

2002

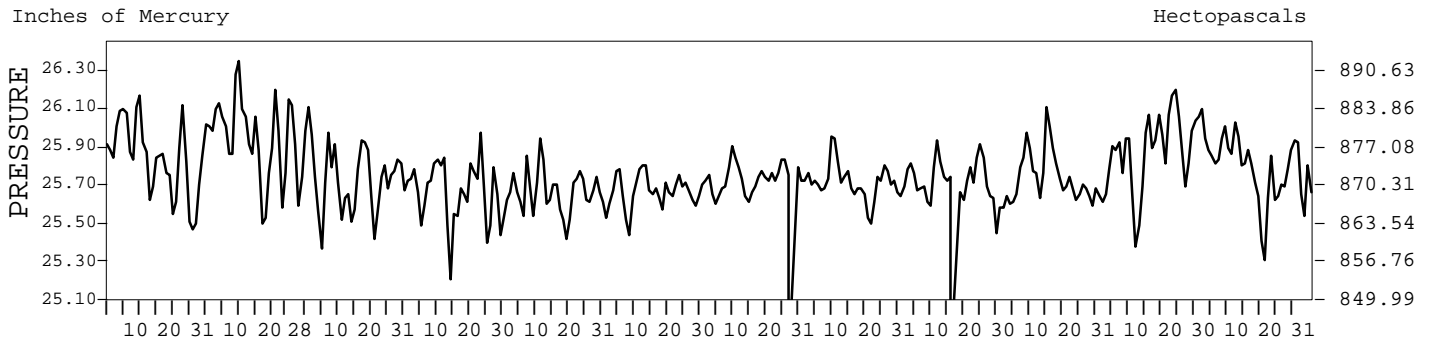
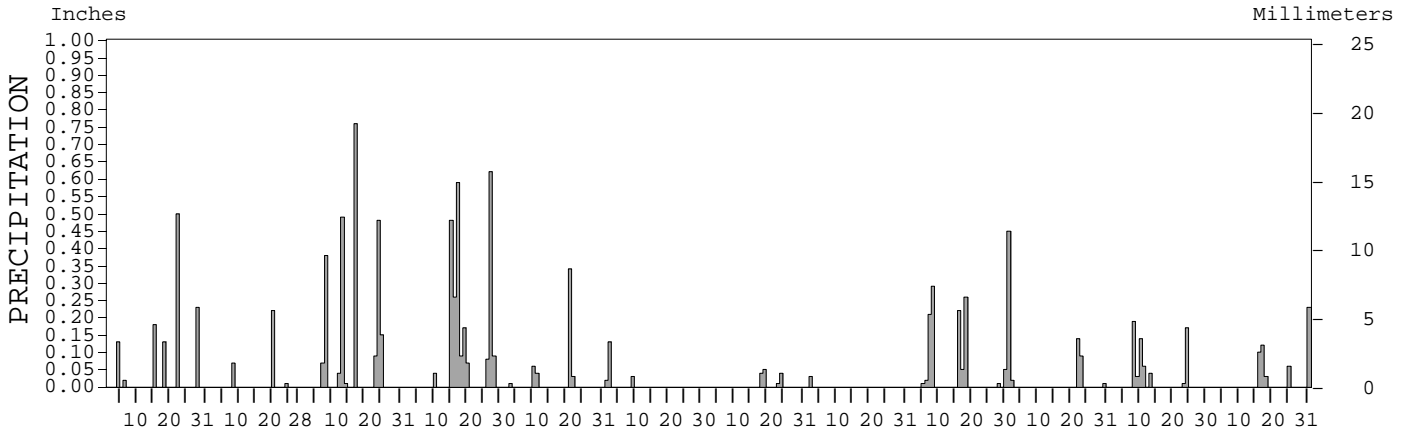
