18.4	18.5	19.0	19.8	20.5	21.1	21.5	21.6	21.3	20.6	19.8	19.2	19.0	18.7	18.5	21.6	18.3
23	18.4	18.4	18.3	18.3	18.3	18.2	18.2	18.2	18.3	18.3	18.5	18.9	19.5	20.3	21.1	21.5	21.6	21.4	20.8	19.9	19.3	19.0	18.8	18.6	21.6	18.2
24	18.5	18.4	18.4	18.4	18.3	18.3	18.3	18.3	18.3	18.5	18.6	18.8	19.4	20.2	21.0	21.5	21.6	21.4	20.6	19.7	19.2	18.9	18.7	18.6	21.6	18.3
25	18.5	18.4	18.3	18.3	18.3	18.3	18.3	18.4	18.3	18.4	18.3	18.4	18.9	19.4	19.8	20.0	19.9	19.7	19.2	19.0	18.8	18.6	18.6	18.5	20.0	18.3
26	18.5	18.4	18.4	18.4	18.4	18.3	18.3	18.4	18.4	18.4	18.5	18.6	18.7	19.0	19.2	19.4	19.4	19.0	18.8	18.7	18.6	18.5	18.5	18.4	19.4	18.3
27	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.5	18.6	18.7	19.0	19.3	19.6	19.7	19.4	19.1	18.9	18.8	18.6	18.5	18.4	19.7	18.3
28	18.4	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.4	18.5	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.5	18.5	18.5	18.5	18.5	18.6	18.3
29	18.5	18.5	18.4	18.4	18.4	18.4	18.4	18.4	18.3	18.4	18.5	19.5	20.3	21.0	21.2	20.8	20.1	19.5	19.2	18.9	18.7	18.5	18.5	18.5	21.2	18.3
30	18.5	18.5	18.5	18.5	18.5	18.5	18.6	18.6	18.5	18.5	18.6	18.8	18.9	19.0	19.1	19.1	19.1	19.1	19.2	19.1	18.9	18.7	18.6	18.6	19.2	18.5
AVG.	18.6	18.6	18.5	18.5	18.4	18.4	18.4	18.4	18.4	18.5	18.6	18.9	19.5	20.2	21.0	21.5	21.7	21.5	21.0	20.3	19.7	19.2	18.9	18.8		

OZONE TRANSPORT CORRIDORS STUDY

SITE NAME : Quartzite Mountain

ELEVATION : 4482 feet

PARAMETER : Shelter Temperature (Degrees C)

LATITUDE : 34 degrees 36 minutes 38 seconds

LONGITUDE : 117 degrees 17 minutes 20 seconds

T & B SYSTEMS, INC.

MONTH : September

YEAR : 1995

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	28.2	28.9	28.8	27.9	28.1	27.6	27.2	27.0	26.9	26.8	26.6	26.7	26.7	26.9	27.0	26.9	26.7	27.7	28.7	29.6	30.2	30.3	29.2	28.0	30.3	26.6
2	28.3	28.9	29.4	29.8	30.1	30.3	30.5	30.6	30.0	28.8	28.0	27.8	27.8	27.9	28.0	28.1	27.9	27.5	27.1	26.7	27.5	28.6	29.4	29.0	30.6	26.7
3	29.0	29.1	28.8	29.0	28.6	28.8	28.8	28.7	28.9	28.2	28.5	29.4	29.2	28.9	28.6	28.3	27.9	27.5	27.1	26.8	27.6	28.7	29.6	30.0	30.0	26.8
4	30.3	30.5	30.5	30.6	30.6	30.5	30.5	30.5	29.6	28.3	27.4	27.1	27.0	27.1	27.1	27.0	26.9	26.6	26.7	27.9	28.9	29.7	30.1	30.3	30.6	26.6
5	30.2	30.1	30.0	29.9	29.9	29.9	29.7	28.6	28.3	28.6	28.0	27.5	27.3	27.3	27.4	27.4	27.3	27.0	26.7	27.3	28.3	29.2	29.6	29.9	30.2	26.7
6	30.1	30.2	30.1	30.1	30.0	30.0	30.0	30.0	29.7	28.5	27.7	28.5	28.9	28.5	28.3	28.0	27.7	27.3	27.0	27.8	28.8	29.5	29.9	30.0	30.2	27.0
7	30.1	30.1	30.0	29.9	29.9	29.9	29.9	29.9	29.9	29.1	28.0	27.5	28.6	29.7	29.1	28.4	27.8	27.2	27.0	27.9	28.8	29.4	29.7	29.8	30.1	27.0
8	29.9	29.9	29.9	29.8	29.7	29.6	29.4	29.3	29.5	29.7	29.3	28.5	27.8	27.2	26.8	26.4	25.9	25.4	24.8	24.8	25.7	26.5	26.9	27.1	29.9	24.8
9	27.3	27.3	27.2	27.1	26.9	26.7	26.5	26.4	26.5	26.3	25.7	25.2	24.8	24.5	24.4	24.3	24.2	24.2	24.5	24.9	25.6	26.2	26.5	26.7	27.3	24.2
10	26.8	26.7	26.7	26.5	26.4	26.3	26.2	26.1	26.2	25.6	25.2	25.2	24.9	24.7	24.7	24.6	24.4	24.2	24.0	24.1	24.2	24.4	24.6	25.1	26.8	24.0
11	25.5	25.3	25.2	25.6	25.8	26.1	25.8	25.4	25.1	25.0	25.0	24.9	24.9	24.9	24.9	24.9	24.8	24.7	24.4	24.2	24.1	24.2	24.4	24.5	26.1	24.1
12	24.5	24.4	24.3	24.2	24.1	24.1	24.1	24.2	24.2	24.4	24.4	24.4	24.5	24.7	25.0	26.0	26.8	27.1	27.1	26.5	25.6	25.0	25.0	24.8	27.1	24.1
13	24.8	24.9	25.0	25.0	25.2	25.9	26.4	25.9	26.2	26.6	26.6	26.9	27.6	28.3	28.9	28.8	28.6	28.0	27.3	26.7	26.1	25.6	25.1	24.7	28.9	24.7
14	24.4	24.2	24.3	24.3	24.4	24.4	24.5	24.5	24.4	24.5	24.6	24.8	25.2	25.7	26.1	26.3	26.4	26.4	26.2	25.9	25.6	25.3	24.8	24.5	26.4	24.2
15	24.7	24.5	24.5	24.6	24.7	24.8	24.8	24.9	24.8	24.9	24.9	25.1	25.8	26.2	26.4	26.5	26.6	26.5	26.3	26.1	27.0	27.9	27.4	27.4	27.9	24.5
16	28.1	28.7	29.2	29.4	29.5	29.5	29.5	29.5	29.0	27.8	27.7	28.6	28.3	27.8	27.4	27.0	26.5	26.2	26.7	27.9	28.7	29.3	29.6	29.7	29.7	26.2
17	29.9	29.9	29.8	29.7	29.6	29.4	29.2	29.0	28.8	28.0	27.4	27.2	26.9	26.7	26.4	26.3	26.2	26.2	26.3	26.3	26.5	27.0	27.5	27.8	29.9	26.2
18	28.1	28.1	28.0	27.7	27.6	27.5	27.5	27.5	27.3	27.3	27.4	27.4	27.3	27.2	26.9	26.6	26.5	26.4	26.4	26.5	26.5	26.5	26.5	26.6	28.1	26.4
19	26.8	27.0	27.4	27.8	28.0	27.6	27.3	27.1	27.0	27.0	27.0	27.0	26.8	26.6	26.5	26.4	26.3	26.1	26.1	26.0	26.1	26.5	26.9	27.6	28.0	26.0
20	27.4	27.2	26.7	26.4	26.2	26.2	26.2	26.1	26.1	26.1	26.3	26.3	26.3	26.3	26.2	26.1	26.0	26.2	26.3	26.9	27.8	28.5	29.0	29.2	29.2	26.0
21	29.2	29.2	29.2	29.1	29.0	28.9	28.8	28.3	28.0	28.0	27.7	28.2	28.1	27.7	27.3	27.0	26.8	27.1	28.4	29.4	30.0	30.2	30.4	30.5	30.5	26.8
22	30.5	30.4	30.2	30.0	29.9	29.7	29.6	29.3	28.9	29.3	28.9	28.0	27.4	27.1	26.8	26.6	26.4	26.5	27.6	28.7	29.2	29.5	29.6	29.6	30.5	26.4
23	29.5	29.4	29.2	29.0	28.8	28.5	28.3	28.1	28.0	28.0	27.8	27.6	27.6	27.8	27.3	27.5	27.2	27.7	28.5	29.1	29.3	29.4	29.3	29.2	29.5	27.2
24	29.0	28.7	28.4	28.1	27.9	27.6	27.4	27.2	27.1	27.3	27.4	27.9	27.6	27.2	27.8	27.3	27.0	27.2	28.0	28.5	28.8	28.8	28.7	28.6	29.0	27.0
25	28.5	28.3	28.2	28.0	27.7	27.5	27.2	27.1	27.0	27.2	27.7	27.7	27.8	28.5	29.3	30.0	30.4	30.6	30.5	30.2	29.8	29.4	29.1	28.7	30.6	27.0
26	28.3	27.8	27.4	26.9	26.5	26.1	25.7	25.5	25.3	25.5	26.0	26.5	27.0	27.2	27.8	28.3	28.5	28.4	27.5	27.1	27.0	26.9	26.6	26.3	28.5	25.3
27	25.9	25.6	25.3	25.0	24.7	24.5	24.3	24.2	24.2	24.4	24.7	24.8	24.7	24.6	24.5	24.5	24.4	24.6	25.1	25.5	25.8	25.8	25.8	25.7	25.9	24.2
28	25.5	25.3	25.1	24.9	24.6	24.3	24.0	23.7	23.5	23.5	23.8	24.3	24.8	25.3	25.8	26.1	26.3	26.2	25.9	25.4	25.0	24.5	24.1	23.7	26.3	23.5
29	23.3	22.9	22.6	22.2	21.9	21.6	21.4	21.3	21.4	21.7	22.2	22.8	23.5	24.0	24.3	24.5	24.6	24.6	24.6	24.6	24.8	24.9	24.8	24.6	24.9	21.3
30	24.6	24.6	24.6	24.5	24.5	24.4	24.2	23.8	23.7	23.7	24.3	25.0	25.4	25.5	25.4	25.1	24.9	24.7	24.6	24.5	24.5	24.7	24.7	25.0	25.5	23.7
AVG.	27.6	27.6	27.5	27.4	27.4	27.3	27.2	27.0	26.9	26.7	26.5	26.6	26.7	26.7	26.7	26.7	26.6	26.5	26.6	26.8	27.1	27.4	27.5	27.5		

OZONE TRANSPORT CORRIDORS STUDY

T & B SYSTEMS, INC.

