

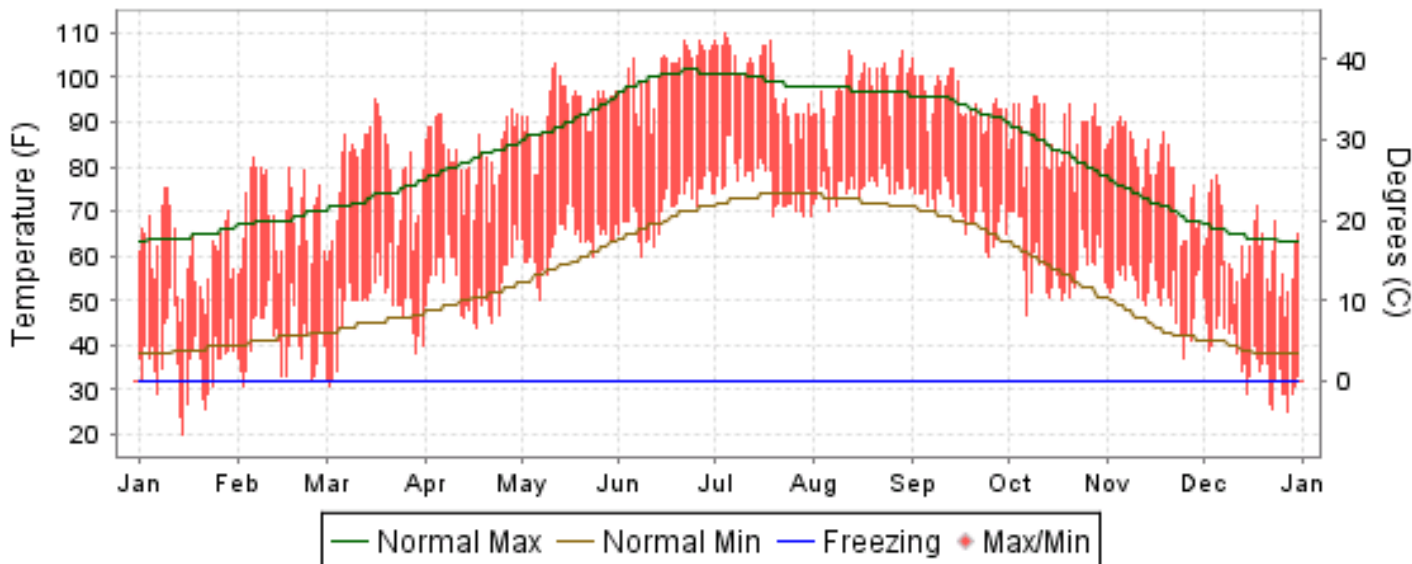


2007 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

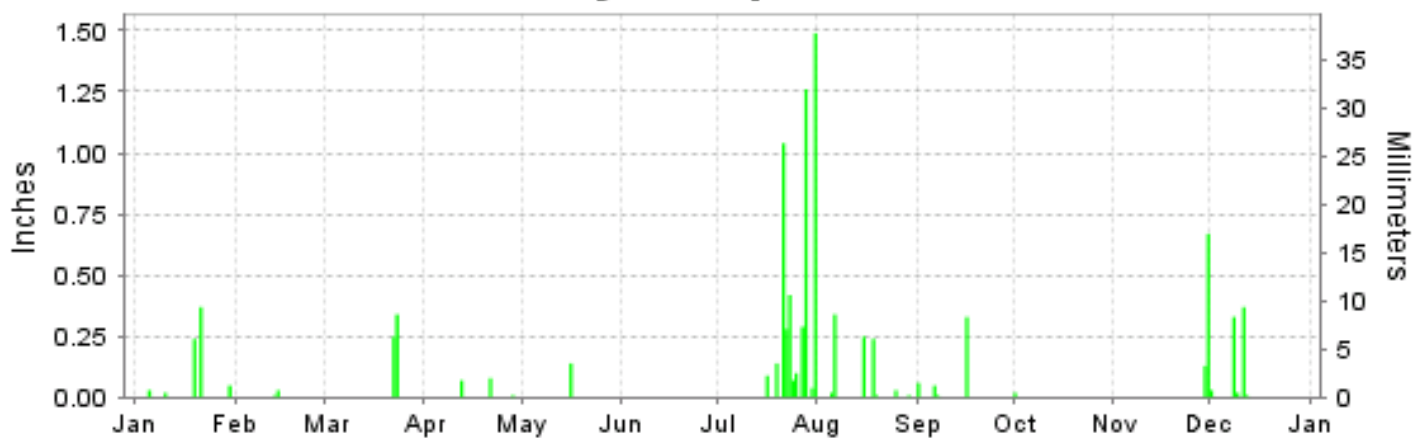
ISSN 0198-0580

TUCSON, ARIZONA (KTUS)

