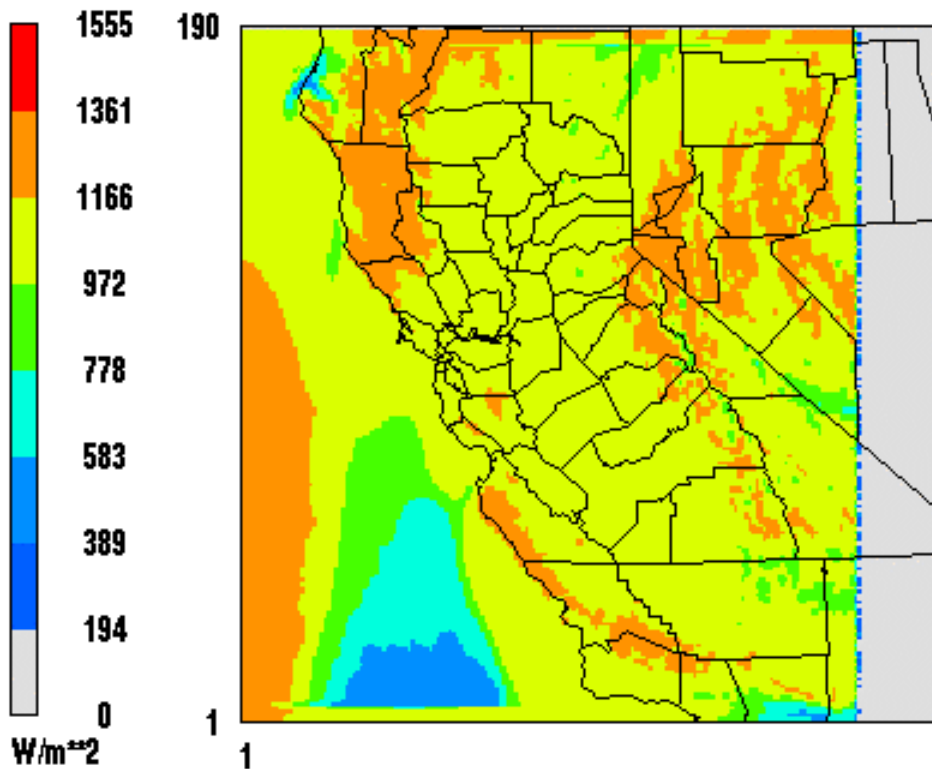


# ARB versus UMD PAR

## ARB PAR

(average for hours 0700 through 2000)