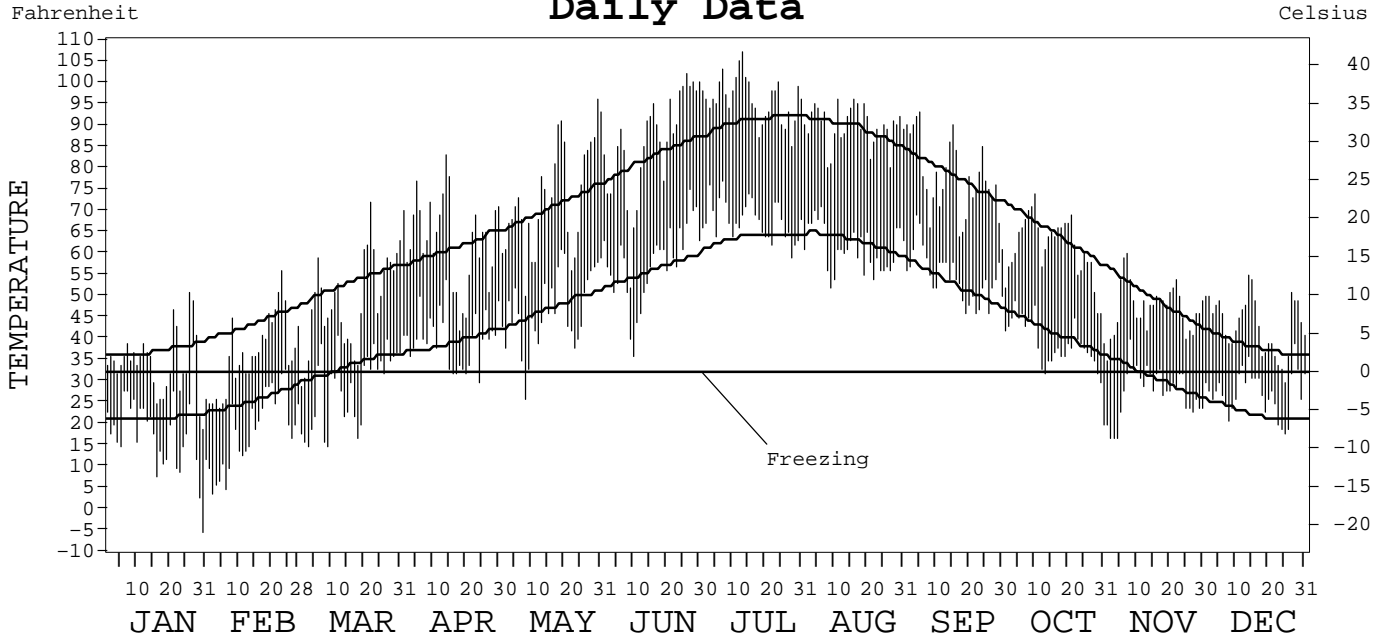
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5280

