

MONTHLY AIR QUALITY REPORT FOR OCTOBER 2003

AOI COLOR SCALE

GOOD	MODERATE	UNHEALTHY FOR SENSITIVE GROUPS	UNHEALTHY
0-50	51-100	101-150	151-200

POLLUTANT REPORTING BOX MODEL

1 (date)	O3	CO
	PM10	PM2.5

Calendar of maximum AQI values & corresponding scale color for October 2003*
*Preliminary data

SUN			MON			TUES			WED			THU			FRI			SAT		
								1	59	17		2	41	18	3	42	10	4	45	27
									52	29			52	29		41	n/a		44	22
5	45	35	6	42	31	7	34	19	8	44	17	9	41	25	10	31	24	11	50	24
	45	30		52	29		46	28		43	24		47	31		16	34		29	23
12	56	27	13	50	28	14	54	27	15	48	35	16	41	27	17	46	35	18	48	40
	32	25		44	28		51	29		45	27		51	28		52	30		54	31
19	49	42	20	48	35	21	46	36	22	48	31	23	51	39	24	59	45	25	47	31
	51	35		53	33		57	34		55	32		57	33		66	49		61	45
26	39	22	27	37	40	28	41	40	29	42	36	30	51	38	31	47	09			
	43	23		62	35		62	41		64	44		64	75		51	65			

**VIOLET FILL INDICATES THAT A HIGH POLLUTION ADVISORY WAS IN EFFECT

Exceedance days during OCT 2003-

Total= 0 Date Max AQI Pollutant Site/s

Health Watches issued during OCT 2003-

Total= 0 Date Max AQI Pollutant Site/s

High Pollution Advisories issued during OCT 2003-

Total= 2 Date Max AQI Pollutant Site/s
 10/30 75 PM-2.5 VEI
 10/31 65 PM-2.5 Estrella

<u>Concentration Recap:</u>	Days in the Good category:	11
	Days in the Moderate category:	20
	Days in the Unhealthy for Sensitive Groups category:	0
	Days in the Unhealthy category:	0
	Total Forecast Days:	31

Narrative: Summer heat persisted during most of October and record maximum temperatures occurred at Sky Harbor from the 17th thru the 23rd. The 100-degree reading on the 23rd was the latest occurrence ever. The heat probably contributed to the moderate ozone readings between the 12th and the 24th. The high temperatures combined with breezy periods due to a series of weak trough passages prevented any long-term air stagnation with PM and CO readings kept at rather low levels. The only significant pollution episode occurred during the last two days of the month. Extensive smoke caused by wildfires in California was transported mainly over the western half of Arizona by southwest to west winds aloft ahead of a strong upper trough. These winds also carried aloft a good deal of dust and the two combined to increase particulate levels which approached or reached unhealthy levels at times over the local forecast area, mainly on Thursday the 30th. The event was predicted as early as the preceding Monday and timely information was provided to the public via high pollution and smoke advisories. The coordination and subsequent response by all was meritorious. -Reith



