



**MONTHLY AIR QUALITY REPORT FOR
JANUARY 2008**

AOI COLOR SCALE

GOOD 0-50	MODERATE 51-100	UNHEALTHY FOR SENSITIVE GROUPS 101-150	UNHEALTHY 151-200
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Calendar of maximum AQI values & their corresponding color for January 2008*

*Preliminary data

SAMPLE POLLUTANT REPORTING BOX

1 (day of month)	O3	CO
	PM10	PM2.5

	SUN	MON	TUE	WED	THU	FRI	SAT
			1	2	3	4	5
			38 30 49 70	33 08 57 17	28 18 68 49	23 24 63 51	20 26 38 38
6	25 09 14 24	7	27 10 16 25	8	23 19 46 63	11	12
			30 22 31 44	9	24 24 53 91	10	11
13	34 23 30 74	14	36 06 39 12	15	36 08 27 17	18	19
			64 55	16	35 22 68 66	17	18
20	33 32 35 79	21	36 20 61 66	22	29 09 32 34	25	26
			33 23 59 62	23	30 20 30 46	24	25
27	27 23 17 44	28	34 10 14 17	29	31 11 36 15		
			30 13 42 30	30			
			41 28	31			

Calendar of High Pollution Advisories and Health Watches issued during January 2008

SUN			MON			TUE			WED			THU			FRI			SAT		
					1				2			3			4			5		
						E														
1			7						8			9			10			11		
																		E		
13			14						15			16			17			18		
20			21						22			23			24			25		
27			28						29			30			31					

LEGEND

HIGH POLLUTION ADVISORIES
A = PM-10 High Pollution Advisory
B = PM-2.5 High Pollution Advisory
C = Ozone High Pollution Advisory

HEALTH WATCHES
D = PM-10 Health Watch
E = PM-2.5 Health Watch
F = Ozone Health Watch

Calendar of Meteorological Conditions observed in Metro Phoenix during January 2008

SUN			MON			TUE			WED			THU			FRI			SAT		
					1				2			3			4			5		
								F												
6			7					C	8			9			10			11		
																		E		
13			14						15			16			17			18		
20			21						22			23			24			25		
27			28						29			30			31					

