TABLE 16

5.5 Hourly Averaged Sequential 3-Hour Tracer Data

TABLE 6

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 1 SF6 TRACER

PDT - HOURS AFTER START TIME 08-31-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
1	1347	0	0	****
1	1347	0	0	20
2	1344	6	2	0
2	1344	0	0	0
3	1339	2	0	0
3	1339	0	0	0
4	1335	0	0	9
4	1335	0	1	****
5	1331	0	7	43
5	1331	0	3	43
6	1326	10	24	103
6	1326	2	24	****
7	1316	18	57	281
7	1324	25	79	420
8	1312	235	522	636
8	1331	247	418	568
9	1337	124	94	7
9	1310	227	100	41
10	1341	7	0	0
10	1308	28	4	1

**** INDICATES UNAVAILABLE OR FAULTY DATA

TABLE 6 (CONT.)

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 1 SF6 TRACER

PDT - HOURS AFTER START TIME 08-31-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
11	1306	2	****	2
11	1345	2	0	4
12	1303	0	0	7
12	1349	0	0	0
13	1356	4	2	0
13	1259	****	5	4
14	1404	****	17	0
14	1404	0	0	0

**** INDICATES UNAVAILABLE OR FAULTY DATA

TABLE 6

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 2 SF6 TRACER

PDT - HOURS AFTER START TIME 09-04-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
1	1336	0	2	****
1	1336	3	3	3
2	1333	1	3	7
2	1333	3	1	****
3	1330	3	3	2
3	1330	2	3	3
4	1327	8	2	0
4	1327	2	3	3
5	1324	4	4	3
5	1324	1	2	2
6	1321	6	11	3
6	1321	5	8	12
7	1318	11	4	7
7	1318	11	14	6
8	1315	9	11	****
8	1315	9	****	6
9	1315	10	6	4
9	1315	24	6	3
10	1318	4	2	****
10	1318	****	****	****

**** INDICATES UNAVAILABLE OR FAULTY DATA

TABLE 6 (CONT.)

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 2 SF6 TRACER

PDT - HOURS AFTER START TIME 09-04-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
11	1320	2	1	****
11	1320	2	2	1
12	1323	2	8	0
12	1323	3	4	1
13	1326	4	7	4
13	1326	5	4	4
14	1331	25	15	7
14	1331	27	16	8

**** INDICATES UNAVAILABLE OR FAULTY DATA

TABLE 6

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 2 CBRF3 TRACER

PDT - HOURS AFTER START TIME 09-04-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
1	1336	0	0	****
1	1336	22	0	0
2	1333	13	19	0
2	1333	****	0	****
3	1330	0	****	0
3	1330	0	****	0
4	1327	0	0	0
4	1327	0	****	24
5	1324	25	0	0
5	1324	0	0	0
6	1321	0	0	0
6	1321	0	0	30
7	1318	0	0	0
7	1318	0	0	0
8	1315	****	155	****
8	1315	0	****	32
9	1315	2794	2100	0
9	1315	2060	1710	0
10	1318	0	0	****
10	1318	****	****	****

**** INDICATES UNAVAILABLE OR FAULTY DATA

TABLE 6 (CONT.)

ONE-HOUR AVERAGED TRACER CONCENTRATION (PPT)

DELTA REGION TEST NO. 2 CBRF3 TRACER

PDT - HOURS AFTER START TIME 09-04-76

STATION NUMBER	START TIME	HOUR ONE	HOUR TWO	HOUR THREE
11	1320	0	0	****
11	1320	0	90	17
12	1323	0	0	0
12	1323	0	0	39
13	1326	21	0	0
13	1326	0	0	0
14	1331	0	****	0
14	1331	0	0	0

**** INDICATES UNAVAILABLE OR FAULTY DATA

6. Tabulation of Meteorological Data

6.1 Hourly Averaged Wind Speed and Direction Data (Table 17)

Data in the following table are assumed to represent hourly averaged wind speed and direction at each data station. As previously noted in Table 4, data for five stations are taken from hourly observations. Wind direction is listed to the nearest 10 degrees, although data from several stations were given in terms of either a 16-point or 8-point compass. Wind speeds have been converted to meters/second x 10 for tabulation purposes. Wind direction data from the Dow surface, Dow tower, Brentwood and the Rancho Seco tower were used to determine the hourly standard deviation, σ_θ, of the horizontal wind. Values of σ_θ and the related Pasquill stability class are given for these stations.

WIND DATA, LOCATION: DOW SURFACE ROCKWELL CODE: DW01

DATE		TIME (PCT)																						
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31	DEG	280	270	270	280	280	280	290	320	300	300	290	280	290	270	250	260	260	270	280	270	280	280	290	280
	STD DEV	6E	5E	3F	8D	7E	8D	6E	23A	13C	15C	8D	5E	11D	16C	10D	10D	7E	11D	6E	5E	9D	6E	6E	7E
	MPS*10	76	85	80	76	72	89	80	58	63	63	58	58	49	49	58	54	54	63	76	98	98	89	76	98
9/ 2	DEG	280	280	280	280	280	280	280	280	290	290	280	280	280	280	270	270	270	270	270	270	270	280	290	280
	STD DEV	3F	6E	7E	12D	7E	8D	3F	6E	8D	6E	5E	8D	8D	6E	6E	5E	8D	6E	8D	5E	5E	7E	8D	6E
	MPS*10	112	98	89	80	76	54	67	89	80	98	89	85	80	89	89	98	98	98	107	112	89	89	72	80
9/ 5	DEG	280	270	280	280	280	280	310	290	280	270	280	280	280	280	270	270	280	280	280	280	270	270	280	280
	STD DEV	6E	8D	4E	5E	7E	10D	21B	8D	13C	8D	5E	5E	8D	5E	8D	8D	4E	6E	6E	5E	8D	12D	4E	6E
	MPS*10	107	107	112	89	80	76	54	80	67	76	89	98	85	76	76	76	89	107	107	89	85	94	85	85
9/ 6	DEG	280	270	260	260	350	300	290	280	270	270	270	260	270	260	260	270	270	270	280	270	280	290	280	280
	STD DEV	8D	7E	7E	7E	65A	15C	8D	9D	6E	12D	9D	10D	9D	13C	17C	17C	13C	10D	11D	6E	6E	8D	5E	5E
	MPS*10	76	85	85	63	18	45	72	76	89	76	89	76	72	58	45	45	54	63	67	72	58	76	76	80
9/ 9	DEG	280	280	320	300	310	310	310	310	320	340	10	30	40	270	210	230	250	260	260	270	260	270	270	270
	STD DEV	11D	15C	21B	25A	24A	14C	13C	17C	12D	32A	33A	35A	42A	95A	37A	15C	13C	5E	7E	9D	9D	13C	3F	6E
	MPS*10	36	40	27	36	31	36	40	36	18	27	40	40	22	18	27	40	58	67	72	80	67	72	98	103
9/10	DEG	260	260	-1	-1	-1	-1	-1	-1	-1	-1	-1	280	290	260	250	280	280	270	260	280	280	270	270	270
	STD DEV	6E	6E	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	8D	6E	15C	4E	19B	7E	8D	7E	11D	6E	4E	7E	11D
	MPS*10	116	103	-1	-1	-1	-1	-1	-1	-1	-1	-1	63	45	27	36	40	58	76	58	58	72	80	72	72
9/13	DEG	270	260	270	270	280	270	270	290	280	270	280	280	260	230	240	230	250	260	270	280	270	280	270	270
	STD DEV	7E	7E	4E	6E	6E	7E	5E	8D	8D	8D	11D	8D	19B	14C	13C	10D	9D	8D	12D	11D	6E	6E	5E	5E
	MPS*10	72	58	54	58	72	72	58	54	58	63	49	45	45	36	49	49	54	58	58	85	80	112	89	76
9/14	DEG	280	270	270	260	260	260	260	260	260	260	260	270	280	270	270	270	270	260	270	250	240	250	240	240
	STD DEV	4E	9D	6E	4E	4E	4E	8D	6E	8D	5E	10D	10D	5E	10D	9D	3F	6E	13C	6E	11D	8D	6E	6E	6E
	MPS*10	76	76	89	94	94	89	89	85	89	80	80	80	89	89	80	85	103	107	103	112	103	94	85	89

-1 INDICATES NO DATA AVAILABLE, -9 INDICATES STD. DEV. GREATER THAN 99 DEGREES

WIND DATA, LOCATION: BRENTWOOD ROCKWELL CODE: BR02

DATE		TIME (PDT)																					
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31	DEG	300	260	260	120	40	330	320	340	330	350	40	350	0	10	10	350	0	360	10	350	340	310	300	310
	STD DEV	22B	14C	41A	63A	78A	37A	18B	50A	21B	26A	22B	29A	13C	9D	22B	32A	14C	10D	11D	16C	18B	32A	26A	31A
	MPS*10	27	22	22	18	13	18	18	13	18	18	22	31	36	36	31	31	36	45	49	40	31	27	18	13
9/ 2	DEG	340	350	120	150	140	280	310	290	330	20	50	50	40	40	20	30	20	20	50	270	270	270	270	260
	STD DEV	24A	70A	24A	24A	83A	41A	12D	24A	36A	10D	15C	14C	24A	30A	40A	18B	13C	22B	80A	19B	27A	41A	76A	35A
	MPS*10	18	13	22	18	13	13	22	18	18	18	18	22	27	22	27	31	45	40	27	31	22	13	13	18
9/ 5	DEG	50	340	340	330	360	310	340	350	350	360	10	20	40	30	10	10	30	60	0	260	280	340	280	290
	STD DEV	46A	29A	18B	30A	50A	33A	21B	73A	24A	44A	25A	55A	38A	24A	20B	29A	18B	27A	86A	24A	23A	34A	76A	45A
	MPS*10	40	22	22	22	18	18	18	13	18	18	22	18	27	31	31	27	22	27	22	31	22	22	18	18
9/ 6	DEG	290	260	160	300	280	300	280	270	70	110	70	70	70	60	30	60	30	40	20	0	310	250	350	70
	STD DEV	19B	21B	42A	80A	78A	32A	55A	71A	39A	34A	17C	62A	32A	38A	24A	32A	24A	17C	26A	34A	37A	21B	46A	44A
	MPS*10	40	36	22	18	18	27	13	13	18	18	18	18	22	27	31	31	31	36	45	36	18	31	22	13
9/ 9	DEG	260	270	280	270	290	80	290	280	300	340	360	0	0	10	20	30	30	10	340	310	320	300	290	120
	STD DEV	12D	9D	17C	25A	99A	85A	69A	17C	24A	22B	12D	14C	18B	28A	20B	13C	18B	6E	17C	25A	29A	43A	66A	92A
	MPS*10	27	27	13	18	22	13	13	13	22	31	36	31	31	31	31	40	31	40	36	31	22	18	13	13
9/10	DEG	280	280	160	70	10	320	270	310	70	90	80	120	100	40	70	360	10	50	100	140	350	350	320	330
	STD DEV	64A	-9A	28A	65A	17C	38A	22B	24A	31A	56A	34A	10D	25A	34A	27A	25A	11D	21B	39A	-9A	15C	31A	16C	76A
	MPS*10	22	18	22	18	18	18	18	18	13	13	18	22	18	13	18	22	27	27	18	-1	-1	-1	-1	-1
9/13	DEG	300	270	280	290	60	170	150	230	320	30	50	20	20	360	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
	STD DEV	25A	16C	20B	49A	-9A	49A	15C	33A	40A	26A	34A	49A	19B	43A	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-
	MPS*10	18	13	13	13	13	13	22	18	13	13	13	22	27	27	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/14	DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	100	130	140	140	140	290	280	250	250	250	240	250
	STD DEV	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	32A	36A	58A	46A	77A	27A	30A	16C	22B	18B	35A	25A
	MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	22	22	22	27	31	45	45	45	45	45	27	40

-1 INDICATES NO DATA AVAILABLE, -9 INDICATES STD. DEV. GREATER THAN 99 DEGREES

WIND DATA, LOCATION: VENICE FERRY MRI CODE: VF03

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	250	240	300	80	120	290	100	80	30	290	280	280	270	270	250	270	250	250	-1	280	260	250	260	230
MPS*10	36	36	13	13	13	9	13	9	9	27	36	36	36	31	31	31	27	31	40	40	36	31	27	13
9/ 2 DEG	160	120	150	270	250	270	270	260	250	250	270	270	260	260	270	270	270	270	260	250	240	220	240	250
MPS*10	9	9	9	13	13	18	18	18	13	27	36	36	31	31	36	45	49	40	45	31	9	31	31	27
9/ 4 DEG	270	270	280	250	260	250	270	270	270	240	250	260	260	260	250	270	270	270	260	260	250	230	150	30
MPS*10	36	36	31	36	36	36	22	31	40	36	22	36	40	36	40	54	45	36	22	36	40	22	13	18
9/ 5 DEG	310	250	260	240	250	270	290	60	200	270	260	280	230	270	270	280	270	240	260	250	200	160	260	190
MPS*10	22	31	45	40	27	18	13	9	18	27	22	18	22	22	31	27	22	22	22	27	22	9	27	18
9/ 6 DEG	90	60	140	180	210	160	50	40	350	270	280	270	270	260	260	280	270	270	250	250	250	260	230	340
MPS*10	9	4	18	36	18	4	4	9	13	18	45	40	31	27	27	18	22	31	36	31	31	27	27	13
9/ 9 DEG	260	270	40	40	20	-1	310	310	320	340	350	350	340	300	300	330	340	230	270	270	250	230	230	210
MPS*10	18	13	13	9	9	13	18	22	27	31	27	27	36	36	36	31	27	18	18	31	31	40	22	27
9/10 DEG	250	250	180	170	230	240	330	320	320	280	190	190	210	240	260	250	180	270	260	300	290	300	50	30
MPS*10	18	22	18	4	9	13	13	13	18	13	4	9	4	9	13	27	9	27	31	22	31	22	9	13
9/13 DEG	260	260	250	270	60	80	290	280	260	290	290	270	300	250	270	340	250	270	240	260	270	270	260	260
MPS*10	31	31	22	18	9	9	9	18	36	36	22	27	27	31	27	27	18	22	27	31	40	54	45	22
9/14 DEG	120	120	80	290	190	150	90	140	120	100	200	290	290	290	260	250	270	250	260	200	130	200	190	150
MPS*10	9	13	13	27	18	4	9	9	9	9	18	36	45	49	45	45	63	72	58	40	13	45	27	22

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RIC COSUMNES MRI CODE: RC04

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	80	70	60	70	60	80	50	-1	-1	-1	-1	-1	-1	-1	250	240	240	240	250	220	210	210
MPS*10	9	4	4	4	9	4	4	4	4	13	18	13	13	13	18	18	22	22	22	-1	-1	9	9	9
9/ 2 DEG	140	170	150	130	130	280	260	110	230	240	250	260	260	260	250	260	270	260	230	230	210	230	240	210
MPS*10	9	9	9	9	4	13	18	4	27	27	31	31	27	27	31	36	36	40	45	36	27	36	45	27
9/ 4 DEG	210	210	230	230	220	230	250	190	280	270	260	240	270	280	270	290	270	240	200	220	250	210	130	90
MPS*10	18	22	22	22	31	31	22	13	27	27	22	27	36	31	31	45	45	54	36	36	36	22	13	9
9/ 5 DEG	310	190	220	170	140	80	60	90	190	220	240	170	220	230	230	230	220	190	220	220	220	200	210	220
MPS*10	9	27	27	18	13	13	9	9	9	36	27	18	18	22	31	36	40	36	31	27	27	27	27	40
9/ 6 DEG	180	210	190	180	60	60	170	230	240	240	250	250	280	270	280	290	290	270	270	260	220	250	50	180
MPS*10	18	22	18	9	13	9	4	13	36	58	58	40	36	36	31	36	36	31	31	18	18	22	9	4
9/ 9 DEG	60	60	20	70	90	290	250	340	350	350	330	310	310	300	310	280	270	290	200	190	220	160	200	180
MPS*10	9	13	4	9	4	4	9	13	27	36	36	36	36	40	36	36	31	18	13	18	36	22	18	18
9/10 DEG	180	120	130	140	130	230	110	200	240	230	180	160	180	180	250	300	260	250	230	250	270	30	20	220
MPS*10	13	13	0	13	9	4	9	9	13	22	18	22	22	18	22	22	36	31	22	27	22	13	18	9
9/13 DEG	230	250	280	110	130	120	120	120	120	270	340	280	320	320	320	340	350	290	180	120	240	240	240	160
MPS*10	22	13	4	9	9	9	4	4	9	9	9	18	18	18	27	22	18	18	13	9	31	36	40	18
9/14 DEG	170	90	140	140	150	210	210	180	160	190	200	200	220	250	190	230	210	210	240	230	210	200	180	190
MPS*10	9	13	9	9	13	18	22	18	13	31	36	36	22	27	27	31	45	58	72	58	36	36	22	18

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: STOCKTON NWS CODE: SK05

DATE	TIME (PCT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	300	290	60	30	30	0	20	350	50	320	330	300	300	290	290	320	300	340	350	310	340	270	350	0
MPS*10	31	26	41	15	21	0	15	21	15	31	41	46	46	41	51	57	51	51	57	51	36	31	15	0
9/ 2 DEG	60	360	90	0	270	290	300	20	360	360	350	20	360	200	290	270	320	280	300	280	290	290	240	270
MPS*10	31	26	15	0	26	31	26	21	26	31	21	26	31	21	36	51	31	41	57	36	36	41	21	36
9/ 4 DEG	350	330	330	320	340	350	360	30	360	360	280	320	300	270	310	340	350	350	340	300	310	340	0	30
MPS*10	31	36	41	31	26	15	26	21	31	21	36	41	36	46	41	51	46	46	36	57	51	31	0	31
9/ 5 DEG	40	330	290	300	300	340	40	40	0	310	10	10	350	350	270	270	300	270	280	260	290	280	280	270
MPS*10	26	36	31	15	15	15	15	21	0	36	15	31	26	15	26	31	31	21	36	36	41	57	62	62
9/ 6 DEG	270	270	240	220	310	240	300	290	290	290	300	270	300	290	310	310	300	20	330	320	310	280	270	320
MPS*10	93	77	36	26	26	15	26	15	67	62	41	36	31	36	46	41	31	21	36	46	46	31	41	31
9/ 9 DEG	300	0	0	360	300	270	310	290	310	320	340	300	330	350	320	340	340	290	300	260	240	260	270	280
MPS*10	41	0	0	21	21	26	26	21	26	31	36	51	46	41	51	57	21	51	31	26	36	36	36	36
9/10 DEG	280	130	140	360	90	230	250	290	330	40	140	100	80	70	110	20	170	280	280	270	350	300	280	330
MPS*10	41	36	31	21	15	21	26	21	31	21	21	26	31	36	26	15	31	31	36	36	26	36	26	26
9/13 DEG	290	280	290	240	80	0	110	210	160	120	290	280	0	330	10	340	350	340	10	10	300	270	290	290
MPS*10	36	31	26	15	21	0	21	21	15	21	41	41	0	41	36	41	36	21	46	31	36	41	46	46
9/14 DEG	280	70	50	360	280	250	320	340	210	0	10	250	320	270	300	300	290	240	270	260	260	260	250	260
MPS*10	36	21	21	21	21	21	31	15	26	0	15	31	46	46	31	31	26	72	77	51	82	72	62	87

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: LIVERMORE NWS CODE: LV06

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	270	230	230	200	230	250	260	290	300	300	290	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	26	26	26	26	21	31	51	51	51	46	31	-1	-1
9/ 2 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	260	280	300	280	290	290	310	290	260	290	300	290	310	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	26	26	21	26	31	36	67	67	41	41	62	51	41	-1	-1
9/ 4 DEG	-1	-1	-1	-1	-1	-1	-1	70	0	0	0	290	320	260	280	290	300	270	270	290	270	280	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	21	0	0	0	26	21	31	36	62	51	67	57	46	31	31	-1	-1
9/ 5 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	310	270	270	280	290	280	280	290	290	260	290	280	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	21	26	31	41	57	51	57	62	62	51	62	72	-1	-1
9/ 6 DEG	-1	-1	-1	-1	-1	-1	-1	280	270	280	290	270	260	220	260	-1	290	290	290	280	270	290	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	31	36	51	72	41	57	41	31	-1	51	62	62	51	41	41	-1	-1
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	60	0	0	250	270	260	240	280	270	260	270	280	290	280	270	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	21	0	0	26	26	26	31	26	36	51	67	77	62	77	26	-1	-1
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	270	0	260	280	290	290	280	300	290	290	290	290	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	21	0	26	31	51	46	41	51	41	51	36	36	-1	-1
9/13 DEG	-1	-1	-1	-1	-1	-1	-1	70	0	270	280	220	0	240	200	260	270	280	280	290	280	290	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	26	0	21	21	21	0	15	31	41	46	51	57	82	57	46	-1	-1
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	270	280	280	300	290	260	270	260	240	240	220	220	230	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	21	31	31	26	51	46	51	41	41	51	57	67	51	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RIO VISTA NWS CODE: RV07