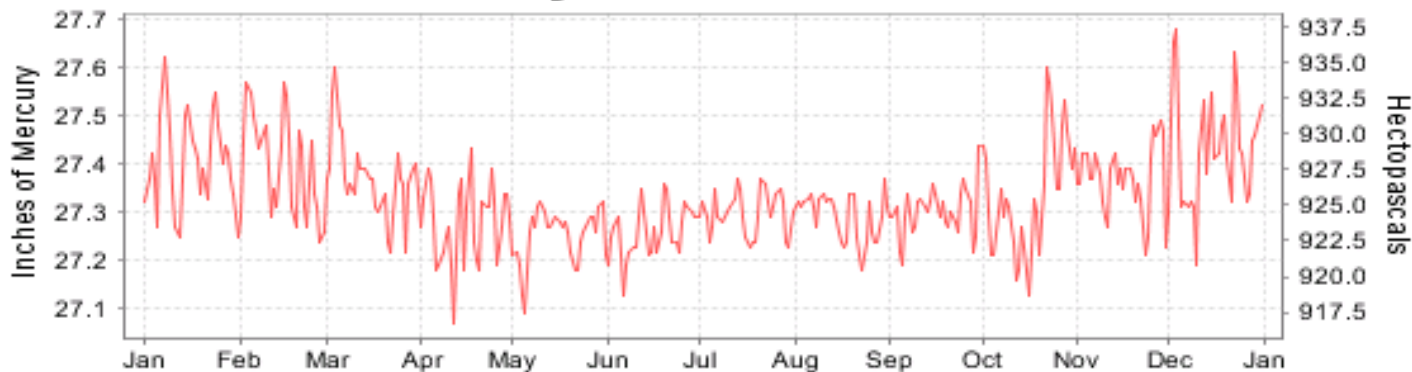
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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ENVIRONMENTAL SATELLITE, DATA
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2007

TUCSON (KTUS)

LATITUDE: 32° 7' N LONGITUDE: -110° 57' W ELEVATION (FT): GRND: 2549 BARO: 2581 TIME ZONE: MOUNTAIN (UTC -7) WBAN: 23160

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	60.7	69.8	78.3	83.3	93.3	101.5	99.8	98.0	95.3	87.3	79.9	61.4	84.1	
	HIGHEST DAILY MAXIMUM	75	82	95	93	103	108	110	106	104	96	91	78	110	
	DATE OF OCCURRENCE	10+	06	16	28	12	26+	04	29+	01	10+	05	05	JUL 04	
	MEAN DAILY MINIMUM	36.5	41.0	47.8	53.8	62.8	70.5	76.0	75.7	70.6	58.4	51.5	37.0	56.8	
	LOWEST DAILY MINIMUM	20	31	31	44	50	60	69	70	60	47	37	25	20	
	DATE OF OCCURRENCE	15	03	02	17	07	08	31+	06	25	07	25	28	JAN 15	
	AVERAGE DRY BULB	48.6	55.4	63.1	68.6	78.1	86.0	87.9	86.9	83.0	72.9	65.7	49.2	70.5	
	MEAN WET BULB	39.6	42.2	45.3	49.4	53.9	58.1	67.8	70.3	64.1	52.7	48.7	40.5	52.7	
	MEAN DEW POINT	28.0	24.8	20.8	26.8	28.6	32.1	32.1	32.1	32.1	32.4	31.1	29.5	35.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	3	6	23	28	29	29	27	14	3	0	162	
	MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MINIMUM <= 32°	9	2	3	0	0	0	0	0	0	0	0	9	23	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	498	262	131	37	0	0	0	0	0	2	68	480	1478	
	COOLING DEGREE DAYS	0	0	80	149	413	636	714	684	547	250	96	0	3569	
RH	MEAN (PERCENT)	51	37	25	25	18	16	42	49	39	27	32	53	35	
	HOUR 05 LST	64	53	37	40	31	26	56	69	54	40	41	68	48	
	HOUR 11 LST	38	27	16	16	12	11	30	38	29	18	25	39	25	
	HOUR 17 LST	41	23	16	14	11	10	32	35	29	19	25	40	25	
	HOUR 23 LST	59	41	28	30	21	18	50	56	45	31	37	62	40	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	0	0	0	0	1	0	0	0	0	2	4	
	THUNDERSTORMS	0	0	1	1	1	1	11	7	3	0	0	0	25	
CLOUDNESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	27.41	27.40	27.37	27.28	27.25	27.30	27.30	27.29	27.30	27.34	27.37	27.43	27.34	
	MEAN SEA-LEVEL PRESS. (IN.)	30.05	30.02	29.96	29.84	29.79	29.80	29.82	29.81	29.83	29.90	29.95	30.07	29.90	
WINDS	RESULTANT SPEED (MPH)	2.6	1.3	1.8	3.0	2.6	2.1	0.8	2.3	3.3	2.6	2.8	1.9	1.8	
	RES. DIR. (TENS OF DEGS.)	12	20	14	22	21	26	19	16	17	15	15	19	18	
	MEAN SPEED (MPH)	5.8	6.7	8.2	7.8	7.5	6.8	7.0	5.7	6.8	7.4	5.8	5.6	6.8	
	PREVAIL.DIR.(TENS OF DEGS.)	11	13	14	14	15	15	14	15	15	15	15	15	15	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	25	36	38	32	33	44	36	37	33	30	32	44	
	DIR. (TENS OF DEGS.)	10	26	12	14	17	17	13	13	14	12	13	20	13	
	DATE OF OCCURRENCE	18	19	04	28	16	11	19	30	01	24	15	10	JUL 19	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	32	43	43	41	43	52	54	43	44	37	41	54	
DIR. (TENS OF DEGS.)	09	26	11	14	18	26	12	12	14	12	13	19	12		
DATE OF OCCURRENCE	18	19	04	28	29	06	19	15	01	24	15	10	AUG 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.71	0.04	0.59	0.16	0.14	T	5.22	0.90	0.45	0.02	0.80	0.76	9.79	
	GREATEST 24-HOUR (IN.)	0.37	1.70	0.51	0.08	0.14	T	1.54	0.36	0.33	0.02	0.67	0.38	1.70	
	DATE OF OCCURRENCE	21	12-13	22-23	21	16	11	27-28	05-06	16	01	30	11-12	FEB 12-13	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	5	2	2	3	1	0	11	7	4	1	2	5	43	
PRECIPITATION 0.10	2	0	2	0	1	0	8	3	1	0	2	2	21		
PRECIPITATION 1.00	0	0	0	0	0	0	3	0	0	0	0	0	3		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	
	GREATEST 24-HOUR (IN.)	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	
	DATE OF OCCURRENCE	22+												JAN 22+	
	MAXIMUM SNOW DEPTH (IN.)	0	0	0	0	0	0	0	0	0	0	0	0	0	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	0	0	0		