SITE NAME : Shadow Mountain

LATITUDE : 34 degrees 44 minutes 15 seconds

MONTH : September

ELEVATION : 4120 feet

LONGITUDE : 117 degrees 33 minutes 54 seconds

YEAR : 1995

PARAMETER : Shelter Temperature (Degrees C)

	HOUR (PST)																									
DATE	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	MAX.	MIN.
1	30.5	30.0	29.6	29.3	29.0	28.8	28.6	28.3	28.1	28.0	28.0	28.1	28.3	28.7	29.1	29.5	29.9	30.1	30.1	30.1	30.0	29.9	29.7	29.6	30.5	28.0
2	29.4	29.2	29.0	28.8	28.7	28.5	28.4	28.2	28.1	28.1	28.1	28.3	28.5	28.9	29.3	29.7	30.1	30.3	30.5	30.5	30.4	30.2	30.0	29.8	30.5	28.1
3	29.6	29.4	29.2	29.0	28.8	28.6	28.4	28.3	28.2	28.1	28.1	28.4	28.7	29.1	29.5	29.8	30.1	30.3	30.5	30.5	30.5	30.3	30.1	29.9	30.5	28.1
4	29.6	29.3	29.0	28.7	28.5	28.2	28.0	27.7	27.6	27.5	27.5	27.6	27.8	28.1	28.5	28.9	29.3	29.7	29.9	30.0	30.1	29.9	29.7	29.3	30.1	27.5
5	29.0	28.6	28.2	27.8	27.4	27.0	26.8	26.5	26.3	26.2	26.2	26.2	26.5	26.8	27.3	27.8	28.3	28.8	29.2	29.4	29.6	29.6	29.5	29.3	29.6	26.2
6	29.1	28.9	28.6	28.3	28.0	27.7	27.5	27.2	27.1	27.0	27.0	27.1	27.3	27.6	28.1	28.5	28.9	29.2	29.5	29.6	29.6	29.4	29.2	29.0	29.6	27.0
7	28.6	28.3	28.0	27.7	27.4	27.2	27.0	26.9	26.7	26.6	26.5	26.6	26.7	27.0	27.3	27.6	28.0	28.4	28.6	28.8	28.8	28.7	28.5	28.3	28.8	26.5
8	28.0	27.7	27.4	27.2	27.2	27.0	26.7	26.4	26.0	25.8	25.7	25.7	25.8	26.0	26.4	26.7	27.0	27.4	27.8	27.8	27.6	27.5	27.2	26.9	28.0	25.7
9	26.6	26.3	26.0	25.7	25.5	25.2	24.9	24.6	24.4	24.3	24.2	24.2	24.4	24.6	25.0	25.4	25.8	26.2	26.5	26.7	26.9	27.2	26.9	26.4	27.2	24.2
10	26.0	25.6	25.3	25.0	24.7	24.4	24.1	23.9	23.7	23.6	23.6	23.7	23.9	24.2	24.7	25.1	25.5	26.0	26.3	26.5	26.6	26.6	26.4	26.2	26.6	23.6
11	26.0	25.7	25.4	25.1	24.9	24.6	24.4	24.2	24.1	24.0	24.0	24.1	24.3	24.7	25.1	25.6	26.0	26.5	26.9	27.2	27.5	27.5	27.5	27.4	27.5	24.0
12	27.2	27.0	26.8	26.6	26.4	26.2	26.1	25.9	25.7	25.6	25.6	25.7	25.9	26.3	26.7	27.2	27.6	28.0	28.4	28.6	28.8	28.7	28.5	28.3	28.8	25.6
13	28.0	27.6	27.3	27.0	26.7	26.4	26.1	25.9	25.7	25.6	25.5	25.5	25.8	26.1	26.6	27.1	27.6	28.1	28.5	28.8	29.0	29.0	29.0	28.9	29.0	25.5
14	28.8	28.6	28.4	28.2	28.0	27.8	27.5	27.4	27.2	27.1	27.2	27.4	27.7	28.0	28.4	28.8	29.2	29.6	29.9	30.2	30.3	30.3	30.1	30.0	30.3	27.1
15	29.7	29.5	29.2	29.0	28.8	28.5	28.3	28.1	27.9	27.8	27.8	27.9	28.1	28.5	28.9	29.3	29.6	29.9	30.1	30.3	30.3	30.2	30.0	29.8	30.3	27.8
16	29.6	29.4	29.1	28.8	28.5	28.2	28.0	27.7	27.6	27.5	27.4	27.5	27.6	27.9	28.2	28.5	28.8	29.0	29.2	29.2	29.2	29.0	28.7	28.4	29.6	27.4
17	28.1	27.7	27.4	27.1	26.8	26.5	26.2	26.0	25.8	25.9	26.2	26.1	26.0	26.0	26.3	26.5	26.8	27.1	27.4	27.5	27.5	27.3	27.0	26.7	28.1	25.8
18	26.4	26.1	25.7	25.4	25.1	24.9	24.7	24.4	24.3	24.1	24.1	24.2	24.5	24.8	25.3	25.7	26.2	26.6	26.9	27.2	27.4	27.4	27.4	27.3	27.4	24.1
19	27.1	26.9	26.7	26.5	26.3	26.1	25.9	25.8	25.6	25.5	25.5	25.6	25.9	26.3	26.7	27.2	27.8	28.3	28.6	28.9	28.9	28.9	28.7	28.5	28.9	25.5
20	28.2	27.9	27.7	27.4	27.2	26.9	26.7	26.5	26.3	26.2	26.1	26.2	26.4	26.6	27.0	27.4	27.8	28.1	28.4	28.5	28.6	28.5	28.3	28.0	28.6	26.1
21	27.7	27.4	27.1	26.9	26.6	26.3	26.1	25.9	25.7	25.6	25.6	25.6	25.8	26.1	26.5	26.8	27.2	27.5	27.9	28.1	28.2	28.2	28.0	27.9	28.2	25.6
22	27.6	27.4	27.1	26.9	26.6	26.4	26.1	26.0	25.8	25.6	25.5	25.6	25.7	26.0	26.4	26.8	27.2	27.5	28.2	28.6	28.6	28.2	27.8	27.5	28.6	25.5
23	27.1	26.7	26.4	26.0	25.7	25.4	25.1	24.8	24.6	24.4	24.2	24.2	24.4	24.6	24.9	25.3	25.7	26.0	26.2	26.4	26.4	26.3	26.1	25.9	27.1	24.2
24	25.6	25.4	25.1	24.8	24.5	24.2	23.9	23.7	23.5	23.3	23.3	23.3	23.5	23.7	24.1	24.5	24.9	25.3	25.6	25.7	25.8	25.7	25.5	25.3	25.8	23.3
25	25.1	24.8	24.6	24.3	24.0	23.8	23.6	23.4	23.2	23.0	22.9	22.9	23.1	23.3	23.5	23.8	24.1	24.4	24.6	24.7	24.7	24.6	24.4	24.2	25.1	22.9
26	23.9	23.7	23.4	23.1	22.8	22.5	22.2	21.9	21.6	21.4	21.3	21.2	21.3	21.6	21.9	22.3	22.7	23.1	23.4	23.6	23.7	23.7	23.5	23.3	23.9	21.2
27	23.0	22.7	22.4	22.1	21.8	21.7	21.5	21.2	20.8	20.7	20.6	20.6	20.8	21.2	21.5	22.0	22.4	22.9	23.2	23.4	23.4	23.3	23.2	23.0	23.4	20.6
28	23.0	22.7	22.4	22.1	21.8	21.5	21.2	20.9	20.6	20.3	20.1	20.1	20.2	20.9	21.5	22.0	21.9	21.7	21.7	21.7	21.5	21.2	20.9	20.7	23.0	20.1
29	20.4	20.1	19.7	19.4	19.1	18.9	18.6	18.4	18.1	18.0	17.8	17.9	18.0	18.4	18.8	19.3	19.8	20.3	20.7	21.1	21.3	21.3	21.3	21.2	21.3	17.8
30	21.0	20.9	20.8	20.6	20.5	20.3	20.1	20.1	19.9	19.8	19.8	20.2	20.3	20.5	20.8	21.2	21.5	21.9	22.3	22.5	22.7	22.7	22.6	22.5	22.7	19.8
AVG.	27.0	26.7	26.4	26.2	25.9	25.7	25.4	25.2	25.0	24.9	24.8	24.9	25.1	25.4	25.8	26.2	26.6	26.9	27.2	27.4	27.5	27.4	27.2	27.0		

APPENDIX A

Zero Precision Span Check Reports

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O3 TRANSP Station ID BAL Location BALOY MESA

Analyzer Make/Model DASIBI 1003A-H Serial No 3150 Range 0-500 ppb

GENERAL	Date 1995	8/17	8/30	8/30	9/8		
	Date of Last Calibration	8/8	8/8	8/8	8/8		
	Station Operator	RCH	RCH	RCH	RCH		
	Check is U or A (1)	U	U	A	U		
	Sample Flow Rate (2 LPM)	2.1	2.0	2.0	2.0		
	Analyzer Span Number	60.550	60.550	60.550	60.550		
	Sample Frequency (40.0 - 48.0)	43.595	42.319	46.982	45,922		
	Control Frequency (21.0 - 28.0)	21.413	20.810	22,959	22,524		
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	1	1	1	-2		
	Pass? (2) (Yes / No)	Y	Y	Y	Y		
PRECESION	Known Input Concentration, ppb	N/A	95	N/A	N/A		
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	-	98	—	—		
	DAS Error Δ% (3)	—	2.8	—	—		
	Pass? (4) (Yes / No)	—	Y	—	N/A		
SPAN	Known Input Concentration, ppb	424	404	413	408		
	DVM Volts	—	—				
	Observed DAS Response, ppb	409	424	427	406		
	DAS Error Δ% (3)	-3,5	5,0	3.5	-0,5		
	Pass? (4) (Yes / No)	Y	Y	Y	Y		

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O3 offline

Date	Start	End	
8/16	23:50	→	OFFline 8/16 2350 To 8/17 00:26
8/17	→	00:26	
8/30	19:04	20:28	Adjusted lamp
9/8	05:28	- 05:55	

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSP Station ID BAL Location BALDY MESA

Analyzer Make/Model DASIBI 1003-A-H Serial No 3150 Range 0-500 ppb

GENERAL	Date 1995	9/14	9/21	9/28			
	Date of Last Calibration	8/8	9/14	9/14			
	Station Operator	RCH	RCH	RCH			
	Check is **U** or **A** (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2	2	1.9			
	Analyzer Span Number	60,550	60,550	60,550			
	Sample Frequency (40.0 - 48.0)	44.400	44.248	43.573			
	Control Frequency (21.0 - 28.0)	21.778	21.795	21.608			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	0	0	-2			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	89	N/A	94			
	DVM Volts	-					
	Observed DAS Response, ppb	85	N/A	89			
	DAS Error Δ% (3)	-4.5		-5.3			
	Pass? (4) (Yes / No)	Y	N/A	Y			
SPAN	Known Input Concentration, ppb	396	406	401			
	DVM Volts	—		—			
	Observed DAS Response, ppb	378	392	389			
	DAS Error Δ% (3)	-4.5	-3.4	-3.0			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 OFFLINE 9/14/95 14:00:30 PST TO 15:20 PST MULTI + FILTER
O_3 OFFLINE 9/21/95 09:00:30 PST TO 09:32:00 Z/S + FILTER
O_3 OFFLINE 9/28/95 ~~10:00~~ 09:02 TO 10:35 AUDIT AND Z/S + FILTER
MET OFFLINE FOR AUDIT 9/28/95 0747-0859 PST

STATION OPERATION CHECKLIST REPORT

Project Name CARB O_3 TRANSP Station ID BOR Location BORON F.S. CA

		Mo. / Day 1995→	8/18	8/31	9/9			
		Tech. Initials→	RCG	RCG	RCG			
	Checklist Item	**Standard**						
STN	Maximum Station Temperature, °C	≤30°C	29.3	40.5	28.0			
STN	Minimum Station Temperature, °C	≥20°C	4.1	5.1	16.7			
STN	Are All Instruments Operational?	Yes	Y	Y	Y			
DAS	Are All Instruments On Line?	Yes	Y	Y	Y			
DAS	Is the Power Supply Plugged In?	Yes	Y	Y	Y			
DAS	Indicate Local Standard Time	NA	16:08	18:37	15:33			
DAS	Indicate DAS Clock Time	±3 min of LST	16:08	18:37	15:33:32			
DAS	Indicate Battery Voltage	12 - 16 VDC	13.3	13.3	13.3			
METEOROLOGY	Is WS/WD Sensor Intact?	Yes	Y	Y	Y			
METEOROLOGY	Are Tower Guy Wires Tight?	Yes	N/A	N/A	N/A			
METEOROLOGY	Estimated Wind Speed, mps	NA	2	3.5	5			
METEOROLOGY	DAS reported Wind Speed, mps	±5 mps of estimate	1.96	4.3	5.19			
METEOROLOGY	Estimated Wind Direction, deg.	NA	210	270	240			
METEOROLOGY	DAS reported Wind Direction, deg.	±30 deg of estimate	215	270	240			
METEOROLOGY	Estimated Air Temperature, °C	NA	35	30	30			
METEOROLOGY	DAS reported Air Temperature, °C	±5° C of estimate	34.4	33.6	31.0			
OZONE	Indicate Sample Flow Rate	2 LPM	2	2	2.4			
OZONE	Indicate MODE Switch Setting	OPERATE	OPER	OPER	OPER			
OZONE	Was In-Line Filter Replaced? Y / N	Replace Weekly	Y	~~Y 27.9~~	Y			
OZONE	Indicate Current O_3 Values	See Below *	51	46.3	65.7			

* Expect ambient O_3 concentrations of 30 - 50 ppb mornings and evenings; 50 - 100+ ppb during hours of bright sunlight.