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	250	250	250	250	250	250	250	250	250	250	270	320	340	320	50	50	110	270	250	250	250	270	250	270
MPS*10	103	51	93	62	77	93	87	62	77	103	46	46	41	46	46	31	21	46	51	62	77	93	93	103
9/ 2 DEG	270	270	250	250	250	250	250	250	250	250	250	250	250	250	270	270	250	270	270	270	270	270	270	270
MPS*10	103	93	103	103	98	93	103	77	62	93	82	82	72	51	36	46	57	77	77	77	103	77	77	77
9/ 4 DEG	270	270	270	270	270	270	270	290	270	270	270	270	270	270	270	270	270	270	-1	-1	-1	-1	270	250
MPS*10	77	77	93	93	103	93	93	62	77	82	26	26	41	46	82	77	82	77	-1	-1	-1	-1	51	77
9/ 5 DEG	270	290	270	270	270	270	250	250	20	50	270	250	250	230	250	270	270	270	270	270	270	270	270	270
MPS*10	62	62	93	77	67	77	93	103	51	26	72	77	51	51	51	51	36	36	82	82	87	77	87	51
9/ 6 DEG	270	270	230	230	250	270	270	270	250	270	270	250	270	250	340	340	250	250	250	270	270	270	270	270
MPS*10	103	103	77	77	26	26	77	62	62	93	93	62	31	62	15	21	36	51	15	26	31	36	41	46
9/ 9 DEG	250	250	270	290	270	270	270	270	0	0	0	20	50	50	20	20	50	50	250	250	270	250	270	270
MPS*10	36	31	41	46	21	26	41	46	36	21	31	31	31	31	36	51	21	26	51	62	77	62	103	103
9/10 DEG	250	-1	250	250	250	250	250	270	290	270	270	290	340	230	230	180	270	270	250	250	250	250	270	250
MPS*10	103	-1	103	77	77	72	51	57	51	62	77	62	51	41	41	41	36	51	51	62	51	41	36	51
9/13 DEG	270	270	250	250	250	250	270	-1	-1	250	-1	-1	0	-1	140	-1	-1	-1	50	-1	-1	0	-1	-1
MPS*10	93	77	87	41	62	51	51	-1	-1	51	-1	-1	26	-1	21	-1	-1	-1	26	-1	-1	51	-1	-1
9/14 DEG	230	230	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	270	250	250	250	250
MPS*10	51	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	77	98	77	62	51	62

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: SACRAMENTO NWS CODE: SA08

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	290	300	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	100	80	270	300	320	300
MPS*10	26	26	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	21	26	21	26	31	26
9/ 2 DEG	210	190	200	200	180	160	180	160	160	140	150	140	140	180	110	140	150	160	60	150	150	120	180	170
MPS*10	31	41	41	36	26	26	26	26	31	31	36	36	26	26	21	26	26	31	31	41	41	21	31	41
9/ 4 DEG	290	0	190	190	180	170	170	160	140	0	0	0	0	0	0	0	0	0	0	0	140	0	150	180
MPS*10	26	0	31	41	51	51	41	41	31	0	0	0	0	0	0	0	0	0	0	0	26	0	26	31
9/ 5 DEG	170	170	160	170	200	140	140	120	120	150	150	150	140	140	140	140	180	250	210	200	150	170	200	170
MPS*10	26	36	62	41	36	41	41	62	36	41	41	41	41	26	26	31	31	26	26	26	36	51	51	51
9/ 6 DEG	200	200	170	170	170	170	160	170	170	170	170	170	170	170	170	140	160	180	170	0	230	270	300	260
MPS*10	41	51	72	67	77	62	82	72	77	77	77	77	77	51	51	31	41	36	26	0	31	26	41	21
9/ 9 DEG	300	350	60	60	0	0	0	0	0	0	0	0	0	0	320	0	0	320	320	320	320	310	310	290
MPS*10	31	31	26	26	0	0	0	0	0	0	0	0	0	0	21	0	0	46	31	46	46	51	36	41
9/10 DEG	290	310	0	110	0	170	170	210	110	120	110	120	120	120	120	170	170	300	300	60	150	180	170	150
MPS*10	26	21	0	26	0	21	36	21	31	36	36	36	36	31	36	51	21	21	15	15	21	46	51	51
9/13 DEG	220	0	50	70	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0	300	300
MPS*10	15	0	36	26	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	21	0
9/14 DEG	70	80	140	150	130	150	200	170	140	140	150	140	150	140	140	140	120	120	180	150	150	130	180	100
MPS*10	26	21	26	26	21	36	21	21	31	31	26	26	36	26	26	31	26	31	36	36	21	26	41	21

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: CONCORD NHS CODE: CC09

DATE	TIME (PCT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	320	320	320	310	310	300	310	280	310	290	260	340	330	350
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	26	46	41	62	57	51	62	46	51	77	26	41	36	21
9/ 2 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	310	310	300	310	320	300	280	290	290	190	190	200	200	190
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	41	51	51	57	57	77	57	51	62	51	57	72	72	77
9/ 4 DEG	-1	-1	-1	-1	-1	-1	-1	0	200	0	310	320	310	310	310	300	250	230	260	230	200	0	270	0
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	21	0	15	36	51	51	62	77	77	51	51	31	31	0	26	0
9/ 5 DEG	-1	-1	-1	-1	-1	-1	-1	0	280	280	300	300	310	320	290	300	260	280	190	190	190	200	190	190
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	51	51	51	51	62	62	72	77	62	57	67	62	77	93	103	118
9/ 6 DEG	-1	-1	-1	-1	-1	-1	-1	190	190	200	190	180	180	230	180	250	200	190	180	190	170	340	340	360
MPS*10	-1	-1	-1	-1	-1	-1	-1	62	62	82	77	87	51	26	46	31	67	67	57	57	41	36	21	21
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	130	170	170	160	0	70	350	40	350	310	270	260	220	190	120	190	190
MPS*10	-1	-1	-1	-1	-1	-1	-1	21	31	36	21	0	41	26	26	21	57	57	51	46	26	21	41	46
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	30	0	0	0	310	320	0	310	170	260	220	290	340	270	0	320	320
MPS*10	-1	-1	-1	-1	-1	-1	-1	10	0	0	0	51	36	0	31	21	62	51	51	41	36	0	31	36
9/13 DEG	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	320	0	0	310	310	300	260	270	240	240	270	190	180
MPS*10	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	46	0	0	41	57	67	51	51	41	41	36	46	36
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	180	180	180	180	310	260	310	290	270	270	250	240	220	210	210	200	170
MPS*10	-1	-1	-1	-1	-1	-1	-1	51	62	46	46	41	31	41	31	62	67	72	62	82	103	103	103	93

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: BENICIA BA APCC CODE: BE10

DATE	TIME (PST) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 2 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230	230	270	270	270
MPS*10	31	36	36	36	31	36	27	31	31	40	36	40	40	45	36	40	36	45	40	27	31	22	27	31
9/ 4 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	22	18	22	18	27	27	27	27	27	36	36	27	31	31	27	27	22	22	22	22	22	22	13	18
9/ 5 DEG	270	270	270	270	270	270	270	270	270	270	180	180	90	50	90	90	270	270	270	270	270	270	270	270
MPS*10	22	22	18	18	27	18	18	18	18	9	9	22	13	18	22	18	13	22	27	27	31	31	18	18
9/ 6 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230	270	270	270	270	270	270
MPS*10	13	22	27	27	27	27	27	22	22	22	27	31	31	31	27	27	22	22	18	13	27	27	27	22
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	13	13	13	13	13	18	18	13	27	27	31	31	27	31	27	31	31	22	18	27	27	27	27	13
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	230	230	230	270	270	270	270	270	270	270	270	270
MPS*10	9	18	18	22	27	22	27	27	27	22	18	18	13	13	13	27	22	22	22	18	13	9	13	13
9/13 DEG	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	36	36	31	40	31	36	31	36	27	31	31	31	31	27	31	31	31	40	45	40	36	36	31	22
9/14 DEG	230	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	18	22	18	22	22	27	22	27	22	22	27	31	31	40	27	31	31	31	36	31	36	27	22	18

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: VOICE OF AMERICA CODE: VA11

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	50	50	10	270	250	250	220	220	220	220	230	230	250
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	13	22	18	22	18	22	40	36	45	40	45	45	45
9/ 2 DEG	220	220	190	200	210	200	230	260	280	270	240	240	240	270	260	230	220	200	210	220	230	240	230	240
MPS*10	72	49	36	36	40	36	31	45	36	22	27	31	31	40	45	54	76	9	40	80	85	89	89	103
9/ 4 DEG	240	240	240	230	230	240	240	250	250	260	260	250	250	250	250	230	220	200	220	210	230	240	240	250
MPS*10	76	67	36	49	49	40	36	36	27	22	31	31	22	40	54	80	63	89	58	76	72	85	89	63
9/ 5 DEG	240	220	230	240	230	230	230	220	240	220	200	220	210	210	230	210	220	200	220	230	230	220	250	230
MPS*10	49	45	67	85	89	58	40	36	49	54	63	72	58	76	80	63	72	89	85	85	94	121	112	116
9/ 6 DEG	230	210	200	190	230	240	230	250	260	240	250	240	250	220	230	250	210	230	220	220	220	230	220	230
MPS*10	134	107	85	58	72	94	80	58	40	36	36	27	31	31	27	27	31	40	45	49	45	36	22	31
9/ 9 DEG	240	280	350	280	330	340	0	10	30	20	20	20	40	30	40	260	270	240	250	230	230	230	230	240
MPS*10	22	18	22	13	27	22	31	27	45	45	49	40	36	27	18	22	18	40	58	58	58	85	72	80
9/10 DEG	240	250	210	230	200	210	220	230	250	310	320	330	260	230	200	230	220	210	220	260	200	270	230	240
MPS*10	67	49	40	49	45	36	40	40	45	40	31	22	22	27	40	54	40	49	45	18	13	18	22	13
9/13 DEG	250	230	230	180	130	220	270	290	290	320	20	30	340	20	310	50	160	200	230	240	230	230	230	230
MPS*10	40	27	22	9	18	22	27	22	9	13	27	18	22	22	13	18	22	31	58	63	58	58	63	63
9/14 DEG	230	220	230	230	240	230	250	240	250	250	250	240	230	210	210	230	230	240	230	230	230	220	220	210
MPS*10	54	54	49	54	58	49	40	31	40	22	27	31	22	40	45	63	89	103	103	116	103	98	85	89

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: PITTSBURG PG&E CODE: PB12

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	270	270	270	280	280	280	290	300	300	300	300	310	300	310	320	310	310	310	310	310	300	260	280	280
MPS*10	45	36	45	54	54	58	54	49	54	63	54	72	54	54	54	49	54	54	63	58	63	58	58	67
9/ 2 DEG	280	280	290	290	250	180	270	280	290	280	300	290	300	310	310	310	310	300	310	300	260	250	270	290
MPS*10	72	72	72	72	45	13	36	58	67	58	63	63	72	80	80	76	76	76	67	67	58	49	45	58
9/ 4 DEG	300	300	300	300	280	280	280	280	280	280	280	290	270	300	300	300	290	310	280	270	270	270	270	280
MPS*10	85	98	89	80	94	98	80	80	76	72	72	63	49	63	76	76	72	89	63	54	54	45	54	63
9/ 5 DEG	280	300	280	280	280	310	290	310	300	300	300	310	300	290	300	310	310	300	280	270	260	280	250	260
MPS*10	54	89	80	63	54	72	72	67	76	72	80	72	72	89	63	80	80	72	89	54	54	40	63	31
9/ 6 DEG	230	230	240	230	230	240	260	250	240	240	250	250	250	250	310	320	320	270	310	310	250	240	290	280
MPS*10	27	63	80	80	54	40	49	45	58	40	54	58	54	49	54	58	54	58	63	58	45	36	54	54
9/ 9 DEG	230	270	270	280	270	280	300	290	180	180	350	180	100	80	340	320	310	310	310	290	250	230	240	280
MPS*10	27	18	31	36	31	27	27	22	18	13	22	13	13	18	18	27	36	36	49	54	54	58	58	49
9/10 DEG	270	250	260	260	270	290	280	290	300	310	290	290	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	49	45	63	49	40	45	36	54	58	63	63	63	54	49	49	45	49	49	54	45	49	45	54	45
9/13 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	45	40	45	36	45	49	45	45	36	45	45	36	45	45	27	36	45	58	54	58	63	45	54	54
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	260	250	260	270	280	260	270	260	260	260	240	240	240	220
MPS*10	45	49	54	54	45	49	40	54	54	54	54	63	63	63	67	67	58	72	76	76	76	72	67	72

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: MARTINEZ, SHELL OIL CODE: MZ13

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	310	310	310	310	310	310	310	310	310	310	310	310	320	320	310	300	300	310	290	300	310	310	300	300
MPS*10	40	45	54	54	54	54	54	63	45	40	49	63	54	54	63	36	36	67	58	45	67	58	45	49
9/ 2 DEG	310	310	310	310	310	320	300	310	310	310	320	320	310	310	310	310	300	270	290	270	310	310	310	300
MPS*10	36	45	45	45	45	40	31	45	54	54	45	54	63	67	63	49	45	45	27	22	31	40	36	31
9/ 4 DEG	280	280	270	280	290	290	300	300	310	310	320	320	310	310	300	300	270	250	230	300	300	300	310	320
MPS*10	76	72	45	72	49	49	36	31	45	40	54	67	80	76	72	63	54	36	31	22	36	54	63	63
9/ 5 DEG	310	310	300	310	310	300	300	290	290	300	310	300	300	320	310	300	290	300	250	270	320	150	190	220
MPS*10	67	45	49	58	45	45	54	54	54	67	72	63	67	54	63	54	45	45	45	18	13	18	22	22
9/ 6 DEG	210	210	220	180	220	240	240	190	270	270	270	270	320	320	320	310	270	260	300	290	300	300	300	300
MPS*10	36	36	36	9	13	18	9	4	4	18	27	22	49	45	45	45	45	36	18	31	45	22	36	27
9/ 9 DEG	290	300	300	290	300	300	300	300	270	290	90	60	60	360	330	310	300	270	270	250	270	270	240	250
MPS*10	13	31	27	27	31	27	22	13	9	4	9	13	22	22	13	45	36	45	36	27	45	31	27	49
9/10 DEG	250	320	320	310	310	310	310	310	300	300	320	320	310	300	250	250	270	310	300	300	310	310	310	310
MPS*10	22	27	31	40	45	45	45	45	54	45	45	45	27	45	45	45	22	54	31	27	27	40	36	27
9/13 DEG	300	300	300	290	290	290	310	310	310	320	320	320	320	320	320	320	300	290	270	300	280	230	300	300
MPS*10	9	9	18	13	22	18	13	18	22	27	54	18	27	36	45	45	54	36	40	72	45	22	9	9
9/14 DEG	300	290	260	240	250	240	250	260	290	290	290	270	290	300	270	270	270	280	230	240	250	230	210	210
MPS*10	13	9	27	27	31	27	31	27	31	27	45	40	45	54	54	72	80	80	80	67	58	49	27	27

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: MARTINEZ, LION OIL CODE: MZ14

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 2 DEG	210	200	200	200	210	210	210	270	270	280	270	270	280	270	270	270	250	270	270	200	270	270	270	270
MPS*10	22	22	27	31	27	36	31	31	36	36	45	49	49	49	54	54	45	40	31	31	36	54	54	58
9/ 4 DEG	270	280	280	270	270	280	270	270	270	270	270	270	270	270	270	270	270	270	220	190	180	180	180	190
MPS*10	58	45	40	40	40	40	45	54	58	58	72	76	67	72	80	67	54	54	40	49	58	54	67	76
9/ 5 DEG	190	180	180	180	180	180	190	190	190	170	170	180	290	270	-1	180	270	220	280	-1	270	270	270	190
MPS*10	72	72	67	63	58	54	45	40	45	40	45	67	36	27	22	31	31	27	13	9	27	31	36	9
9/ 6 DEG	180	270	170	170	160	140	150	170	200	70	30	30	30	30	30	40	40	30	20	270	270	270	140	150
MPS*10	13	45	72	18	18	9	9	0	4	4	13	31	45	36	31	18	18	13	18	36	54	18	4	13
9/ 9 DEG	210	280	270	270	280	280	280	280	280	270	270	280	270	280	270	270	210	270	280	280	280	270	280	280
MPS*10	22	27	27	18	27	27	31	49	36	36	40	31	27	36	31	36	27	40	36	27	22	36	27	22
9/10 DEG	280	280	280	190	210	210	220	200	200	210	200	220	230	210	220	220	220	220	270	220	200	200	200	250
MPS*10	22	27	27	27	31	40	36	27	31	31	36	49	49	45	49	49	45	45	40	40	31	27	27	9
9/13 DEG	180	170	170	180	190	180	180	170	180	220	280	280	280	290	280	280	290	240	270	280	260	240	230	230
MPS*10	36	40	40	45	31	36	40	45	40	31	40	40	72	63	72	72	76	76	85	85	72	67	58	72
9/14 DEG	230	210	200	200	200	200	190	190	200	200	200	210	190	190	190	190	190	180	190	180	190	-1	-1	-1
MPS*10	63	60	85	80	85	85	85	85	85	85	80	67	76	72	72	63	67	63	58	67	63	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: ANTIOCH, FIBREBOARD CODE: AT15

DATE	TIME (PCT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	280	290	290	310	320	290	290	310	290	310	300	310	300	290	290	300	310	310	300	290	280	280	300	300
MPS*10	54	54	54	36	36	49	49	54	40	49	36	31	36	36	45	45	49	58	80	72	36	58	49	54
9/ 2 DEG	290	290	320	120	170	90	300	310	290	300	300	300	300	300	300	300	300	300	300	270	280	320	310	290
MPS*10	40	49	22	4	9	4	36	36	40	45	45	54	63	67	67	67	80	76	72	54	27	18	22	36
9/ 4 DEG	290	290	290	290	290	290	290	290	280	310	310	310	310	310	310	300	300	310	310	290	280	280	280	280
MPS*10	94	89	89	89	67	49	54	54	45	72	40	31	54	58	63	80	94	72	58	54	49	63	58	76
9/ 5 DEG	290	290	290	290	290	290	290	290	280	290	290	300	320	310	310	310	310	310	320	290	280	20	20	20
MPS*10	76	72	72	67	58	49	45	63	76	67	76	80	63	54	49	76	76	72	63	63	67	13	18	13
9/ 6 DEG	150	170	170	170	250	250	200	300	330	320	320	330	320	320	350	350	350	310	300	270	290	280	290	290
MPS*10	27	22	27	31	36	45	13	13	13	13	13	49	45	49	45	45	49	63	58	45	40	31	45	54
9/ 9 DEG	300	300	290	280	310	330	280	290	300	300	280	290	290	300	300	290	290	290	290	270	260	300	280	280
MPS*10	31	27	27	22	13	18	18	31	22	18	13	13	9	9	18	22	45	49	58	58	63	63	67	54
9/10 DEG	270	270	250	330	350	290	290	290	300	280	290	310	300	300	310	310	300	270	290	290	290	280	270	290
MPS*10	72	58	22	13	13	22	36	49	54	31	36	22	22	27	27	31	49	40	49	45	58	58	36	45
9/13 DEG	260	260	270	270	280	290	130	130	290	310	320	310	300	310	310	310	310	310	300	290	280	290	290	260
MPS*10	54	49	54	54	58	36	22	9	13	31	31	36	27	18	27	40	54	54	63	72	58	76	63	54
9/14 DEG	290	310	280	260	230	120	260	250	130	70	290	290	310	290	280	290	260	250	250	250	160	170	190	180
MPS*10	45	36	40	54	31	13	54	40	13	9	54	63	63	67	72	58	72	76	67	67	49	22	72	40

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: BENICIA, EXXON CODE: BE16

DATE		TIME (PDT)																						
		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31	DEG	310	310	300	300	300	290	300	300	290	300	290	290	290	300	300	270	290	290	300	310	310	310	300	300
	MPS*10	80	72	80	89	94	63	45	89	80	80	72	67	67	67	58	63	58	80	72	72	72	80	80	107
9/ 2	DEG	300	300	300	300	300	300	300	300	290	290	300	300	290	290	300	290	290	290	290	290	300	320	310	290
	MPS*10	89	85	89	85	85	72	80	89	89	85	80	85	80	85	76	63	72	67	63	63	80	72	80	94
9/ 4	DEG	290	290	290	300	300	300	300	300	300	300	300	310	300	300	290	290	280	230	230	320	310	310	310	300
	MPS*10	107	80	85	80	63	54	54	54	54	63	63	72	72	72	76	63	54	27	27	27	36	72	107	103
9/ 5	DEG	290	290	300	290	300	310	300	310	300	290	290	290	290	290	300	290	290	270	240	260	300	300	280	260
	MPS*10	67	76	72	89	85	80	98	89	72	80	80	63	63	54	72	63	67	54	36	27	27	40	27	36
9/ 6	DEG	240	230	230	240	300	300	280	300	290	280	270	270	300	270	290	300	310	300	310	310	310	310	310	310
	MPS*10	18	13	36	18	18	27	36	27	36	36	36	45	54	36	45	54	49	45	45	45	54	63	63	54
9/ 9	DEG	300	310	310	320	310	310	310	320	320	130	130	120	120	110	200	280	260	260	250	260	260	300	250	270
	MPS*10	36	58	45	45	54	54	36	27	4	18	27	22	27	27	36	45	45	63	72	63	63	36	45	45
9/10	DEG	300	300	290	290	300	310	310	310	300	300	290	290	310	280	240	250	290	300	290	300	310	310	310	310
	MPS*10	54	72	67	72	67	72	72	63	76	72	67	36	36	27	36	27	31	54	36	45	45	45	54	45
9/13	DEG	310	300	310	300	310	310	310	310	300	310	300	240	250	280	290	260	270	290	260	280	300	300	310	300
	MPS*10	27	27	54	45	27	27	36	27	45	45	49	18	36	63	63	63	63	63	63	72	63	45	54	63
9/14	DEG	300	300	290	270	310	300	300	300	300	290	280	280	290	270	260	260	260	260	260	250	250	240	260	280
	MPS*10	63	58	54	36	45	54	54	54	63	63	63	63	63	63	72	89	89	80	72	89	72	27	27	18