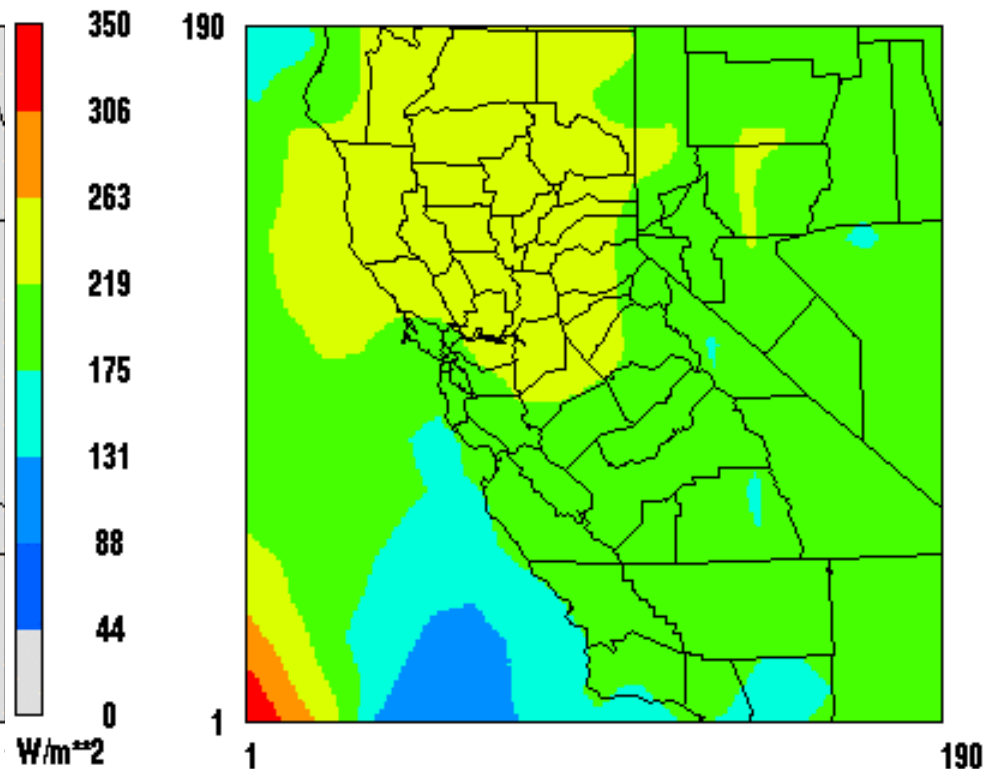
PAVE  
by  
MCNC

July 31, 2000 20:00:00

Min= 0 at (171,1), Max= 1249 at (137,76)

## UMD PAR

(average for hours 0700 through 2000)



PAVE  
by  
MCNC

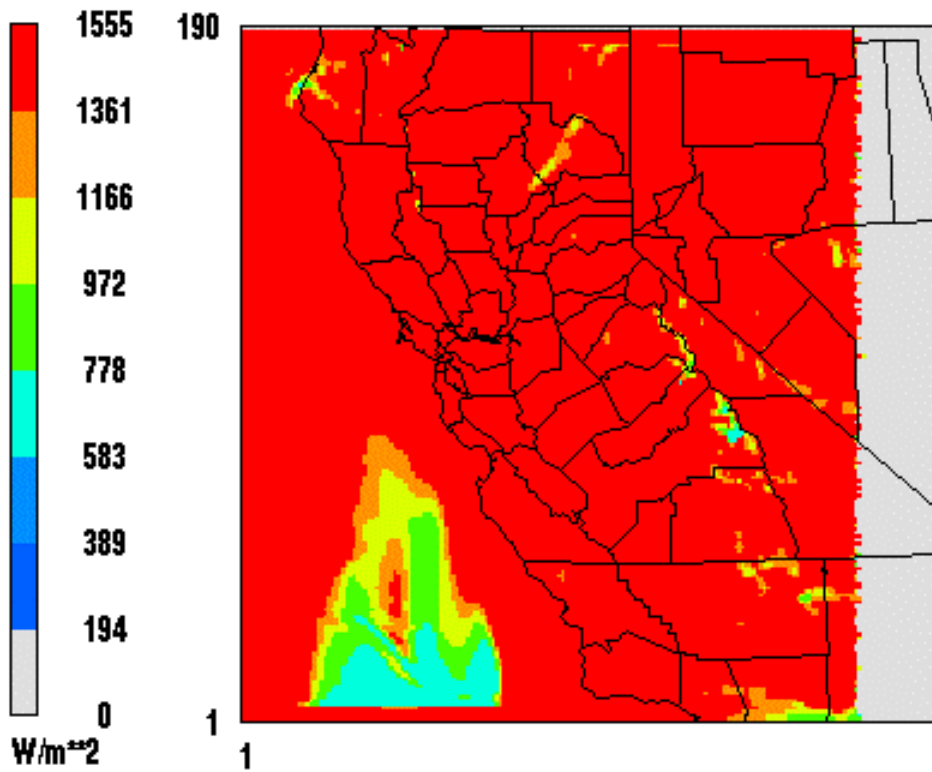
July 31, 2000 20:00:00

Min= 105 at (63,1), Max= 360 at (1,1)

# ARB versus UMD PAR (continued)

## ARB PAR

(hourly PAR)