NORMALS, MEANS, AND EXTREMES TUCSON (KTUS)

LATITUDE:
32 ° 7 'N

LONGITUDE:
-110° 57'W

ELEVATION (FT):
GRND: 2549 BARO: 2581

TIME ZONE:
MOUNTAIN (UTC -7)

WBAN: 23160

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	64.5	68.4	73.3	81.5	90.4	100.	99.6	97.4	94.0	84.0	72.3	64.6	82.5
	MEAN DAILY MAXIMUM	59	64.8	68.2	73.2	81.5	90.4	99.6	99.3	96.9	94.1	84.5	73.1	65.2	82.6
	HIGHEST DAILY MAXIMUM	67	87	92	99	104	109	117	114	112	107	102	93	84	117
	YEAR OF OCCURRENCE		1999	1957	1988	1989	2005	1990	1995	1993	2000	1993	1999	1954	JUN 1990
	MEAN OF EXTREME MAXS.	59	78.1	81.4	86.6	93.4	101.1	107.8	107.8	104.5	102.1	95.4	84.9	77.8	93.4
	NORMAL DAILY MINIMUM	30	38.9	41.6	45.1	50.5	58.6	68.0	73.4	72.4	67.7	57.0	45.1	39.2	54.8
	MEAN DAILY MINIMUM	59	38.7	41.0	44.9	50.9	58.8	68.1	74.4	72.5	67.8	56.9	45.4	39.0	54.9
	LOWEST DAILY MINIMUM	67	16	20	20	27	38	47	59	61	44	26	24	16	16
	YEAR OF OCCURRENCE		1949	1955	1965	1945	1950	1955	1992	1956	1965	1971	1979	1974	DEC 1974
	MEAN OF EXTREME MINS.	59	26.9	29.6	32.4	39.4	46.8	57.0	67.0	66.5	58.8	43.8	32.0	26.9	43.9
	NORMAL DRY BULB	30	51.7	55.0	59.2	66.0	74.5	84.1	86.5	84.9	80.9	70.5	58.7	51.9	68.7
	MEAN DRY BULB	59	51.8	54.6	59.1	66.2	74.6	83.9	86.8	84.7	81.0	70.7	59.3	52.1	68.7
	MEAN WET BULB	24	40.4	41.9	44.5	47.5	52.3	57.7	66.2	68.1	62.4	53.2	44.6	40.4	51.6
	MEAN DEW POINT	24	30.3	30.8	30.9	30.6	33.9	39.5	55.7	60.5	52.0	41.4	32.8	30.1	39.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.8	5.4	18.3	28.5	29.2	29.0	24.3	9.4	0.2	0.0	145.1
	MAXIMUM <= 32	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MINIMUM <= 32	30	5.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	*	1.5	4.8	13.9	
MINIMUM <= 0	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	401	275	194	76	7	0	0	0	0	33	195	397	1578
	NORMAL COOLING DEG. DAYS	30	0	3	25	107	300	577	672	625	477	211	20	0	3017
RH	NORMAL (PERCENT)	30	49	45	39	28	24	21	40	47	41	39	43	50	39
	HOURLY 05 LST	30	62	59	55	43	37	33	55	64	57	53	56	62	53
	HOURLY 11 LST	30	41	36	31	21	18	17	32	37	33	32	34	41	31
	HOURLY 17 LST	30	31	27	24	16	14	13	27	32	27	25	27	33	25
	HOURLY 23 LST	30	57	50	43	31	26	23	44	52	46	44	49	56	43
S	PERCENT POSSIBLE SUNSHINE	52	80	81	86	92	93	92	78	80	87	88	85	79	85
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	44	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.8
	THUNDERSTORMS	59	0.3	0.3	0.5	0.7	1.6	2.6	13.0	13.4	5.2	1.8	0.4	0.3	40.1
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)				2.4		0.0	1.6							