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RICHMOND, ALLIED CHEMICAL CODE: RM17

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	150	150	160	150	150	150	150	140	140	150	150	140	140	140	120	130	130	110	130	130	130	140	160	160
MPS*10	31	31	27	13	13	18	13	13	18	22	18	18	27	27	27	27	27	27	27	27	22	45	36	36
9/ 2 DEG	160	160	170	170	170	170	170	170	170	170	170	150	150	150	180	180	150	140	140	150	140	150	160	160
MPS*10	40	36	45	45	49	49	40	40	36	31	31	27	36	40	40	45	31	40	49	49	36	49	63	54
9/ 4 DEG	150	150	150	160	160	170	170	170	170	170	170	180	180	190	180	170	160	150	160	160	160	160	160	160
MPS*10	58	49	45	45	45	40	45	40	45	49	49	49	49	54	45	40	36	45	27	27	22	27	22	18
9/ 5 DEG	160	160	160	160	150	150	150	170	160	170	180	160	150	150	150	150	130	150	140	150	150	160	160	160
MPS*10	22	18	22	18	27	22	18	18	18	18	22	27	31	27	27	31	31	31	27	49	63	63	63	54
9/ 6 DEG	180	160	160	150	130	140	160	160	170	150	170	170	160	160	180	160	150	150	140	150	150	160	170	150
MPS*10	18	13	13	9	4	9	13	27	13	18	27	27	27	27	31	27	40	31	22	18	27	22	27	13
9/ 9 DEG	120	120	120	120	130	130	30	330	330	320	320	330	320	200	140	120	120	120	110	120	150	150	170	180
MPS*10	13	9	9	9	9	4	13	18	18	18	18	13	9	9	13	18	27	31	22	22	22	22	36	22
9/10 DEG	140	140	120	170	180	120	130	20	340	340	180	160	160	170	150	120	140	140	140	150	150	160	160	160
MPS*10	13	13	22	36	31	13	9	9	18	9	13	27	31	22	22	31	22	36	18	13	13	13	18	13
9/13 DEG	160	170	170	160	160	170	170	160	150	160	160	150	150	190	180	160	140	130	120	130	110	160	160	170
MPS*10	13	13	18	18	18	18	18	18	4	9	9	13	18	18	27	22	18	22	27	13	18	27	27	27
9/14 DEG	180	180	160	150	150	170	140	150	150	150	150	160	170	150	130	250	260	240	240	120	150	150	140	120
MPS*10	31	22	18	18	18	18	22	27	31	31	31	31	36	36	36	36	49	36	45	31	22	27	36	31

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: W. PITTSBURG, ALLIED CHEM. CODE: PB18

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	260	260	240	240	240	240	250	250	240	250	260	260	260	260	260	270	260	260	240	240	240	240	240	240
MPS*10	63	63	80	80	80	80	85	89	67	67	58	49	49	45	45	45	54	63	58	54	49	67	80	85
9/ 2 DEG	250	250	250	250	250	250	250	250	260	260	260	270	270	260	270	270	270	260	250	210	220	240	240	230
MPS*10	89	94	89	67	67	67	67	80	67	72	67	67	72	76	85	85	85	80	58	54	72	67	67	72
9/ 4 DEG	250	250	240	240	240	240	240	240	240	250	250	260	270	260	270	260	260	230	260	250	260	250	260	250
MPS*10	103	103	89	89	80	80	76	63	63	58	58	67	67	76	80	94	67	45	31	31	49	72	80	80
9/ 5 DEG	260	250	240	240	260	270	260	260	260	260	260	260	260	260	270	260	270	270	250	190	190	190	190	190
MPS*10	80	67	54	72	58	72	63	54	80	85	80	80	80	80	80	80	76	63	-1	-1	-1	-1	-1	-1
9/ 6 DEG	190	190	200	200	200	200	200	200	200	200	200	210	240	270	270	290	250	270	240	220	240	240	230	220
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 9 DEG	220	210	210	200	210	230	260	280	260	70	80	70	50	320	310	270	260	240	230	210	210	230	220	200
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	45	45	58	54	-1	36	36	45	40
9/10 DEG	220	240	250	260	260	250	250	240	240	250	250	260	260	260	270	250	220	250	240	240	230	230	230	240
MPS*10	45	45	54	63	40	40	54	54	67	58	54	40	36	36	36	40	40	45	36	45	27	31	36	27
9/13 DEG	200	220	200	200	200	200	200	200	200	220	250	310	320	310	280	270	260	270	260	250	230	190	180	200
MPS*10	40	40	45	45	40	45	36	31	36	31	40	18	22	27	45	54	49	58	58	45	58	49	54	58
9/14 DEG	190	190	190	190	180	200	200	190	200	210	250	250	250	240	250	250	250	240	220	200	190	180	180	180
MPS*10	45	67	67	72	63	63	54	58	63	54	63	63	63	63	58	58	80	85	89	76	80	89	85	85

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RODEO, UNION OIL CODE: RD19

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	20	20	270	250	250	-1	-1	-1	260	290	300	-1	-1	-1	-1	-1	240	240	230	210	240	240	250	270
MPS*10	13	9	9	18	18	-1	-1	-1	27	13	9	-1	-1	-1	-1	-1	36	40	45	40	27	31	9	18
9/ 2 DEG	-1	-1	-1	220	-1	210	220	260	270	240	240	240	230	230	230	220	210	200	200	200	210	210	220	190
MPS*10	-1	-1	-1	13	-1	18	13	13	18	22	27	31	40	40	45	40	40	40	40	40	36	27	36	45
9/ 4 DEG	220	250	250	230	240	200	210	220	260	270	260	270	270	220	210	220	210	190	180	200	220	220	220	230
MPS*10	49	45	36	36	27	27	36	36	36	27	31	36	36	40	45	49	54	31	27	9	4	27	31	40
9/ 5 DEG	230	230	230	230	230	230	210	220	220	240	250	220	210	220	210	200	200	190	190	190	190	190	180	190
MPS*10	40	45	31	49	36	45	40	49	40	45	40	45	40	40	40	45	49	54	54	54	49	49	45	45
9/ 6 DEG	180	180	180	190	190	190	190	180	200	210	210	210	210	210	210	210	200	200	190	190	200	190	180	180
MPS*10	45	49	45	27	31	40	36	31	36	45	45	45	45	40	36	45	40	40	36	40	27	13	9	4
9/ 9 DEG	200	210	180	190	260	190	190	-1	-1	270	290	250	260	260	250	220	200	210	200	210	200	190	190	180
MPS*10	9	4	18	13	9	4	13	-1	-1	4	4	9	9	9	13	27	45	54	49	40	36	27	27	22
9/10 DEG	200	230	240	230	230	230	230	220	220	220	250	250	250	200	190	200	220	250	260	260	250	250	210	210
MPS*10	27	31	36	18	22	27	22	18	13	18	13	9	4	49	54	27	40	31	27	13	9	9	4	4
9/13 DEG	210	220	210	200	200	200	-1	-1	210	270	250	270	270	250	220	230	220	210	200	240	220	200	200	180
MPS*10	9	13	18	9	9	9	-1	-1	18	22	18	18	22	40	45	40	45	49	45	54	27	22	18	18
9/14 DEG	190	200	200	200	200	200	200	210	220	240	230	230	220	210	210	230	230	220	210	190	190	190	190	190
MPS*10	22	18	27	27	27	27	18	22	31	36	40	40	36	45	54	63	67	76	67	54	45	54	45	54

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: CONCORD BA APCD CODE: CC20

DATE	TIME (PST)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	180	230	320	320	320	90	90	320	50	90	320	320	320	320	320	320	320	270	270	230	140	320	270	270
MPS*10	13	18	9	4	4	4	4	4	4	9	18	27	27	27	27	27	40	36	31	22	22	13	4	13
9/ 2 DEG	230	230	230	230	230	230	230	230	230	-1	-1	-1	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	22	22	27	22	18	22	18	27	31	31	31	40	36	40	40	40	45	58	63	45	45	54	58	63
9/ 4 DEG	230	230	230	230	230	230	230	180	180	180	230	320	320	320	320	230	230	230	230	230	230	230	180	230
MPS*10	13	22	13	13	9	22	18	27	22	18	13	27	27	36	18	40	49	36	27	40	31	31	36	49
9/ 5 DEG	360	360	360	230	230	140	320	320	360	360	360	360	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	22	13	4	9	18	4	4	18	18	13	22	27	36	49	40	54	58	63	67	76	72	67	49	54
9/ 6 DEG	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	40	54	40	31	36	36	40	36	58	63	67	49	49	54	58	67	63	72	45	27	22	22	18	18
9/ 9 DEG	230	140	140	360	50	90	90	90	180	230	320	320	320	320	320	320	270	230	230	230	230	230	230	230
MPS*10	9	9	4	4	4	0	4	4	4	9	18	22	18	18	22	27	31	36	36	31	36	31	27	22
9/10 DEG	230	180	230	230	230	230	320	320	320	320	320	320	320	230	230	230	230	230	230	270	230	230	320	320
MPS*10	13	13	18	27	22	13	9	9	9	9	13	22	13	40	27	36	27	27	18	13	9	9	9	9
9/13 DEG	230	230	180	230	180	230	180	180	180	140	270	320	320	320	320	320	270	230	230	230	230	230	230	230
MPS*10	18	22	22	22	18	22	13	18	13	4	13	18	13	18	27	31	36	36	40	31	36	22	31	40
9/14 DEG	230	230	230	230	230	230	230	230	230	180	230	230	230	270	230	230	230	230	230	230	230	230	230	230
MPS*10	40	40	36	22	31	36	36	36	31	31	27	36	22	31	36	54	63	58	54	49	49	40	36	49

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: VALLEJO BA APCD CODE: VL21

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	320	320	270	270	270	270	270	320	270	230	270	270	230	230	230	230	230	230	230	270	270	270	270	270
MPS*10	18	18	13	13	13	13	9	13	18	18	18	18	18	18	18	18	27	18	22	13	22	18	18	13
9/ 2 DEG	230	270	270	270	270	270	270	270	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	22	13	22	13	18	13	18	18	27	22	31	36	40	40	36	36	40	36	36	31	36	27	36	40
9/ 4 DEG	270	270	270	270	270	270	270	270	270	270	270	230	230	230	230	230	230	230	230	270	270	230	230	230
MPS*10	22	18	18	18	22	13	13	13	18	13	13	27	22	27	27	40	36	22	22	27	27	27	31	18
9/ 5 DEG	230	230	230	230	230	230	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	22	27	13	18	18	18	13	22	22	31	27	31	36	31	36	40	36	40	31	31	31	27	22	31
9/ 6 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	31	27	36	27	18	22	27	31	36	40	36	45	36	36	40	40	36	36	27	18	13	13	9	9
9/ 9 DEG	50	50	50	50	50	50	50	50	180	180	180	180	180	230	230	230	230	230	230	230	230	230	230	230
MPS*10	4	0	4	4	0	0	0	0	4	4	9	13	18	18	22	22	31	36	36	31	18	18	13	9
9/10 DEG	230	270	270	230	270	230	270	270	270	270	270	270	230	230	230	230	230	230	230	230	270	270	270	230
MPS*10	13	13	22	13	18	13	9	4	13	13	13	13	13	27	22	22	27	22	27	13	9	13	13	27
9/13 DEG	230	320	320	320	320	320	320	320	320	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	13	31	4	0	4	0	0	0	4	13	22	18	22	22	36	36	36	31	31	27	22	13	18	13
9/14 DEG	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	13	22	27	22	27	13	22	22	27	27	27	27	27	40	40	49	49	49	31	27	22	36	31	36

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: SAN RAFAEL BA APCD CODE: SR22

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	50	140	50	50	360	360	360	90	140	140	140	140	140	140	140	140	140	140	360	360	360	140	140	140
MPS*10	0	0	0	0	0	0	4	0	9	4	4	13	18	18	18	22	13	13	22	4	9	4	9	4
9/ 2 DEG	140	140	140	90	90	360	360	140	140	140	140	140	140	140	140	140	140	140	140	140	140	90	90	50
MPS*10	9	13	9	9	0	0	0	0	13	13	13	9	13	13	13	22	13	18	13	9	13	9	9	4
9/ 4 DEG	360	360	320	320	320	320	230	140	50	140	140	140	140	140	140	140	140	140	140	140	140	50	50	50
MPS*10	4	0	4	9	9	9	4	4	4	4	13	13	22	27	22	13	22	18	9	13	4	9	0	4
9/ 5 DEG	140	140	50	50	50	50	50	140	140	140	140	140	140	140	140	140	140	140	140	360	360	50	50	50
MPS*10	0	9	0	4	0	4	0	4	0	4	9	18	18	18	22	13	13	13	13	22	9	4	0	4
9/ 6 DEG	50	50	360	360	360	50	140	140	140	140	140	140	140	140	140	140	140	140	140	50	50	360	50	50
MPS*10	4	0	0	0	4	0	0	0	4	9	9	13	22	27	22	22	13	9	18	13	9	0	0	0
9/ 9 DEG	50	360	360	360	360	360	360	360	50	140	140	140	140	140	140	140	140	320	320	360	140	140	140	140
MPS*10	0	4	0	0	4	0	0	0	0	4	0	9	9	13	18	18	13	22	22	18	13	9	9	0
9/10 DEG	230	140	90	140	360	360	360	360	360	360	140	140	140	140	140	140	140	140	90	140	140	140	140	140
MPS*10	0	9	0	0	4	0	4	4	0	0	4	18	18	9	9	4	9	9	4	9	9	0	9	0
9/13 DEG	360	360	360	360	360	360	50	360	140	140	140	140	140	140	140	180	320	320	-1	-1	-1	-1	-1	-1
MPS*10	0	0	0	4	0	0	0	0	0	4	13	18	18	9	18	13	13	-1	-1	-1	-1	-1	-1	-1
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	140	140	140	140	320	320	320	320	320	320	360	360	320	320	320
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	4	18	27	13	27	40	49	54	45	40	40	31	45	45	27

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: SAN FRANCISCO BA APCD CODE: SF23

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	40	40	40	40	40	36	36	31	36	36	31	31	31	45	36	45	58	63	63	58	58	54	63	58
9/ 2 DEG	180	230	270	270	270	270	270	270	230	230	270	270	270	270	270	270	270	270	270	270	270	270	230	270
MPS*10	13	4	9	27	22	18	9	13	18	13	31	36	49	49	72	67	76	67	63	54	72	49	54	54
9/ 4 DEG	270	270	270	270	270	230	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	18	13	22	18	9	13	4	13	22	22	27	31	40	45	45	45	45	40	40	49	54	45	54	45
9/ 5 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	31	27	31	27	27	31	31	36	31	36	36	40	49	54	67	54	54	54	54	45	54	45	45	45
9/ 6 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	40	40	45	36	31	31	40	36	45	45	36	49	45	58	54	63	63	63	45	45	36	22	22	9
9/ 9 DEG	270	230	230	180	230	50	90	90	360	90	90	360	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	4	4	4	4	0	0	4	0	9	9	4	4	18	45	49	49	40	36	36	27	31	45	13	31
9/10 DEG	270	320	270	270	270	270	320	360	360	320	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	31	31	18	27	13	13	13	9	4	4	18	27	27	27	36	31	27	36	40	31	40	31	31	40
9/13 DEG	230	270	270	270	270	270	270	270	140	270	270	270	270	270	270	270	270	270	270	270	270	270	230	270
MPS*10	4	13	9	0	0	9	0	4	9	9	13	18	36	45	49	36	45	45	40	45	36	40	36	18
9/14 DEG	270	230	230	230	270	180	180	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	13	4	4	4	4	4	4	9	9	13	27	40	36	40	63	54	49	58	49	49	40	49	45	40

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: REDWOOD CITY BA APCD CODE: RC24

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	270	270	270	270	270	270	230	180	320	320	320	320	320	320	320	270	320	320	270	270	270	270	270	270
MPS*10	13	13	13	9	9	9	4	9	9	18	13	22	22	27	31	31	27	27	27	27	22	13	18	13
9/ 2 DEG	140	180	180	230	140	140	180	140	140	140	360	320	320	320	320	320	320	320	320	270	270	270	180	140
MPS*10	4	13	9	4	13	9	13	13	9	9	13	22	27	31	31	36	36	31	27	27	27	13	13	9
9/ 4 DEG	270	270	230	140	140	90	90	50	140	50	320	320	320	270	270	320	270	320	320	270	270	270	270	270
MPS*10	18	13	13	18	13	13	9	4	9	13	18	22	27	27	31	36	27	27	22	22	13	9	18	18
9/ 5 DEG	270	270	270	230	230	270	180	90	140	320	320	320	320	320	320	320	270	270	270	270	270	180	140	90
MPS*10	13	4	9	9	9	4	4	9	9	13	13	18	31	27	36	36	36	49	40	31	22	9	18	4
9/ 6 DEG	230	90	90	90	140	50	140	140	50	360	360	320	320	320	270	270	270	270	270	270	320	270	140	140
MPS*10	4	9	4	13	9	4	18	9	13	18	18	22	27	36	36	45	31	31	27	27	18	13	4	4
9/ 9 DEG	140	90	180	180	140	180	180	180	360	320	320	320	320	320	270	270	270	230	270	270	270	50	270	270
MPS*10	9	9	9	9	4	9	4	4	9	9	13	13	22	22	27	31	36	27	22	22	9	13	13	13
9/10 DEG	270	270	50	180	230	270	270	230	270	320	50	360	320	270	320	320	320	270	320	270	270	320	270	270
MPS*10	9	4	4	4	4	9	9	9	13	9	4	13	18	22	27	22	27	18	13	18	13	9	18	13
9/13 DEG	140	140	140	180	180	180	140	180	180	50	360	320	320	270	270	270	270	270	270	270	270	320	140	180
MPS*10	13	9	4	4	9	9	4	9	9	9	18	18	18	31	36	36	36	40	31	36	27	4	13	13
9/14 DEG	180	180	140	140	180	180	140	140	140	360	360	360	270	230	230	230	230	230	180	230	230	230	180	180
MPS*10	9	9	9	9	9	9	9	9	13	18	18	22	31	45	45	45	45	49	40	40	40	27	9	18

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: LIVERMORE BA APCD CODE: LV25

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	180	230	270	360	360	50	50	360	270	230	230	230	180	180	230	230	230	230	230	180	180	180	180	230
MPS*10	9	0	0	0	0	0	4	0	4	0	4	9	9	13	13	18	36	40	31	18	13	18	18	9
9/ 2 DEG	230	230	140	230	140	270	230	230	230	230	230	230	180	230	230	230	230	230	180	230	230	230	230	230
MPS*10	4	4	4	4	0	4	9	4	9	13	13	13	31	22	31	40	36	40	31	31	9	18	18	22
9/ 4 DEG	230	230	230	180	230	270	230	230	140	140	230	230	230	180	230	180	180	230	230	230	230	230	230	270
MPS*10	13	18	13	13	4	9	9	9	4	9	13	13	22	27	27	31	40	36	27	18	18	13	9	13
9/ 5 DEG	230	230	270	270	270	230	230	140	230	230	230	230	230	180	180	230	230	180	180	230	180	230	230	180
MPS*10	18	18	13	18	13	9	9	0	4	13	13	22	22	31	45	45	36	36	27	27	22	22	22	-1
9/ 6 DEG	180	230	230	230	90	140	230	230	180	230	230	180	180	230	230	230	230	180	230	180	180	230	140	140
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 9 DEG	140	90	140	140	140	140	140	230	230	230	180	140	140	180	230	230	230	230	180	230	230	230	230	230
MPS*10	0	4	0	4	0	0	0	0	4	0	4	18	9	13	18	31	36	49	45	27	18	18	13	9
9/10 DEG	230	230	270	140	50	90	50	140	180	230	230	180	180	180	180	180	180	180	230	230	230	230	230	230
MPS*10	0	4	4	0	0	4	0	0	4	4	4	9	22	27	27	31	27	27	22	18	22	13	4	9
9/13 DEG	230	230	230	180	140	140	140	140	140	230	230	180	230	230	230	230	230	230	230	230	230	230	230	180
MPS*10	9	4	4	4	4	0	4	0	4	13	13	9	13	18	18	31	40	45	36	31	22	22	18	18
9/14 DEG	230	230	180	230	50	140	140	230	230	180	230	180	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	9	9	4	13	9	4	4	4	9	18	18	22	27	31	45	49	54	58	54	67	45	58	58	45