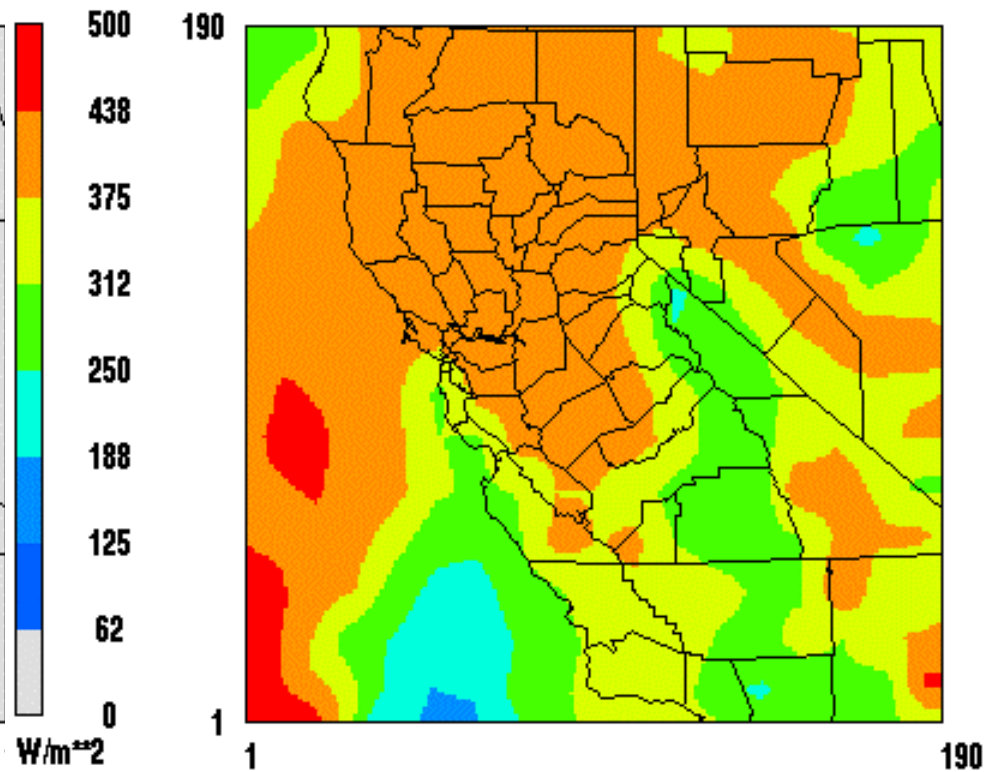
PAVE  
by  
MCNC

July 31, 2000 13:00:00

Min= 0 at (171,1), Max= 2034 at (143,63)

## UMD PAR

(hourly PAR)



PAVE  
by  
MCNC

July 31, 2000 13:00:00

Min= 179 at (62,1), Max= 575 at (1,1)

# On-Road Mobile Sources (30-July)

BAY AREA (tons per day)			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	1	Alameda	349.6	373.1	368.1	56.4	67.8	70.1	39.7	42.7	41.3	0.5	0.6	0.6
6	13	Contra Costa	250.3	268.5	269.9	33.0	38.9	39.8	27.5	29.6	29.3	0.3	0.3	0.3
6	41	Marin	74.5	76.1	75.9	10.6	11.3	11.1	8.2	8.5	8.5	0.1	0.1	0.1
6	55	Napa	37.9	43.7	44.9	5.3	6.4	6.4	4.5	5.1	5.2	0.0	0.0	0.0
6	75	San Francisco	150.2	151.0	152.4	28.1	32.3	33.5	17.0	17.8	17.8	0.3	0.3	0.3
6	81	San Mateo	212.0	222.4	222.0	31.2	34.8	35.3	21.9	23.3	23.2	0.2	0.3	0.3
6	85	Santa Clara	455.1	485.9	494.0	62.3	75.7	75.9	49.2	52.7	53.4	0.5	0.6	0.6
6	95	Solano	99.6	73.7	74.5	14.2	11.7	11.9	11.3	8.3	8.4	0.1	0.1	0.1
6	97	Sonoma	152.1	123.6	125.9	21.5	19.4	19.2	16.9	13.8	14.1	0.2	0.1	0.1
<b>Difference</b>			<b>1781.3</b>	<b>1818.0</b>	<b>1827.6</b>	<b>262.6</b>	<b>298.3</b>	<b>303.2</b>	<b>196.2</b>	<b>201.8</b>	<b>201.2</b>	<b>2.2</b>	<b>2.4</b>	<b>2.4</b>
				<b>36.7</b>	<b>46.3</b>		<b>35.7</b>	<b>40.6</b>		<b>5.6</b>	<b>5.0</b>		<b>0.2</b>	<b>0.2</b>