SALT LAKE CITY,
UTAH (SLC)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2002

SALT LAKE CITY, UT (SLC)

LATITUDE: 40° 47' 13" N LONGITUDE: 111° 58' 05" W ELEVATION (FT): GRND: 4221 BARO: 4224 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 24127

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	34.1	36.8	49.2	63.0	73.0	85.9	96.0	89.7	77.5	60.8	47.5	43.4	63.1	
	HIGHEST DAILY MAXIMUM	51	56	72	83	96	102	107	96	93	74	60	55	107	
	DATE OF OCCURRENCE	26	23	22	14	30	26	13	16+	05	10	07	14	JUL 13	
	MEAN DAILY MINIMUM	17.9	18.9	28.6	40.1	46.8	57.8	67.8	61.2	54.5	38.7	27.7	27.6	40.6	
	LOWEST DAILY MINIMUM	-5	4	15	30	26	36	59	52	46	20	17	18	-5	
	DATE OF OCCURRENCE	30	02	09+	24	08	10	28	09	26+	31	04+	25	JAN 30	
	AVERAGE DRY BULB	26.0	27.9	38.9	51.6	59.9	71.9	81.9	75.5	66.0	49.8	37.6	35.5	51.9	
	MEAN WET BULB	24.7	25.1	32.9	42.9	47.0	54.3		54.9		41.7	33.2	31.9		
	MEAN DEW POINT	20.5	20.0	23.7	32.8	33.0	38.7		36.4		33.2	27.2	26.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	4	13	28	17	5	0	0	0	0	67
	MAXIMUM ≤ 32°	13	9	2	0	0	0	0	0	0	0	0	1	25	
	MINIMUM ≤ 32°	30	27	17	4	1	0	0	0	0	4	25	27	135	
MINIMUM ≤ 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1201	1035	800	396	221	47	0	0	56	466	817	907	5946	
	COOLING DEGREE DAYS	0	0	0	4	70	259	529	330	95	0	0	0	1287	
RH	MEAN (PERCENT)	78	74	58	53	40	33	31	26	47	58	71	73	54	
	HOUR 05 LST	83	81	72	65	54	48	44	37	62	73	81	79	65	
	HOUR 11 LST	74	65	50	45	29	26	23	19	38	47	59	64	45	
	HOUR 17 LST	74	65	43	40	28	20	20	15	35	40	60	70	42	
	HOUR 23 LST	81	80	64	59	45	37	37	30	53	68	79	78	59	
S	PERCENT POSSIBLE SUNSHINE	57													
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	11	2	2	1	0	0	0	0	0	0	1	3	20	
	THUNDERSTORMS	0	0	1	1	2	4	5	3	6	3	0	1	26	
CLOUDINESS	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.)	25.83	25.93	25.73	25.65	25.65	25.66		25.70		25.73	25.89	25.76		
	MEAN SEA-LEVEL PRESS. (IN.)	30.22	30.33	30.04		29.85	29.81				29.99		30.09		
WINDS	RESULTANT SPEED (MPH)	1.9	1.9	1.6	0.7	1.1	0.2		1.7		1.4	1.7	4.8		
	RES. DIR. (TENS OF DEGS.)	16	33	17	19	21	06		08		14	16	16		
	MEAN SPEED (MPH)	7.1	6.1	8.1	8.8	8.9	9.1	8.6	9.4	9.6	7.1	6.3	7.9	8.1	
	PREVAIL. DIR. (TENS OF DEGS.)	15	34	14	14	15	16	15	17	14	14	14	14	14	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	39	36	45	53	35	51	39	37	37	26	33	36	53	
	DIR. (TENS OF DEGS.)	15	32	29	19	16	19	18	27	11	17	17	17	19	
	DATE OF OCCURRENCE	27	08	08	15	20+	01	24	02	16+	10	08	16+	APR 15	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	45	45	51	64	45	60	55	43	49	31	39	45	64	
DIR. (TENS OF DEGS.)	16	32	29	19	29	22	18	27	19	18	18	17	19		
DATE OF OCCURRENCE	27	08	08	15	21	01	24	02	05	10	08	16	APR 15		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.19	0.30	2.47	2.49	0.48	0.18	0.14	0.03	1.12	0.71	0.64	0.54	10.29	
	GREATEST 24-HOUR (IN.)	0.50	0.22	0.76	0.62	0.34	0.15	0.05	0.03	0.50	0.47	0.22	0.23	0.76	
	DATE OF OCCURRENCE	22	20	17	27	21	01-02	19	02	07-08	01-02	08-09	31	MAR 17	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	6	3	9	10	5	3	4	1	9	5	7	5	67		
PRECIPITATION ≥ 0.10	5	1	5	5	1	1	0	0	4	2	3	3	30		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	16.1	0.7	14.4	3.6	0.0	0.0	0.0	0.0	0.0	T	0.2	3.4	38.4	
	GREATEST 24-HOUR (IN.)	5.0	0.7	8.4	2.6	0.0	0.0	0.0	0.0	0.0	T	0.2	1.8	8.4	
	DATE OF OCCURRENCE	22	08	17	17						30+	24	25	MAR 17	
	MAXIMUM SNOW DEPTH (IN.)	4	2	6	1	0	0	0	0	0	0	0	1	6	
	DATE OF OCCURRENCE	28+	04+	17	16								25	MAR 17	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	5	0	3	2	0	0	0	0	0	0	0	1	11		