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: FREMONT BA APCD CODE: FR26

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	360	320	360	360	360	50	50	90	140	180	180	230	320	320	320	270	270	270	270	320	360	360	360	360
MPS*10	0	4	4	0	4	0	0	0	4	4	4	9	13	18	18	18	18	18	18	13	9	9	4	4
9/ 2 DEG	50	50	50	50	140	140	140	140	140	180	230	230	230	270	320	320	320	320	320	320	360	360	320	320
MPS*10	0	0	0	4	0	0	0	4	13	13	13	9	18	22	27	27	22	27	22	13	13	9	13	13
9/ 4 DEG	320	360	360	50	50	230	320	50	50	230	270	270	270	270	270	320	320	270	320	320	320	320	320	320
MPS*10	4	13	9	4	4	4	4	4	4	4	13	18	18	18	22	31	27	18	13	9	4	9	9	9
9/ 5 DEG	320	320	320	320	320	50	140	50	270	270	320	270	270	270	270	270	360	320	320	360	360	360	50	90
MPS*10	9	9	4	0	0	0	4	0	4	13	13	18	22	22	18	27	31	27	18	18	18	13	0	4
9/ 6 DEG	50	230	140	180	180	140	50	230	140	230	230	230	270	270	320	320	320	320	320	320	320	320	230	50
MPS*10	0	4	4	4	4	0	0	4	4	9	9	18	18	22	22	27	22	27	22	13	9	4	4	0
9/ 9 DEG	140	50	50	140	50	50	50	50	230	230	230	230	320	320	320	270	320	320	360	360	50	320	230	320
MPS*10	4	0	4	0	0	4	0	0	0	4	9	13	13	22	22	27	27	27	27	13	4	9	4	4
9/10 DEG	230	180	50	140	50	320	50	50	320	320	230	320	320	320	320	320	320	320	320	320	270	320	320	320
MPS*10	0	4	0	4	0	0	0	0	4	4	4	9	9	13	27	13	18	13	13	9	9	9	4	13
9/13 DEG	320	50	50	140	50	50	90	50	270	140	230	270	270	270	320	320	360	320	320	320	320	320	50	50
MPS*10	0	4	0	0	0	0	0	0	4	4	9	9	18	22	27	31	36	27	27	27	18	13	9	0
9/14 DEG	50	50	50	50	50	140	140	50	230	230	230	320	270	320	320	320	320	320	320	230	230	270	270	320
MPS*10	0	0	0	4	0	0	0	4	9	4	13	13	22	22	27	31	36	36	13	18	22	13	13	9

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: PITTSBURG BA APCD CODE: PB27

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	360	360	360	50	360	320	320	320	360	360	360	320
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	18	27	27	31	36	45	40	40	27	36	40	31
9/ 2 DEG	320	270	230	140	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230	230	230	270	270
MPS*10	36	45	18	9	9	27	36	36	45	45	49	54	54	58	54	54	54	45	45	27	27	31	45	45
9/ 4 DEG	320	320	270	270	270	270	270	270	270	270	230	270	270	270	270	270	230	230	270	270	270	270	230	270
MPS*10	58	54	58	54	45	36	31	36	36	36	27	45	49	54	49	45	40	31	31	18	36	31	40	58
9/ 5 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230	230	180	180	180	230
MPS*10	49	36	27	40	40	36	49	49	54	45	49	54	40	49	54	49	49	54	54	31	40	36	27	54
9/ 6 DEG	180	180	230	230	230	230	230	230	230	230	230	230	230	270	230	230	230	270	230	230	270	230	320	270
MPS*10	58	63	45	18	27	31	45	31	36	45	36	36	31	31	36	49	45	45	40	31	27	22	31	27
9/ 9 DEG	270	270	270	270	270	90	140	50	50	50	50	50	50	270	270	270	270	270	230	230	230	270	270	230
MPS*10	9	9	4	0	9	9	4	4	4	9	13	13	13	18	22	27	31	40	45	54	45	31	31	58
9/10 DEG	230	230	270	270	270	270	270	320	320	320	270	270	320	320	270	270	270	270	230	230	270	270	270	270
MPS*10	54	36	27	22	18	27	36	40	31	45	27	22	27	22	27	27	40	31	22	22	27	18	22	18
9/13 DEG	230	230	230	230	270	270	270	270	230	270	320	320	320	320	320	270	270	270	230	230	270	270	230	270
MPS*10	36	18	36	27	18	18	4	18	27	22	22	22	13	22	27	36	31	45	36	40	31	22	31	22
9/14 DEG	320	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
MPS*10	22	40	45	40	36	49	45	31	31	40	45	49	49	49	45	58	63	63	72	63	67	58	58	54

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RANCHO SECO NUCLEAR SITE CODE: RS28

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	230	210	170	160	140	150	160	160	160	120	0	10	280	240	270	270	270	270	280	270	270	260	270	180
MPS*10	9	18	13	9	18	13	13	9	13	9	-1	18	40	22	36	40	45	45	40	40	31	40	27	9
9/ 2 DEG	240	210	110	150	170	20	360	0	350	280	260	270	270	260	280	280	280	270	270	260	250	230	230	170
MPS*10	27	18	27	27	22	18	22	27	22	27	22	27	27	31	40	40	45	45	40	36	36	45	31	18
9/ 4 DEG	310	350	300	340	340	40	40	20	340	260	240	230	240	280	280	270	270	270	260	270	300	180	320	30
MPS*10	13	22	27	18	22	13	18	18	18	22	27	27	27	31	36	40	36	40	40	49	36	18	18	18
9/ 5 DEG	260	20	180	220	150	170	360	50	40	320	280	280	280	300	270	280	280	250	250	240	250	250	220	210
MPS*10	13	18	18	18	22	13	18	22	18	22	27	27	27	31	27	36	31	31	31	36	36	27	27	31
9/ 6 DEG	230	200	180	110	150	180	180	160	260	270	270	250	230	240	270	260	270	280	280	280	250	200	260	280
MPS*10	22	18	9	22	49	40	27	18	31	31	27	40	36	36	40	31	36	40	31	27	13	9	22	27
9/ 9 DEG	80	110	60	70	80	70	70	160	340	350	340	330	310	320	310	300	290	300	300	260	230	220	200	170
MPS*10	13	18	22	31	13	22	13	9	22	36	40	40	49	54	49	49	49	49	40	27	22	31	49	40
9/10 DEG	180	170	160	160	140	70	30	350	330	330	290	210	170	180	200	240	270	270	270	260	270	0	40	60
MPS*10	40	27	40	45	31	22	18	22	18	13	13	13	45	58	49	40	40	36	36	31	22	18	31	36
9/13 DEG	270	20	20	90	150	160	160	170	150	230	250	260	300	-1	300	310	320	340	320	310	270	260	260	200
MPS*10	22	13	13	9	13	13	13	9	4	9	13	18	31	-1	36	36	36	36	31	22	18	36	36	36
9/14 DEG	120	160	180	200	250	170	200	300	70	210	220	230	240	240	240	220	240	250	240	240	230	200	160	140
MPS*10	36	40	40	27	27	36	27	22	22	22	22	31	36	31	36	31	40	45	54	54	45	45	49	54

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: SACRAMENTO (CALTRANS) CODE: SA29

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	130	130	140	130	150	90	90	70	70	170	310	330	300	280	310	300	240	240	240	220	220	220	210	150
MPS*10	13	13	13	4	4	9	13	9	9	13	9	13	18	18	18	22	22	22	18	13	13	13	4	9
9/ 2 DEG	150	130	150	180	200	190	170	190	180	180	180	210	220	200	200	200	210	210	200	200	180	210	160	160
MPS*10	18	18	18	13	18	13	18	13	13	13	22	22	22	22	22	22	27	27	18	22	22	27	22	27
9/ 4 DEG	140	150	150	180	180	180	150	120	240	220	200	180	190	200	230	210	150	190	220	200	150	150	150	160
MPS*10	31	27	22	18	13	13	9	13	9	9	18	13	18	18	27	27	36	31	36	27	18	22	22	18
9/ 5 DEG	160	140	150	130	140	120	150	200	210	190	200	190	200	220	230	210	180	190	180	180	180	180	180	180
MPS*10	22	18	27	22	27	22	22	18	22	18	18	18	18	27	31	36	31	36	36	31	36	31	31	45
9/ 6 DEG	180	180	170	190	190	180	180	190	190	210	230	260	260	220	240	240	230	220	210	210	200	190	240	110
MPS*10	40	40	27	22	22	27	22	31	22	22	31	31	27	31	22	27	22	22	13	22	13	9	9	9
9/ 9 DEG	90	50	90	0	330	330	330	350	340	340	320	330	320	320	330	330	330	330	240	180	200	210	170	140
MPS*10	4	9	9	0	4	9	13	22	22	27	31	36	31	31	31	27	18	9	4	18	27	27	18	27
9/10 DEG	130	120	140	150	150	170	160	180	190	190	180	170	180	190	210	220	220	220	240	210	120	30	80	100
MPS*10	22	22	27	27	13	13	18	13	13	18	22	31	31	31	27	22	18	18	18	9	4	9	9	22
9/13 DEG	230	180	120	150	150	160	150	160	230	310	330	320	320	310	330	350	50	50	160	270	240	230	200	130
MPS*10	13	9	9	13	13	13	13	13	4	9	13	18	22	22	22	13	13	9	9	22	22	22	13	18
9/14 DEG	130	160	170	150	140	130	130	140	150	170	180	190	240	240	210	180	200	210	210	210	190	190	180	150
MPS*10	18	18	22	18	18	22	18	27	22	27	22	22	22	22	22	22	27	40	49	45	40	40	36	31

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: DAVIS (CALTRANS) CODE: DV30

DATE	TIME (PCT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	210	180	140	110	190	320	350	320	360	120	290	300	300	300	300	190	200	210	210	200	180	150	180	160
MPS*10	36	13	13	13	13	9	9	13	13	13	13	22	18	18	18	13	22	31	36	31	27	22	27	18
9/ 2 DEG	130	140	130	140	170	180	210	300	300	190	200	210	220	180	170	170	180	180	180	170	180	180	180	170
MPS*10	31	36	40	31	27	18	13	13	13	13	18	22	27	22	22	31	40	49	40	49	49	49	45	40
9/ 4 DEG	140	170	160	170	160	180	280	300	330	90	140	180	120	170	220	170	160	180	200	200	170	110	130	150
MPS*10	31	31	31	27	18	18	13	18	18	13	18	13	18	27	36	36	49	49	45	49	31	31	40	31
9/ 5 DEG	190	180	190	130	160	200	190	190	210	170	170	170	180	190	190	190	180	190	190	190	180	180	170	170
MPS*10	27	31	27	36	36	40	18	18	22	27	31	49	54	54	49	49	54	58	49	63	49	45	45	49
9/ 6 DEG	170	180	180	200	180	170	170	200	270	290	300	300	300	300	270	210	210	210	210	200	180	150	150	150
MPS*10	63	63	67	72	49	27	22	18	22	27	36	31	31	31	31	27	31	31	36	27	22	22	22	9
9/ 9 DEG	110	180	20	310	310	330	350	350	350	340	350	330	350	310	310	330	30	120	140	150	200	210	210	180
MPS*10	13	13	13	13	22	18	22	36	45	45	45	40	36	27	18	13	13	18	27	31	45	40	36	31
9/10 DEG	120	110	120	130	160	180	180	190	300	330	290	240	210	180	210	210	200	200	200	210	40	60	150	180
MPS*10	27	31	36	40	36	40	40	22	22	22	13	13	22	36	40	40	31	27	18	22	13	13	9	13
9/13 DEG	200	210	150	140	120	150	240	330	40	330	310	320	300	300	300	330	190	140	190	210	190	210	220	150
MPS*10	18	18	13	22	18	13	13	9	22	18	22	22	27	18	18	18	18	27	27	31	31	31	45	27
9/14 DEG	120	120	140	140	130	140	120	120	150	210	220	300	270	270	150	180	190	190	190	190	190	190	190	180
MPS*10	31	27	31	31	27	27	22	22	22	13	18	27	18	27	27	31	54	72	76	67	67	67	63	45

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: WILTON (CALTRANS) CODE: WT31

DATE	TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	300	300	280	270	250	240	220	130	130	170	120	110	180	180	120	100	180	180	220	270	270	270	260	240
MPS*10	31	27	22	13	13	18	9	13	18	13	13	13	18	13	13	4	13	9	13	18	27	31	31	36
9/ 2 DEG	230	230	210	210	200	170	120	180	160	150	200	220	280	320	320	270	210	210	210	210	210	210	210	210
MPS*10	49	54	36	40	36	18	18	22	27	13	13	13	13	18	13	13	22	27	27	27	31	31	31	36
9/ 4 DEG	200	200	200	180	180	170	110	130	150	190	190	110	110	190	160	210	180	180	180	200	210	180	200	200
MPS*10	49	49	31	27	31	22	27	22	22	18	9	18	22	18	13	4	13	27	22	27	22	27	36	31
9/ 5 DEG	200	180	190	180	160	170	150	120	150	150	100	100	90	90	20	90	150	210	200	230	240	240	230	230
MPS*10	40	40	31	31	22	27	13	13	18	27	31	36	22	18	22	9	18	31	18	22	18	27	36	36
9/ 6 DEG	200	210	190	180	180	170	170	170	160	160	180	140	120	120	120	90	200	200	-1	-1	-1	-1	-1	-1
MPS*10	31	36	31	40	31	40	31	31	31	31	40	27	18	13	9	18	27	36	-1	-1	-1	-1	-1	-1
9/ 9 DEG	80	80	330	70	340	230	340	330	330	330	330	330	320	290	300	300	300	280	240	220	190	160	130	130
MPS*10	9	9	9	9	9	9	18	36	31	40	40	45	45	45	45	40	45	22	9	31	31	36	31	31
9/10 DEG	100	120	130	150	90	30	250	240	240	240	190	190	190	190	230	250	270	240	250	250	270	30	260	120
MPS*10	27	36	31	13	13	4	9	9	13	13	27	36	31	36	40	31	31	27	27	22	9	22	9	13
9/13 DEG	240	250	270	330	70	120	150	130	150	90	180	240	260	230	280	310	310	310	300	360	200	230	240	240
MPS*10	22	13	9	9	13	18	13	13	9	9	9	13	13	22	27	27	27	27	27	18	9	13	45	45
9/14 DEG	210	90	90	150	170	180	120	110	150	150	160	180	220	230	240	220	230	230	220	200	180	150	140	140
MPS*10	45	18	27	22	27	27	22	18	13	27	31	31	36	31	36	40	45	58	54	49	40	45	31	45

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RIC VISTA YS APCC CODE: RV32

DATE	TIME (PCT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	270	270	270	270	270	270	270	270	270	270	320	320	320	50	50	50	230	230	230	270	270	270	270	270
MPS*10	45	49	49	49	45	45	45	36	36	36	22	22	22	18	18	18	22	22	22	45	45	45	45	45
9/ 2 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	54	45	45	45	31	31	31	36	36	36	40	40	40	27	27	27	45	45	45	45	45	45	40	40
9/ 4 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
MPS*10	45	45	45	45	49	49	49	45	45	45	22	22	22	40	40	40	49	49	49	31	31	31	36	36
9/ 5 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230	230	230	230
MPS*10	36	49	49	49	45	45	45	27	27	27	31	31	31	31	31	31	45	45	45	36	36	36	45	45
9/ 6 DEG	230	230	230	230	270	270	270	270	270	270	270	270	270	230	230	230	270	270	270	270	270	270	270	270
MPS*10	45	22	22	22	36	36	36	40	40	40	27	27	27	27	27	27	22	22	22	36	36	36	36	36
9/ 9 DEG	270	270	270	270	230	230	230	360	360	360	360	360	360	360	360	360	140	140	140	270	270	270	270	270
MPS*10	27	27	27	27	9	9	9	22	22	22	22	22	22	18	18	18	18	18	18	45	45	45	49	49
9/10 DEG	270	270	270	270	230	230	230	230	230	230	270	270	270	230	230	230	270	270	270	270	270	270	270	270
MPS*10	49	36	36	36	27	27	27	27	27	27	31	31	31	22	22	22	36	36	36	36	36	36	22	22
9/13 DEG	270	270	270	270	270	270	270	270	270	270	360	360	360	50	50	50	270	270	270	270	270	270	270	270
MPS*10	27	40	40	40	31	31	31	27	27	27	18	18	18	18	18	18	27	27	27	40	40	40	45	45
9/14 DEG	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	230	230
MPS*10	45	49	49	49	36	36	36	45	45	45	36	36	36	36	36	36	54	54	54	54	54	54	27	27

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: WOODLAND YS APCD CODE: WD33

DATE	TIME (PST)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	140	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	180	180	180	180	180	180	320
MPS*10	4	4	4	9	9	9	9	13	13	9	9	9	9	13	13	13	13	9	9	22	22	4	4	4
9/ 2 DEG	180	140	140	140	140	140	140	50	50	360	360	90	90	90	90	90	90	180	180	140	140	140	140	140
MPS*10	13	22	22	18	18	9	9	9	9	13	13	13	13	13	13	9	9	18	18	13	13	13	13	9
9/ 4 DEG	140	90	90	360	360	320	320	320	320	360	360	50	50	140	140	140	140	140	140	180	180	140	140	140
MPS*10	13	9	9	9	9	4	4	9	9	13	13	9	9	18	18	22	22	31	31	40	40	27	27	22
9/ 5 DEG	140	230	230	140	140	140	140	270	270	230	230	320	320	140	140	140	140	180	180	180	180	180	180	180
MPS*10	22	4	4	4	4	4	4	4	4	9	9	9	9	22	22	27	27	27	27	36	36	31	31	27
9/ 6 DEG	180	140	140	180	180	180	180	90	90	360	360	360	360	360	360	360	360	360	360	180	180	180	180	180
MPS*10	27	22	22	54	54	27	27	4	4	27	27	36	36	36	36	18	18	13	13	18	18	9	9	4
9/ 9 DEG	230	90	90	140	140	320	320	360	360	360	360	360	360	360	360	360	360	360	360	140	140	140	140	180
MPS*10	4	4	4	4	4	4	4	13	13	45	45	45	45	31	31	18	18	9	9	9	9	9	9	13
9/10 DEG	180	140	140	140	140	140	140	180	180	360	360	360	360	360	360	140	140	180	180	140	140	180	180	140
MPS*10	13	13	13	13	13	13	13	18	18	18	18	31	31	13	13	22	22	31	31	9	9	4	4	4
9/13 DEG	180	270	270	50	50	50	50	50	50	360	360	360	360	360	360	360	360	140	140	140	140	180	180	180
MPS*10	4	4	4	4	4	4	4	4	4	9	9	13	13	9	9	9	9	9	9	13	13	13	13	13
9/14 DEG	180	140	140	140	140	140	140	140	140	50	50	90	90	360	360	180	180	140	140	180	180	180	180	180
MPS*10	13	13	13	18	18	4	4	4	4	4	4	9	9	4	4	18	18	36	36	45	45	40	40	45

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: STOCKTON APCD CODE: SK35

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	310	310	340	40	50	50	40	10	40	340	320	320	310	310	310	310	310	320	310	310	310	310	310	320
MPS*10	9	4	0	4	0	4	4	0	0	4	4	9	4	4	9	9	9	9	9	9	9	9	4	4
9/ 2 DEG	50	40	50	50	300	310	320	330	10	360	330	330	320	310	310	310	320	310	310	310	280	270	300	280
MPS*10	4	4	4	0	0	4	4	4	4	0	4	4	4	4	4	9	9	9	9	9	4	4	4	4
9/ 4 DEG	0	320	320	320	320	330	10	20	10	330	310	310	310	310	310	320	340	330	320	320	320	330	330	40
MPS*10	4	4	9	9	4	4	0	4	4	4	9	4	4	9	9	9	9	9	9	9	9	4	4	4
9/ 5 DEG	30	320	310	310	310	330	320	40	340	330	320	320	320	340	300	300	310	310	320	310	310	270	250	250
MPS*10	4	4	9	4	4	4	4	4	0	4	4	4	4	4	4	4	4	4	4	4	4	9	13	13
9/ 6 DEG	240	270	270	240	230	230	270	270	290	290	10	340	300	310	320	310	310	310	310	320	310	310	300	320
MPS*10	13	9	9	9	4	4	4	4	4	4	4	4	4	4	4	4	9	9	4	9	9	9	4	4
9/ 9 DEG	310	30	30	10	340	330	320	320	310	320	330	320	320	320	320	320	320	320	320	310	300	230	230	240
MPS*10	4	4	0	4	0	4	4	4	4	9	4	4	9	9	9	9	9	9	9	4	4	4	9	4
9/10 DEG	310	350	130	20	30	350	310	260	320	360	50	80	60	30	80	330	10	20	310	320	320	320	330	310
MPS*10	4	0	4	0	0	0	4	0	4	4	0	0	4	0	4	4	4	0	4	4	4	4	0	4
9/13 DEG	310	310	310	300	110	50	130	170	130	20	330	310	310	320	330	320	350	340	10	20	320	310	310	280
MPS*10	9	9	4	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	9	9	4
9/14 DEG	290	280	80	40	330	220	230	170	50	10	160	240	310	310	310	310	290	230	240	230	230	240	250	240
MPS*10	4	0	0	0	0	4	4	0	0	0	0	0	4	4	9	4	4	9	13	13	13	13	13	13