DAS TEMP °C | 25.8 | 27.9 | 27.1 | | | |

Date	Comments and Notations
8/18	Yes-Min 4.1°C, 25.8 at arrival, WARM to HOT, Light + Variable breeze. Reset A/C from 7 to 6
8/31	Moderate west breeze, partly cloudy altocumulus slight haze surface
	haze or smoke layers aloft. Internal DAS Temp 27.9 Stat Max Min 27.2
9/9	CLEAR, Moderate WSW breeze, warm, MAX/MIN 26.4 DAS 26.9

STATION OPERATION CHECKLIST REPORT

Project Name CARB O_3 TRANSV Station ID BOR Location BORON CA

Mo. / Day 1995→	9/17	9/21	9/29	10/5		
Tech. Initials→	RCG	RCG	RCG	RCG		

	Checklist Item	Standard						
STN	Maximum Station Temperature, °C	≤30°C	26.6	25.9	25.2	26.5		
	Minimum Station Temperature, °C	≥20°C	15.1	15.8	15.2	10.2		
	Are All Instruments Operational?	Yes	Y	Y	Y	Y		
DAS	Are All Instruments On Line?	Yes	Y	Y	Y	Y		
	Is the Power Supply Plugged In?	Yes	Y	Y	Y	Y		
	Indicate Local Standard Time	NA	13:46:00	18:54:00	06:14:00	15:15:00		
	Indicate DAS Clock Time	±3 min of LST	13:46:36	18:54:03	06:14:06	15:15:08		
	Indicate Battery Voltage	12 - 16 VDC	13.3	13.3	13.5	13.3		
METEOROLOGY	Is WS/WD Sensor Intact?	Yes	Y	Y	Y	Y		
	Are Tower Guy Wires Tight?	Yes	N/A	N/A	N/A	N/A		
	Estimated Wind Speed, mps	NA	3.5	2	5	3		
	DAS reported Wind Speed, mps	±5 mps of estimate	3.7	1.8	5.78	3.72		
	Estimated Wind Direction, deg.	NA	250	120	230	80		
	DAS reported Wind Direction, deg.	±30 deg of estimate	246	126	221	75.5		
	Estimated Air Temperature, °C	NA	32	30	10	24		
	DAS reported Air Temperature, °C	±5° C of estimate	33.1	28.1	12.9	24.0		
OZONE	Indicate Sample Flow Rate	2 LPM	2.4	2	2	2		
	Indicate MODE Switch Setting	OPERATE	OVER	OPER	OVER	OVER		
	Was In-Line Filter Replaced? Y / N	Replace Weekly	Y	Y	Y	Y		
	Indicate Current O_3 Values	See Below *	45	40	42	39.4		

* Expect ambient O_3 concentrations of 30 - 50 ppb mornings and evenings; 50 - 100+ ppb during hours of bright sunlight.

DAS INTERNAL TEMP. °C | 25.1 | 24.7 | 17.1 | 23.1 | | | |

Date	Comments and Notations
9-17	CLEAR, NO HAZE DAS = 25.1 MAX/MIN = 26.2 Moderate West Wind
9-21	CLEAR, FEW Altocumulus, Distant Towering cumulus north, East wind, Light Haze
	Thicker Haze East then South, WARM DAS Temp 24.7 MAX/MIN 23.3
9-29	CLEAR, BREEZY, COOL, LIGHT HAZE, Few Cumulus over Mtns West
	DAS 17.1 MAX/MIN 15.9
10-5	CLEAR, EAST BREEZE, JUST WARM, NO HAZE DAS 23.2 MAX/MIN 23.3
	RESET AIR CONDITIONER FROM "7" to "6" (WARMER)

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name O3 TRANSECT STUDY Station ID CAT Location CATALINA AIRPORT

Analyzer Make/Model D 1003 AH Serial No 2509 Range 1000 ppb

GENERAL	Date 1995	08SEP95	11SEP95	20SEP95	25SEP95		
	Date of Last Calibration	23AUG95	→	→	20SEP95		
	Station Operator	FRO	G.MAZIS	G.MAZIS	G.MAZIS		
	Check is U or A (1)	U	U	U	U		
	Sample Flow Rate (2 LPM)	2.2	2.2	2.2	2.1		
	Analyzer Span Number	55.55	55.55	55.550	55.550		
	Sample Frequency (40.0 - 48.0)	41.464	41.024	40.537	40.280		
	Control Frequency (21.0 - 28.0)	22.558	22.625	22.471	22.346		
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	~~DVM Volts~~ OFFSET (DISPLAY)	(9)	(8)	(9)	(9)		
	Observed DAS Response, ppb	7	5	5	5		
	Pass? (2) (Yes / No)	✓			✓		
PRECESION	Known Input Concentration, ppb	82		89			
	~~DVM Volts~~						
	Observed DAS Response, ppb	84		90			
	DAS Error Δ% (3)	2.4		1.1			
	Pass? (4) (Yes / No)	✓		✓			
SPAN	Known Input Concentration, ppb	406	421	416	410		
	~~DVM Volts~~						
	Observed DAS Response, ppb	385	399	402	394		
	DAS Error Δ% (3)	-5.2	-5.2	-3.4	-3.9		
	Pass? (4) (Yes / No)	✓	✓	✓	✓		

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

$Y_{STD} = 1.038 S_X - 2.168$ 26 AUG 95

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O3 TRANSP Station ID FLA Location FLASH II MTN

Analyzer Make/Model DASIBI 1003-AH Serial No 3070 Range 500 ppb

GENERAL	Date 1995	8/17	8/31	9/7			
	Date of Last Calibration	8/8	8/8	8/8			
	Station Operator	RCH	RCH	RCH			
	Check is **U** or **A** (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2	2	2			
	Analyzer Span Number 59,450 →	59.~~450~~	59,450	59,450			
	Sample Frequency (40.0 - 48.0)	42.031	41.752	41.521			
	Control Frequency (21.0 - 28.0)	23.391	23.222	23.062			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	4	5	1			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	N/A	90	N/A			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	—	91	—			
	DAS Error Δ% (3)	—	1.8	—			
	Pass? (4) (Yes / No)	—	Y	N/A			
SPAN	Known Input Concentration, ppb	404	394	398			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	400	387	392			
	DAS Error Δ% (3)	-1	-1.8	-1.5			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 Down for test 8/17 2002 - 2055 PST
8/31 0204 - 0252 PST
9/7 2200:30 - 2241:00 PST

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSP Station ID FLA Location FLASH II MTN

Analyzer Make/Model DASIBI 1003-AH Serial No 3070 Range 0-500 ppb

GENERAL	Date 1995	9/15	9/22	10/1	10/8		
	Date of Last Calibration	8/8	9/15	9/15	9/15		
	Station Operator	RH	RH	RH	RCH		
	Check is U or A (1)	U	U	U	U		
	Sample Flow Rate (2 LPM)	2	2.	1.8	2		
	Analyzer Span Number	59.450	59.450	59.450	59.450		
	Sample Frequency (40.0 - 48.0)	41.370	40,880	40.563	40.315		
	Control Frequency (21.0 - 28.0)	22,896	22.746	22,585	22.350		
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	7	9	2	-1		
	Pass? (2) (Yes / No)	Y	Y	Y	Y		
PRECESION	Known Input Concentration, ppb	91	N/A	86	N/A		
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	99	N/A	80	N/A		
	DAS Error Δ% (3)	8.8	N/A	-6.9	N/A		
	Pass? (4) (Yes / No)	Y	N/A	Y	N/A		
SPAN	Known Input Concentration, ppb	390	386	388	409		
	DVM Volts	—	—				
	Observed DAS Response, ppb	397	393	367	395		
	DAS Error Δ% (3)	1.8	1.8	-5.4	-3.4		
	Pass? (4) (Yes / No)	Y	Y	Y	Y		

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 DOWN TIME & DATE 9/15/95 08:27 - 10:12 MULTI & FILTER CHANGE

O_3 DOWN 9/22/95 08:00:30 - 08:41:00 Z/S & FILTER

TEMPERATURE OFF LINE 0627 - 0709 AUDIT AND REPOSITIONING

WIND DIRECTION AND SPEED OFF LINE 0725 - 0826 AUDIT

OZONE OFF LINE 0830 - 09:49 AUDIT, RMS & FILTER

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

OZONE OFF LINE 10/8/95 11:22 TO ~~PDT~~ PST 11:57

5/95

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O3 TRANSFER Station ID LUD Location LUDLOW, CA

Analyzer Make/Model DASIBI 1003-A-H Serial No 1039 Range 0-500 ppb

GENERAL	Date 1995	8-18	8-31	9-7			
	Date of Last Calibration	8/9	8/9	8/9			
	Station Operator	RCH	RCH	RCH			
	Check is U or A (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2.3	2.1	2.0			
	Analyzer Span Number	55,550	SPAN 55,550	55,550			
	Sample Frequency (40.0 - 48.0)	42,055	41,973	41,547			
	Control Frequency (21.0 - 28.0)	24,107	24,064	24,048			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	-1	-1	0			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	N/A	90	N/A			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	—	87	—			
	DAS Error Δ% (3)	—	-3.3	—			
	Pass? (4) (Yes / No)	—	Y	—			
SPAN	Known Input Concentration, ppb	407	414	413			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	401	401	413			
	DAS Error Δ% (3)	-1.4	-3.1	0			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 and Temp off line dates & times 11:04 - 11:57 8-18-95

O_3 and Temp off line 8-31-95 0803 - 08:59

O_3 only off line 9/7/95 17:18 - 17:48 (Ran thru filter but not inlet due to Thunderstorm within a few hrs

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSPORT Station ID LUD Location LUDLOW CA

Analyzer Make/Model DASIBI 1003 - AH Serial No 1039 Range 0 - 500 ppb

GENERAL	Date 1995	9/15/95	9/22/95	9/30/95	10/8/95		
	Date of Last Calibration	8/9	9/15	9/15	9/15		
	Station Operator	RCH	RCH	RCH	RCH		
	Check is U or A (1)	U	U	U	U		
	Sample Flow Rate (2 LPM)	2	2	2	2		
	Analyzer Span Number	55.550	55.550	55.550	55.550		
	Sample Frequency (40.0 - 48.0)	41.275	41.201	41.059	40.980		
	Control Frequency (21.0 - 28.0)	23.959	23.898	23.841	23.766		
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	–	–	–	–		
	Observed DAS Response, ppb	-3	-1	0	1		
	Pass? (2) (Yes / No)	Y	Y	Y	Y		
PRECESION	Known Input Concentration, ppb	92.4	N/A	93.8	N/A		
	DVM Volts	–	–				
	Observed DAS Response, ppb	89.6	N/A	89.4	N/A		
	DAS Error Δ% (3)	-3.0	N/A	-4.7	N/A		
	Pass? (4) (Yes / No)	Y	N/A	Y	N/A		
SPAN	Known Input Concentration, ppb	410	392	408.6	399		
	DVM Volts	–	–	–	–		
	Observed DAS Response, ppb	399	382	391.5	399		
	DAS Error Δ% (3)	-2.7	-2.6	-4.2	0		
	Pass? (4) (Yes / No)	Y	Y	Y	Y		

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 AND TEMP OFF LINE Dates and Times: 9/15/95 16:00:30 TO 17:39 PST

9/22 O_3 DOWN 12:00:30 TO 12:51 PST
TEMPERATURE DOWN 12:11:00 TO 12:53 PST

9/30 TEMP OFF LINE 14:15-14:35 AND 1450-15:55
OZONE OFFLINE 1450-1604 Did Not Down Net

10/8 O_3 OFF LINE 08:00:30 TO 08:50:00 TEMP 0804-0806 0831-0835

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSW Station ID PAL Location SE PALMDALE, CA

Analyzer Make/Model DASIBI 1003-A-H Serial No 1813 Range 0-500 ppb

GENERAL	Date 1995	8-20	9-1-95	9-8-95			
	Date of Last Calibration	8-17	8-17	8-17			
	Station Operator	RCH	RCH	RCH			
	Check is U or A (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2	2	2			
	Analyzer Span Number	57,850	57,850	57,850			
	Sample Frequency (40.0 - 48.0)	41,160	40,575	40,380			
	Control Frequency (21.0 - 28.0)	22,277	21,915	21,783			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	–	–	–			
	Observed DAS Response, ppb	7	6	7			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	N/A	83	N/A			
	DVM Volts	–	–	–			
	Observed DAS Response, ppb	–	85	–			
	DAS Error Δ% (3)	–	2.4	–			
	Pass? (4) (Yes / No)	–	Y	N/A			
SPAN	Known Input Concentration, ppb	410	401	403			
	DVM Volts	–	–				
	~~DAS WITH~~ Observed DAS Response, ppb	417	392	403			
	DAS Error Δ% (3)	1.8 %	-2.2	0			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 OFF LINE FOR Z/S & FILTER CHANGE 13:01 - 13:50