	MIDNIGHT-MIDNIGHT (OKTAS)						0.0	1.6							
	MEAN NO. DAYS WITH: CLEAR	1	1.0	5.0	12.0		27.0	15.0							
	PARTLY CLOUDY	1	1.0	3.0	3.0		1.0	2.0							
CLOUDY			4.0	1.0			1.0								
PR	MEAN STATION PRESSURE(IN)	24	27.41	27.38	27.33	27.29	27.26	27.26	27.31	27.32	27.30	27.33	27.38	27.41	27.33
	MEAN SEA-LEVEL PRES. (IN)	24	30.04	29.99	29.92	29.86	29.80	29.77	29.83	29.85	29.82	29.89	29.98	30.04	29.90
WINDS	MEAN SPEED (MPH)	24	7.4	7.8	8.2	8.6	8.5	8.5	8.3	7.8	8.1	7.8	7.5	7.1	8.0
	PREVAIL.DIR(TENS OF DEGS)	28	14	15	15	15	15	15	15	15	15	15	15	15	15
	MAXIMUM 2-MINUTE: SPEED (MPH)	12	33	37	40	39	33	48	55	48	44	38	33	36	55
	DIR. (TENS OF DEGS)		11	20	14	18	19	05	07	15	15	11	10	10	07
	YEAR OF OCCURRENCE		2002	1998	2004	2002	1997	2006	2001	2006	2002	2000	2003	2003	JUL 2001
	MAXIMUM 5-SECOND SPEED (MPH)	12	41	48	46	46	43	56	60	60	52	53	53	43	60
	DIR. (TENS OF DEGS)		11	22	14	25	24	05	07	12	14	26	19	10	07
YEAR OF OCCURRENCE		2002	1998	2004	2001	1997	2006	2001	2000	2002	1996	2004	2003	JUL 2001	
PRECIPITATION	NORMAL (IN)	30	0.99	0.88	0.81	0.28	0.24	0.24	2.07	2.30	1.45	1.21	0.67	1.03	12.17
	MAXIMUM MONTHLY (IN)	67	4.81	3.20	2.26	1.66	1.11	1.56	6.17	7.93	5.11	4.98	1.90	5.02	7.93
	YEAR OF OCCURRENCE		1993	1998	1952	1951	1992	2000	1981	1955	1964	1983	1952	1965	AUG 1955
	MINIMUM MONTHLY (IN)	67	T	0.00	0.00	0.00	0.00	0.00	0.04	0.23	0.00	0.00	0.00	0.00	0.00
	YEAR OF OCCURRENCE		2006	1972	1956	1972	1974	1983	1995	1976	1953	1982	1980	1981	JUN 1983
	MAXIMUM IN 24 HOURS (IN)	67	1.46	1.70	1.19	1.28	0.89	1.27	3.93	2.48	3.05	3.58	1.86	2.12	3.93
	YEAR OF OCCURRENCE		1993	2007	1952	1999	1943	1954	1958	1961	1964	1983	1968	1994	JUL 1958
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	4.9	4.1	4.4	2.0	2.1	2.3	9.8	9.7	5.2	3.7	3.2	4.5	55.9
PRECIPITATION >= 1.00	30	0.1	*	0.0	*	0.0	0.0	0.4	0.4	0.4	0.3	*	0.1	1.7	
SNOWFALL	NORMAL (IN)	30	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.4	1.2
	MAXIMUM MONTHLY (IN)	67	4.7	3.9	5.7	2.0	0.0	0.0	T	T	T	T	6.4	6.8	6.8
	YEAR OF OCCURRENCE		1987	1965	1964	1976	2006	2007	1995	2006	1996	1991	1958	1971	DEC 1971
	MAXIMUM IN 24 HOURS (IN)	66	4.3	3.9	5.7	2.0	T	0.0	T	T	T	T	6.4	6.8	6.8
	YEAR OF OCCURRENCE'		1987	1965	1964	1976	1992		1995	1995	1990	1991	1958	1971	DEC 1971
	MAXIMUM SNOW DEPTH (IN)	58	1	4	5	0	0	0	0	0	0	0	1	5	5
	YEAR OF OCCURRENCE		1987	1965	1964								1958	1971	DEC 1971
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	