NORMALS, MEANS, AND EXTREMES

SALT LAKE CITY, UT (SLC)

LATITUDE: 40° 47' 13" N LONGITUDE: 111° 58' 05" W ELEVATION (FT): GRND: 4221 BARO: 4224 TIME ZONE: MOUNTAIN (UTC + 7) WBAN: 24127

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.0	43.4	52.8	60.9	70.6	82.2	90.6	88.7	77.6	64.0	48.7	38.0	62.9
	MEAN DAILY MAXIMUM	55	37.3	43.6	52.2	61.5	72.1	83.1	92.6	90.3	79.5	65.7	50.1	38.6	63.9
	HIGHEST DAILY MAXIMUM	74	62	69	78	86	96	104	107	106	100	89	75	69	107
	YEAR OF OCCURRENCE		1982	1972	1960	1992	2002	1979	2002	1994	1979	1963	1999	1995	JUL 2002
	MEAN OF EXTREME MAXS.	55	52.0	58.7	69.7	79.1	88.3	97.7	101.3	99.3	93.7	82.2	66.4	54.7	78.6
	NORMAL DAILY MINIMUM	30	21.3	25.5	33.4	39.0	46.9	55.8	63.4	62.4	52.4	41.0	30.4	22.4	41.2
	MEAN DAILY MINIMUM	55	20.2	24.7	31.3	38.1	46.1	54.5	62.7	61.4	51.4	40.0	29.9	22.0	40.2
	LOWEST DAILY MINIMUM	74	-22	-30	2	14	25	35	40	37	27	16	-14	-21	-30
	YEAR OF OCCURRENCE		1949	1933	1966	1936	1965	1962	1968	1965	1965	1971	1955	1932	FEB 1933
	MEAN OF EXTREME MINS.	55	2.1	7.0	18.0	27.5	33.4	41.7	51.4	49.9	37.9	27.8	15.4	6.3	26.5
	NORMAL DRY BULB	30	27.9	34.1	41.8	49.7	58.8	69.1	77.9	75.6	65.2	53.2	40.8	29.7	52.0
	MEAN DRY BULB	55	28.7	34.1	41.9	49.8	59.1	68.8	77.6	75.9	65.6	52.8	40.0	30.3	52.1
	MEAN WET BULB	19	26.5	30.2	37.1	42.7	49.5	55.2	60.0	59.4	53.1	44.1	34.7	27.4	43.3
	MEAN DEW POINT	19	22.1	24.9	28.8	33.1	38.8	43.0	47.4	46.7	42.3	34.8	28.3	22.7	34.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.6	9.0	23.6	19.1	3.8	0.0	0.0	0.0	56.1	
MAXIMUM ≤ 32°	30	10.8	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	*	0.5	9.0	24.7	
MINIMUM ≤ 32°	30	27.4	22.6	16.3	6.5	0.8	0.0	0.0	0.0	0.4	4.7	17.8	27.5	124.0	
MINIMUM ≤ 0°	30	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.0	
H/C	NORMAL HEATING DEG. DAYS	30	1108	857	665	448	215	50	3	3	89	379	747	1067	5631
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	34	183	387	347	105	6	0	0	1066
RH	NORMAL (PERCENT)	30	74	70	60	53	49	41	36	38	46	56	66	74	55
	HOUR 05 LST	30	78	77	70	66	65	59	52	54	61	68	74	79	67
	HOUR 11 LST	30	70	64	52	44	38	31	27	30	35	43	58	70	47
	HOUR 17 LST	30	69	59	47	39	33	26	22	23	29	41	58	71	43
	HOUR 23 LST	30	78	76	67	61	57	50	43	45	54	66	73	78	62
S	PERCENT POSSIBLE SUNSHINE	64	45	54	64	68	72	80	84	83	81	72	53	40	66
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	74	4.4	2.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.6	11.6
	THUNDERSTORMS	74	0.3	0.7	1.4	2.2	5.3	5.4	6.8	7.5	4.2	1.9	0.5	0.3	36.5
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	62	5.9	5.7	5.3	5.1	4.7	3.4	2.9	2.9	2.9	3.8	5.0	5.8	4.5
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.0	5.4	5.3	5.1	4.6	3.5	3.1	3.1	3.0	3.7	5.2	5.8	4.5
