

MONTHLY 8-HR OZONE FORECAST PROGRAM REPORT FOR APRIL 2003

[AQI COLOR SCALE \(ppb\)](#)

GOOD 0-64	MODERATE 65-84	UNHEALTHY FOR SENSITIVE GROUPS 85-104	UNHEALTHY 105-124
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[Calendar of maximum 8-Hr values for April 2003 \(ppb\) B](#)

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 57	2 63	3 64	4 67	5 65
6 64	7 63	8 63	9 65	10 63	11 70	12 67
13 59	14 40	15 59	16 72	17 62	18 58	19 71
20 67	21 60	22 62	23 66	24 76	25 60	26 59
27 65	28 59	29 62	30 67			

[Exceedance Days](#) B Total: 0 Date Max Value/AQI Site/s

Total number of days with exceedances since April 1 B 0
Total number of sites with exceedances since April 1 B 0

[Health Watches Issued](#) B Total: 0 Date Max Value/AQI Site/s

[Health Warnings Issued](#) B Total: 0 Date Max Value Site/s

[Concentration Recap](#) B

Days in Good range:	18
Days in Moderate range:	12
Days in Unhealthy for Sensitive Groups range:	0
Days in Unhealthy range:	0
Total Forecast Days:	30

Maximum 8-HR value:	<u>Date</u>	<u>PPB/AQI</u>	<u>DOW</u>	<u>Site</u>	<u>Hour</u>
	4/24	76/79	Thu	Tonto N.M	1300
Maximum 1-HR value:	4/24	81/68	Thu	Tonto N.M	1600

Average daily max concentration (ppb):	63.2
Deviation from 1996-2002 average (ppb):	- 6.4

[April Climatology \(1996-2002\) B](#) Avg number of 8-Hr exceedances: <1

Maximum number of 8-Hr exceedances:	1 in 1996/8/9, 2000
Minimum number of 8-Hr exceedances:	0 in 1997, 2000/2002
Avg daily maximum 8-Hr concentration (ppb):	69.6
Record high maximum 8-Hr concentration (ppb):	99 on the 29 th , 1996
Record low maximum 8-Hr concentration (ppb):	47 on the 15 th , 2002

[Forecast Verification B](#)

Days maximum value was over-forecast:	17
Days maximum value was under-forecast:	13
April forecast accuracy (ppb):	6.2
April forecast bias (ppb):	+1.0

[Narrative B](#)

During April the storm track was unusually active at our latitude and this was instrumental in keeping the average daily maximum ozone concentration well below the climatological average. This was due to the almost daily breezy conditions as well as below average daytime temperatures that the disturbances provided. During the month there appeared to be several episodes of ozone/precursor import from Southern California B carried over the area on westerly winds aloft following trough/frontal passages. These were identified by subtle and occasionally marked increases in local ozone levels and help to explain the moderate ozone levels during most of the weekends. The lowest value of the month occurred on the 14th when persistent thick clouds in advance of a trough were overhead. The highest value was measured on the 24th, a day characterized by light winds, fair dispersion, and elevated background ozone.