PRECIPITATION (inches) 2007 TUCSON (KTUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	2.05	1.75	0.89	0.01	0.61	0.22	0.78	1.59	1.66	1.86	1.58	2.73	15.73
1979	2.94	0.42	0.64	0.04	0.67	0.53	2.04	2.60	0.02	0.33	0.01	0.15	10.39
1980	0.73	2.90	1.22	0.08	T	0.23	1.78	1.95	2.93	0.22	0.00	0.19	12.23
1981	1.29	0.71	1.98	0.56	0.26	0.16	6.17	0.80	1.10	0.06	0.61	0.00	13.70
1982	1.56	0.06	1.26	0.05	0.51	0.13	2.13	2.51	2.69	0.00	1.30	1.59	13.79
1983	1.70	0.94	1.28	0.14	T	0.00	1.98	4.24	4.28	4.98	1.71	0.61	21.86
1984	0.62	0.00	0.00	0.36	0.06	1.05	2.92	4.19	1.81	0.77	0.45	3.30	15.53
1985	1.71	1.08	0.20	0.45	T	0.07	3.14	1.97	1.13	2.03	0.95	0.15	12.88
1986	0.98	1.13	1.30	T	0.44	0.06	1.82	3.56	0.31	0.50	0.42	1.28	11.80
1987	0.59	1.64	0.83	0.80	0.74	0.16	0.37	2.79	2.30	0.34	0.44	1.50	12.50
1988	0.41	0.53	0.35	1.15	0.02	0.15	1.69	3.64	0.80	2.09	0.75	0.05	11.63
1989	0.96	0.23	0.62	0.00	0.13	0.06	1.42	0.90	0.02	1.84	0.12	0.18	6.48
1990	0.96	0.71	0.38	0.10	0.03	0.64	5.45	2.70	1.63	0.58	0.23	1.54	14.95
1991	1.15	0.91	1.40	0.00	0.00	0.20	0.44	2.17	1.54	0.73	0.80	1.44	10.78
1992	1.21	1.80	2.12	0.19	1.11	0.07	0.93	4.55	0.94	0.03	T	3.47	16.42
1993	4.81	1.50	0.49	0.00	0.59	0.02	0.26	4.93	0.46	0.81	0.98	0.14	14.99
1994	0.02	1.03	1.14	0.04	0.52	0.26	0.41	0.45	1.46	0.76	1.83	3.71	11.63
1995	1.41	1.32	0.54	0.28	0.15	T	0.04	3.71	2.29	0.36	0.86	0.22	11.18
1996	0.01	0.82	0.32	T	0.00	T	1.88	1.87	3.68	1.74	.19	T	10.51
1997	0.93	0.67	0.02	0.47	0.44	0.02	0.51	2.32	1.43	0.38	0.49	2.88	10.56
1998	0.17	3.20	1.64	0.39	T	0.00	4.06	1.70	1.10	0.24	0.67	0.45	13.62
1999	0.01	T	T	1.34	0.00	0.16	4.15	3.05	0.97	T	0.00	T	9.68
2000	0.10	0.19	0.93	T	0.00	1.56	1.59	1.70	0.02	4.98	1.36	T	12.43
2001	1.24	0.46	0.88	0.84	0.24	0.54	1.09	0.85	0.33	0.69	0.05	0.60	7.81
2002	0.34	0.27	0.07	0.00	0.00	0.00	2.47	1.63	1.68	0.50	0.23	0.64	7.83
2003	0.08	1.02	0.51	0.04	0.13	T	2.50	2.04	2.16	0.38	1.03	0.16	10.05
2004	0.79	0.45	1.12	1.05	T	T	0.86	0.95	0.61	0.62	0.44	0.71	7.60
2005	1.35	1.27	0.37	0.33	0.63	0.01	0.72	4.52	0.05	0.31	0.00	0.01	9.57
2006	T	T	0.41	T	T	0.50	5.40	3.01	1.60	0.27	T	0.62	11.81
2007	0.71	0.04	0.59	0.16	0.14	T	5.22	0.90	0.45	0.02	0.80	0.76	9.79
POR= 59 YRS	0.87	0.72	0.71	0.32	0.18	0.23	3.63	2.29	1.35	0.89	0.60	0.94	12.73