LEGEND

ELECTROMETEORS
A = Thunderstorm

HYDROMETEORS
B = Rain/Drizzle/Hail/Snow
C = Fog

LITHOMETEORS
D = Blowing Dust
E = Haze (vsby <10SM)
F = Smoke

Exceedance days during JAN 2008-

Total= 0 Date Max AQI Pollutant Site/s

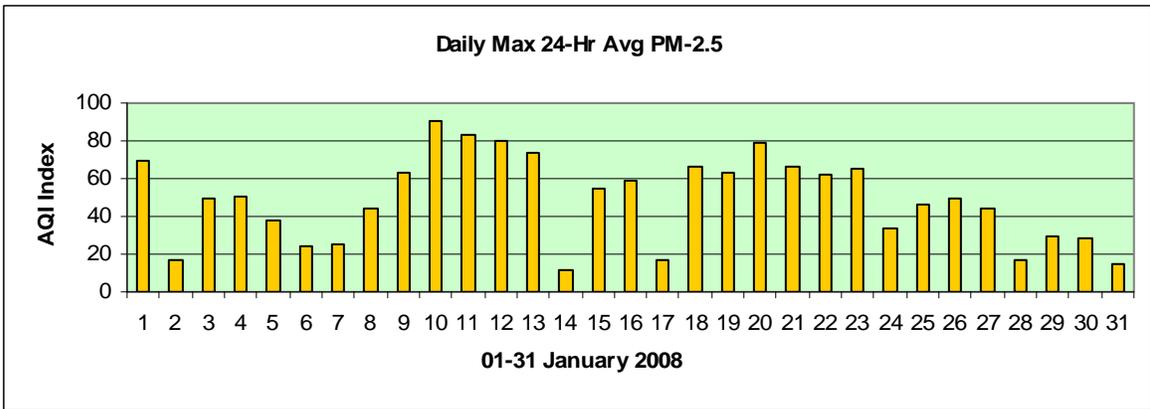
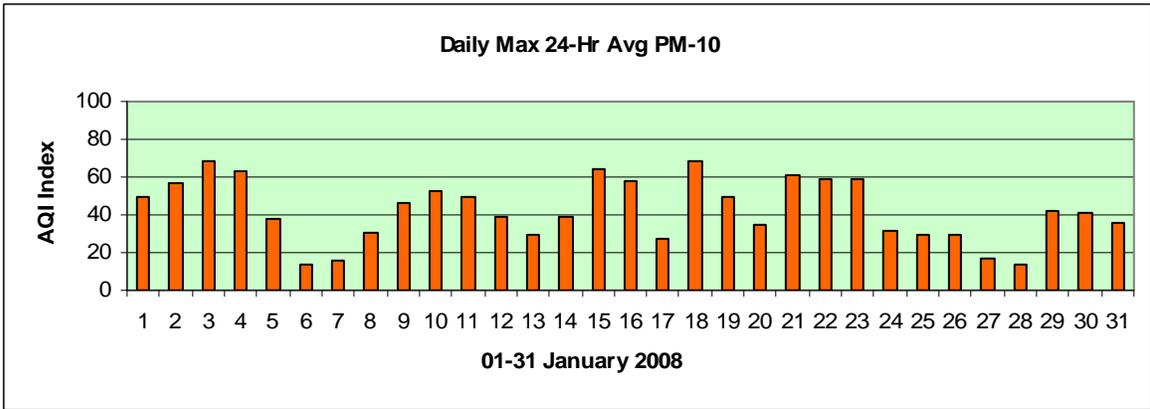
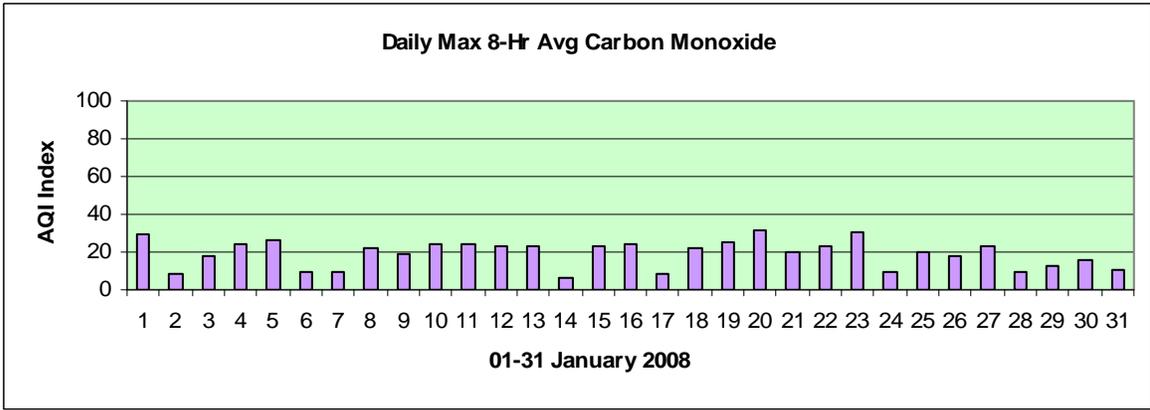
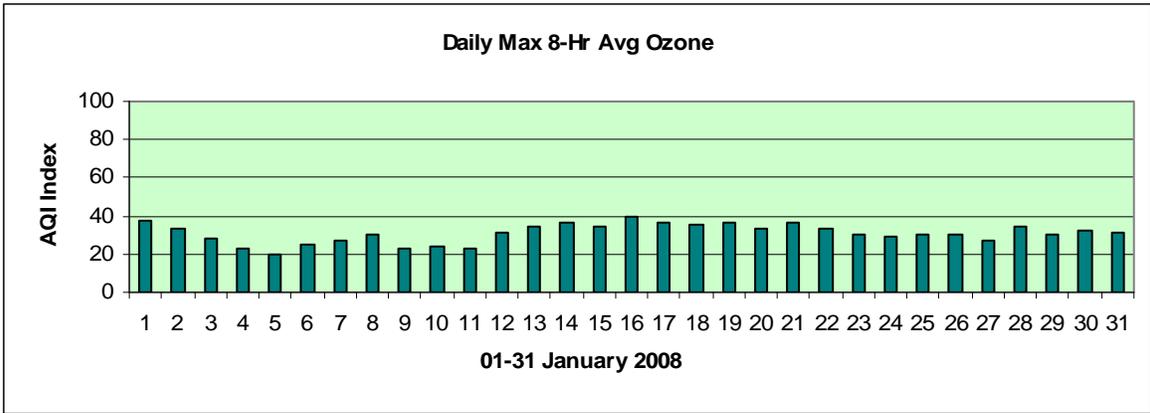
Health Watches issued during JAN 2008-