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: TRAVIS AIR FORCE BASE CODE: TR36

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	240	230	230	230	230	230	230	240	250	340	30	290	260	230	-1	-1	-1	-1	-1	-1	220
MPS*10	0	0	0	31	27	27	27	22	9	22	13	9	13	9	13	9	31	0	0	0	0	0	0	31
9/ 2 DEG	-1	-1	-1	230	230	230	230	240	240	240	230	240	240	250	230	240	240	230	-1	-1	-1	-1	-1	240
MPS*10	0	0	0	72	63	40	36	40	45	31	45	45	40	40	40	40	54	63	0	0	0	0	0	76
9/ 4 DEG	-1	-1	-1	230	240	250	250	-1	300	240	250	240	240	240	240	240	250	220	230	-1	-1	-1	-1	250
MPS*10	0	0	0	63	63	40	31	0	31	40	40	27	27	40	36	58	54	63	54	0	0	0	0	76
9/ 5 DEG	-1	-1	-1	240	230	220	240	260	240	250	240	240	240	-1	230	240	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	0	0	0	63	63	54	40	31	40	45	40	54	58	0	40	40	0	0	0	0	0	0	0	0
9/ 6 DEG	-1	-1	-1	-1	-1	240	-1	-1	240	250	-1	250	240	260	260	250	260	250	240	-1	-1	-1	-1	240
MPS*10	0	0	0	0	0	63	0	0	67	63	0	54	31	22	9	9	9	9	27	0	0	0	0	22
9/ 9 DEG	-1	-1	-1	0	-1	0	-1	0	0	0	20	20	30	20	330	0	260	230	250	-1	-1	-1	-1	240
MPS*10	0	0	0	0	0	0	0	0	0	0	13	31	13	22	9	0	13	31	72	0	0	0	0	54
9/10 DEG	-1	-1	-1	220	220	230	240	-1	240	230	280	0	180	240	240	240	230	230	220	-1	-1	-1	-1	0
MPS*10	0	0	0	63	63	40	54	0	54	40	13	0	9	31	27	40	40	54	40	0	0	0	0	0
9/13 DEG	-1	-1	-1	230	220	220	0	0	220	240	320	10	320	-1	360	210	230	230	250	-1	-1	-1	-1	230
MPS*10	0	0	0	31	27	22	0	0	4	22	13	9	22	0	9	13	40	54	63	0	0	0	0	76
9/14 DEG	-1	-1	-1	-1	220	230	-1	240	230	230	230	230	230	220	220	240	240	240	250	-1	-1	-1	-1	230
MPS*10	0	0	0	0	54	54	0	63	54	45	54	45	40	40	54	72	89	89	103	0	0	0	0	67

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: RANCHO SECO TOWER CODE: RS57

DATE		TIME (PDT) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31	DEG	300	300	270	240	140	150	220	240	220	0	0	30	270	280	270	280	270	270	280	270	280	270	270	340
	STD DEV	25A	10D	17C	17C	39A	75A	14C	7E	25A	0F	0F	18B	47A	22B	14C	12D	10D	11D	8D	3F	4E	4E	8D	48A
	MPS*10	18	27	13	13	9	9	9	18	13	-1	-1	72	40	22	40	49	49	49	45	54	58	76	63	22
9/ 2	DEG	240	230	170	180	210	310	320	350	340	270	250	270	260	260	270	280	280	270	270	260	250	240	240	220
	STD DEV	17C	16C	22B	20B	23A	17C	5E	10D	15C	22B	16C	14C	21B	17C	17C	13C	10D	6E	6E	3F	4E	6E	5E	40A
	MPS*10	27	18	13	27	22	22	31	45	36	27	22	27	31	36	45	45	45	49	40	40	54	72	54	22
9/ 4	DEG	250	300	290	310	310	270	300	320	310	270	230	230	240	270	270	270	270	260	260	270	280	210	290	20
	STD DEV	29A	14C	9D	20B	17C	25A	24A	20B	12D	16C	16C	20B	18B	16C	16C	14C	14C	14C	13C	7E	50A	67A	27A	25A
	MPS*10	18	22	31	27	31	9	18	27	18	18	27	27	31	36	40	45	40	45	45	49	45	27	27	22
9/ 5	DEG	320	340	230	220	180	220	330	0	360	310	290	290	290	300	270	280	270	250	250	240	250	240	220	220
	STD DEV	32A	35A	31A	33A	23A	35A	55A	15C	10D	23A	14C	14C	15C	14C	17C	12D	15C	19B	14C	13C	4E	7E	13C	11D
	MPS*10	13	18	18	27	27	13	18	22	22	27	27	27	31	31	31	40	36	36	36	36	54	54	45	45
9/ 6	DEG	240	230	230	110	160	190	200	210	270	270	270	240	230	250	270	270	270	280	280	280	270	280	270	280
	STD DEV	10D	11D	20B	17C	12D	24A	9D	20B	12D	11D	17C	16C	16C	22B	18B	19B	16C	14C	14C	10D	5E	10D	10D	9D
	MPS*10	31	31	27	22	67	54	45	18	45	31	27	40	40	40	40	36	40	45	36	31	27	18	36	40
9/ 9	DEG	180	180	70	60	70	70	80	150	30	340	330	320	310	310	310	300	300	300	300	270	260	240	210	200
	STD DEV	68A	19B	47A	6E	5E	9D	14C	45A	50A	9D	6E	11D	11D	9D	12D	12D	11D	10D	12D	6E	24A	7E	5E	11D
	MPS*10	13	9	22	49	40	45	31	4	31	40	40	45	49	58	58	58	58	58	49	49	40	72	80	67
9/10	DEG	210	210	180	180	190	90	60	360	300	300	320	220	170	150	200	230	280	270	270	260	270	340	40	60
	STD DEV	16C	16C	14C	11D	23A	31A	11D	22B	11D	15C	40A	49A	14C	15C	10D	23A	10D	8D	3F	8D	18B	18B	17C	3F
	MPS*10	67	40	45	54	36	18	40	22	27	18	13	18	49	63	54	45	40	40	49	45	31	22	49	58
9/13	DEG	270	290	320	360	150	170	200	250	190	240	270	280	300	-1	300	310	310	320	310	310	270	-1	-1	-1
	STD DEV	5E	13C	28A	27A	58A	15C	27A	11D	22B	31A	23A	29A	16C	-1-	17C	25A	27A	19B	15C	11D	14C	-1-	-1-	-1-
	MPS*10	49	18	18	18	9	9	9	13	4	9	13	18	36	-1	36	36	40	36	36	27	22	-1	-1	-1
9/14	DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	220	220	240	240	240	240	220	240	250	240	240	230	210	180	160
	STD DEV	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	-1-	15C	20B	15C	15C	19B	21B	22B	16C	14C	11D	8D	7E	15C	8D	10D
	MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	27	27	36	40	36	36	36	45	49	58	63	63	67	63	63

-1 INDICATES NO DATA AVAILABLE, -9 INDICATES STD. DEV. GREATER THAN 99 DEGREES

TABLE 18

6.2 Montezuma Hills Pibal Summary

The following pibal data were obtained from MRI; the Oakland upper air data were obtained from the ARB.

Oakland Upper Air Data
National Weather Service

Time:		0500 PDT		1700 PDT	
Date	Height (m)	Wind Direction (deg)	Wind Speed (m/sec)	Wind Direction (deg)	Wind Speed (m/sec)
8/31/76	0	0	0	280	4.5
	305	310	1.3	300	4.0
	610	320	3.6	310	3.1
9/2/76	0	320	2.7	310	3.6
	305	290	1.3		
	610	310	0.9		
9/5/76	0	300	1.3		
	305	220	3.6		
	610	210	6.7		
9/6/76	0			300	3.6
	305			280	5.4
	610			260	4.5
9/9/76	0	0	0	300	4.0
	305	210	0.9	290	5.4
	610	240	0.9	270	3.6
9/10/76	0	240	1.3	310	4.5
	305	210	2.7	300	5.4
	610	240	2.7	280	5.8
9/13/76	0	100	2.2	290	3.6
	305	250	0.9	290	5.4
	610	310	1.3	300	2.7
9/14/76	0	110	2.2	240	5.4
	305	190	2.7	270	5.4
	610	290	4.0	300	7.6

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1125		1200		1300		1400		1500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	299	3.8	307	4.9	279	3.9	268	4.5	268	2.9
211	339	3.2	337	3.3	304	2.5	293	3.8	282	2.1
314			012	2.3	318	1.9	321	3.1	274	1.9
415			006	1.6	314	1.3	338	1.8	272	1.6
515			333	1.6	317	1.4	337	0.6	271	1.1
613			353	1.3	348	1.3	256	0.8	284	1.5
709			051	1.4	019	0.4	255	1.2	294	2.3
804			081	1.5	228	0.3	282	1.1	310	2.7
897			088	1.2	258	1.3	299	1.7	324	3.3
990			039	0.2	278	2.4	331	0.7	320	4.0
1080			276	1.1	303	3.0	306	3.4	312	4.9
1170			297	1.9	310	3.4	309	6.5	314	5.2
1260			310	3.3	311	4.6	318	5.7	316	4.4
1350			314	4.6	317	5.9	316	6.3	304	2.9
1440			308	4.4	319	5.7	317	6.4	290	4.0
1530			293	4.0	311	4.5	317	5.6	292	5.6
1620					298	3.7	310	4.4	292	6.0
1710					292	4.4	294	4.4	289	6.8
1800					293	5.6	288	5.3	285	5.6
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1600		1700							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	271	3.4	277	10.2						
211	270	4.0	271	9.5						
314	261	4.3	260	8.3						
415	264	3.6	256	7.8						
515	285	2.7	255	6.1						
613	287	2.6	256	5.1						
709	289	2.5	254	4.5						
804	304	2.6	249	3.3						
897	320	3.5	248	3.1						
990	329	4.0	256	3.4						
1080	326	4.3	292	2.4						
1170	318	4.4	315	2.4						
1260	312	3.9	304	2.5						
1350	299	3.6	306	3.3						
1440	290	3.7	304	4.0						
1530	293	4.6	300	3.6						
1620	295	5.9	287	3.4						
1710	293	6.9	280	3.9						
1800	290	7.4	284	4.9						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1000		1100		1315		1400		1500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	271	3.4	291	2.8	311	1.8	309	1.6	323	1.2
211	286	4.0	293	3.3	293	2.1	289	2.9	305	2.2
314	305	4.4	302	3.5	270	2.5	264	2.3	304	2.2
415	316	3.9	318	3.1	271	2.5	266	3.0	298	1.8
515	302	2.5	324	2.7	288	1.9	263	3.7	276	1.4
613	301	1.8	002	2.2	300	1.4	261	2.0	265	2.3
709	335	1.9	035	2.3	309	1.1	283	1.3	273	3.6
804	357	1.5	030	1.1	306	0.7	270	1.6	282	4.3
897	045	1.1	042	0.5	277	0.7	265	1.6	285	4.9
990	075	0.6	221	0.2	263	1.0	268	1.9	288	5.5
1080	175	0.6	197	0.4	266	1.8	274	2.2	296	6.0
1170	171	1.1	232	0.8	281	3.3	276	2.9	302	5.3
1260	162	1.4			290	4.8	280	4.1	304	4.6
1350	201	1.7			288	5.0	290	5.1	293	3.5
1440	239	2.4			276	4.1	295	5.4	273	3.0
1530	259	3.3			265	3.9	296	4.8	270	4.0
1620	272	4.0			264	4.6	285	4.3	272	4.9
1710	264	4.4			263	4.9	272	4.2	273	6.0
1800	247	4.0			264	5.0	271	5.4	271	7.0
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1545		1645		1745					
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	184	1.6	208	4.5	233	7.2				
211	220	0.7	218	4.8	239	7.8				
314	267	1.4	225	4.1	248	7.2				
415	270	2.0	236	2.6	264	5.8				
515	281	2.0	261	1.9	280	6.0				
613	275	2.0	275	2.4	285	6.1				
709	257	2.4	270	3.7	289	4.4				
804	271	3.5	266	5.0	298	3.4				
897	292	5.2	273	5.4	289	2.7				
990	298	5.6	286	4.9	263	2.7				
1080	295	4.3	289	3.6	242	3.2				
1170	284	3.5	278	2.6	232	3.8				
1260	270	3.5	267	2.9	240	3.6				
1350	267	3.9	258	3.2	248	3.6				
1440	272	4.4	264	3.5	261	3.7				
1530	274	5.2	277	4.2	273	4.5				
1620	272	6.2	272	5.6	278	5.0				
1710	273	6.4	273	6.3	280	5.3				
1800	273	5.0	274	6.2	283	5.5				
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1000		1100		1200		1300		1400	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	273	1.5	219	0.8	201	1.3	332	1.6	280	3.0
211	273	1.5	239	0.3	196	1.4	344	1.8	275	2.6
314	284	1.3			198	1.7	334	2.0	252	2.3
415	327	1.4					327	2.1	232	1.7
515	357	1.7					333	1.9	243	1.1
613	019	1.5					343	2.5	296	1.4
709	042	1.1					357	1.8	330	1.9
804	068	1.1					060	0.9	333	3.4
897	055	0.5							322	4.2
990	281	0.9							307	3.6
1080	297	1.7								
1170	326	1.6								
1260	347	0.7								
1350										
1440										
1530										
1620										
1710										
1800										
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 31 August 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1500		1600		1700		1800			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	281	3.6	263	4.5	252	5.0	266	7.5		
211	272	2.0	264	3.4	258	5.5	265	6.2		
314	289	1.5	251	2.9	261	6.4	254	4.3		
415	320	0.7	246	2.5	264	6.9	253	4.8		
515	149	0.7	242	1.7	266	6.1	258	5.5		
613	168	0.7	254	1.5	268	4.5	274	5.1		
709	189	0.1	311	1.0	273	3.4	298	4.6		
804	283	0.1	348	1.3	299	1.9	314	3.4		
897	274	0.2	359	1.7	339	1.6	318	3.5		
990	327	1.8	023	2.4	340	2.7	330	4.0		
1080	348	3.4	032	3.6	342	2.1	330	4.3		
1170	355	3.0	022	3.6	350	4.2	313	5.0		
1260	328	3.3	347	3.0	339	6.6	303	5.5		
1350	308	4.4	322	3.6	319	5.6	302	6.6		
1440	298	4.6	307	4.0	311	6.0	302	7.0		
1530	301	5.3	299	4.2	307	7.1	305	6.9		
1620	301	5.8	301	5.6	310	8.3	300	6.4		
1710	297	6.1	301	6.6			290	5.9		
1800	292	6.0	296	6.2			292	6.0		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 1 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0930		1030		1130		1230		1630	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	273	8.1	283	5.4	290	4.3	295	3.5	270	7.5
211	291	5.6	321	3.3	338	3.1	333	3.0	268	7.8
314	336	3.4	357	2.7	008	5.2	359	5.5	270	7.2
415	025	1.8	008	1.8	005	6.3	001	6.3	265	6.3
515			356	2.7	360	5.5	002	5.5	260	4.4
613			353	3.7	353	3.3	004	3.9	263	2.5
709			350	2.3	333	1.1	356	1.6	277	2.1
804			357	0.5	306	0.7	280	1.4	299	1.7
897			028	1.0	326	1.4	291	2.1	296	1.4
990			017	1.7	336	1.8	311	2.2	264	1.2
1080			360	1.9	337	2.0	326	2.5	262	1.4
1170			352	2.6	348	2.5	339	2.5	288	1.9
1260			352	2.9	002	2.6	013	2.0	311	3.0
1350			352	3.2	016	2.1	012	1.3	314	4.1
1440			004	2.9	020	1.7	329	1.7	325	3.8
1530			017	2.7	357	1.3			345	3.4
1620			017	2.1	320	2.1			349	2.8
1710			334	1.8	318	2.3			353	2.8
1800			314	2.9	327	1.8			355	3.2
1890			312	4.5					354	3.0

MONTEZUMA HILLS PIBAL SUMMARY

Date 1 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1730									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	271	15.0								
211	266	14.9								
314	258	12.1								
415	257	9.6								
515	263	5.8								
613	253	3.5								
709	265	2.3								
804	281	1.3								
897	240	1.1								
990	209	1.2								
1080	207	0.6								
1170	347	1.0								
1260	349	3.0								
1350	347	3.4								
1440	358	3.1								
1530	008	3.2								
1620	017	2.9								
1710	020	3.4								
1800	020	3.8								
1890	023	3.7								

MONTEZUMA HILLS PIBAL SUMMARY

Date 1 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	0940		1130		1230		1500		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	275	3.4	261	2.8	270	3.6	272	3.4	249	6.5
211	302	4.3	273	3.2	267	3.5	284	3.4	257	6.6
314	316	3.7	292	3.3	278	3.2	289	3.9	268	6.3
415	316	2.1	315	2.2	298	2.8	291	4.1	280	6.0
515	336	1.7	335	2.1	331	3.1	290	4.1	290	5.3
613	351	2.3	335	2.9	334	3.5	292	3.9	302	4.2
709	347	2.8	333	2.7	312	2.6	298	3.8	306	4.0
804	340	2.7	331	2.5	296	2.7	309	3.6	317	3.0
897	345	2.7	324	2.3	300	2.6	330	3.0	320	2.3
990	340	2.9	327	2.3	321	2.0	344	2.7	294	2.6
1080	331	3.2			325	3.1	329	3.1	281	2.2
1170	330	3.4			331	3.3	315	3.8	276	2.6
1260	330	3.7			339	2.7	309	3.6	286	3.2
1350	335	3.5			335	2.6	303	2.9	301	3.6
1440	344	2.8			341	2.6	295	2.4	316	3.9
1530	356	2.4			337	2.7	289	2.7	332	3.6
1620	005	2.1			328	2.4	292	3.1	339	3.1
1710	009	1.8			309	2.4	300	3.6	332	3.2
1800	337	1.8			305	3.3	300	4.4	328	3.2
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 1 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0900		1100		1300		1500		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	246	1.7	227	1.3	244	1.7	241	3.7	238	5.9
211	221	2.3	266	1.5	264	0.8	246	3.0	241	8.1
314	232	2.8	277	1.4	347	1.7	282	0.9	267	4.2
415	247	3.2	306	0.9	012	2.4	026	1.8	290	4.1
515	259	1.7	004	0.8	030	1.4	020	2.2	297	3.8
613	018	0.7	059	0.8	003	0.7	360	1.4	299	3.0
709	053	2.6	043	1.2	353	0.8	312	1.0	295	2.4
804	041	2.1	021	1.8	336	0.9	297	1.1	297	2.5
897	359	2.0	337	1.8	326	1.4	305	1.3	302	2.6
990	357	3.0	333	2.4	338	1.8	295	1.1	295	2.1
1080			002	3.0	326	1.4	258	0.9	278	1.6
1170			358	3.2	338	1.8	281	1.2	309	2.5
1260			358	2.8	348	2.0	325	1.9	333	3.0
1350			014	2.0	359	1.4	338	3.5	335	3.3
1440			354	2.0	003	1.1	346	3.4	343	2.6
1530			333	3.2	340	1.6	330	4.2	357	1.9
1620			317	4.3			323	4.9	019	1.7
1710							324	3.2	009	1.5
1800							316	2.8	357	1.4
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 2 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0945		1045		1205		1300		1400	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	274	6.9	274	5.5	271	9.6	269	7.1	264	10.2
211	273	4.5	262	4.1	264	8.2	259	5.4	260	7.9
314	315	2.0	257	2.6	245	4.7	248	2.7	274	5.9
415	008	2.1	293	0.9	199	2.2	287	1.4	283	4.6
515	013	1.2	357	1.4	357	0.5	311	1.5	277	3.3
613	205	1.7	321	0.5	322	1.5	292	1.3	259	3.7
709	180	4.0	209	1.7	296	0.9	256	1.5	249	4.2
804	169	4.8	189	3.6	247	0.6	197	2.3	250	3.3
897	154	4.3	174	4.2	311	0.5	170	3.4	250	2.8
990	123	3.4	156	4.2	168	4.1	153	3.5	233	1.9
1080	099	2.9	125	3.5	161	7.4	134	3.4	191	1.7
1170	095	2.3	095	3.2	137	5.0	112	3.4	161	2.3
1260	085	2.0	079	3.0	119	4.6	094	3.6	133	3.0
1350	057	2.9	067	2.9	103	4.7	083	3.4	119	3.2
1440	050	4.2	053	3.4	087	4.4	072	2.9	115	2.8
1530	036	3.8	040	3.6	068	3.7	063	2.8	118	2.1
1620	018	2.3	044	3.9	050	3.6	066	3.2	110	1.9
1710	043	1.1	034	4.0	053	4.3	068	3.0	095	2.5
1800	033	1.0	034	3.6	048	4.5	062	3.1	092	3.0
1890	014	1.0	056	2.4	046	4.3			099	2.7