O_3 OFF LINE FOR Z/P/S & FILTER CHANGE 14:00 - 14:58

O_3 OFF LINE FOR Z/S & FILTER CHANGE 15:01 - 15:59

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSP Station ID PAL Location SE PALMDALE CA

Analyzer Make/Model DASIBI 1003-A-H Serial No 1813 Range 0 - 500 ppb

GENERAL	Date 1995	9-14	9-21	9-21	9-29	10-6	
	Date of Last Calibration	8-17	9-14	9-14	9-14	9-14	
	Station Operator	RCH	RCH	RCH	RCH	RCH	
	Check is U or A (1)	U	U	A	U	U	
	Sample Flow Rate (2 LPM)	2	2	2	2	2	
	Analyzer Span Number	57,850	57,850	57,850	57,850	57,850	
	Sample Frequency (40.0 - 48.0)	40,098	39,455	47,761	46,540	46,321	
	Control Frequency (21.0 - 28.0)	21.607	21,432	24,306	24,167	24,063	
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—	—	—	
	Observed DAS Response, ppb	6	6	5	6	5	
	Pass? (2) (Yes / No)	Y	Y	Y	Y	Y	
PRECESION	Known Input Concentration, ppb	96.3	N/A	N/A	92.9	N/A	
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	98.6	N/A	N/A	95.6	N/A	
	DAS Error Δ% (3)	2.4	—	—	2.9	N/A	
	Pass? (4) (Yes / No)	Y	N/A	N/A	Y	N/A	
SPAN	Known Input Concentration, ppb	405	394	402	404	410	
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	406	391	391	400	414	
	DAS Error Δ% (3)	0.2	-0.8	-2.7	-1.0	1.0	
	Pass? (4) (Yes / No)	Y	Y	Y	Y	Y	

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 OFFLINE FOR Checks + Filter Change : 19:02 - 20:30 9-14-95

O_3 OFFLINE FOR Z/S - FILTER, LAMP + Z/S 14:00:30 - 15:00:00

9-~~28~~ RCH 29 - MET + O_3 AUDIT + O_3 Z/P/S TEMP OFF LINE 11:00 - 11:22 9/29

WIND SPEED + DIRECTION OFF LINE 11:30 - 12:45 9/29

O_3 OFF LINE 12:48 - 14:10

OGDEN ENVIRONMENTAL AND ENERGY SERVICES

10-6 O_3 OFF LINE 07:00:30 TO 07:33:00 PST

5/95

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O3 TRANSP. Station ID QUA Location QUARTZITE MTN CA

Analyzer Make/Model DASIBI 1003-A-14 Serial No 2052 Range 0-500 ppb

GENERAL	Date 1995	8/20	9/1	9/8			
	Date of Last Calibration	8/10	8/10	8/10			
	Station Operator	RCH	RCH	RCH			
	Check is U or A (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2	2	2			
	Analyzer Span Number	61.550	61.550	61,550			
	Sample Frequency (40.0 - 48.0)	44.517	44.134	43,374			
	Control Frequency (21.0 - 28.0)	23.808	23.984	23.801			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	6	0	2			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	N/A	90	N/A			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	—	92	—			
	DAS Error Δ% (3)	—	2.2	—			
	Pass? (4) (Yes / No)	—	Y	N/A			
SPAN	Known Input Concentration, ppb	405	397	403			
	DVM Volts	—	—				
	Observed DAS Response, ppb	406	398	399			
	DAS Error Δ% (3)	0.3	0.3	-1.0			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O3 OFFLINE 8/20 09:01 - 09:45 Test + Filter change
O3 OFF LINE 9/1 0802 - 0854 Test + Filter change
O3 OFF LINE 9/8 10:00 - 10:40 Test + Filter change

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSP Station ID QUA Location QUARTZITE MTN, CA

Analyzer Make/Model DASIBI 1003-A-H Serial No 2052 Range 0-500 ppb

GENERAL	Date 1995	9-13	9-24	9-30	10-8		
	Date of Last Calibration	8/10	9-13	9-13	9-13		
	Station Operator	RCH	RCH	RCH	RCH		
	Check is U or A (1)	A	U	U	U		
	Sample Flow Rate (2 LPM)	2.2	2	1.8	1.8		
	Analyzer Span Number	61,550	61,550	61,550	61,550		
	Sample Frequency (40.0 - 48.0)	46,867	46,084	45,635	45,140		
	Control Frequency (21.0 - 28.0)	24,198	23,872	23,980	23,880		
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	4.6	1	0	2		
	Pass? (2) (Yes / No)	Y	Y	Y	Y		
PRECESION	Known Input Concentration, ppb	81	N/A	~~49.5~~ 97.0 RCH	N/A		
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	84	N/A	99.4	N/A		
	DAS Error Δ% (3)	3.5	N/A	2.5	N/A		
	Pass? (4) (Yes / No)	Y	N/A	Y	N/A		
SPAN	Known Input Concentration, ppb	401	388	407	391		
	DVM Volts	—	—	—	—		
	Observed DAS Response, ppb	396	382	408	389		
	DAS Error Δ% (3)	-1.2	-1.5	0.2	-0.5		
	Pass? (4) (Yes / No)	Y	Y	Y	Y		

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 OFFLINE TIME & DATES 8/13/95 0810 - 1415 DASIBI WAS BAD ON ARRIVAL
O_3 VALUES HIGHLY VARIABLE BEGAN WORK ON ANALYZER AT 0810
SEE MAINTAINANCE / MALFUNCTION REPORT

O_3 OFF LINE FOR Z/S + FILTER 9-24-95 11:00:30 - 11:45:00

9/30 O_3 OFF LINE 0702 - 0834, T OFFLINE 0556 - 0615 WS/WD OFFLINE 0625 - 0
FOR AUDITS & ZPS

10/8 O_3 OFFLINE FOR ZERO/SPAN 15:00:30 TO 15:52:00 5/95
AND FILTER CHANGE

Ozone Analyzer Zero / Precision / Span Check Report

Project Name CARB O_3 TRANSP. Station ID SHA Location SHADOW MTN

Analyzer Make/Model DASIBI 1003-A-14 Serial No 1836 Range 0-500 ppb

GENERAL	Date 1995	8-19-95	8-31-95	9-9-95			
	Date of Last Calibration	8/10	8-10	8-10			
	Station Operator	RCH	RCH	RCH			
	Check is **U** or **A** (1)	U	U	U			
	Sample Flow Rate (2 LPM)	2	2	2			
	Analyzer Span Number	60.550	60.550	60.550			
	Sample Frequency (40.0 - 48.0)	44.926	44.345	43.907			
	Control Frequency (21.0 - 28.0)	23.616	23.239	23.006			
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	1	4	4			
	Pass? (2) (Yes / No)	Y	Y	Y			
PRECESION	Known Input Concentration, ppb	N/A	93.7	N/A			
	DVM Volts	—	—	—			
	Observed DAS Response, ppb	—	96.4	—			
	DAS Error Δ% (3)	—	2.9	—			
	Pass? (4) (Yes / No)	—	Y	N/A			
SPAN	Known Input Concentration, ppb	402	403	399			
	DVM Volts	—	—				
	Observed DAS Response, ppb	397	406	391			
	DAS Error Δ% (3)	-1.2	0.7	-2.0			
	Pass? (4) (Yes / No)	Y	Y	Y			

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

O_3 off line 8/19 18:17 - 18:56 for Z/S RCH
O_3 off line for test & filter change 8/31 23:18 to 9/1 00:09 RCH
O_3 off line for test & filter change 9/9 21:00 to 21:45 RCH

OZONE ANALYZER ZERO / PRECISION / SPAN CHECK REPORT

Project Name CARB O_3 TRANSP Station ID SHA Location SHADOW MTN, CA

Analyzer Make/Model DASIBI 1003-A-H Serial No 1836 Range 0-500 ppb

GENERAL	Date 1995	9/17	9/22	9/28	9/28	10/5	
	Date of Last Calibration	8-10	9-17	9-17	9-17	9-17	
	Station Operator	RCH	RCH	RCH	RCH	RCH	
	Check is U or A (1)	U	U	U	A	U	
	Sample Flow Rate (2 LPM)	2	2	1*	1	2 to 1 & 2*	
	Analyzer Span Number	60,550	60,550	60,550	60,550	60,550	
	Sample Frequency (40.0 - 48.0)	43,611	43,258	38,169	46,284	46,729	
	Control Frequency (21.0 - 28.0)	22,825	22,632	22,610	22,536	22,324	
ZERO	Known Input Concentration, ppb	0.0	0.0	0.0	0.0	0.0	0.0
	DVM Volts	—	—	—	—	—	
	Observed DAS Response, ppb	5	1	-1	-2	0	
	Pass? (2) (Yes / No)	Y	Y	Y	Y	Y	
PRECESION	Known Input Concentration, ppb	97	N/A	86	N/A	N/A	
	DVM Volts	—					
	Observed DAS Response, ppb	105	N/A	85	N/A	N/A	
	DAS Error Δ% (3)	8.2	N/A	-1.2	N/A	N/A	
	Pass? (4) (Yes / No)	Y	N/A	Y	N/A	N/A	
SPAN	Known Input Concentration, ppb	392	396	389	394	396	
	DVM Volts	—					
	Observed DAS Response, ppb	380	394	393	394	404	
	DAS Error Δ% (3)	-3.3	-0.5	1.0	0	2.0	
	Pass? (4) (Yes / No)	Y	Y	Y	Y	Y	

(1) Unadjusted = "As Found"; Adjusted = "As Left"
(2) DAS Response, ppb = ±2% of full scale
(3) Δ% = (Observed Response - Known Input) ÷ Known Input x 100
(4) DAS Response, ppb = ±10% of Input Concentration

Precision Level Concentration = 80 - 100 ppb
Span Level Concentration = 350 - 450 ppb

~~DAS~~ RACK OFF O_3 OFFLINE FOR TEST/CAL & FILTER 09:01 - 10:56 PST 9/17/9
O_3 OFF LINE 9/22/95 19:00:30 TO 19:54:00 PST
* 1* Adjusted flow down from 2 - 2 pulled too much from calibrator
9/28 O_3 OFF LINE FOR AUDIT, ZPS & ZP & FILT 14:05 - 15:25
10/5 O_3 OFFLINE 12:00:30 TO 12:41:00

APPENDIX B

Multipoint Calibration Reports

OZONE MULTIPOINT CALIBRATION REPORT

Station: BALDY MESA Date: 9-14-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 1400 PST Make: DASIBI SN#: 3150
End: 1520 PST Model: 1003 AH Range: 0-500 ppb

Span#: 60.550 Samp.Freq.(40-48 kHz): 44.400
Offset#: 4 Cont.Freq.(21-28 kHz): 21.778

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 46.077
Slope: 1.0025 Cont.Freq.(21-28 kHz): 22.925
Inter.: -0.0880 Cell Temperature, C: 43.00
Bar. Pressure, mmHg: 653.70
STP Correction Factor: 1.1699

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
13	0	-0	-0	---	---	---	---
89	88	85	-4	-4.0	---	---	---
179	194	183	-11	-5.6	---	---	---
351	396	378	-18	-4.5	---	---	---
Mean Absolute Errors:		8	4.70			NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 399 ppb is 3.7 %

Station does not have chart recorder as backup system.