WBAN : 23160

AVERAGE TEMPERATURE (°F) 2007 TUCSON (KTUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1978	53.1	53.6	61.8	65.2	73.1	85.8	88.1	84.7	80.9	73.8	58.5	49.7	69.0
1979	48.4	53.8	56.4	65.6	72.2	83.1	87.5	83.4	84.2	73.0	56.6	55.0	68.3
1980	54.3	57.9	57.5	65.6	71.5	84.9	88.6	84.6	80.5	69.6	59.5	58.1	69.4
1981	54.8	57.1	57.1	69.1	73.4	86.1	85.2	86.4	80.7	68.1	62.2	55.0	69.6
1982	50.7	54.7	57.7	66.1	72.3	80.5	84.8	83.9	79.2	67.0	57.7	50.1	67.1
1983	52.9	53.8	57.3	60.4	73.8	81.6	86.9	84.0	82.2	69.5	57.4	53.5	67.8
1984	51.8	53.7	60.5	64.0	79.9	83.1	84.2	82.9	81.5	66.3	57.8	51.5	68.1
1985	50.3	53.1	58.7	68.7	75.9	85.8	87.5	86.1	77.4	70.0	58.0	52.9	68.7
1986	58.7	56.9	63.8	69.0	76.8	86.6	85.5	86.0	79.0	69.6	59.8	52.3	70.3
1987	50.9	54.2	57.9	70.1	74.3	86.3	87.4	85.1	79.9	75.1	58.9	50.3	69.2
1988	53.0	59.4	61.4	68.0	76.4	86.8	87.9	85.9	80.4	75.3	59.2	51.9	70.5
1989	49.9	58.2	65.0	73.8	77.4	85.4	90.0	86.6	84.5	71.1	61.7	53.0	71.4
1990	51.8	52.8	61.8	69.7	75.2	88.7	85.0	82.6	82.2	73.1	61.6	51.1	69.6
1991	52.3	59.8	55.4	65.2	73.5	81.5	87.5	86.6	80.7	74.0	58.9	54.3	69.1
1992	51.6	57.3	59.4	70.8	76.7	84.5	86.8	85.1	83.6	74.2	56.1	51.4	69.8
1993	55.2	54.0	61.3	68.6	78.1	85.0	88.0	85.5	81.4	72.6	58.8	53.4	70.2
1994	53.7	55.2	62.9	68.6	75.6	89.2	90.4	90.3	84.2	70.5	56.7	53.9	70.9
1995	52.6	60.7	61.2	64.8	72.6	83.3	88.4	87.3	82.9	72.4	63.1	54.0	70.3
1996	53.6	58.8	61.1	68.9	79.0	87.4	88.6	86.4	77.7	70.4	61.0	53.7	70.6
1997	52.4	53.6	64.8	65.8	79.7	83.1	88.0	85.8	84.2	70.0	60.7	48.6	69.7
1998	53.2	50.8	57.9	61.4	72.9	81.8	86.5	86.5	82.6	70.7	60.5	52.0	68.1
1999	53.6	56.9	61.4	62.3	74.7	83.8	84.0	85.2	81.8	74.7	65.4	51.3	69.6
2000	55.0	57.4	58.8	70.3	80.2	84.5	88.2	84.9	84.8	68.2	52.8	54.3	70.0
2001	49.7	52.8	60.2	66.6	79.3	85.6	86.2	85.9	84.4	73.2	62.9	49.4	69.7
2002	51.6	57.1	59.2	71.6	75.8	88.0	86.8	86.1	82.5	69.5	61.4	50.7	70.0
2003	58.2	54.9	59.8	65.7	78.0	85.7	89.2	86.3	82.8	75.4	59.0	52.8	70.7
2004	53.0	50.8	66.7	66.3	77.8	84.8	87.0	84.9	81.0	69.9	56.2	52.7	69.3
2005	54.5	55.8	59.3	67.8	77.4	85.7	90.6	83.9	83.6	72.8	62.6	54.6	70.7
2006	54.5	58.3	58.7	68.5	79.0	88.4	88.3	83.7	78.5	70.2	63.0	51.1	70.2
2007	48.6	55.4	63.1	68.6	78.1	86.0	87.9	86.9	83.0	72.9	65.7	49.2	70.5
POR= 59 YRS	51.8	54.6	59.1	66.2	74.6	83.9	86.8	84.7	81.0	70.7	59.3	52.1	68.7