Total= 4 Date Max AQI Pollutant Site/s
01/01 70 PM-2.5 Durango
01/11 83 PM-2.5 West Phoenix
01/12 80 PM-2.5 Phoenix Supersite
01/13 74 PM-2.5 Phoenix Supersite

High Pollution Advisories issued during JAN 2008-

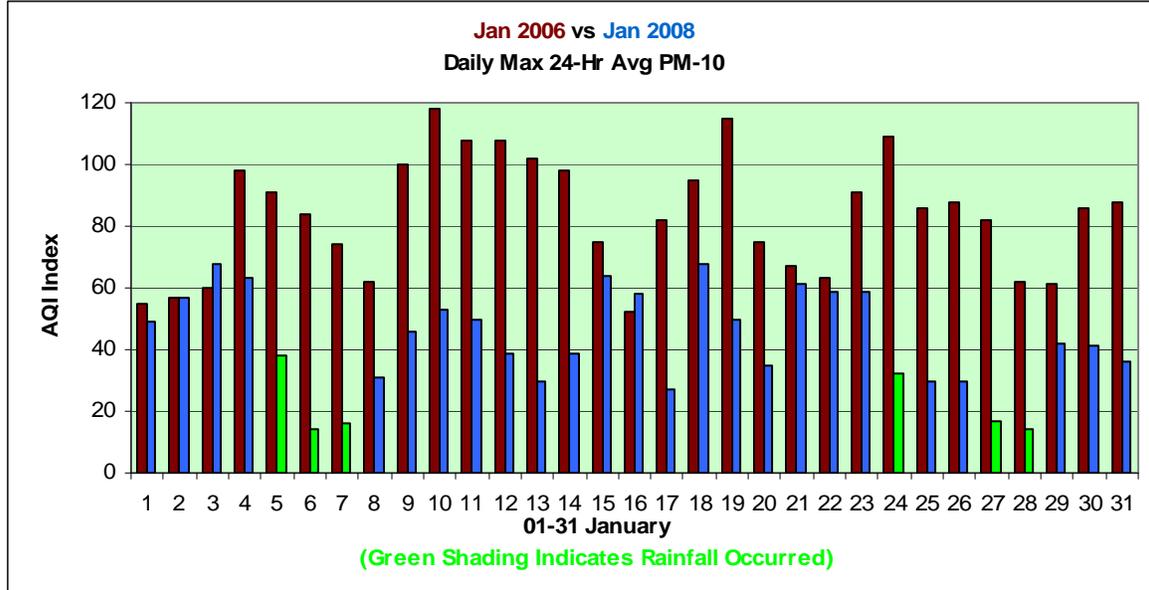
Total= 0 Date Max AQI Pollutant Site/s

Concentration Recap: Days in the **Good** category: 14
Days in the **Moderate** category: 17
Days in the **Unhealthy for Sensitive Groups** category: 0
Days in the **Unhealthy** category: 0
Total Forecast Days: 31



Narrative:

During January 2008 the Phoenix metro area continued to benefit from an active mid-latitude storm track. Despite ongoing weak to moderate La Nina conditions, a series of trough and frontal passages managed to deliver widespread moderate to heavy rainfall to the local forecast area during the first and final weeks of the month, and several breezy to gusty wind episodes at other times. When it came to local coarse particle (PM-10) concentrations, rainfall made all the difference. The graph below compares the daily highest PM-10 AQI levels for the month of January 2006 – during which no rainfall occurred – to those of January 2008.



Even though PM-10 levels were relatively low all month, local visibilities were still hampered between rainy periods by a combination of high humidity and suspended fine particles (PM-2.5), especially from the 10th thru the 13th. On these days fog that was present during the morning hours transitioned to haze by afternoon with visibilities in the 5-10 mile range rather common. Finally, it is interesting to note that despite the rainy period from the 5th thru the 8th, areas of blowing dust were reported on the 14th and again on the 16th in response to wind gusts of 30-40 mph affiliated with strong pressure gradients. -Reith