LINEAR REGRESSIONS	Primary	Backup
Slope, m:	0.9546	NA
Intercept, b:	-0.429	NA
Corr.,r:	1.0000	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: BORON Date: 9-17-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 1500 PST Make: DASIBI SN#: 1805
End: 1559 PST Model: 1003 AH Range: 0-500 ppb

Span#: 57.550 Samp.Freq.(40-48 kHz): 48.152
Offset#: 4 Cont.Freq.(21-28 kHz): 24.810

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 46.361
Slope: 1.0025 Cont.Freq.(21-28 kHz): 23.102
Inter.: -0.0880 Cell Temperature, C: 43.50
Bar. Pressure, mmHg: 692.80
STP Correction Factor: 1.1056

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
13	0	-2	-2	---	---	---	---
99	96	94	-2	-1.7	---	---	---
178	183	178	-5	-2.6	---	---	---
373	399	396	-4	-0.9	---	---	---
Mean Absolute Errors:		3	1.73			NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 408 ppb is 3.0 %

Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9953	NA
Intercept, b:	-2.151	NA
Corr.,r:	1.0000	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: CATALINA Date: 9/20/95 Tech: G.MAZIS

**** STATION OZONE ANALYZER ****

Begin: 1030 PST Make: DASIBI SN#: 2509
End: 1240 PST Model: 1003 AH Range: 0-500 ppb

Span#: 55.550 Samp.Freq.(40-48 kHz): 40.537
Offset#: 4 Cont.Freq.(21-28 kHz): 22.471

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1008 PC SN#: 4700
Range: 0-500 ppb Span#: 30.808 Offset#: 8

Cert. Date: 8/26/95 Samp.Freq.(40-48 kHz): 44.682
Slope: 1.0385 Cont.Freq.(21-28 kHz): 50.000
Inter.: -2.1680 Cell Temperature, C: 38.400
Bar. Pressure, mmHg: 732.00
STP Correction Factor: 1.0296

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
9	0	5	5	---	---	---	---
97	89	90	1	1.1	---	---	---
195	191	188	-3	-1.6	---	---	---
413	417	402	-15	-3.6	---	---	---
Mean Absolute Errors:			6	2.10		NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9520	NA
Intercept, b:	5.364	NA
Corr.,r:	1.0000	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: FLASH II Date: 9-15-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 0827 PST Make: DASIBI SN#: 3070
End: 1012 PST Model: 1003 AH Range: 0-500 ppb

Span#: 59.450 Samp.Freq.(40-48 kHz): 41.370
Offset#: 4 Cont.Freq.(21-28 kHz): 22.896

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-29-95 Samp.Freq.(40-48 kHz): 45.496
Slope: 1.0025 Cont.Freq.(21-28 kHz): 22.833
Inter.: -0.0880 Cell Temperature, C: 45.50
Bar. Pressure, mmHg: 672.50
STP Correction Factor: 1.1462

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
15	0	7	7	---	---	---	---
93	90	99	9	9.8	---	---	---
167	175	186	11	6.1	---	---	---
355	390	397	7	1.7	---	---	---
Mean Absolute Errors:			8	5.87		NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 402 ppb is 1.4 %

Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9981	NA
Intercept, b:	8.612	NA
Corr.,r:	0.9999	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: LUDLOW Date: 9-15-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 1600 PST Make: DASIBI SN#: 1039
End: 1739 PST Model: 1003 AH Range: 0-500 ppb

Span#: 55.550 Samp.Freq.(40-48 kHz): 41.275
Offset#: 4 (or 5) Cont.Freq.(21-28 kHz): 23.959

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 45.319
Slope: 1.0025 Cont.Freq.(21-28 kHz): 22.862
Inter.: -0.0880 Cell Temperature, C: 40.50
Bar. Pressure, mmHg: 707.70
STP Correction Factor: 1.0721

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
13	0	-3	-3	---	---	---	---
99	92	90	-2	-2.6	---	---	---
180	179	173	-6	-3.1	---	---	---
394	410	399	-11	-2.7	---	---	---
Mean Absolute Errors:		5	2.80			NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 427 ppb is 1.9 %

Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9778	NA
Intercept, b:	-1.623	NA
Corr.,r:	1.0000	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: PALMDALE Date: 9-14-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 1902 PST Make: DASIBI SN#: 1813
End: 2030 PST Model: 1003 AH Range: 0-500 ppb

Span#: 57.850 Samp.Freq.(40-48 kHz): 40.098
Offset#: 4 Cont.Freq.(21-28 kHz): 21.607

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 46.099
Slope: 1.0025 Cont.Freq.(21-28 kHz): 23.170
Inter.: -0.0880 Cell Temperature, C: 43.50
Bar. Pressure, mmHg: 684.90
STP Correction Factor: 1.1184

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
13	0	6	6	---	---	---	---
99	96	99	3	2.7	---	---	---
178	185	187	2	0.8	---	---	---
374	405	406	1	0.1	---	---	---
Mean Absolute Errors:			3	1.20		NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 411 ppb is 1.7 %

Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9885	NA
Intercept, b:	4.593	NA
Corr.,r:	1.0000	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: QUARTZITE Date: 9-13-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 1240 PST Make: DASIBI SN#: 2052
End: 1415 PST Model: 1003 AH Range: 0-500 ppb

Span#: 61.550 Samp.Freq.(40-48 kHz): 46.867
Offset#: 4 Cont.Freq.(21-28 kHz): 24.198

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 45.713
Slope: 1.0025 Cont.Freq.(21-28 kHz): 22.698
Inter.: -0.0880 Cell Temperature, C: 46.00
Bar. Pressure, mmHg: 648.00
STP Correction Factor: 1.1914

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
14	0	5	5	---	---	---	---
82	81	84	3	3.6	---	---	---
169	185	186	1	0.3	---	---	---
349	401	396	-5	-1.2	---	---	---
Mean Absolute Errors:			3	1.70		NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 406 ppb is 0.4 %

Station does not have chart recorder as backup system.

Station was very noisy on arrival. From 0 to 4000 ppB. Cleaned optics and removed, inspected and replaced boards. Calibration is as-left. As found was too erratic to test.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	0.9759	NA
Intercept, b:	4.790	NA
Corr.,r:	1.0000	NA

Results are: As Found (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

OZONE MULTIPOINT CALIBRATION REPORT

Station: SHADOW MTN Date: 09-17-95 Tech: R.HILLESTAD

**** STATION OZONE ANALYZER ****

Begin: 0901 PST Make: DASIBI SN#: 1836
End: 1056 PST Model: 1003 AH Range: 0-500 ppb

Span#: 60.550 Samp.Freq.(40-48 kHz): 43.611
Offset#: 4 Cont.Freq.(21-28 kHz): 22.825

**** OZONE TRANSFER STANDARD ****

Make: DASIBI Model: 1003 PC SN#: 1871
Range: 0-500 ppb Span#: 52.550 Offset#: 4

Cert. Date: 8-23-95 Samp.Freq.(40-48 kHz): 45.287
Slope: 1.0025 Cont.Freq.(21-28 kHz): 22.584
Inter.: -0.0880 Cell Temperature, C: 45.50
Bar. Pressure, mmHg: 656.60
STP Correction Factor: 1.1740

Avg. T.Std Dsply ppb	Audit T.Std. Value ppb	PRIMARY DAS ppb	PRIMARY Error ppb	PRIMARY Error %	BACKUP DAS ppb	BACKUP Error ppb	BACKUP Error %
17	0	5	5	---	---	---	---
100	97	105	8	8.5	---	---	---
175	185	203	18	9.6	---	---	---
351	392	401	9	2.4	---	---	---
Mean Absolute Errors:			10	6.83		NA	NA

LIMITS: m = >1 +/-0.1, and b = >+/-2% FS, and r = <0.9950

COMMENT: O3 line loss at 385 ppb is 2.0 %

Station does not have chart recorder as backup system.

	LINEAR REGRESSIONS Primary	Backup
Slope, m:	1.0107	NA
Intercept, b:	8.392	NA
Corr.,r:	0.9996	NA

Results are: As Found X (Mark X) As Left X

	Primary	Backup
Pass/Fail:	PASS	NA

APPENDIX C

Data Quality Assurance (QA) Forms

SURFACE MEASUREMENTS QA FORM

Date: 11/20/95

Site ID: Baldy Mesa

Reviewer: DL

SepTember

BASEP95

FROM			TO					
Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/8	251	0501	9/8	251	0601	5	SC -998	Z/P/S Check
9/14	257	1401	9/14	257	1524	5	CA -990	multipoint
9/14	257	1530	1600			5		recompute average (1600)
9/21	264	0901	9/21	264	1001	5	SC -998	Z/P/S check
9/28	271	0901	9/28	271	1101	5	PA -996	Internal audit
9/28	271	0745	9/28	271	0901	6-10	PA-996	" "

FORM GM 1

T&B Systems Inc

SURFACE MEASUREMENTS QA FORM

Date: 11/20/95

Site ID: Boron

Reviewer: DEL

BOSEPP5

SEPTEMBER

FROM			TO					
Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/9	252	1601	9/9	252	1710	5	SC -998	2/P/S check
9/17	260	1501	9/17	260	1601	5	CA -990	multipoint
9/21	264	1901	9/21	264	2001	5	SC -998	2/P/S check
9/29	272	0746	9/29	272	0901	5	PA-996	Audit + 2/P/S check
9/29	272	0706		272	0742	5		compute new average
9/29	272	0620	9/29	272	0801	6-10	PA-996	Total Audit
9/9	252	1712	1800			5		recompute average
	264	1800 -	1900 are	ques	Tionable	checked - no	reason	to discount

FORM GM 1

T&B Systems Inc

SURFACE MEASUREMENTS QA FORM

Date: 11/21/95

Site ID: Catalina

Reviewer: DEL

SEPTEMBER

FROM			TO					
Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/6	249	1242	9/6	249	1501	5	SC -998	Z/P/S check
9/6	249	1206 →	1236			5		recompute average
9/11	254	1201	9/11	254	1318	5	SC	Z/P/S check
9/11	254	1324 →	1400			5		recompute average
9/20	263	1036	9/20	263	1230	5	CA -990	multipoint calibration
9/20	263	1006 →	1030			5		recompute average
9/20	263	1236 →	1300			5		recompute average
9/25	268	1118	9/25	268	1301	5	SC	Z/P/S check

FORMGM1

T&BS, [illegible]

SURFACE MEASUREMENTS QA FORM

Date: 11/20/95

Site ID: Flash TT Mtn.

Reviewer: DGL

September

FROM TO

Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/7	250	2201	9/7	250	2301	5	SC -998	Z/P/S Check
9/14	258	0827	9/14	258	1013	5	CA -990	Multipoint
9/14	258	1018	-1100			5		Compute new average
9/22	265	0801	9/22	265	0901	5	SC -998	Z/P/S Check

FORM GM 1

T&B Systems Inc

SURFACE MEASUREMENTS QA FORM

Date: 11/20/95

Site ID: Ludlow

Reviewer: D.L

September

FROM TO

	Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
✓	9/7 ✓	250	1701	9/7	250	1801	5	SC -992	Z/P/S Check
✓	9/15 ✓	258	1601	9/15	258	1801	5	CA -990	multipoint
✓	9/22 ✓	265	1201	9/22	265	1301	5	SC -998	Z/P/S check
✓	9/30	273	1450	9/30	273	1604	5	PA -996	Internal audit & Z/P/S
	9/30	273	1406	1448			5		USE To compute new average
✓	9/30	273	1415	9/30		1601	6-10	PA -996	Internal audit
✓	9/16	259	0601	9/16	259	0801	5	IM -992	Noisy
✓	9/16	259	1501	9/16	259	1901	5	SF -997	Power Out - Sec Storm Temp
✓	9/18	261	1001	9/18	261	1201	5	SF -997	" "
✓	9/18	261	2224	9/18	262	0001	5	SF -997	" "
✓	9/23	266	1401	9/23	266	1701	5	SF -997	" "

FORM GM 1

T&B Systems Inc

SURFACE MEASUREMENTS QA FORM

Date: 11/21/95

Site ID: Palmdale

Reviewer: DEL

September

FROM			TO					
Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/1	244	1401	9/1	244	1501	5	SC-998	Z/P/S Check
9/8	251	1501	9/8	251	1601	5	SC-998	Z/P/S Check
9/14	257	1754	9/14	257	2101	5	CA-990	multi point calibration
9/21	264	1401	9/21	264	1501	5	SC-998	Z/P/S check
9/29	272	1254	9/29	272	1401	5	PA-996	Intranal audit, Z/P/S
9/29	272	1201 →	1248			5		Compute new average
9/29	272	1101	9/29	272	1201	6	PA-996	Intranal audit
9/29	272	1130	9/29	272	1301	7-10	PA-996	" "
9/14	257	1706 →	1748			5		compute new average