MONTEZUMA HILLS PIBAL SUMMARY

Date 2 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1510		1605		1710					
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	270	10.3	273	10.8	272	11.0				
211	263	9.5	264	11.0	270	10.1				
314	262	9.6	259	11.3	249	9.7				
415	257	7.0	257	9.4	239	9.4				
515	240	5.1	250	7.1	256	7.8				
613	237	4.4	232	3.8	254	5.4				
709	258	3.7	244	4.3	266	4.6				
804	272	3.5	268	4.7	271	5.8				
897	268	3.9	279	3.7	269	5.7				
990	262	4.2	269	3.9	275	4.1				
1080	254	3.1	275	3.5	292	2.5				
1170	245	1.6	284	2.6	301	2.4				
1260	199	0.6	287	1.6	344	2.2				
1350	146	0.8	271	1.1	300	2.8				
1440	189	0.9	285	1.4	284	4.9				
1530	233	1.2	294	3.1	303	4.0				
1620	217	1.0	289	3.1	292	2.8				
1710	151	1.2	260	1.8	264	3.0				
1800	122	1.4	205	2.2	259	2.9				
1890			193	2.8						

MONTEZUMA HILLS PIBAL SUMMARY

Date 2 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1000		1100		1200		1300		1400	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	273	5.0	292	3.2	294	2.6	270	4.3	264	5.4
211	284	5.6	289	3.0	300	2.9	268	4.2	266	3.6
314	302	5.2	299	3.2	297	2.6	275	4.9	272	3.3
415	316	5.6	316	3.3	255	1.8	285	4.6	283	4.9
515			308	1.8	218	2.0	283	2.8	285	4.7
613			219	2.0	198	2.9	252	1.9	272	3.6
709			196	3.9	182	4.5	212	2.3	242	3.2
804			184	5.0	171	5.6	183	4.3	212	3.4
897			183	4.7	169	5.9	174	6.0	196	3.8
990			176	4.1	172	5.4	168	6.4	187	3.9
1080			148	3.5	167	4.6	164	6.3	178	4.0
1170			117	3.3	146	3.4	160	5.3	166	4.1
1260			091	3.6	112	3.2	144	4.4	145	4.2
1350			072	3.7	093	3.5	132	4.2	135	4.0
1440			057	3.6	081	3.9	121	4.2	131	4.0
1530			050	4.5	069	4.0	122	4.3	134	4.2
1620			050	4.6	068	3.8	125	4.1	138	4.0
1710			050	3.9	056	3.6	109	3.7	136	3.9
1800			052	3.1	044	3.7	068	4.3	128	3.8
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 2 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1500		1600		1700		1755			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	260	7.2	263	8.7	266	6.1	265	8.7		
211	264	7.9	273	7.9	269	7.8	261	10.5		
314	272	7.3	282	7.0	270	8.0	257	8.8		
415	283	7.0	280	6.1	262	6.6	248	6.4		
515	288	5.9	267	5.0	247	5.5	241	4.8		
613	288	4.1	261	4.6	243	5.4	250	3.5		
709	276	3.8	273	3.8	249	3.9	270	4.0		
804	254	3.4	278	3.7	270	2.9	279	4.7		
897	226	3.3	274	3.9	280	3.6	278	4.5		
990	196	3.6	271	3.6	282	4.9	287	4.4		
1080	186	3.5	277	3.7	283	5.4	295	3.8		
1170	203	2.4	273	3.9	283	5.0	290	3.6		
1260	205	1.3	267	3.5	285	3.6	282	4.1		
1350	139	1.3	256	1.5	280	2.6	283	4.4		
1440	121	2.2	226	1.0	277	3.0	297	4.8		
1530	142	1.7	242	1.8	297	3.0	310	4.7		
1620	189	1.7	255	2.9	290	4.8	302	4.0		
1710	197	2.6	230	4.0	275	6.1	273	4.4		
1800	185	3.0	206	4.6	258	5.0	263	4.6		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 2 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0900		1000							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	243	1.7	216	1.2						
211	245	2.1	238	1.9						
314	259	2.9	259	2.4						
415	272	3.8	270	2.3						
515	281	4.3	269	2.1						
613	270	3.7	246	1.8						
709	232	2.2	187	2.4						
804	159	3.0	155	3.3						
897	140	4.5	143	4.0						
990	120	4.8	129	4.4						
1080	094	4.7	106	4.1						
1170	073	4.6	079	4.0						
1260	069	5.6	063	4.6						
1350	070	4.6	061	4.5						
1440	066	2.1	058	3.3						
1530	055	0.8	028	1.4						
1620	087	0.4	333	0.7						
1710	097	1.3	343	0.1						
1800	083	1.7	085	0.9						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 4 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1720		1800		1845		2055		2130	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	264	12.3	265	9.4	265	8.9	263	12.2	258	13.1
211	255	12.6	254	8.6	253	9.3	256	12.0	257	15.2
314	245	13.2	240	8.7	238	9.5	254	12.5	254	14.0
415	232	12.1	229	8.6	226	8.4	250	11.8	245	10.6
515	221	11.6	219	7.7	215	6.5	240	7.9	245	7.7
613	219	10.7	214	6.5	209	5.3	242	4.9	250	5.5
709	211	8.2	219	4.8	211	5.0	230	3.0	245	4.0
804	198	6.9	232	3.8	216	4.2	236	1.7	234	2.3
897	203	5.5	247	2.7	224	3.3	248	1.0	195	1.1
990	228	4.0	256	1.9	242	2.0	252	0.7	213	1.4
1080	246	4.0	248	2.5	278	1.7	291	1.0	224	1.2
1170	243	4.7	246	3.5	285	1.9	273	0.8	232	0.7
1260	239	4.1	242	3.9	268	1.6	166	0.6	187	0.6
1350	230	3.2	231	3.4	243	2.4	151	1.6	170	1.2
1440	225	3.9	218	2.8	230	2.4	160	1.7	177	1.7
1530	234	4.4	204	2.7	212	2.2	162	1.5	187	2.0
1620	238	6.0	197	2.8	202	2.2	174	1.6	202	2.7
1710	237	5.9	196	2.3	193	2.6	185	2.3	197	3.6
1800	233	4.5	194	1.9	193	3.4	182	3.5	189	4.4
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 4 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	2215		2300							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	259	11.4	263	11.6						
211	249	11.4	251	11.2						
314	252	13.0	250	14.2						
415	253	12.9	251	13.9						
515	251	11.3	251	9.3						
613	249	7.9	241	5.8						
709	235	4.9	219	4.8						
804	216	4.4	202	4.5						
897	205	3.5	190	4.1						
990	198	3.0	196	4.1						
1080	187	2.5	203	4.2						
1170	183	2.1	204	4.1						
1260	190	2.6	201	4.4						
1350	195	3.4	193	4.8						
1440	200	3.5	184	5.1						
1530	201	4.4	187	4.9						
1620	183	5.6	197	4.7						
1710	180	5.8	197	4.7						
1800	193	5.5	197	5.3						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 4 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1800		1900							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	273	7.2	268	8.0						
211	263	5.5	255	6.3						
314	235	3.4	222	4.0						
415	227	4.3	200	3.8						
515	232	5.7	196	3.8						
613	228	5.4	203	3.9						
709	231	4.3	203	4.5						
804	234	3.4	208	4.1						
897	244	3.3	221	3.0						
990	259	3.4	232	2.6						
1080	258	2.6	237	2.8						
1170	240	1.3	241	2.5						
1260	247	0.5	229	1.7						
1350	262	1.8	226	2.0						
1440	266	2.1	240	2.2						
1530	271	2.4	251	2.7						
1620	269	1.3	248	3.3						
1710	213	1.4	243	3.1						
1800	207	1.7	240	3.1						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 5 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0000		0100		0200		0300		0400	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	272	10.5	273	8.7	270	10.4	270	8.3	265	6.6
211	251	9.7	243	5.8	264	7.4	258	8.9	221	3.9
314	232	8.7	227	6.1	225	3.7	237	9.4	191	3.9
415	239	9.1	243	7.8	214	4.6	234	10.7	206	3.6
515	246	9.6	252	8.1	237	6.5	240	10.7	226	3.9
613	243	8.3	256	7.4	245	6.6	243	8.9	239	7.0
709	240	6.5	246	6.3	250	6.1	241	6.2	245	8.8
804	235	4.1	237	5.0	245	6.5	243	4.5	245	7.4
897	220	3.1	226	4.2	238	4.2	247	3.8	244	5.4
990	212	3.1	310	3.2	225	2.6	243	3.4	242	4.5
1080	209	3.4	209	2.5	242	3.1	234	2.8	235	3.9
1170	215	3.6	223	3.0	244	3.0	226	2.2	227	3.4
1260	214	4.1	226	3.7	223	3.5	215	2.9	220	3.5
1350	212	4.7	233	4.0	223	3.9	202	3.8	211	3.7
1440	212	4.6	221	4.5	234	5.0	208	3.6	213	4.0
1530	207	5.1	212	5.6	231	5.4	225	4.0	222	4.5
1620	206	5.7	213	5.9	216	5.4	230	5.0	226	4.6
1710	204	5.4	205	6.1	219	5.8	230	5.4	238	4.6
1800	203	4.5	204	6.3	225	5.8	224	5.3	241	4.8
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 5 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0500									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	258	5.3								
211	219	3.9								
314	205	4.2								
415	212	3.8								
515	215	4.6								
613	223	5.3								
709	232	5.2								
804	233	4.6								
897	222	4.1								
990	216	4.4								
1080	215	3.9								
1170	214	3.5								
1260	215	3.9								
1350	217	4.3								
1440	225	4.5								
1530	234	4.6								
1620	242	4.8								
1710	244	4.6								
1800	246	4.8								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 5 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	0000		0100		0200		0400		0500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	274	8.7	273	6.6	263	8.7	258	5.9	242	5.2
211	267	6.2	255	5.3	246	5.7	237	4.4	227	7.7
314	272	2.5	237	4.4	217	3.9	213	3.9	199	4.9
415	269	3.4	247	5.0	226	4.7	213	4.2	202	4.1
515	261	5.6	255	5.2	243	5.6	229	4.9	208	4.4
613	259	7.2	272	6.0	263	5.8	235	4.8	218	4.1
709	259	6.7	278	6.4	276	5.5	232	3.7	228	3.6
804	259	5.5	267	5.8	272	5.4	225	2.8	223	3.2
897	258	4.5	261	5.3	263	6.1	225	2.8	219	3.6
990	244	3.4	255	4.4	252	5.3	228	3.4	214	3.5
1080	229	3.1	238	4.3	234	4.0	220	3.8	206	3.1
1170	234	3.6	230	4.9	221	4.0	209	3.8	215	3.7
1260	234	4.4	228	5.1	216	4.5	204	4.0	220	4.2
1350	231	5.0	229	5.3	222	4.8	209	4.2	215	4.2
1440	229	5.7	233	5.6	228	4.7	219	4.3	215	4.6
1530	225	6.3	231	5.8	234	5.0	230	4.7	218	5.0
1620	223	6.5	227	6.2	236	5.7	237	5.2	226	5.0
1710	221	6.4	222	6.3	231	6.1	233	5.2	237	5.0
1800	222	6.2	219	5.3	227	6.7	226	5.4	245	5.0
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 5 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	0600									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	257	4.3								
211	236	4.4								
314	217	5.1								
415	219	5.1								
515	233	4.9								
613	246	4.5								
709	250	3.6								
804	236	3.0								
897	221	3.4								
990	225	3.7								
1080	229	3.6								
1170	225	3.4								
1260	221	3.3								
1350	223	3.3								
1440	230	3.9								
1530	234	4.8								
1620	236	4.9								
1710	241	4.5								
1800	248	4.5								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 6 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1640		1750		1900		2000		2100	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	281	6.3	274	6.6	269	7.1	268	8.5	264	10.0
211	313	0.6	265	8.0	257	7.2	254	8.5	261	8.4
314	272	7.8	258	8.4	245	6.3	239	7.2	221	4.4
415	260	6.8	250	7.8	237	5.2	224	5.5	185	4.7
515	249	3.7	243	5.2	212	3.9	200	5.1	192	3.6
613	232	3.0	235	2.5	183	4.0	186	5.4	176	2.7
709	212	3.4	197	1.6	185	3.9	185	4.5	117	2.0
804	207	3.1	164	1.9	190	2.8	180	3.2	044	2.8
897	217	2.8	162	2.9	189	1.4	167	1.9	026	4.1
990	240	2.8	167	3.8	191	0.2	100	0.6	031	4.0
1080	254	2.5	170	3.6	006	0.2	032	1.8	027	3.2
1170	242	2.3	189	2.3	289	0.3	022	3.0	025	2.6
1260	226	2.8	231	1.7	278	0.5	019	3.4	031	2.0
1350	218	3.9	232	2.3	247	0.6	014	3.6	045	2.1
1440	216	4.9	226	3.5	233	1.2	011	3.1	351	1.9
1530	216	4.1	222	4.4	217	2.1	359	1.6	020	1.0
1620	223	2.8	215	5.3	205	3.3	314	0.5	128	1.7
1710	230	2.4	210	5.2	202	4.1	194	0.9	193	1.3
1800	227	2.6	204	3.9	202	4.2	196	2.5	194	1.2
1890	224	2.8							204	0.6

MONTEZUMA HILLS PIBAL SUMMARY

Date 6 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	2200		2300							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	265	9.8	268	10.5						
211	263	10.2	266	8.8						
314	249	7.8	268	5.4						
415	209	3.8	203	3.1						
515	161	1.5	032	1.8						
613	079	2.0	027	6.1						
709	038	3.2	041	4.7						
804	019	3.6	033	4.3						
897	023	4.3	055	4.4						
990	014	4.5	044	5.0						
1080	020	4.9	042	5.6						
1170	025	6.1	047	4.5						
1260	041	5.1	050	4.1						
1350	043	3.3	056	4.1						
1440	016	3.1	051	3.1						
1530	359	2.6	038	2.3						
1620	334	2.5	006	1.7						
1710	337	2.6	029	1.4						
1800	339	2.6	033	1.6						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 6 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1620		1700		1800		1900		2030	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	237	2.9	279	3.7	271	5.6	275	7.4	268	7.2
211	263	3.0	269	2.8	275	5.0	277	7.3	254	6.0
314	280	2.3	269	2.6	282	4.5	278	5.9	233	5.0
415	289	1.9	273	2.4	291	4.1	291	4.0	219	4.2
515	287	2.1	277	2.3	299	3.7	---	---	215	3.5
613	290	3.1	284	2.5	259	3.6	333	1.3	215	3.8
709	295	3.7	287	2.8	---	---	262	0.6	221	2.4
804	294	3.7	286	3.4	319	3.0	245	3.1	316	1.2
897	274	4.0	282	3.6	343	3.4	248	2.9	353	2.6
990	260	3.7	276	3.7	245	3.4	285	2.4	354	3.3
1080	252	3.0	276	3.6	254	4.7	304	2.9	351	3.1
1170	244	2.5	267	2.8	262	4.0	313	2.6		
1260	241	2.8	241	2.6	270	2.5	309	1.8		
1350	239	3.8	229	3.1	267	1.8	282	5.2		
1440	238	4.4	228	4.7	239	1.7	269	1.8		
1530	238	4.4	231	5.1	221	1.9	121	1.7		
1620	241	3.9	236	4.1	207	2.9	263	2.2		
1710	241	3.6	235	3.4	210	4.0	248	2.7		
1800	235	3.4	230	2.9	299	3.2	239	3.5		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 6 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	2100		2200		2300		2400			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	267	8.3	271	8.1	277	7.5	281	7.6		
211	253	7.4	261	6.8	269	7.9	283	6.6		
314	228	5.6	236	4.7	262	4.4	287	3.9		
415	217	4.7	220	4.1	256	1.7	292	2.7		
515	208	3.9	219	2.3	226	0.6	336	1.2		
613	209	2.8	264	0.6	059	1.2	020	1.5		
709	267	0.8	035	1.2	056	1.8	027	2.2		
804	002	1.7	041	2.9	071	2.6	027	2.9		
897	013	2.8	039	4.0	057	3.5	025	2.9		
990	011	3.2	034	4.4	046	4.1	030	2.9		
1080	354	2.6	030	4.2	045	3.9	033	3.1		
1170	343	2.0	033	3.6	046	3.5	037	2.8		
1260	345	1.9	030	2.8	044	3.7	033	1.6		
1350	348	2.3	031	3.2	046	3.2	069	0.8		
1440	323	1.8	347	1.6	069	1.9	138	0.8		
1530	282	1.9	279	2.2	111	1.3	225	0.8		
1620	257	2.1	305	1.7	183	1.2	348	0.4		
1710	248	2.5	285	1.9	228	1.3	012	1.5		
1800	251	2.7	270	2.2	276	1.2	011	1.6		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 7 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1350		1550		1745					
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	016	1.5	163	1.4	248	2.1				
211	021	0.7	147	1.1	269	1.9				
314	000	0.6	101	1.1	275	2.5				
415	356	1.5	066	1.3	296	2.3				
515	346	2.0	031	1.3	316	1.9				
613	333	2.0	008	1.7	321	1.9				
709	334	2.5	008	1.9	324	2.0				
804	334	2.6	003	1.5	327	2.0				
897	325	1.6	354	1.7	331	1.9				
990	297	1.0	348	2.1	332	1.7				
1080	260	1.0	313	2.1	317	1.9				
1170	239	1.5	269	3.1	304	2.3				
1260	232	2.0	252	4.2	287	2.5				
1350	223	2.3	244	4.8	263	3.6				
1440	227	3.1	246	5.6	250	4.9				
1530	234	4.2	254	6.1	246	5.6				
1620	233	4.8	252	5.2	244	6.4				
1710	232	5.1	250	5.8	247	7.0				
1800	230	5.5	248	6.7	252	6.9				
1890	230	5.3	238	6.5						