	MEAN NO. DAYS WITH:														
	CLEAR	69	5.4	5.2	7.0	6.7	9.0	13.8	16.7	15.9	16.4	13.9	8.4	6.2	124.6
PARTLY CLOUDY	69	6.5	6.9	8.3	9.4	10.2	9.9	9.8	10.6	8.3	7.7	7.2	6.5	101.3	
CLOUDY	69	19.0	16.1	15.7	14.0	11.8	6.3	4.6	4.5	5.3	9.6	14.5	18.3	139.7	
PR	MEAN STATION PRESSURE(IN)	30	25.82	25.78	25.69	25.68	25.66	25.69	25.73	25.74	25.76	25.79	25.79	25.83	25.75
	MEAN SEA-LEVEL PRES. (IN)	19	30.21	30.13	29.98	29.93	29.86	29.84	29.87	29.88	29.94	30.05	30.10	30.21	30.00
WINDS	MEAN SPEED (MPH)	55	7.6	8.2	9.5	9.7	9.4	9.4	9.5	9.7	9.1	8.4	8.1	7.7	8.9
	PREVAIL.DIR(TENS OF DEGS)	39	14	14	14	15	15	16	16	16	14	14	14	14	14
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	39	47	45	53	43	51	45	43	40	37	38	38	53
	DIR. (TENS OF DEGS)		15	18	29	19	28	19	25	10	27	35	29	17	19
	YEAR OF OCCURRENCE		2002	1999	2002	2002	2001	2002	2001	2001	2001	2001	2000	2001	APR 2002
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	45	62	51	64	54	60	55	52	53	44	55	46	64	
DIR. (TENS OF DEGS)		16	18	29	19	33	22	18	16	14	32	28	18	19	
YEAR OF OCCURRENCE		2002	1999	2002	2002	2001	2002	2002	1999	2001	2001	2000	2001	APR 2002	
PRECIPITATION	NORMAL (IN)	30	1.37	1.33	1.91	2.02	2.09	0.77	0.72	0.76	1.33	1.57	1.40	1.23	16.50
	MAXIMUM MONTHLY (IN)	74	3.23	4.89	3.97	4.90	4.76	3.84	2.57	3.66	7.04	3.91	3.34	4.37	7.04
	YEAR OF OCCURRENCE		1993	1998	1983	1944	1977	1998	1982	1968	1982	1981	2001	1983	SEP 1982
	MINIMUM MONTHLY (IN)	74	0.09	0.12	0.10	0.45	T	T	T	T	T	0.00	0.01	0.08	0.00
	YEAR OF OCCURRENCE		1961	1946	1956	1981	1934	1994	1963	1944	1951	1952	1939	1976	OCT 1952
	MAXIMUM IN 24 HOURS (IN)	74	1.36	1.76	1.83	2.41	2.03	1.88	2.35	1.96	2.30	1.76	1.53	1.82	2.41
	YEAR OF OCCURRENCE		1953	1998	1944	1957	1942	1948	1962	1932	1982	1984	2001	1972	APR 1957
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.7	8.6	10.3	10.0	8.7	5.9	4.8	5.7	6.1	6.3	8.2	9.8	94.1	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.2	0.2	0.1	0.1	*	0.2	*	0.0	0.1	0.9	
SNOWFALL	NORMAL (IN)	30	14.5	10.2	9.2	5.7	0.7	0.*	0.0	0.0	0.2	2.1	7.9	12.2	62.7
	MAXIMUM MONTHLY (IN)	74	50.3	32.1	41.9	26.4	7.5	T	T	T	4.0	20.4	33.3	35.2	50.3
	YEAR OF OCCURRENCE		1993	1998	1977	1974	1975	1995	1996	1993	1971	1984	1994	1972	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	74	16.5	18.0	15.4	16.2	6.4	T	T	T	4.0	18.4	11.0	18.1	18.4
	YEAR OF OCCURRENCE		1996	1998	1944	1974	1975	1995	1991	1993	1971	1984	1930	1972	OCT 1984
	MAXIMUM SNOW DEPTH (IN)	54	25	17	14	8	4	0	0	0	0	9	11	14	25
	YEAR OF OCCURRENCE		1993	1949	1998	1974	1978					1984	1985	1972	JAN 1993
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	4.1	3.1	2.8	1.5	0.2	0.0	0.0	0.0	0.1	0.6	2.3	3.5	18.2	