FORM GM 1

T & B Systems Inc

SURFACE MEASUREMENTS QA FORM

Date: 11/21/95

Site ID: QUARTZITE MTN

Reviewer: DEL

QASEP95

September

FROM TO

Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/1	244	0801	9/1	244	0901	5	SC-998	Z/P/S check
9/8	251	1001	9/8	251	1101	5	SC-998	Z/P/S check
Remove spikes in Ozone Data on Julian Day 251 - 255 (See attached list). Recompute hourly averages when 5 or more valid 6-min average values are present.								
9/13	256	0000	9/13	256	0312	5	EM-992	Ozone spiking
9/13	256	0436	9/13	256	1201	5	EM-992	Ozone spiking
9/13	256	1206	9/13	256	1418	5	CA-990	multi-point calibration
9/24	267	1101	9/24	267	1201	5	SC-998	Z/P/S check
9/30	273	0702	9/30	273	0901	5	PA-996	Intercal audit
9/30	273	0601	9/30	273	0701	6	PA-996	" "
9/30	273	0701	9/30	273	0901	7-10	PA-996	" "
9/13	256	318 → 0400				5		recompute average
9/13	256	0406 → 0430				5		recompute average

FORM GM 1

T & B Systems Inc

Q4SEP95

5 -992

	1	2	3	4	5	6	7	8	9
1	Remove Spikes			QUARTZITE - SEPTEMBER					
2	JD	Time		JD	Time			JD	Time
3	251	1348		253	0524 - 0536			255	0000 - 0018
4		1406			0730 - 0748				0048
5		1448 - 1500			1101 - 1301				0100 - 0106
6		1524 - 1530			1454 - 1506				0200
7		1542 - 1548			1536				0724 - 0736
8		1630 - 36			1712 - 1718				0800 - 0818
9		1648			1818				1506 - 1606
10		1712 - 1742			1836				1836 - 1848
11		1830			2001 - 2354				2100 - 2124
12		1854 - 1900		254	0118 - 0301				2230 - 2359
13	252	0230 - 0242			0330 - 0342				
14		0300 - 0506			0542 - 0548			256	0000 - 0312
15		0542 - 0548			0618				0436 - 1201
16		0618			0748 - 0901				
17		0748 - 0754			1042 - 1048				
18		0812 - 0824			1110 - 1201				
19		0842			1236 - 1242				
20		0942			1312				
21		1024 - 1042			1324				
22		1118			1348 - 1400				
23		1142 - 1148			1536 - 1606				
24		1206 - 1212			1648				
25		1318			1754 - 1848				
26		1330 - 1336			2254 - 2359				
27		1436 - 1442							
28		1506 - 1601							
29		1648							
30		1706 - 1801							
31		1818 - ~~1824~~ 1918							

SURFACE MEASUREMENTS QA FORM

Date: 11/21/95

Site ID: Shadow Mtn

Reviewer: DEL

September

FROM			TO					
Month/Day	Julian Date	Hour	Month/Day	Julian Date	Hour	Channel(s)	Flag	Reason
9/9	252	2101	9/9	252	2201	5	SC-998	Z/P/S Check
9/17	260	0901	9/17	260	1101	5	CA-990	multi point calibration
9/22	265	1901	9/27	265	2001	5	SC-998	Z/P/S Check
9/28	271	1301	9/28	271	1520	5	PA-996	Internal audit
9/28	271	1524 →	1600			5		recompute averages
9/30	273	1001	9/30	273	1101	6-10	PA-996	met audit

FORM GM 1

T & B Systems Inc

APPENDIX D

Internal Quality Assurance Audit Reports

1

HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BAL
Location: BALDY MESA, CA

Audit Date: 29 SEP 1995
Start Time: 0730 PST
End Time: 0748 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20409
Range: 0-50 mps **Measurement Height:** 10 meters **Last Calibrated:** 3 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.90	---	---	---
3,000	14.7	14.6	-0.1	-0.70	---	---	---
7,000	34.3	34.2	-0.1	-0.30	---	---	---
Mean Absolute Errors			0.06	0.63		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Instruments mounted on guyed 10-meter tower. Sensors have good exposure with no obstacles or features to affect the data.

- *AUDIT LINEAR REGRESSION CURVE RESULTS*

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9964	0.004	1.0000	**Backup DAS**	NA	NA	NA

- *AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS*

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BAL
Location: BALDY MESA, CA

Audit Date: 29 SEP 1995
Start Time: 0805 PST
End Time: 0815 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20409
Range: 0-360 deg. **Measurement Height:** 10 meters **Last Calibrated:** 3 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 13.9 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 0.00 degrees

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	360	358	-2	---	---
East	90	90	0	---	---
South	180	178	-2	---	---
West	270	269	-1	---	---
North	360	359	-1	---	---
West	270	269	-1	---	---
South	180	178	-2	---	---
East	90	90	0	---	---
Mean Absolute Errors			1.1		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Instruments mounted on guyed 10-meter tower. Sensors have good exposure with no obstacles or features to affect the data.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9961	-0.250	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

3

TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BAL
Location: BALDY MESA, CA

Audit Date: 29 SEP 1995
Start Time: 0830 PST
End Time: 0850 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 8.0 meters **Last Calibrated:** 3 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	2.5	2.5	0.0	---	---
Cool	18.7	18.7	0.0	---	---
Hot	36.5	36.5	0.0	---	---
Mean Absolute Errors			0.00		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary DAS	Slope	Intercept	Cor.Coef.	Backup DAS	Slope	Intercept	Cor.Coef.
	1.0000	0.000	1.0000		NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

4

OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BAL
Location: BALDY MESA, CA

Audit Date: 29 SEP 1995
Start Time: 0900 PST
End Time: 1015 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- *STATION OZONE ANALYZER IDENTIFICATION and APPLICATION*

Make: DASIBI
Model: 1003 AH
SN: 3150
Range: 0-500 ppb
Measurement Height: 3.0 meters
Last Calibrated: 14 SEP 1995
Span #: 60.550
Samp. Freq. (40-48 kHz): 43.861
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 21.703

- *AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION*

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 45.300
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 28.337
Trans.Std. Inter.: 0.5020
Cell Temp, C: 33.30
Bar. Press., mmHg: 654.00

PART B: AUDIT TEST RESULTS

- *KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE*

Station STP Correction Factor: 1.1335

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
12	0.0	-3	-3	NA	---	---	---
96	95	91	-4	-4.2	---	---	---
183	193	187	-6	-3.1	---	---	---
414	452	442	-10	-2.2	---	---	---
Mean Absolute Errors ⇨			5.8	3.17		NA	NA

- *AUDITOR COMMENTS or OBSERVATIONS*

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Sample inlet is glass with approximately 3 meters of ¼-inch Teflon tubing leading to ozone analyzer. Inlet extends 1 meter above shelter roof.

- *AUDIT LINEAR REGRESSION CURVE RESULTS*

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	0.9841	-2.816	1.0000	**Backup DAS ⇨**	NA	NA	NA

- *AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS*

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

1

HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BOR
Location: BORON, CA

Audit Date: 28 SEP 1995
Start Time: 0755 PST
End Time: 0810 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20518
Range: 0-50 mps **Measurement Height:** 10 meters **Last Calibrated:** 31 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.90	---	---	---
3,000	14.7	14.6	-0.1	-0.70	---	---	---
7,000	34.3	34.2	-0.1	-0.30	---	---	---
Mean Absolute Errors			0.06	0.63		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sensor mounted on short mast extending above existing scaffolding used to dry fire hoses at fire station Sensors have good exposure with no obstructions to affect data.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9964	0.004	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BOR
Location: BORON, CA

Audit Date: 28 SEP 1995
Start Time: 0815 PST
End Time: 0840 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20518
Range: 0-360 deg. **Measurement Height:** 10 meters **Last Calibrated:** 31 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 14.10 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 0.00 degrees

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	2	2	---	---
East	90	92	2	---	---
South	180	180	0	---	---
West	270	272	2	---	---
North	0	2	2	---	---
West	270	271	1	---	---
South	180	181	1	---	---
East	90	92	2	---	---
Mean Absolute Errors			1.5		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Sensor mounted on short mast extending above existing scaffolding used to dry fire hoses at fire station Sensors have good exposure with no obstructions to affect data.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary DAS	Slope	Intercept	Cor.Coef.	Backup DAS	Slope	Intercept	Cor.Coef.
	0.9967	1.950	1.0000		NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

3

TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BOR
Location: BORON, CA

Audit Date: 28 SEP 1995
Start Time: 0715 PST
End Time: 0750 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 3.5 meters **Last Calibrated:** 31 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	0.7	0.7	0.0	---	---
Cool	18.6	18.6	0.0	---	---
Hot	46.1	46.0	-0.1	---	---
Mean Absolute Errors			0.03		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sensor mounted in naturally aspirated radiation shield.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9977	0.017	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

4

OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: BOR
Location: BORON, CA

Audit Date: 28 SEP 1995
Start Time: 0845 PST
End Time: 0925 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Model: 1003 AH
SN: 1805
Range: 0-500 ppb
Measurement Height: 3.8 meters
Last Calibrated: 17 SEP 1995
Span #: 57.550
Samp. Freq. (40-48 kHz): 45.139
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 24.775

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 43.645
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 28.087
Trans.Std. Inter.: 0.5020
Cell Temp, C: 35.60
Bar. Press., mmHg: 695.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 1.0746

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	-6	-6	NA	---	---	---
104	100	93	-7	-7.0	---	---	---
193	194	180	-14	-7.2	---	---	---
425	442	426	-16	-3.6	---	---	---
Mean Absolute Errors			10.8	5.93		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS.
Independent backup system not part of station.
Analyzer's overall response is approximately 6% low but still within audit limits.
Sample line consists of glass inlet with approximately 3 meters of ¼ Teflon tubing to ozone analyzer.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9761	-6.344	0.9999	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

1

HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: CAT
Location: CATALINA, CA

Audit Date: 4 OCT 1995
Start Time: 1143 PST
End Time: 1203 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20521
Range: 0-50 mps **Measurement Height:** 10 meters **Last Calibrated:** 8 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.00	---	---	---
3,000	14.7	14.6	-0.1	-0.70	---	---	---
7,000	34.3	34.2	-0.1	-0.30	---	---	---
Mean Absolute Errors ⇨			0.05	0.33		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sensor mounted on braced mast extending three meters above roof of 4-story air traffic control tower.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	0.9968	-0.008	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: CAT
Location: CATALINA, CA

Audit Date: 4 OCT 1995
Start Time: 1206 PST
End Time: 1220 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20521
Range: 0-360 deg. **Measurement Height:** 10 meters **Last Calibrated:** 8 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 13.8 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 2.00 degrees east

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	2	2	---	---
East	90	91	1	---	---
South	180	180	0	---	---
West	270	268	-2	---	---
North	0	1	1	---	---
West	270	268	-2	---	---
South	180	180	0	---	---
East	90	91	1	---	---
Mean Absolute Errors ⇨		1.1		NA	

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS.
Independent backup system not part of station.
Sensor mounted on braced mast extending above roof of 4-story air traffic control tower.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
	DAS ⇨	0.9872	1.850	1.0000	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity.	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

3

TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: CAT
Location: CATALINA, CA

Audit Date: 4 OCT 1995
Start Time: 1143 PDT
End Time: 1200 PDT

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 10 meters **Last Calibrated:** 8 JUN 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	0.6	0.5	-0.1	---	---
Cool	23.5	23.4	-0.1	---	---
Hot	46.3	46.2	-0.1	---	---
Mean Absolute Errors ⇨			0.10		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Temperature probe installed in naturally aspirated radiation shield mounted on mast. No flow restricitons present.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	1.0000	-0.100	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

4

OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: CAT
Location: CATALINA, CA

Audit Date: 4 OCT 1995
Start Time: 1330 PDT
End Time: 1410 PDT

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Model: 1003 AH
SN: 2509
Range: 0-500 ppb
Measurement Height: 10 meters
Last Calibrated: 20 SEP 1995
Span #: 55.550
Samp. Freq. (40-48 kHz): 39.945
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 22.079

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 43.558
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 27.289
Trans.Std. Inter.: 0.5020
Cell Temp, C: 37.25
Bar. Press., mmHg: 756.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 0.9932

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	3	3	NA	---	---	---
90	78	84	6	7.7	---	---	---
194	181	185	4	2.2	---	---	---
416	399	402	3	0.8	---	---	---
	Mean Absolute Errors ⇨		4.0	3.57		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sample inlet is glass with Teflon tubing leading to ozone analyzer.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	0.9973	4.445	1.0000	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±1% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

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HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: FLA
Location: FLASH MT., CA

Audit Date: 1 OCT 1995
Start Time: 0825 PST
End Time: 0850 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 19672
Range: 0-50 mps **Measurement Height:** 10.0 meters **Last Calibrated:** 27 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.10 grams, or 0.16 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.00	---	---	---
3,000	14.7	14.5	-0.2	-1.36	---	---	---
7,000	34.3	33.9	-0.4	-1.17	---	---	---
Mean Absolute Errors ⇨			0.15	0.84		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

WS/WD sensors are mounted on a boom at the 10-meter level of an existing microwave tower. The sensors extend approximately 3 meters away from the tower and have adequate exposure to the prevailing winds. Mimimal tower effects may influence winds from the direction of the tower (south).