SACRAMENTO			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	17	El Dorado	56.0	50.4	51.4	5.8	6.7	6.8	6.8	5.4	5.4	0.0	0.0	0.0
6	61	Placer	102.8	87.8	89.6	11.2	13.5	13.5	11.5	9.9	10.1	0.1	0.1	0.1
6	67	Sacramento	389.2	345.0	344.2	48.8	57.1	58.1	43.5	38.9	38.6	0.5	0.4	0.4
6	101	Sutter	31.9	28.8	28.9	3.7	4.6	4.5	3.7	2.4	2.4	0.0	0.0	0.0
6	113	Yolo	56.2	50.1	51.4	11.3	15.3	15.4	6.3	5.7	5.9	0.1	0.1	0.1
<b>Difference</b>			<b>636.1</b>	<b>562.1</b>	<b>565.5</b>	<b>80.8</b>	<b>97.2</b>	<b>98.3</b>	<b>71.8</b>	<b>62.3</b>	<b>62.4</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>
				<b>-74.0</b>	<b>-70.6</b>		<b>16.4</b>	<b>17.5</b>		<b>-9.5</b>	<b>-9.4</b>		<b>-0.1</b>	<b>-0.1</b>

CENTRAL VALLEY			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	19	Fresno	282.3	261.3	265.4	34.4	47.9	48.3	28.9	27.4	27.8	0.3	0.3	0.3
6	29	Kern	281.0	279.1	270.5	34.7	49.7	49.9	26.7	39.7	39.3	0.3	0.3	0.3
6	31	Kings	45.3	45.0	44.0	5.7	7.6	7.6	4.3	3.5	3.5	0.1	0.1	0.0
6	39	Madera	56.0	55.0	56.0	6.5	8.9	9.0	5.4	5.4	5.5	0.1	0.1	0.1
6	47	Merced	110.4	97.4	99.0	14.3	17.6	17.9	10.4	8.8	8.9	0.1	0.1	0.1
6	77	San Joaquin	217.1	189.7	189.0	28.0	33.5	34.3	22.6	19.9	19.8	0.3	0.3	0.3
6	99	Stanislaus	163.8	143.5	146.1	20.1	25.4	25.8	18.1	16.1	16.4	0.2	0.2	0.2
6	107	Tulare	137.9	129.0	130.1	17.3	24.3	24.4	14.6	13.6	13.7	0.2	0.2	0.2
<b>Difference</b>			<b>1293.8</b>	<b>1200.0</b>	<b>1200.1</b>	<b>161.0</b>	<b>214.9</b>	<b>217.2</b>	<b>131.0</b>	<b>134.4</b>	<b>134.9</b>	<b>1.6</b>	<b>1.6</b>	<b>1.5</b>
				<b>-93.8</b>	<b>-93.7</b>		<b>53.9</b>	<b>56.2</b>		<b>3.4</b>	<b>3.9</b>		<b>0.0</b>	<b>-0.1</b>

REMAINING CCOS DOMAIN			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
<b>Difference</b>			<b>1686.4</b>	<b>1757.8</b>	<b>1769.5</b>	<b>217.0</b>	<b>272.8</b>	<b>273.7</b>	<b>185.9</b>	<b>185.8</b>	<b>186.6</b>	<b>1.6</b>	<b>1.7</b>	<b>1.7</b>
				<b>71.4</b>	<b>83.1</b>		<b>55.8</b>	<b>56.7</b>		<b>-0.1</b>	<b>0.7</b>		<b>0.1</b>	<b>0.1</b>

# On-Road Mobile Sources (31-July)

BAY AREA (tons per day)			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	1	Alameda	405.2	443.0	430.1	75.5	76.2	79.0	46.4	51.0	48.8	0.6	0.6	0.6
6	13	Contra Costa	295.9	321.3	320.4	42.1	44.1	45.3	32.8	35.6	35.0	0.3	0.3	0.3
6	41	Marin	83.0	87.2	87.2	12.8	12.5	12.5	9.3	9.8	9.8	0.1	0.1	0.1
6	55	Napa	43.3	52.3	54.5	6.9	7.3	7.3	5.2	6.1	6.4	0.0	0.1	0.1
6	75	San Francisco	166.4	173.0	171.3	37.8	35.5	37.6	19.3	20.5	20.1	0.3	0.3	0.3
6	81	San Mateo	236.1	255.4	254.8	39.1	38.6	39.5	24.6	26.7	26.6	0.3	0.3	0.3
6	85	Santa Clara	528.8	563.7	583.0	81.5	85.9	86.3	57.2	61.4	63.4	0.6	0.7	0.7
6	95	Solano	118.0	88.7	89.4	18.7	13.4	13.7	13.4	10.1	10.1	0.1	0.1	0.1
6	97	Sonoma	177.1	144.7	149.2	28.6	21.9	21.7	19.9	16.3	16.9	0.2	0.2	0.2
<b>Difference</b>			<b>2053.8</b>	<b>2129.3</b>	<b>2139.9</b>	<b>343.0</b>	<b>335.4</b>	<b>342.9</b>	<b>228.1</b>	<b>237.5</b>	<b>237.1</b>	<b>2.5</b>	<b>2.7</b>	<b>2.7</b>
				<b>75.5</b>	<b>86.1</b>		<b>-7.6</b>	<b>-0.1</b>		<b>9.4</b>	<b>9.0</b>		<b>0.2</b>	<b>0.2</b>