PRECIPITATION (inches) 2002 SALT LAKE CITY, UT (SLC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.49	0.91	2.67	1.64	1.74	0.19	1.07	1.16	4.07	0.67	2.52	2.26	20.39
1974	1.80	1.65	0.97	4.57	0.39	0.28	0.18	0.32	0.03	2.03	0.90	1.34	14.46
1975	1.28	1.24	3.44	2.46	2.58	1.81	0.28	0.10	0.08	1.91	1.71	1.03	17.92
1976	0.63	1.90	1.90	2.47	0.99	1.24	1.55	0.82	0.16	0.57	0.03	0.08	12.34
1977	0.76	0.64	3.10	0.59	4.76	0.06	0.61	1.85	1.85	0.83	1.20	1.42	17.67
1978	2.33	1.96	3.47	2.90	1.57	0.06	0.06	0.92	2.51	T	1.73	0.58	18.09
1979	0.72	1.05	0.80	1.04	0.84	0.35	0.40	0.63	0.05	1.29	0.98	0.55	8.70
1980	2.87	2.25	2.46	0.89	2.70	0.42	1.34	0.26	0.72	1.74	1.17	0.37	17.19
1981	0.64	0.81	2.11	0.45	3.68	1.03	0.33	0.23	0.48	3.91	1.03	1.89	16.59
1982	1.08	0.53	2.39	1.63	1.86	0.66	2.57	0.56	7.04	1.87	0.75	1.92	22.86
1983	1.19	1.36	3.97	1.63	2.58	0.62	1.02	2.64	1.03	1.62	2.23	4.37	24.26
1984	0.50	0.95	1.76	4.43	1.17	1.86	1.72	1.49	1.72	3.70	1.45	0.80	21.55
1985	0.91	0.85	1.80	0.64	2.95	1.30	0.85	0.03	1.98	1.61	2.63	1.42	16.97
1986	0.86	1.28	2.32	4.55	3.39	0.42	0.85	1.32	2.75	0.39	1.17	0.10	19.40
1987	1.53	1.41	1.52	0.79	2.41	0.19	0.79	0.36	0.05	1.18	1.17	1.10	12.50
1988	1.06	0.13	0.94	1.84	2.16	0.03	0.04	0.22	0.07	0.01	2.17	0.62	9.29
1989	0.56	1.57	1.77	0.46	1.83	0.22	0.39	0.90	0.49	1.82	0.73	0.13	10.87
1990	0.57	0.35	2.17	1.14	1.65	0.66	0.64	0.46	0.56	0.69	1.24	0.56	10.69
1991	1.11	0.61	1.11	2.71	2.76	1.09	0.32	0.86	2.55	2.10	2.17	0.40	17.79
1992	0.78	1.24	1.11	0.96	1.86	0.45	0.29	0.35	0.47	1.03	2.46	1.07	12.07
1993	3.23	1.35	1.37		3.99	1.14	1.38	0.46	0.22	2.77	0.54	0.88	
1994	0.62	1.53	1.28	2.94	1.29	T	0.06	0.61	0.32	2.24	2.96	1.43	15.28
1995	1.81	1.08	2.35	2.07	3.68	1.49	0.32	0.21	1.33	0.53	0.85	1.20	16.92
1996	3.09	1.54	2.71	2.20	1.32	0.09	0.41	0.02	1.03	1.45	1.72	1.73	17.31
1997	2.27	1.62	0.97	2.22	1.77	1.73	0.84	0.63	1.50	1.87	0.87	0.64	16.93
1998	1.63	4.89	2.97	2.09	1.04	3.84	1.57	0.46	1.53	1.25	1.27	1.27	23.81
1999	1.29	0.96	0.80	3.09	2.59	0.82	0.25	0.70	0.45	0.02	0.70	1.84	13.51
2000	2.17	1.80	0.80	0.76	1.62	0.36	0.42	2.00	1.86	2.00	1.31	1.24	16.34
2001	0.78	1.50	1.55	2.46	0.22	1.12	1.13	0.53	0.05	0.92	3.34	1.44	15.04
2002	1.19	0.30	2.47	2.49	0.48	0.18	0.14	0.03	1.12	0.71	0.64	0.54	10.29
POR= 128 YRS	1.31	1.37	1.85	2.02	1.81	0.90	0.62	0.80	0.93	1.40	1.33	1.30	15.64