HEATING DEGREE DAYS (base 65°F) 2007 TUCSON (KTUS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0	0	0	15	213	470	511	311	260	76	20	0	1876
1979-80	0	0	0	26	252	302	323	202	227	84	3	0	1419
1980-81	0	0	0	66	197	210	310	220	244	31	0	0	1278
1981-82	0	0	0	34	106	304	437	291	223	46	10	0	1451
1982-83	0	0	0	41	211	456	371	309	239	168	6	0	1801
1983-84	0	0	0	0	232	348	402	323	140	110	0	0	1555
1984-85	0	0	0	49	221	413	448	328	200	41	0	0	1700
1985-86	0	0	0	9	217	369	193	244	117	22	6	0	1177
1986-87	0	0	0	11	154	387	429	299	225	24	0	0	1529
1987-88	0	0	0	0	188	452	366	171	161	46	12	0	1396
1988-89	0	0	0	0	220	402	461	199	82	9	4	0	1377
1989-90	0	0	0	25	107	361	402	340	156	16	3	0	1410
1990-91	0	0	0	5	152	427	384	140	296	47	3	0	1454
1991-92	0	0	0	56	195	325	408	215	169	24	0	0	1392
1992-93	0	0	0	0	261	418	298	299	129	28	0	0	1433
1993-94	0	0	0	5	186	355	345	272	94	42	0	0	1299
1994-95	0	0	0	24	255	335	377	123	143	84	17	0	1358
1995-96	0	0	0	3	64	332	344	173	135	23	0	0	1074
1996-97	0	0	0	91	147	346	386	315	66	77	0	0	1428
1997-98	0	0	0	52	146	502	360	392	232	153	3	0	1840
1998-99	0	0	0	20	136	398	346	220	126	155	7	0	1408
1999-00	0	0	0	0	83	416	308	217	186	26	0	0	1236
2000-01	0	0	0	60	357	323	470	335	178	95	1	0	1819
2001-02	0	0	0	0	134	479	409	221	197	3	0	0	1443
2002-03	0	0	0	22	114	435	204	283	178	67	0	0	1303
2003-04	0	0	0	0	186	370	366	405	87	55	0	0	1469
2004-05	0	0	0	36	274	375	322	247	183	29	0	0	1466
2005-06	0	0	0	0	122	314	321	185	203	18	0	0	1163
2006-07	0	0	0	19	97	424	498	262	131	37	0	0	1468
2007-	0	0	0	2	68	480							

WBAN : 23160

COOLING DEGREE DAYS (base 65°F) 2007 TUCSON (KTUS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1978	0	0	54	76	283	630	721	616	483	293	28	0	3184
1979	0	0	1	101	249	551	706	576	580	282	6	0	3052
1980	0	4	1	109	211	606	742	615	474	216	37	3	3018
1981	0	8	4	159	267	639	633	670	476	137	27	2	3022
1982	0	4	4	82	244	471	622	594	437	112	0	0	2570
1983	0	0	8	36	288	503	688	600	523	145	10	0	2801
1984	0	0	6	87	469	549	601	562	503	96	12	0	2885
1985	0	1	7	159	345	633	704	660	379	173	14	0	3075
1986	2	23	88	150	378	653	643	657	431	158	3	0	3186
1987	0	2	12	184	297	644	702	630	452	325	12	0	3260
1988	2	13	58	142	374	658	716	657	471	327	51	1	3470
1989	0	16	89	281	397	619	780	676	592	221	16	0	3687
1990	0	6	63	164	327	719	625	553	522	262	56	0	3297
1991	0	1	6	58	274	501	703	675	479	345	21	0	3063
1992	0	0	4	204	372	590	683	627	563	291	1	0	3335
1993	1	0	22	142	413	604	721	641	500	250	11	3	3308
1994	0	4	34	156	332	733	794	788	584	203	11	0	3639
1995	0	8	31	85	261	558	733	698	544	241	12	0	3171
1996	0	1	24	148	440	679	740	670	387	266	33	2	3390
1997	0	2	65	105	462	549	718	651	581	212	26	0	3371
1998	1	0	19	54	255	512	672	671	536	203	9	1	2933
1999	0	1	18	83	318	573	598	635	512	306	103	1	3148
2000	3	1	1	194	479	595	725	624	599	164	0	0	3385
2001	0	0	37	150	450	623	667	655	586	265	79	0	3512
2002	0	4	26	208	340	695	683	661	532	169	13	0	3331
2003	0	3	23	96	409	629	756	667	539	326	11	2	3461
2004	0	1	144	97	404	603	691	627	487	193	17	0	3264
2005	2	0	13	120	390	626	801	593	562	248	58	0	3413
2006	2	4	14	131	444	709	731	586	414	188	46	0	3269
2007	0	0	80	149	413	636	714	684	547	250	96	0	3569