SACRAMENTO			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	17	El Dorado	58.7	59.1	60.7	7.0	7.7	7.8	7.1	6.6	6.7	0.0	0.0	0.0
6	61	Placer	109.9	103.6	106.6	13.7	15.5	15.6	12.3	11.7	12.1	0.1	0.1	0.1
6	67	Sacramento	399.0	391.7	390.7	62.0	65.2	66.0	46.1	46.2	46.6	0.5	0.5	0.5
6	101	Sutter	33.2	32.9	34.0	4.7	5.2	5.3	3.9	2.4	2.5	0.0	0.0	0.0
6	113	Yolo	58.2	58.3	58.6	16.5	17.5	17.6	6.8	6.9	7.1	0.2	0.2	0.2
<b>Difference</b>			<b>659.0</b>	<b>645.6</b>	<b>650.6</b>	<b>103.9</b>	<b>111.1</b>	<b>112.3</b>	<b>76.2</b>	<b>73.8</b>	<b>75.0</b>	<b>0.8</b>	<b>0.8</b>	<b>0.8</b>
				<b>-13.4</b>	<b>-8.4</b>		<b>7.2</b>	<b>8.4</b>		<b>-2.4</b>	<b>-1.2</b>		<b>0.0</b>	<b>0.0</b>

CENTRAL VALLEY			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	19	Fresno	318.7	296.7	303.7	47.6	53.6	53.9	32.7	31.0	31.8	0.4	0.4	0.4
6	29	Kern	325.9	320.1	309.9	47.6	55.8	55.9	30.8	45.2	44.6	0.4	0.4	0.4
6	31	Kings	51.4	51.1	49.9	7.8	8.6	8.6	4.9	3.9	4.0	0.1	0.1	0.1
6	39	Madera	65.2	63.1	65.2	9.0	10.1	10.2	6.3	6.2	6.4	0.1	0.1	0.1
6	47	Merced	113.0	113.3	111.5	18.9	20.1	20.2	10.6	10.8	11.0	0.1	0.1	0.1
6	77	San Joaquin	228.7	225.8	217.0	36.6	38.5	38.8	23.8	23.7	23.6	0.3	0.3	0.3
6	99	Stanislaus	170.9	168.6	167.2	26.8	29.0	29.2	19.0	19.0	19.4	0.2	0.2	0.2
6	107	Tulare	156.1	146.5	148.4	23.9	27.3	27.4	16.3	15.5	15.6	0.2	0.2	0.2
<b>Difference</b>			<b>1429.9</b>	<b>1385.2</b>	<b>1372.8</b>	<b>218.2</b>	<b>243.0</b>	<b>244.2</b>	<b>144.4</b>	<b>155.3</b>	<b>156.4</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>
				<b>-44.7</b>	<b>-57.1</b>		<b>24.8</b>	<b>26.0</b>		<b>10.9</b>	<b>12.0</b>		<b>0.0</b>	<b>0.0</b>

REMAINING CCOS DOMAIN			CO			NOX			TOG			SOX		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
<b>Difference</b>			<b>1975.3</b>	<b>2012.4</b>	<b>2025.3</b>	<b>292.4</b>	<b>305.3</b>	<b>306.0</b>	<b>218.7</b>	<b>214.3</b>	<b>215.9</b>	<b>1.9</b>	<b>1.9</b>	<b>1.9</b>
				<b>37.1</b>	<b>50.0</b>		<b>12.9</b>	<b>13.6</b>		<b>-4.4</b>	<b>-2.8</b>		<b>0.0</b>	<b>0.0</b>