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	0.9877	0.011	1.0000	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: FLA
Location: FLASH MT., CA

Audit Date: 1 OCT 1995
Start Time: 0900 PST
End Time: 0925 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- *STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION*

Make: R.M.YOUNG **Model:** 05305 **SN:** 19672
Range: 0-360 deg. **Measurement Height:** 10.0 meters **Last Calibrated:** 27 MAY 1995

- *AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION*

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- *KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE*

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 13.9 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 2.00 degrees west

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	2	2	---	---
East	90	90	0	---	---
South	180	181	1	---	---
West	270	267	-3	---	---
North	0	1	1	---	---
West	270	268	-2	---	---
South	180	181	1	---	---
East	90	90	0	---	---
Mean Absolute Errors ⇨		1.3			NA

- *AUDITOR COMMENTS or OBSERVATIONS*

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS.
Independent backup system not part of station.
Refer to WS audit report for description of sensor siting conditions.

- *AUDIT LINEAR REGRESSION CURVE RESULTS*

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	0.9878	1.650	1.0000	**DAS ⇨**	NA	NA	NA

- *AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS*

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

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TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: FLA
Location: FLASH MT., CA

Audit Date: 1 OCT 1995
Start Time: 0715 PST
End Time: 0745 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 3.5 meters **Last Calibrated:** 27 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	0.6	0.5	-0.1	---	---
Cool	16.7	16.6	-0.1	---	---
Hot	44.7	44.6	-0.1	---	---
Mean Absolute Errors ⇨			0.10		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Temperature probe is mounted in naturally aspirated radiation shield.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	1.0000	-0.100	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

4

OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: FLA
Location: FLASH MT., CA

Audit Date: 1 OCT 1995
Start Time: 0830 PST
End Time: 0940 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Model: 1003 AH
SN: 3070
Range: 0-500 ppb
Measurement Height: 4.0 meters
Last Calibrated: 15 SEP 1995
Span #: 59.450
Samp. Freq. (40-48 kHz): 41.031
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 22.780

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 43.521
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 27.904
Trans.Std. Inter.: 0.5020
Cell Temp, C: 33.76
Bar. Press., mmHg: 675.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 1.0999

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	9	9	NA	---	---	---
93	90	93	3	3.3	---	---	---
180	185	179	-6	-3.2	---	---	---
421	448	436	-12	-2.7	---	---	---
Mean Absolute Errors ⇨			7.5	3.07		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Sample inlet is glass with approximately 3 meters of ¼-inch Teflon tubing leading to the ozone analyzer.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	0.9543	6.756	0.9999	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

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HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: LUD
Location: LUDLOW, CA

Audit Date: 30 SEP 1995
Start Time: NA
End Time: NA

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 02523
Range: 0-50 mps **Measurement Height:** 9.0 meters **Last Calibrated:** 25 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: --- grams, or NA mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
---	---	---	---	NA	---	---	NA
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---
Mean Absolute Errors ⇨			NA	NA		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Wind speed/wind direction sensor is mounted on boom extending out from an existing power pole about 9 meters above ground level. The pole has climbing pegs, however adequate climbing safety equipment was not available at the time of the audit tests. An attempt was made to climb the pole and retrieve the WS/WD sensor to conduct audit tests, but it was deemed unsafe without proper climbing safety equipment, consequently audit tests were not performed on the WS/WD sensor.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	NA	NA	NA	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	NA	NA
Wind speed input >5mps	≤ ±5% of input speed.	NA	NA
Starting torque threshold	≤ 0.5 mps.	NA	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: LUD
Location: LUDLOW, CA

Audit Date: 30 SEP 1995
Start Time: NA
End Time: NA

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 02523
Range: 0-360 deg. **Measurement Height:** 9.0 meters **Last Calibrated:** 25 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: --- grams, or NA mps.
Local Magnetic Declination: 13.7 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 1.00 degrees east

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Direction	Degrees	Degrees	Degrees	Degrees	Degrees
North	0	---	---	---	---
East	90	---	---	---	---
South	180	---	---	---	---
West	270	---	---	---	---
North	0	---	---	---	---
West	270	---	---	---	---
South	180	---	---	---	---
East	90	---	---	---	---
Mean Absolute Errors ⇨			NA		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

WD sensor could not be audit tested. Refer to wind speed audit report for explanation.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	NA	NA	NA	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	NA	NA
Linearity	≤ 3 degrees mean absolute error.	NA	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	NA	

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TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: LUD
Location: LUDLOW, CA

Audit Date: 30 SEP 1995
Start Time: 1415 PST
End Time: 1432 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 3.5 meters **Last Calibrated:** 25 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	3.3	3.3	0.0	---	---
Cool	25.7	25.6	-0.1	---	---
Hot	39.9	39.8	-0.1	---	---
Mean Absolute Errors ⇨			0.07		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Temperature probe is mounted in a naturally aspirated radiation shield mounted on a boom extending 2 meters out from the station shelter on the north side of the shelter.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	0.9971	0.000	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

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OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: LUD
Location: LUDLOW, CA

Audit Date: 30 SEP 1995
Start Time: 1455 PST
End Time: 1529 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Model: 1003 AH
SN: 3683
Range: 0-500 ppb
Measurement Height: 3.5 meters
Last Calibrated: 15 SEP 1995
Span #: 55.550
Samp. Freq. (40-48 kHz): 41.703
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 23.843

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 43.518
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 27.696
Trans.Std. Inter.: 0.5020
Cell Temp, C: 39.50
Bar. Press., mmHg: 712.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 1.0622

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	0	0	NA	---	---	---
94	88	82	-6	-6.8	---	---	---
185	184	174	-10	-5.4	---	---	---
429	441	420	-21	-4.8	---	---	---
Mean Absolute Errors ⇨			9.3	5.67		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sample inlet is glass attached to approximately 6 meters of ¼-inch Teflon tubing. Inlet extends one meter above roof of shelter. No obstructions of obstacles present.

Analyzer is operating approximately 6% low but is still within audit limits.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	Backup	Slope	Intercept	Cor.Coef.
DAS ⇨	0.9538	-1.017	1.0000	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

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HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: PAL
Location: PALMDALE, CA

Audit Date: 29 SEP 1995
Start Time: 1230 PST
End Time: 1250 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20157
Range: 0-50 mps **Measurement Height:** 10 meters **Last Calibrated:** 29 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.90	---	---	---
3,000	14.7	14.6	-0.1	-0.70	---	---	---
7,000	34.3	34.3	0.0	0.00	---	---	---
Mean Absolute Errors			0.03	0.53		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sensor mounted on boom extending 1.5 meters out from existing radio/TV tower at approximately 10-meter level. No obstructions or features present to affect wind flow patterns.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9994	-0.009	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: PAL
Location: PALMDALE, CA

Audit Date: 29 SEP 1995
Start Time: 1300 PST
End Time: 1340 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20157
Range: 0-360 deg. **Measurement Height:** 10 meters **Last Calibrated:** 29 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 14.1 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 3.00 degrees east

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	2	2	---	---
East	90	93	3	---	---
South	180	181	1	---	---
West	270	267	-3	---	---
North	0	3	3	---	---
West	270	268	-2	---	---
South	180	181	1	---	---
East	90	92	2	---	---
Mean Absolute Errors			2.1		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Sensor mounted on existing radio/TV tower at approximately 10-meter level. No wind flow obstructions present
North alignment was at audit limit of ±3 degrees error.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9817	3.350	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

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TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: PAL
Location: PALMDALE, CA

Audit Date: 29 SEP 1995
Start Time: 1200 PST
End Time: 1220 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 7.5 meters **Last Calibrated:** 29 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Bath	Deg. C	DAS Deg. C	Error Deg. C	DAS Deg. C	Error Deg. C
Ice	0.7	0.6	-0.1	---	---
Cool	23.5	23.4	-0.1	---	---
Hot	43.2	43.1	-0.1	---	---
Mean Absolute Errors			0.10		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Temperature probe mounted in natrually aspirated radiation shield.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	1.0000	-0.100	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

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OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: PAL
Location: PALMDALE, CA

Audit Date: 29 SEP 1995
Start Time: 1256 PST
End Time: 1400 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- *STATION OZONE ANALYZER IDENTIFICATION and APPLICATION*

Make: DASIBI
Model: 1003 AH
SN: 3297
Range: 0-500 ppb
Measurement Height: 4.0 meters
Last Calibrated: 14 SEP 1995
Span #: 57.850
Samp. Freq. (40-48 kHz): 47.484
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 24.618

- *AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION*

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 43.532
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 27.814
Trans.Std. Inter.: 0.5020
Cell Temp, C: 40.30
Bar. Press., mmHg: 687.00

PART B: AUDIT TEST RESULTS

- *KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE*

Station STP Correction Factor: 1.1037

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	6	6	NA	---	---	---
91	88	91	3	3.4	---	---	---
173	178	180	2	1.1	---	---	---
401	427	424	-3	-0.7	---	---	---
Mean Absolute Errors			3.5	1.73		NA	NA

- *AUDITOR COMMENTS or OBSERVATIONS*

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Sample inlet consists of glass inlet with approximately 4 meters of ¼-inch Teflon tubing. Inlet extends approximately 1.5 meters above roof-line.

- *AUDIT LINEAR REGRESSION CURVE RESULTS*

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9799	5.487	1.0000	**Backup DAS**	NA	NA	NA

- *AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS*

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

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HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: QUA
Location: QUARTZITE MT., CA

Audit Date: 30 SEP 1995
Start Time: 0725 PST
End Time: 0755 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20408
Range: 0-50 mps **Measurement Height:** 10 meters **Last Calibrated:** 26 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.00	---	---	---
3,000	14.7	14.5	-0.2	-1.36	---	---	---
7,000	34.3	33.9	-0.4	-1.17	---	---	---
Mean Absolute Errors			0.15	0.84		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Sensor mounted at top of existing microwave tower. Open exposure with no obstacles nearby.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary DAS	Slope	Intercept	Cor.Coef.	Backup DAS	Slope	Intercept	Cor.Coef.
	0.9877	0.011	1.0000		NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: QUA
Location: QUARTZITE MT., CA

Audit Date: 30 SEP 1995
Start Time: 0800 PST
End Time: 0815 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20408
Range: 0-360 deg. **Measurement Height:** 10 meters **Last Calibrated:** 26 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 13.9 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 0.00 degrees

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	0	0	---	---
East	90	89	-1	---	---
South	180	180	0	---	---
West	270	270	0	---	---
North	0	2	2	---	---
West	270	271	1	---	---
South	180	180	0	---	---
East	90	90	0	---	---
Mean Absolute Errors			0.5		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS.
Independent backup system not part of station.
Sensor mounted at top of existing microwave tower.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9989	0.400	1.0000	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

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TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: QUA
Location: QUARTZITE MT., CA

Audit Date: 30 SEP 1995
Start Time: 0656 PST
End Time: 0715 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 4.0 meters **Last Calibrated:** 26 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	0.7	0.6	-0.1	---	---
Cool	15.2	15.2	0.0	---	---
Hot	44.9	45.0	0.1	---	---
Mean Absolute Errors			0.07		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Noted fluctuations (noise) in probe response probably caused by radio signal interference.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary DAS	Slope	Intercept	Cor.Coef.	Backup DAS	Slope	Intercept	Cor.Coef.
	1.0044	-0.088	1.0000		NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

4

OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: QUA
Location: QUARTZITE MT., CA

Audit Date: 30 SEP 1995
Start Time: 0705 PST
End Time: 0810 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R. HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Range: 0-500 ppb
Span #: 61.550
Offset #: 4

Model: 1003 AH
Measurement Height: 4.5 meters
Samp. Freq. (40-48 kHz): 45.524
Cntrl. Freq. (21-28 kHz): 24.024

SN: 2052
Last Calibrated: 13 SEP 1995
Flow Rate: 2.0 lpm

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Make: DASIBI
Span #: 52.550
Offset #: 4

Model: 1003-PC
Samp. Freq. (40-48 kHz): 43.548
Cntrl. Freq. (21-28 kHz): 27.770
Cell Temp, C: 40.90

Certification Date: 9/4/95
SN: 5027
Trans.Std. Slope: 0.9916
Trans.Std. Inter.: 0.5020
Bar. Press., mmHg: 650.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 1.1687

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
10	0.0	7	7	NA	---	---	---
94	98	93	-5	-5.1	---	---	---
143	155	154	-1	-0.6	---	---	---
381	430	416	-14	-3.3	---	---	---
Mean Absolute Errors			6.8	3.00		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS.
Independent backup system not part of station.
Glass sample inlet with approximately 5 meters of ¼-inch Teflon tubing running to ozone analyzer.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS	0.9564	4.198	0.9998	**Backup DAS**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

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HORIZONTAL WIND SPEED SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: SHA
Location: SHADOW MT., CA

Audit Date: 30 SEP 1995
Start Time: 1055 PST
End Time: 1112 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION WIND SPEED SENSOR IDENTIFICATION and APPLICATION***

Make: R.M.YOUNG **Model:** 05305 **SN:** 20404
Range: 0-50 mps **Measurement Height:** 9.9 meters **Last Calibrated:** 28 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Anemometer drive motor (100-10,000 rpm)
Make: R.M.YOUNG **Model:** 18801 **SN:** NA

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Sensor Starting Torque Threshold: 0.20 grams, or 0.23 mps.