SNOWFALL (inches) 2007 TUCSON (KTUS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1978-79	0.0	0.0	0.0	0.0	0.0	T	1.2	0.0	0.0	0.0	0.0	0.0	1.2
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
1982-83	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1983-84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	T	0.0	2.2	0.0	0.0	0.0	0.0	2.2
1985-86	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	T	0.0	0.0	0.0	4.7
1987-88	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1989-90	0.0	0.0	0.0	0.0	0.0	0.0	2.7	2.3	0.0	T	0.0	0.0	5.0
1990-91	0.0	T	T	0.0	0.0	0.6	0.0	T	0.3	0.0	0.0	0.0	0.9
1991-92	0.0	0.0	0.0	T	0.0	T	0.0	0.0	T	0.0	T	0.0	T
1992-93	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1993-94	0.0	T	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1994-95	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1995-96	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T
1996-97	0.0	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	T
1997-98	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T
1998-99	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	0.0	T
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2000-01	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
2001-02	0.0	0.0	0.0	0.0	0.0	T	0.6	0.0	0.0	0.0	0.0	0.0	0.6
2002-03	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
2003-04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004-05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2006-07	0.0	T	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
2007-	0.0	0.0	0.0	0.0	0.0	0.0							
POR= 60 YRS	0.1	T	T	T	0.1	0.2	0.3	0.2	0.2	0.1	T	0.0	1.2

WBAN : 23160

REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2007 TUCSON ARIZONA (KTUS)

Tucson lies at the foot of the Catalina Mountains, north of the airport. The area within about 15 miles of the airport station is flat or gently rolling, with many dry washes. The soil is sandy, and vegetation is mostly brush, cacti, and small trees. Rugged mountains encircle the valley. The mountains to the north, east, and south rise to over 5,000 feet above the airport. The western hills and mountains range from 500 to 4,000 feet.

The climate of Tucson is characterized by a long hot season, from April to October. Temperatures above 90 degrees prevail from May through September. Temperatures of 100 degrees or higher average 41 days annually, including 14 days each for June and July, but these extreme temperatures are moderated by low relative humidities. The temperature range is large, averaging 30 degrees or more a day.

More than 50 percent of the annual precipitation falls between July 1 and September 15, and over 20 percent falls from December through March. During the summer, scattered convective or orographic showers and thunderstorms often fill dry washes to overflowing. On occasion, brief, torrential downpours cause destructive flash floods in the Tucson area. Hail rarely occurs in thunderstorms. The December through March precipitation occurs as prolonged rainstorms that replenish the ground water. During these storms, snow often falls on the higher mountains, but snow in Tucson is infrequent, particularly in accumulations exceeding an inch in depth.

From the first of the year, the humidity decreases steadily until the summer thunderstorm season, when it shows a marked increase. From mid-September, the end of the thunderstorm season, the humidity decreases again until late November. Occasionally during the summer, humidities are high enough to produce discomfort, but only for short periods. During the hot season, humidity values sometimes fall below 5 percent.

Tucson lies in the zone receiving more sunshine than any other section of the United States. Cloudless days are commonplace, and average cloudiness is low.

Surface winds are generally light, with no major seasonal changes in velocity or direction. Occasional duststorms occur in areas where the ground has been disturbed. During the spring, winds may briefly be strong enough to cause some damage to trees and buildings. Wind velocities and directions are influenced by the surrounding mountains, and the general slope of the terrain. Usually local winds tend to be in the southeast quadrant during the night and early morning hours, veering to northwest during the day. Highest velocities usually occur with winds from the southwest and east to south.

While dust and haze are frequently visible, their effect on the general clarity of the atmosphere is not great. Visibility is normally high.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 29 and the average last occurrence in the spring is February 28.

Station Location

TUCSON

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS	
								SEA LEVEL	GROUND								AUTOMATIC OBSERVING EQUIPMENT *
									GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE		
*NOTE:																	
AIRPORT																	
Tucson Municipal (later Davis-Monthan Air Force Base)	1/22/30	10/14/48	NA	32° 11'	110° 55'	2553	b33	Unk c5	Unk c5		e14	b3 d14	Unk c5 d14		Army Signal Service to Nov. 1932. b. Added 6/17/40. c. Effective 6/17/40. d. Moved to roof 7/23/47. e. Added 10/1/47.		
Tucson Municipal	10/14/48	10/15/58	4.9 mi. SW	32° 08'	110° 57'	2558	33	5	5	Unk	5		5	%4	New airport.		
Tower & Operations Bldg Tucson Municipal AP +	10/15/58	6/4/80	4500 ft. E	32° 07'	110° 56'	2584	20	5	5	109	3	NA	4	%5	% - Telepsychrometer. Removed 11/21/82.		
+ Tucson International AP effective 3/13/63																	
Nat. Weather Svc. Bldg. Tucson International AP	6/4/80	01/01/96	600 ft. NE	32° 07'	110° 56'	2580	f20	5	5	15 h35	3 i4	NA	4 i3	%5 g7 j4	f. Not moved 6/4/80. g. Installed 11/21/82. h. Raised 5/14/85. i. Moved 5-10' NW 5/14/85. j. Minor adjustment & type change 2/20/86.		
International Airport	01/01/96	Present	NA	32° 08'	110° 57'	k2578								s	ASOS Commissioned 01/01/96 k. Ground Elevation		

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* NOTES: For earlier station history see previous edition.