MONTEZUMA HILLS PIBAL SUMMARY

Date 8 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1000		1400		1500		1700			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	354	8.2	323	2.4	333	3.9	347	2.8		
211	352	8.5	328	3.6	339	4.6	348	2.8		
314	353	7.7	336	3.2	317	4.4	349	2.9		
415	354	6.7	334	3.3	303	4.9	350	3.5		
515	357	5.5	342	2.8	319	4.3	347	4.0		
613	004	3.6	353	2.2	313	3.2	339	3.7		
709	035	1.7	331	1.9	322	2.5	322	3.9		
804	064	0.9	316	2.3	342	3.0	311	5.2		
897	357	0.1	315	2.9	339	3.7	304	5.7		
990	231	0.9	320	3.0	335	3.8	295	4.7		
1080	224	1.6	330	2.5	332	3.9	285	4.0		
1170	223	1.7	332	2.0	328	3.6	263	3.9		
1260	244	2.2	320	1.4	315	2.8	243	3.9		
1350	268	2.4	279	1.2	293	2.8	246	3.7		
1440	270	2.5	255	2.1	270	3.2	253	4.4		
1530	261	2.9	237	2.6	256	3.4	253	4.9		
1620	265	2.9	221	3.5	233	3.9	254	5.0		
1710	259	2.7	223	3.6	226	4.6	256	5.6		
1800	250	2.6	230	3.9	231	5.1	264	6.4		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 8 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0920		1100		1320		1500		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	251	4.5	264	4.6	315	1.3	236	2.2	289	5.2
211	252	4.8	260	4.1	269	1.7	231	2.0	273	5.2
314	259	4.4	273	2.0	259	1.8	252	0.8	271	4.3
415	270	3.6	237	0.8	255	1.7	251	0.6	297	3.3
515	281	3.1	209	1.1	236	2.1	209	1.1	302	2.2
613	306	1.9	174	1.1	219	2.1	194	1.6	280	1.6
709	032	0.7	147	1.4	190	2.2	166	1.7	250	1.5
804	075	1.6	130	2.4	173	2.1	136	1.4	219	1.3
897	143	3.4	133	4.2	151	2.2	153	1.9	186	2.2
990	162	4.8	139	4.3	147	2.7	167	2.7	177	3.6
1080	158	3.0	148	3.6	151	2.7	188	2.3	173	3.8
1170	153	3.4	159	3.1	157	2.7	191	2.0	180	3.4
1260	157	3.4	161	3.8	163	2.9	155	2.4	186	3.6
1350	161	3.4	218	4.3	158	3.2	161	2.2	176	4.0
1440	165	3.9	151	3.6	143	3.5	161	2.8	170	4.4
1530	165	4.3	123	7.1	123	4.2	157	4.2	166	5.5
1620	161	3.9	154	4.2	116	4.9	157	4.2	164	5.8
1710	155	3.2	155	3.9	118	4.9	144	4.8	159	5.2
1800	144	2.8	142	3.4	121	5.0	129	6.3	130	6.7
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 9 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1120		1205		1305		1405			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	022	1.6	335	3.2	249	0.3	204	3.3		
211	001	2.9	339	3.4	299	0.7	226	2.3		
314	359	4.3	344	3.1	315	1.8	275	2.6		
415	002	4.2	351	3.2	351	2.8	320	2.7		
515	001	4.2	349	3.8	349	3.2	343	2.5		
613	348	2.7	351	4.1	320	2.8	315	3.7		
709	304	1.1	350	3.3	291	2.3	313	5.0		
804	277	1.0	321	1.4	266	2.2	316	4.9		
897	254	1.7	270	1.7	270	2.1	306	4.4		
990	246	1.9			283	2.9	285	3.8		
1080	266	1.4			285	4.0	276	3.3		
1170	268	1.4			283	4.2	270	3.2		
1260	268	2.2			280	4.0	274	3.9		
1350	274	3.3			271	3.6	282	4.4		
1440					256	3.4	281	4.3		
1530					236	3.0	274	3.9		
1620					216	2.4	260	4.1		
1710					191	2.1	251	4.3		
1800					167	3.0	237	3.7		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 9 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1000		1200		1300		1400			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	349	2.3	341	3.3	324	4.8	342	3.9		
211	359	4.0	348	3.1	329	5.1	328	4.3		
314	360	5.2	349	3.5	331	5.2	315	4.5		
415	357	5.1	343	4.0	326	4.7	303	4.6		
515	354	4.2	337	4.0	324	4.5	293	5.0		
613	347	3.3			317	4.6	288	5.7		
709	333	2.8			304	4.6	290	6.2		
804	324	2.1			301	4.2	292	6.0		
897	322	1.8			292	3.3	295	5.2		
990	304	1.5			292	2.7	304	4.2		
1080	277	1.6			304	3.4	305	3.8		
1170	268	1.7			302	4.1	293	3.6		
1260	270	1.2			299	4.2	280	3.0		
1350	294	1.6			297	3.9	272	2.2		
1440	295	2.4			296	3.2	259	1.6		
1530	285	2.5			287	2.8	229	1.6		
1620					266	2.0	232	2.4		
1710					241	1.2	229	2.0		
1800					188	0.8	200	2.2		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 9 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0920		1000		1115		1215		1300	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	049	0.8	020	0.4	322	4.0	286	2.9	332	1.7
211	312	1.7	329	1.9	309	3.8	291	3.0	312	1.9
314	298	3.5	313	3.1	288	2.5	293	3.3	305	2.4
415	292	4.2	307	3.5	293	2.5	283	2.5	300	1.4
515	296	3.5	313	3.3	299	2.3	249	1.5	223	2.0
613	314	2.4	327	2.6	302	1.1	203	1.4	209	3.1
709	319	1.7	334	1.7	263	0.4	186	1.8	195	2.7
804	311	1.0	341	0.6	210	0.7	179	1.4	194	2.6
897	273	0.8	297	0.3	198	1.3	196	1.1	192	2.3
990	234	1.4	222	0.7	187	1.4			179	1.5
1080	216	1.9	197	1.5	187	1.2			178	1.4
1170	221	1.7	193	1.7	204	1.5			199	2.4
1260	201	1.6	191	1.2	200	2.1			202	3.2
1350	190	2.3	193	2.0	192	2.8			200	3.4
1440	189	2.4	197	2.4	189	2.7			194	3.2
1530	180	2.5	193	2.3	183	2.0			178	2.4
1620	173	2.4	181	2.7	162	1.6			146	1.4
1710	156	1.8	169	2.5	121	0.9			098	1.4
1800	105	1.1	154	1.9	065	1.4			069	2.0
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 9 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1400		1500		1605		1710		1755	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	289	1.1	064	1.4	179	1.1	175	6.6	171	10.8
211	206	0.4	032	1.0	184	1.7	177	6.6	175	11.2
314	189	1.2	359	0.5	174	2.0	187	6.4	177	10.5
415	171	2.2	068	0.5	174	2.4	197	5.5	180	9.9
515	152	2.1	108	0.2	179	2.4	208	4.6	187	8.4
613	173	1.5	224	1.0	179	2.3	219	3.7	196	6.5
709	195	1.8	209	1.4	177	2.3	227	2.9	205	6.0
804	212	2.2	197	1.6	180	2.3	220	2.7	211	6.0
897	205	2.5	203	1.6	183	2.5	210	2.8	210	5.5
990	192	2.7	206	1.4	191	2.8	217	2.7	200	4.6
1080	182	2.3	189	1.2	187	2.1	223	2.7	192	4.0
1170	168	1.3	103	1.2	144	1.1	215	2.8	187	3.9
1260	115	0.9	084	2.5	082	1.4	209	2.9	182	4.0
1350	094	1.9	088	2.7	070	2.3	205	3.3	175	3.6
1440	089	2.9	082	2.8	065	2.6	200	2.9	176	3.2
1530	087	3.0	077	3.1	059	2.8	168	1.0	184	3.3
1620	090	2.9	075	3.2	049	2.8	072	1.5	180	2.9
1710	085	2.8	074	3.4	067	3.0	073	2.4	151	2.2
1800	076	2.8	073	3.4	079	3.5	075	2.9	112	3.0
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 9 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1855									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	168	10.2								
211	163	10.3								
314	157	10.2								
415	159	9.7								
515	168	7.6								
613	176	6.0								
709	189	5.3								
804	196	5.0								
897	196	5.1								
990	197	5.6								
1080	178	5.2								
1170	169	5.8								
1260	174	6.1								
1350	164	5.2								
1440	144	4.3								
1530	132	4.6								
1620										
1710										
1800										
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0730		0930		1025		1115		1200	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	266	9.2	268	8.7	258	6.9	225	2.6	290	1.1
211	254	5.7	266	8.0	246	7.2	189	3.0	152	0.6
314	252	4.7	264	7.1	251	7.3	212	2.8	233	1.3
415	259	5.5	260	6.6	252	6.8	236	3.7	237	1.7
515	242	3.8	251	5.4	246	6.8	245	4.7	232	2.4
613	204	3.2	232	3.6	244	7.1	241	4.7	243	3.9
709	190	3.1	211	2.6	244	6.1	236	5.0	242	4.4
804	204	2.1	204	2.2	237	4.6	235	5.4	242	4.8
897	267	1.8	243	1.9	227	4.2	229	5.0	244	4.8
990	300	2.6	295	2.3	224	3.0	223	4.5	245	3.9
1080	317	3.0	319	2.3	224	1.3	222	4.0	261	2.3
1170	328	3.6	312	2.3	256	0.7	227	2.8	295	2.1
1260	334	4.2	305	3.0	252	0.6	261	1.5	316	2.8
1350	334	4.6	318	3.9	263	0.9	302	2.5	329	3.7
1440	330	4.6	339	4.7	302	2.9	314	3.9	337	4.1
1530	328	4.2	351	4.7	311	4.7	322	4.8	344	4.3
1620	334	4.1	357	4.3	318	5.9	330	5.1	348	4.9
1710	343	5.0	001	4.0	324	6.5	338	4.9	351	5.2
1800	343	4.6	359	4.1	332	6.0	343	4.2	352	5.5
1890			354	4.9						

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	0800		0900		1000		1100		1200	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	269	4.0	270	5.9	279	4.8	247	3.4	236	2.5
211	261	5.2	263	7.9	275	9.4	264	4.8	275	3.4
314	255	5.2	256	6.8	271	5.9	269	5.6	293	5.0
415	268	4.1	252	4.2	219	1.1	262	5.2	294	5.9
515	234	3.5	240	2.4	252	3.0	243	4.0	283	6.4
613	202	3.6	222	1.8	219	2.4	237	3.9	265	6.8
709	189	1.6	196	2.0	192	2.4	231	3.3	250	6.3
804	166	2.5	167	3.0	181	2.1	220	2.6	235	4.2
897	175	3.0	170	3.2	185	2.3	224	2.8	216	2.9
990	204	3.5	192	3.1	199	2.5	221	3.5	228	3.9
1080	228	3.4	212	3.2	212	3.0	228	4.0	233	4.1
1170	239	3.4	239	3.3	233	3.4	250	3.5	233	3.4
1260	270	3.4	248	2.8	250	3.4	288	2.9	247	3.1
1350	306	4.1	270	2.3	279	3.3	317	2.7	288	2.7
1440	316	4.1	310	3.1	302	3.1	341	2.2	327	2.7
1530	319	4.3	328	3.6	323	2.8	002	2.5	348	2.3
1620	330	4.7	337	4.3	340	4.0	006	2.8	346	2.6
1710	338	5.2	338	5.3	343	4.5	013	2.1	345	3.0
1800	340	4.8	340	5.2	350	3.9	001	2.4	355	3.2
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1300		1400		1500		1600		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	241	3.9	236	2.2	261	3.5	274	4.9	277	7.3
211	264	4.5	225	0.5	259	3.0	271	5.7	261	7.8
314	272	4.4	145	1.0	256	2.1	266	5.0	246	6.5
415	261	3.1	168	1.6	264	1.8	263	4.5	255	5.2
515	235	2.5	167	1.7	271	2.3	264	3.6	240	4.8
613	233	2.6	196	2.0	265	2.8	253	2.2	222	4.4
709	246	2.9	231	1.6	261	3.2	242	2.1	213	4.0
804	245	3.7	232	3.7	265	3.6	247	1.9	198	2.9
897	237	4.2	229	5.7	266	4.4	293	0.8	178	2.0
990	222	3.8	247	4.1	272	4.1	026	1.9	132	2.6
1080	233	3.9	256	3.1	300	3.1	051	2.7	120	3.3
1170	243	4.5	240	2.3	329	2.4	068	2.7	119	2.8
1260	244	4.2	125	0.5	353	1.5	073	2.9	122	2.8
1350	271	3.2	071	2.5	005	1.1	078	2.9	143	2.7
1440	322	2.6	074	3.3	036	1.1	093	3.0	156	2.7
1530	355	2.6	077	3.9	063	2.1	100	3.0	129	2.9
1620	398	2.3	080	3.4	068	3.2	100	3.4	105	3.8
1710	357	2.7	088	2.8			104	3.8	098	4.9
1800	358	3.3	086	3.0			104	3.4	097	5.0
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location B & W Resort

Ground Elevation 5'

Release Time (PDT)	1800		1900							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	268	7.9	269	8.3						
211	266	9.4	264	8.2						
314	261	7.4	251	7.1						
415	245	5.5	242	5.8						
515	232	5.2	245	4.8						
613	221	4.4	247	3.4						
709	203	4.0	224	1.9						
804	204	4.0	177	1.0						
897	202	3.4	129	1.1						
990	186	2.5	126	1.4						
1080	172	2.1	094	1.8						
1170	155	2.0	087	4.0						
1260	132	2.5	096	4.8						
1350	133	2.6	112	5.3						
1440	124	3.3	129	5.2						
1530	110	5.0	146	5.7						
1620	105	6.2	153	7.7						
1710	103	6.2								
1800	115	5.2								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1055		1200		1305		1400		1500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	254	1.9	257	3.1	282	2.3	303	5.0	303	2.8
211	235	2.8	253	3.7	278	2.4	300	5.0	300	3.6
314	232	3.9	244	4.4	253	2.9	296	4.3	283	4.3
415	236	3.7	245	4.3	241	3.7	275	3.6	270	3.8
515	249	3.7	255	3.4	241	3.8	254	4.1	270	3.1
613	258	4.5	256	3.1	252	4.0	259	4.2	276	3.1
709	261	4.5	259	4.3	266	4.2	267	4.0	281	3.6
804	267	3.6	267	5.1	279	4.0	273	4.2	287	3.9
897	273	3.1	277	4.2	286	3.2	283	4.9	294	4.1
990	292	2.6	289	3.1	294	2.5	286	4.9	303	3.5
1080	331	2.2	295	2.5	302	2.2	284	4.4	316	2.8
1170	341	1.6	314	2.6	311	2.0	286	3.6	325	2.3
1260	335	1.1	333	2.6	318	1.4	289	2.9	331	1.6
1350	350	1.5	336	2.2	326	1.5	293	2.4	338	1.4
1440	339	2.7	331	2.8	341	2.7	283	1.9	356	1.9
1530	335	4.2	331	3.8	352	4.6	314	1.3	008	2.9
1620	338	5.2	338	5.3	357	5.7	001	2.4	013	3.7
1710	340	5.5	348	6.1	002	6.0	005	3.6	020	4.4
1800	344	5.5	357	6.5	009	6.4	001	2.3	023	4.6
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1605		1700		1750					
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	274	5.2	285	5.2	276	4.4				
211	276	5.6	279	5.2	276	4.2				
314	270	4.9	271	4.8	271	3.2				
415	250	3.9	258	4.3	258	2.2				
515	228	3.5	247	3.7	255	2.0				
613	224	3.3	242	2.7	269	2.2				
709	233	3.0	245	2.0	267	2.8				
804	249	3.0	249	1.9	257	2.7				
897	267	3.5	246	1.9	229	2.0				
990	283	3.4	250	1.9	196	2.0				
1080	296	2.8	286	1.8	163	1.8				
1170	314	2.0	303	1.8	123	1.9				
1260	333	1.6	324	0.9	108	2.3				
1350	350	1.8	054	1.3	105	1.9				
1440	009	7.0	069	2.2	084	1.5				
1530	031	2.2	052	2.4	052	1.6				
1620	045	2.8			019	1.8				
1710	045	3.3			348	2.3				
1800	039	3.2								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 10 September 1976

Location Benicia

Ground Elevation 40'

Release Time (PDT)	1430									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	245	6.0								
211	235	5.3								
314	225	5.8								
415	234	6.3								
515	247	7.0								
613	255	6.7								
709	271	4.9								
804	290	3.1								
897	287	2.6								
990	269	2.6								
1080	267	2.9								
1170	304	3.6								
1260	323	3.1								
1350	337	2.2								
1440	347	3.9								
1530	347	5.1								
1620	353	5.9								
1710	359	7.0								
1800	002	7.6								
1890	011	7.5								

MONTEZUMA HILLS PIBAL SUMMARY

Date 12 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0900		1100		1300		1500		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	259	2.2	234	1.1	206	0.9	299	2.8	263	2.1
211	255	2.6	260	1.4	311	0.6	278	2.4	241	1.5
314	252	2.8	252	1.3	326	1.1	250	2.5	229	1.2
415	253	3.0	223	0.1	335	1.3	249	3.0	223	0.8
515	236	3.0	089	0.9	339	1.3	255	2.2	164	0.3
613	190	2.9	098	2.2	013	1.5	288	0.9	033	0.5
709	146	3.4	125	2.9	033	2.2	281	0.6	030	1.0
804	125	4.5	138	2.6	073	1.6	267	0.8	039	1.2
897			122	1.5	146	2.6	318	0.7	036	1.5
990			123	2.0	164	3.0	067	0.4	028	1.4
1080			105	1.1	171	1.9	136	1.0	030	1.1
1170			036	1.0	196	0.7	162	1.7	019	1.1
1260			004	1.2	336	2.1	098	0.9	003	1.2
1350			353	1.3	343	3.0	031	2.2	350	1.0
1440			356	1.3	354	2.7	016	2.3	359	0.9
1530			356	1.5	353	1.1	009	2.0	013	1.2
1620			359	1.7	322	0.4	014	1.9	006	1.2
1710			356	1.6	349	2.0	014	2.0	345	0.8
1800			342	1.7	345	2.5	004	2.0	313	0.9
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0730		0800		0910		1005		1105	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	269	7.9	272	6.9	281	6.3	297	3.5	284	4.1
211	271	7.4	295	4.8	296	4.8	334	1.9	300	4.1
314	287	4.5	347	2.8	342	2.6	023	1.7	310	3.2
415	354	1.4	025	1.9	029	1.9	023	1.8	322	2.7
515	068	2.3	040	1.8	016	1.5	005	2.4	330	2.9
613	056	2.0	032	1.6	350	1.6	351	2.3	339	2.8
709	342	1.3	021	1.7	353	2.0	336	2.3	340	2.6
804	005	1.8	032	2.5	008	2.3	339	2.3	331	2.6
897	026	2.8	030	2.9	015	2.3	340	2.0		
990	018	2.9	026	3.2	023	2.6	355	1.7		
1080	022	3.4	025	3.4	033	3.0	011	1.4		
1170	031	3.9	035	3.6	043	3.0	341	1.4		
1260	030	3.3	040	3.0	035	2.1	319	2.4		
1350	352	2.2	358	1.8	344	2.0	322	2.6		
1440	321	3.0	323	2.4	333	2.7	323	2.0		
1530	327	2.9	333	2.5	341	2.4	310	1.2		
1620	341	2.2	341	1.8	350	1.5	305	1.2		
1710	340	2.1	331	1.6	347	1.1	304	2.0		
1800	311	2.4	308	2.1	324	1.7	290	2.5		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1205		1310		1415		1520		1705	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	241	2.0	276	3.1	257	3.5	254	4.8	274	6.0
211	299	1.4	292	3.2	279	2.8	262	5.2	276	6.0
314	347	2.4	300	3.4	289	2.5	270	6.0	276	6.0
415	341	2.8	314	3.0	291	2.8	276	5.5	277	4.9
515	320	2.3	344	2.5	289	2.6	293	5.0	275	4.2
613	301	1.5	346	3.2	290	2.3	304	6.1	272	4.3
709	314	1.5	335	3.5	297	3.0	305	7.3	274	3.6
804	327	1.9	309	2.9	303	3.3	307	5.5	273	3.2
897	314	1.8	280	2.8	307	2.7	281	2.9	275	3.0
990	300	2.2	271	2.7	310	2.6	269	2.9	286	3.0
1080	302	3.0	281	2.6	295	3.1	269	3.2	294	2.9
1170	298	3.6	293	3.0	278	3.4	271	3.1	304	2.7
1260	296	4.7	290	2.9	278	3.1	285	2.8	311	2.8
1350	297	3.8	281	2.5	281	3.1	294	3.0	310	3.2
1440	291	2.4	276	2.4	287	3.4	293	3.6	302	3.5
1530	287	2.7	282	2.3	299	3.8	299	3.6	304	3.6
1620	291	3.0	296	2.6	311	3.8	305	4.1	320	3.5
1710	294	3.7	305	3.5	321	3.9	309	4.4	340	3.4
1800	295	4.5	313	3.8	323	3.9	328	4.2	349	3.6
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0800		0900		1000		1100		1200	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	308	1.0	270	1.5	208	1.1	244	1.5	324	1.7
211	215	1.3	260	1.5	228	1.2	267	0.7	330	1.9
314	204	2.0	250	1.4	230	1.1	359	0.7	315	1.6
415	236	1.6	323	0.8	355	0.1	360	1.3	300	1.6
515	322	0.5	018	2.9	028	1.1	357	1.8	290	1.8
613	024	2.6	012	2.4	035	2.1	001	1.6	297	1.5
709	026	3.1	357	1.7	029	2.9	011	0.8	348	1.1
804	039	3.2	024	3.0	032	2.3	020	0.7	012	1.0
897	052	4.8	045	3.6	050	2.1	342	1.4	042	0.7
990	053	5.6	050	4.1	021	2.1	325	2.5	162	0.1
1080	045	4.4	031	3.2	344	2.9	323	3.1	289	1.2
1170	015	2.7	354	2.8	338	3.5	324	2.9	313	2.4
1260	341	3.4	348	3.2	343	2.9	325	2.3	309	1.9
1350	346	3.7	357	3.0	340	2.8	315	2.4	297	1.7
1440	349	3.2	003	2.5	319	2.8	305	3.2	289	2.3
1530	329	3.0	327	2.4	297	3.1	296	3.4	270	2.7
1620	318	3.0	323	2.0	290	3.3	286	3.1	265	3.1
1710	316	3.0	333	1.3	293	3.2	282	3.1	277	3.0
1800	318	2.9	312	1.6	292	2.8	283	2.9	289	2.9
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1300		1400		1515		1600		1700	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	004	0.6	304	1.2	253	2.9	267	5.1	273	6.4
211	317	0.4	278	1.7	261	4.3	254	4.7	274	6.7
314	297	1.3	253	1.5	258	4.0	254	4.6	273	5.9
415	311	1.1	238	0.8	291	3.2	264	3.6	263	4.4
515	333	0.4	277	0.4	318	3.7	265	2.4	251	3.4
613	257	0.6	327	1.1	331	3.1	266	0.8	240	2.5
709	281	0.9	323	1.8	337	3.0	105	0.2	252	1.8
804	306	1.6	328	2.1	321	2.9	169	0.3	278	1.2
897	301	2.7	338	2.0	322	1.9	160	0.5	319	0.9
990	289	3.2	331	1.3	347	2.0	069	0.6	002	1.3
1080	279	3.0	307	1.2	349	2.4	014	1.4	356	1.7
1170	273	3.1	286	1.5	350	2.6	008	2.2	341	2.4
1260	277	3.6	291	2.1	339	4.0	017	3.1	343	3.0
1350	288	4.2	306	3.1	328	4.5	030	3.8	348	3.4
1440	292	4.7	307	3.7	319	3.6	024	4.2	341	4.2
1530	292	4.7	308	4.0	309	3.0	357	4.0	329	5.1
1620	297	4.9	315	4.2	303	3.3	335	3.8	334	5.8
1710	309	4.0	320	4.0	298	2.6	320	3.8	342	5.9
1800	307	5.8	317	3.7	273	1.2	314	3.5	339	5.1
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1800									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	273	7.1								
211	278	5.8								
314	284	3.7								
415	277	3.9								
515	228	1.9								
613	185	2.0								
709	252	2.7								
804	257	2.3								
897	279	1.6								
990	319	1.8								
1080	344	2.9								
1170	353	3.7								
1260	344	4.1								
1350	328	5.3								
1440	327	6.0								
1530	337	6.0								
1620	341	5.7								
1710	335	4.3								
1800	323	2.5								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Pinole