AUDIT INPUTS		PRIMARY DAS			BACKUP SYSTEM		
RPM	mps	DAS mps	Error mps	Error %	DAS mps	Error mps	Error %
0.0	0.0	0.0	0.0	NA	---	---	NA
700	3.4	3.4	0.0	0.00	---	---	---
3,000	14.7	14.6	-0.1	-0.68	---	---	---
7,000	34.3	34.2	-0.1	-0.29	---	---	---
Mean Absolute Errors ⇨		0.05	0.32			NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Wind speed/wind direction sensor is mounted on a pivoting mast that is attached to an existing microwave tower. The mast extends above the microwave tower approximately 4.5 meters and is exposed to wind flows from all directions.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	0.9968	-0.008	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Wind speed input ≤5mps	≤ ±0.2 mps error.	PASS	NA
Wind speed input >5mps	≤ ±5% of input speed.	PASS	NA
Starting torque threshold	≤ 0.5 mps.	PASS	

2 HORIZONTAL WIND DIRECTION SENSOR AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: SHA
Location: SHADOW MT., CA

Audit Date: 30 SEP 1995
Start Time: 1117 PST
End Time: 1125 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- *STATION WIND DIRECTION SENSOR IDENTIFICATION and APPLICATION*

Make: R.M.YOUNG **Model:** 05305 **SN:** 20404
Range: 0-360 deg. **Measurement Height:** 9.9 meters **Last Calibrated:** 28 MAY 1995

- *AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION*

Item: Precision compass **Certification Date:** JULY 1993
Make: BRUNTON **Model:** POCKET TRANSIT **SN:** 024338

PART B: AUDIT TEST RESULTS

- *KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE*

Sensor Starting Torque Threshold: 6.00 grams, or 0.40 mps.
Local Magnetic Declination: 14.0 degrees east (GEOMAG 6/95)
Sensor True North Alignment Error: 1.00 degrees

AUDIT INPUTS		PRIMARY DAS		BACKUP SYSTEM	
Direction	Degrees	DAS Degrees	Error Degrees	DAS Degrees	Error Degrees
North	0	2	2	---	---
East	90	89	-1	---	---
South	180	177	-3	---	---
West	270	268	-2	---	---
North	0	2	2	---	---
West	270	268	-2	---	---
South	180	178	-2	---	---
East	90	90	0	---	---
Mean Absolute Errors ⇨			1.8		NA

- *AUDITOR COMMENTS or OBSERVATIONS*

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.
Wind speed/wind direction sensor is mounted on a pivoting mast that is attached to an existing microwave tower. The mast extends above the microwave tower approx. 4.5 meters and is exposed to wind flows from all directions.

- *AUDIT LINEAR REGRESSION CURVE RESULTS*

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	0.9844	1.350	1.0000	**Backup DAS ⇨**	NA	NA	NA

- *AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS*

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±5 degrees error per audit direction input.	PASS	NA
Linearity	≤ 3 degrees mean absolute error.	PASS	NA
Alignment to true north	≤ ±3 degrees error from true north.	PASS	
Starting torque threshold	≤ 0.5 mps.	PASS	

3

TEMPERATURE PROBE AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: SHA
Location: SHADOW MT., CA

Audit Date: 30 SEP 1995
Start Time: 1155 PST
End Time: 1220 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION TEMPERATURE PROBE IDENTIFICATION and APPLICATION***

Make: CAMPBELL SCIENTIFIC **Model:** 107 **SN:** NA
Range: -30 to +50 C **Measurement Height:** 8.4 meters **Last Calibrated:** 28 MAY 1995

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Mercury in glass thermometer **Certification Date:** MAR 1995
Make: VWR **Model:** -1 to +51 C **SN:** 92-14463

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

(Note: Water baths are constantly agitated to assure uniform temperature within Dewar flask.)

		PRIMARY DAS		BACKUP SYSTEM	
AUDIT INPUTS		DAS	Error	DAS	Error
Bath	Deg. C	Deg. C	Deg. C	Deg. C	Deg. C
Ice	1.1	1.0	-0.1	---	---
Cool	18.8	18.9	0.1	---	---
Hot	41.7	41.8	0.1	---	---
Mean Absolute Errors ⇨			0.10		NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Temperature probe is in naturally aspirated radiation shield mounted on the same mast that supports the WS/WD sensor.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

Primary	Slope	Intercept	Cor.Coef.	**Backup**	Slope	Intercept	Cor.Coef.
DAS ⇨	1.0047	-0.063	1.0000	**DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Accuracy	≤ ±0.5 degrees C error per audit temperature input.	PASS	NA

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OZONE ANALYZER AUDIT REPORT

PART A: ANCILLARY INFORMATION

Project: CARB O3 TRANSPORT
Site ID: SHA
Location: SHADOW MT., CA

Audit Date: 30 SEP 1995
Start Time: 1300 PST
End Time: 1355 PST

Auditor: D.F. LANIEWICZ
Operator: R. HILLESTAD
Witness: R.HILLESTAD

- ***STATION OZONE ANALYZER IDENTIFICATION and APPLICATION***

Make: DASIBI
Model: 1003 AH
SN: 2359
Range: 0-500 ppb
Measurement Height: 8.4 meters
Last Calibrated: 17 SEP 1995
Span #: 60.550
Samp. Freq. (40-48 kHz): 43.108
Flow Rate: 2.0 lpm
Offset #: 4
Cntrl. Freq. (21-28 kHz): 22.588

- ***AUDIT EQUIPMENT IDENTIFICATION and CERTIFICATION INFORMATION***

Item: Ozone transfer standard
Certification Date: 9/4/95
Make: DASIBI
Model: 1003-PC
SN: 5027
Span #: 52.550
Samp. Freq. (40-48 kHz): 45.495
Trans.Std. Slope: 0.9916
Offset #: 4
Cntrl. Freq. (21-28 kHz): 28.228
Trans.Std. Inter.: 0.5020
Cell Temp, C: 38.30
Bar. Press., mmHg: 653.00

PART B: AUDIT TEST RESULTS

- ***KNOWN AUDIT INPUT vs. OBSERVED STATION RESPONSE***

Station STP Correction Factor: 1.1537

Trns. Std. Display ppb	Audit Input ppb	PRIMARY DAS			BACKUP SYSTEM		
		DAS ppb	Error ppb	Error %	DAS ppb	Error ppb	Error %
11	0.0	-4	-4	NA	---	---	---
91	92	89	-3	-3.3	---	---	---
170	182	183	1	0.5	---	---	---
394	439	443	4	0.9	---	---	---
Mean Absolute Errors ⇨			3.0	1.57		NA	NA

- ***AUDITOR COMMENTS or OBSERVATIONS***

Backup DAS system consists of auxillary data storage module (Campbell, SM192) operating as part of the Primary DAS. Independent backup system not part of station.

Glass inlet with approximately 12 meters of ¼ inch Teflon sample line. Sample flow is unrestricted in all directions.

- ***AUDIT LINEAR REGRESSION CURVE RESULTS***

Audit input value = x
DAS response = y

	Slope	Intercept	Cor.Coef.		Slope	Intercept	Cor.Coef.
Primary DAS ⇨	1.0188	-3.856	1.0000	**Backup DAS ⇨**	NA	NA	NA

- ***AUDIT LIMIT CRITERIA and PASS/FAIL RESULTS***

Audit Limit Catagory	To PASS, the observed response must be....	Primary	Backup
Audit curve slope	≥ 0.90 and ≤ 1.10	PASS	NA
Audit curve intercept	≤ ±3% of full scale.	PASS	NA
Audit curve correleation coeff.	≥ 0.9950	PASS	NA

APPENDIX E

Audit Equipment Certification Documentation

- Ozone Transfer Standard
- Thermometer
- Compass

OZONE TRANSFER STANDARD CERTIFICATION

Date (yymmdd)		950904	950811	950721	950621	950420	950310
PRIMARY STANDARD: DASIBI 1008 PC SN# 3868							
Span Number		30.807	30.807	30.807	30.807	30.807	30.807
Zero Offset		7	7	7	7	7	7
Smp.Freq.(40-48)		44.624	44.368	44.663	44.121	45.210	44.784
Con.Freq.(50.0)		50.000	50.000	50.000	50.000	50.000	50.000
TRANSFER STANDARD: DASIBI 1003 PC SN# 5027							
Span Number		52.550	52.550	52.550	52.550	52.550	52.550
Zero Offset		4	4	4	4	4	4
Smp.Freq.(40-48)		46.744	44.849	45.453	45.444	44.160	46.673
Con.Freq.(21-28)		26.480	24.882	25.336	25.389	24.450	26.526
Point	Instrument	Net Instrument Response, ppb					
	Primary	0	0	0	0	0	0
1	Transfer	0	0	0	0	0	0
	Primary	453	448	451	450	450	450
2	Transfer	455	449	451	451	459	459
	Primary	350	348	350	350	351	350
3	Transfer	353	349	347	350	353	357
	Primary	246	246	247	249	252	248
4	Transfer	248	248	249	249	253	254
	Primary	146	144	146	146	148	144
5	Transfer	145	145	146	147	147	149
	Primary	45	43	45	45	47	44
6	Transfer	42	44	43	45	44	46
y=PS	Slope,m	0.9901	0.9984	1.0001	0.9988	0.9804	0.9820
	Inter.,b	1.556	-0.668	0.485	-0.087	2.772	-1.049
x=TS	Corr.,r	0.9999	1.0000	0.9999	1.0000	0.9998	1.0000

	m	b
Current	0.9916	0.502
Previous	0.9941	0.362

Standard Deviations*
Sm = 0.89 % Sb = 145.3

Date: 08/11/95
Tech: DFL

Recertification Pass/Fail: PASS

Qualification Standards: 1) Sm <=3.7% ; Sb <=1500
2) Current m = Previous m +/-5%

* Where:

$$s_m = \frac{100}{\overline{m}}\sqrt{\frac{1}{5}\left[\sum_{i=1}^{6}(m_i)^2 - \frac{1}{6}\left(\sum_{i=1}^{6} m_i\right)^2\right]}\,\% \qquad s_b = \frac{100}{\overline{m}}\sqrt{\frac{1}{5}\left[\sum_{i=1}^{6}(I_i)^2 - \frac{1}{6}\left(\sum_{i=1}^{6} I_i\right)^2\right]}$$

CERTIFICATE OF CALIBRATION

The thermometer listed below has been calibrated against NIST-traceable mercury in glass calorimeters manufactured by the Brooklyn Thermometer Company, Inc. The calorimeters are scaled in 1/100° centigrade divisions.

Date: 3/22/95
Location: Ogden Environmental and Energy Services
Air Quality Lab
5950 Daley St, Unit A
Goleta, CA 93117

Thermometer Make: VWR Model: UNK Serial No.: 92-14463

Calorimeter °C	Thermometer °C	Difference °C
0.15	0.20	0.05
9.42	9.50	0.08
28.89	28.90	0.01
35.17	35.15	-0.02
42.68	42.70	0.02
47.38	47.40	0.02

The calibration was performed using a gently agitated, thermally homogeneous water bath and immersion times of 20 minutes or greater.

Test performed by: DF Laniewicz

Dominic F. Laniewicz

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