# Biogenics (31-July)

<b>BAY AREA (tons per day)</b>			ISO			MON			OVOC			MBO			tog		
stid	cyid	county	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
6	1	Alameda	19.3	18.4	13.1	7.1	7.8	6.2	8.5	8.9	6.9	1.9	3.6	3.5	36.7	38.8	29.7
6	13	Contra Costa	19.5	15.9	13.6	6.2	6.2	5.5	7.8	6.7	5.8	0.3	0.4	0.4	33.8	29.2	25.3
6	41	Marin	6.3	6.8	8.1	3.7	4.6	4.8	3.0	3.4	3.9	0.0	0.0	0.0	12.9	14.9	16.9
6	55	Napa	51.0	46.0	49.2	4.9	6.1	7.3	22.8	25.4	27.2	20.2	32.7	34.1	98.9	110.3	117.7
6	75	San Francisco	0.7	1.3	0.8	0.4	0.5	0.4	0.3	0.5	0.4	0.0	0.0	0.0	1.4	2.4	1.6
6	81	San Mateo	6.2	7.1	7.3	7.3	9.2	9.2	4.1	4.9	5.0	0.0	0.0	0.0	17.6	21.3	21.5
6	85	Santa Clara	54.6	42.2	45.7	9.8	10.4	11.5	21.7	19.8	21.2	7.9	13.3	13.3	94.0	85.7	91.7
6	95	Solano	15.1	13.3	13.1	5.9	6.2	6.5	6.6	6.3	6.4	1.1	1.6	1.7	28.7	27.4	27.6
6	97	Sonoma	81.9	73.0	80.9	10.4	13.8	15.8	30.0	29.4	32.5	7.6	11.2	11.6	129.9	127.5	140.9
			254.5	224.0	231.9	55.6	64.9	67.3	104.8	105.5	109.1	39.1	62.8	64.6	454.0	457.2	472.9
<b>Difference</b>				<b>-30.4</b>	<b>-22.6</b>		<b>9.2</b>	<b>11.6</b>		<b>0.8</b>	<b>4.4</b>		<b>23.7</b>	<b>25.5</b>		<b>3.3</b>	<b>18.9</b>
<b>OUTSIDE BAY AREA</b>			ISO			MON			OVOC			MBO			tog		
			ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS	ARB	BAAQMD	RAMS
			1732.4	1874.4	1853.0	801.5	1317.9	1359.8	954.8	1345.4	1351.2	648.8	1292.3	1291.3	4137.5	5829.9	5855.2
<b>Difference</b>				<b>142.0</b>	<b>120.5</b>		<b>516.4</b>	<b>558.3</b>		<b>390.5</b>	<b>396.4</b>		<b>643.4</b>	<b>642.4</b>		<b>1692.3</b>	<b>1717.7</b>



# *Episodic Emissions Comparison For BAAQMD*

Source	CO					NOX					SOX					TOG				
	July-August 2000			Jul-99		July-August 2000			Jul-99		July-August 2000			Jul-99		July-August 2000			Jul-99	
	J-WE	J-WD	A-WD	WE	WD	J-WE	J-WD	A-WD	WE	WD	J-WE	J-WD	A-WD	WE	WD	J-WE	J-WD	A-WD	WE	WD
EGU	14	29	41	9	9	21	27	30	15	16	1	2	2	1	1	17	18	20	14	14
Other	37	39	251	36	38	84	87	86	77	81	72	70	66	62	63	361	413	420	361	413
Area	20	20	20	22	22	19	19	19	23	23	-	-	-	-	-	380	385	385	387	393
Ship	2	3	3	4	3	10	13	14	17	14	5	7	7	8	7	1	1	1	1	1
Off-road	864	478	478	877	487	161	214	214	163	217	10	10	10	10	10	156	88	88	160	90
On-road	1,781	2,054	2,047	1,673	1,689	263	343	331	296	296	2	3	3	2	2	196	228	229	222	227
Bio						9	10	10	11	13						337	454	419	638	726
Total	2,718	2,623	2,840	2,621	2,248	567	713	704	602	660	90	92	88	83	83	1,448	1,587	1,562	1,783	1,864