Ground Elevation 160'

Release Time (PDT)	0630		0710		0805		0910		1000	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	214	3.0	220	2.3	324	1.5	281	0.7	274	2.8
211	248	3.4	253	2.7	222	2.6	286	1.0	251	3.5
314	285	3.7	282	3.1	235	3.2	004	0.9	263	2.5
415	319	3.8	305	3.7	321	2.5	068	2.6	029	1.4
515	349	3.6	325	3.1	005	2.6	077	3.3	058	2.4
613	004	3.1	002	2.2	031	3.3	078	2.8	055	1.0
709	342	1.3	022	2.5	038	2.8	082	2.5	068	0.6
804	344	0.1	034	2.4	046	1.5	086	2.1	080	1.1
897	044	0.1	065	1.8	078	1.4	089	2.3	094	1.8
990	099	1.6	096	2.3	101	1.6	095	2.8	100	2.3
1080			102	2.3	114	1.7	122	1.7	163	0.9
1170			116	1.3	129	1.2	285	1.0	233	0.9
1260			267	0.4	243	0.8	297	1.1	288	0.8
1350			289	1.1	285	1.6	297	1.4	282	1.9
1440			305	1.6	298	2.1	295	1.8	292	2.0
1530			314	2.0	302	2.5	288	2.5	294	2.2
1620			308	1.7	299	2.4	285	3.2		
1710			296	1.9	291	2.4	295	2.9		
1800			284	2.7	283	2.7	304	3.3		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Pinole

Ground Elevation 160'

Release Time (PDT)	1100		1200		1300		1400		1500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	245	1.1	291	3.4	248	2.9	238	6.9	229	4.3
211	211	1.0	246	3.7	237	2.0	250	5.9	233	3.6
314	136	1.0	216	3.2	226	1.1	268	5.1	237	3.0
415	081	1.1	158	1.5	203	0.7	284	4.0	240	2.5
515	056	0.7	140	1.0	192	0.6	285	2.7	250	2.2
613	087	0.6	186	0.4	189	0.6	270	2.1	264	2.9
709	117	0.8	150	0.3	195	0.5	259	1.7	298	4.2
804	072	1.7	134	0.2	186	0.5	245	2.8	308	4.8
897	074	2.1	080	0.4	213	0.9	232	3.0	288	3.4
990	130	1.3	107	0.6	254	1.2	239	2.4	272	2.9
1080	194	1.3	180	0.8	280	1.8	270	2.8	291	2.9
1170	261	1.4	234	1.1	288	2.8	285	2.8	309	2.9
1260	299	2.3	278	1.4	294	3.4	288	2.8	317	3.3
1350	300	3.5	293	1.9			300	2.9	318	4.2
1440			297	2.2			319	3.4	312	4.9
1530			308	3.0			319	3.9	311	5.2
1620			316	4.3			310	4.7	317	5.0
1710			317	5.1			308	5.4	322	5.2
1800							309	4.9	327	5.2
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 13 September 1976

Location Pinole

Ground Elevation 160'

Release Time (PDT)	1600									
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	230	3.4								
211	266	3.2								
314	290	3.6								
415	294	4.1								
515	299	4.0								
613	299	3.9								
709	293	4.0								
804	299	4.0								
897	310	4.1								
990	307	3.3								
[illegible]	[illegible]	[illegible]								
1170	315	1.9								
1260	318	2.7								
1350	315	3.5								
1440	313	4.2								
1530	314	5.1								
1620	321	5.6								
1710	328	5.6								
1800	327	5.5								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	0800		0905		0915		1005		1105	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	254	9.4	264	10.2	263	7.5	263	9.6	274	11.5
211	254	9.8	263	11.3	261	7.6	265	8.8	271	8.8
314	275	4.7	266	10.8	272	7.3	274	6.6	266	10.8
415	007	2.6	269	7.4	284	4.0	292	3.2	265	9.7
515	043	2.3			311	1.1	309	0.6	277	5.4
613	051	1.3			354	1.2	239	0.2	304	2.0
709	275	0.9			334	0.9	270	1.1	268	1.8
804	245	1.8			238	1.1	248	2.1	255	3.1
897	244	1.8			215	1.8	234	2.3	237	2.3
990	271	2.4			224	1.4	238	1.7	229	2.2
1080	295	3.2			290	1.1	295	0.8	238	2.5
1170	305	3.7			318	2.5	305	1.8	223	1.4
1260	297	3.9			306	3.1	285	2.6	252	1.2
1350	291	4.2			290	3.3	277	3.0	278	1.5
1440	299	4.0			286	3.6	273	3.4	268	2.0
1530	298	3.7			287	3.5	271	3.3	256	3.0
1620	287	3.9			284	3.2	268	3.5	254	3.8
1710	282	5.2			275	3.4	263	4.0	254	4.2
1800	281	4.2			268	3.2	263	4.9	257	4.3
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Dow Site

Ground Elevation 201'

Release Time (PDT)	1205		1605							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	267	11.5	261	6.9						
211	264	13.2	262	6.1						
314	259	12.2	265	5.6						
415	256	7.9	278	6.0						
515	270	4.4	291	5.7						
613	303	3.3	295	4.6						
709	297	3.7	298	3.8						
804	282	3.2	294	3.1						
897	266	2.3	287	2.8						
990	252	2.5	292	2.8						
1080	233	1.6	292	2.8						
1170	196	0.7	290	2.8						
1260	177	0.8	294	2.6						
1350	228	1.6	299	2.3						
1440	241	3.1	299	3.0						
1530	237	4.6	296	3.8						
1620	243	4.9	308	3.7						
1710	253	4.8	331	3.9						
1800	249	4.9	338	4.1						
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	0800		0900		1000		1100		1210	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	241	2.9	226	1.6	236	4.5	257	4.2	234	4.0
211	236	5.0	227	3.6	234	5.1	253	2.6	235	4.6
314	248	5.3	232	4.5	237	5.3	230	2.3	238	4.3
415	257	4.8	238	4.1	241	5.4	245	3.5	242	3.1
515	270	5.8	253	3.3	248	5.2	249	3.0	246	3.4
613	278	5.2	268	2.0	257	4.8	230	2.2	246	3.5
709	283	3.0	283	0.7	255	3.7	242	2.0	238	2.9
804	294	1.5	318	1.1	240	1.3	276	1.9	256	2.3
897	295	1.5	333	2.5	023	0.5	295	2.4	279	2.2
990	305	3.2	327	3.6	352	1.9	298	3.0	280	2.7
1080	306	4.6	313	4.3	332	2.8	288	3.7	276	3.9
1170	303	4.9	307	4.3	317	3.5	279	4.1	272	4.8
1260	297	4.5	306	3.6	307	3.6	277	4.1	272	4.9
1350	291	4.2	297	4.3	300	3,2	275	4.0	275	4.8
1440	295	4.6	292	5.2	291	3.1	273	3.5	271	4.8
1530	302	4.7	293	4.6	285	3.6	270	2.9	258	4.4
1620	301	4.2	294	4.3	288	3.4	246	2.5	248	4.4
1710	297	3.9	286	3.3	282	2.5	224	3.0	241	4.8
1800	303	3.0	276	2.4	253	2.0	219	3.3	233	5.5
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Livermore

Ground Elevation 300'

Release Time (PDT)	1300		1400		1500					
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	248	3.9	233	4.2	212	5.7				
211	241	5.0	240	2.9	222	6.6				
314	241	5.8	244	3.1	239	6.9				
415	244	6.5	244	3.5	250	6.8				
515	247	5.7	236	3.7	260	6.5				
613	251	5.0	234	3.6	267	7.2				
709	245	4.8	243	3.9	274	8.2				
804	234	4.2	247	4.5	276	8.5				
897	231	3.7	245	4.7	270	7.4				
990	234	3.0	251	4.7	261	5.7				
1080	247	2.8	266	4.6	254	5.0				
1170	254	3.2	275	5.0	255	4.6				
1260	261	4.3	277	5.1	260	4.3				
1350	268	5.3	272	4.8	272	4.2				
1440	267	5.6	268	5.0	286	4.6				
1530	264	5.3	271	5.3	286	4.6				
1620	255	5.0	264	5.2	279	4.2				
1710	245	5.4	248	4.7	274	4.8				
1800	236	5.5	233	4.4	272	5.1				
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Pinole

Ground Elevation 160'

Release Time (PDT)	0630		0700		0805		0900		1000	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	177	4.7	191	3.6	183	4.2	190	3.0	183	7.9
211	211	4.8	216	4.6	209	4.4	219	3.9	180	7.7
314	250	5.6	242	6.1	249	5.1	248	4.9	215	5.9
415	270	8.2	259	8.0	258	5.9	269	6.8	214	4.8
515	276	7.6	272	7.8	271	6.7	275	7.7	216	4.2
613	273	5.4	282	5.8	284	6.5	278	6.3	256	8.1
709	268	5.5	277	4.7	287	3.4	285	5.1	272	10.2
804	268	5.8	271	5.2	290	3.1	279	4.8	275	9.2
897			273	6.3	276	4.4	271	4.6	271	8.8
990			271	6.9	273	5.6	274	4.5	298	5.4
1080			264	6.6	273	5.5	276	5.1	337	3.2
1170			253	5.4	272	5.4	277	5.6	288	3.2
1260			243	4.2	263	4.4	278	6.1	279	3.6
1350			232	3.4	244	3.7	285	5.9	259	3.8
1440			221	2.9	235	3.6	274	4.6	254	4.1
1530			221	2.8	221	3.4	244	3.9	274	6.0
1620			220	3.0			231	4.1		
1710			215	2.9			225	4.7		
1800			210	3.1			216	5.1		
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Pinole

Ground Elevation 160

Release Time (PDT)	1100		1200		1300		1400		1500	
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	171	5.2	209	3.5	178	5.0	157	5.6	216	9.2
211	184	3.9	210	4.0	191	2.9	185	5.8	172	10.5
314	214	3.7	238	3.7	211	4.2	211	6.8	173	11.8
415	239	5.6	258	6.1	229	6.2	223	8.3	214	11.1
515	260	7.9	262	8.6	244	7.1	231	9.0	223	10.7
613	274	8.1	268	8.0	257	8.0	241	8.9	228	11.4
709	289	6.8	268	6.1	265	7.6	246	9.4	235	10.6
804	290	5.4	258	4.8	271	7.6	246	8.6	239	10.5
897	282	3.6	258	3.8	266	7.9	245	7.1	240	10.2
990	276	2.7	259	3.8	265	6.6	249	6.7	236	9.7
1080	281	3.1	259	4.1			246	6.4	232	9.3
1170	271	4.2	260	4.4			250	5.7	229	7.8
1260	265	5.0	260	5.4			281	7.4	228	5.2
1350	269	5.8	264	6.3			254	5.3	236	4.4
1440	274	6.3	269	6.8			259	6.1	247	5.1
1530	275	6.7	271	7.3			259	6.9	244	5.9
1620	278	7.8	274	7.6			253	6.8	231	6.7
1710	278	8.3	277	7.0			250	6.6	227	6.6
1800	278	7.3	277	5.5			237	6.2	222	10.3
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Pinole

Ground Elevation 160'

Release Time (PDT)	1600		1700							
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	206	6.4	213	7.2						
211	215	8.4	213	7.9						
314	219	9.6	218	8.5						
415	217	10.8	221	7.8						
515	218	11.7	224	7.6						
613	222	11.1								
709	191	10.9								
804	237	9.9								
897	269	13.4								
990	249	7.5								
1080	252	6.2								
1170	244	6.7								
1260	235	8.3								
1350	228	10.3								
1440	223	12.2								
1530	222	12.9								
1620	224	12.7								
1710	224	11.3								
1800	218	9.0								
1890										

MONTEZUMA HILLS PIBAL SUMMARY

Date 14 September 1976

Location Jct. J2 and Cal 4

Ground Elevation 10'

Release Time (PDT)	1633		1705		1800		1900			
Height (m)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)	Wind Direction (Deg True)	Wind Speed (m/s)
106	235	8.2	237	12.0	238	9.4	239	13.6		
211	240	8.9	240	11.2	243	10.5	243	14.6		
314	250	7.8	245	9.6	251	9.5	252	11.4		
415	264	5.9	254	7.8	262	8.0	259	7.9		
515	276	4.6	267	6.2	274	7.4	261	6.5		
613	283	5.2	283	5.1	282	8.0	265	5.9		
709	296	5.9	301	4.9	280	7.6	259	6.2		
804	301	5.4	306	5.1	267	7.1	248	6.7		
897	304	4.7	307	5.1	256	7.5	240	6.1		
990	303	5.0	324	4.1	252	7.4	229	5.1		
1080	298	5.1	309	4.7	252	5.7	215	4.6		
1170	291	3.5	287	4.7	251	4.0	205	4.3		
1260	260	2.2	250	2.9	238	3.4	207	4.4		
1350	244	2.7	234	3.5	227	4.4	220	4.5		
1440	238	2.9	234	3.3	223	5.1	230	4.8		
1530	242	3.4	242	3.9	222	4.5	228	5.1		
1620	251	4.4	246	5.0	232	3.9	226	5.0		
1710	254	4.8	248	5.3	247	3.5	225	5.2		
1800	258	4.5	248	5.1	255	3.9	224	6.2		
1890										

TABLE 19

6.3 Estimation of Mixing Layer Depth*

Time (PDT)	Station				
	Dow	B & W Resort	Livermore	Pinole	Junction J2 & Cal 4
Test 1 (8/31/76)		(meters)			
1000		520	400		
1100	200	500	380		
1200	220	500	380		
1300	250	510	360		
1400	370	640	380		
1500	1000	1180	450		
1600	2300	2300	600		
1700	2300	2300	910		
1800			1300		
Test 2 (9/2/76)					
0900					
1000	300	490	640		
1100	300	480	640		
1200	350	500			
1300	500	580			
1400	880	680			
1500	1100	860			
1600	1180	1500			
1700	1200	1500			

* Data estimated by MRI personnel based upon wind and temperature vertical profiles.

TABLE 19 (cont.)

Time (PDT)	Station				
	Dow	B & W Resort	Livermore	Pinole	Junction J2 & Cal 4
Test 3 (9/4 - 9/5/76)					
1700	1500				
1800	1500	1080			
1900	1020	900			
2000	800				
2100	700				
2200	700				
2300	720				
0000	800	800			
0100	920	720			
0200	900	700			
0300	970				
0400	1100	690			
0500	1300	700			
0600		740			

TABLE 19 (cont.)

Time (PDT)	Station				
	Dow	B & W Resort	Livermore	Pinole	Junction J2 & Cal 4
Test 4 (9/6/76)					
1600		1130			
1700	590	1100			
1800	550	660			
1900	490	560			
2000	440	580			
2100	400				
2200	400	600			
2300	380	570			
0000		520			
Test 5 (9/9/76)					
0900			580		
1000		900	540		
1100	700		540		
1200	780	1120	610		
1300	3000	3000	1190		
1400	3000	3000	3000		
1500			3000		
1600			3000		
1700			3000		
1800			3000		
1900			3000		

TABLE 19 (cont.)

Time (PDT)	Station				
	Dow	B & W Resort	Livermore	Pinole	Junction J2 & Cal 4
Test 6 (9/10/76)					
0730	530				
0800		470			
0830					
0900		490			
0930	730				
1000		540			
1030	920				
1100		730	890		
1130	1150				
1200		1200	910		
1230	3000				
1300		3000			
1400		1240	3000		
1430	3000				
1500		1020	3000		
1600		870	3000		
1700		790	1180		
1800		680	890		
1900		600			

TABLE 19 (cont.)

Time (PDT)	Station				
	Dow	B & W Resort	Livermore	Pinole	Junction J2 & Cal 4
Test 7 (9/13/76)					
0630				460	
0700				450	
0730					
0800	300		410	390	
0900	300		470	330	
1000	300		1160	300	
1100	450		1500	310	
1200	1500		1500	400	
1300	1500		1500	700	
1400	1500		1240	1500	
1500	1500		960	1500	
1600			610		
1700			590		
1800			500		
Test 8 (9/14/76)					
0630				270	
0700				270	
0800	300		690	280	
0900	360		630	350	
1000	490		710	480	
1100	800		3000	400	
1200	3000		3000	300	
1300			3000	300	
1400			3000	380	
1500			3000	520	
1600	3000			3000	3000
1700				3000	3000

6.4 Upper Air Average Wind Data

The data in the following table represent the vector averaged upper air wind speed and direction for each hour where pibal data were available. These data were obtained by averaging the pibal measurements from the surface to the height of the mixing layer.

WIND DATA, LOCATION: OCW PIBAL CODE: OW51

DATE	TIME (PST) 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	300	320	290	290	300	290	270	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	40	40	31	36	22	40	45	-1	-1	-1	-1	-1	-1
9/ 2 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	270	260	260	260	260	260	260	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	58	49	76	40	54	58	63	63	-1	-1	-1	-1	-1	-1
9/ 5 DEG	250	250	250	250	240	220	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	85	63	58	76	49	40	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 6 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	260	250	250	250	260	270
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	49	72	63	72	72	94	80
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	350	280	280	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	36	18	31	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	260	-1	260	250	230	290	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	58	-1	58	63	40	22	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/13 DEG	-1	-1	-1	-1	-1	-1	-1	270	280	290	310	300	300	300	290	290	-1	290	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	76	58	54	27	36	27	27	31	40	-1	36	-1	-1	-1	-1	-1	-1
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	-1	250	260	270	270	260	-1	-1	-1	290	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	94	107	72	72	45	-1	-1	-1	36	-1	-1	-1	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND CATA, LOCATION: B & W RESCRT PIBAL CCDE: BW52

DATE	TIME (PCT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	300	300	-1	280	280	290	280	260	260	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	31	-1	22	22	31	36	36	45	-1	-1	-1	-1	-1
9/ 2 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	290	300	290	280	270	270	270	270	270	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	49	31	22	40	40	58	45	49	49	-1	-1	-1	-1	-1
9/ 5 DEG	270	260	250	-1	230	220	240	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	58	54	54	-1	45	49	45	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 6 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	280	280	280	240	240	250	270
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	27	31	45	49	49	54	49	45
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	350	-1	340	310	290	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	-1	36	36	31	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	-1	260	260	270	250	260	260	230	260	260	250	250	260	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	45	63	49	40	40	27	22	31	36	54	63	67	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: LIVERMORE PIBAL CODE: LV53

DATE	TIME (PST)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
8/31 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	280	220	200	340	270	280	260	270	290	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	13	4	13	18	27	18	31	45	45	-1	-1	-1	-1	-1
9/ 2 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	250	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	31	18	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
9/ 9 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	300	320	300	280	220	140	90	140	190	180	170	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	27	22	31	27	13	13	13	13	27	54	63	-1	-1	-1	-1
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	250	260	310	290	310	290	270	270	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	36	40	22	31	27	18	31	31	-1	-1	-1	-1	-1
9/13 DEG	-1	-1	-1	-1	-1	-1	-1	-1	230	270	20	310	300	290	310	300	260	270	280	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	9	13	9	18	18	27	13	27	40	54	49	-1	-1	-1	-1	-1
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	-1	260	240	240	260	250	250	250	260	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	45	31	49	27	36	45	40	54	-1	-1	-1	-1	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: PINCLE PIBAL CODE: PN54

DATE	TIME (PCT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
9/13 DEG	-1	-1	-1	-1	-1	-1	270	270	240	310	260	230	250	230	280	290	300	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	27	27	18	9	31	9	31	13	31	31	36	-1	-1	-1	-1	-1	-1	-1
9/14 DEG	-1	-1	-1	-1	-1	-1	190	210	200	220	190	190	210	180	190	200	230	220	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	45	40	40	36	63	40	36	40	58	98	94	76	-1	-1	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: JCT. J2 & CAL4 PIEAL CODE: JC55

DATE	TIME (PCT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
9/14 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	270	260	250	240	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	45	49	63	63	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

WIND DATA, LOCATION: BENICIA PIBAL CODE: BE56

DATE	TIME (PDT)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
9/10 DEG	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	310	-1	-1	-1	-1	-1	-1	-1	-1	-1
MPS*10	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	40	-1	-1	-1	-1	-1	-1	-1	-1	-1

-1 INDICATES NO DATA AVAILABLE

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