WBAN : 24127

AVERAGE TEMPERATURE (°F) 2002 SALT LAKE CITY, UT (SLC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	19.6	32.3	41.8	47.6	61.6	70.2	76.6	76.6	61.5	54.1	40.5	33.4	51.3
1974	26.7	31.4	45.2	48.1	58.8	73.4	79.2	74.2	66.5	54.7	43.4	31.7	52.8
1975	27.4	35.5	41.1	44.3	54.3	64.8	78.8	73.4	65.4	53.4	37.3	32.9	50.7
1976	27.9	34.1	38.1	49.3	62.2	67.6	78.7	72.3	66.4	51.0	41.8	29.4	51.6
1977	26.8	35.8	37.7	54.1	55.0	73.2	77.3	75.0	66.4	55.6	42.5	37.9	53.1
1978	36.3	39.8	48.0	50.2	56.0	69.2	78.0	74.0	64.0	55.5	41.0	26.8	53.2
1979	22.1	32.5	43.2	51.1	60.2	70.1	78.9	75.6	71.4	56.7	36.5	32.9	52.6
1980	33.7	36.0	41.5	52.7	57.0	67.5	77.6	74.1	66.3	52.6	41.3	33.6	52.8
1981	32.1	38.3	44.1	53.4	57.6	69.6	78.2	78.0	68.5	50.5	44.3	36.4	54.3
1982	29.8	32.3	43.3	46.5	56.7	68.0	75.5	78.4	64.0	48.8	38.1	29.9	50.9
1983	35.2	39.4	44.6	45.9	55.8	67.7	76.6	77.8	67.8	56.0	43.0	31.9	53.5
1984	23.8	25.8	40.1	48.5	61.6	67.3	78.5	77.2	66.5	49.5	42.7	29.9	51.0
1985	24.2	25.6	40.8	55.7	63.9	72.5	80.7	76.5	62.7	53.1	37.4	27.7	51.7
1986	29.0	41.4	47.7	48.8	57.2	73.5	74.2	77.9	60.2	51.3	40.9	29.8	52.7
1987	26.5	36.1	42.8	55.9	62.7	71.6	75.7	74.7	66.5	56.4	40.8	30.5	53.4
1988	25.0	34.8	41.4	52.0	59.6	75.7	80.9	76.5	63.8	60.0	41.1	28.1	53.2
1989	22.3	25.3	45.8	54.8	59.9	69.2	81.1	75.1	66.4	53.4	40.5	31.4	52.1
1990	33.4	32.8	45.0	54.9	57.8	72.0	78.9	76.2	72.0	54.0	41.4	21.0	53.3
1991	24.4	36.5	42.8	47.9	55.6	68.3	79.1	78.4	64.4	53.6	40.0	30.0	51.8
1992	25.6	39.3	49.3	57.1	65.6	70.4	75.4	77.3	66.5	56.0	34.1	27.1	53.6
1993	24.9	29.5	45.5	48.5	63.4	63.7	69.9	72.5	65.5	52.6	34.8	31.5	50.2
1994	36.8	35.3	45.6	52.1	63.0	74.3	80.7	80.8	70.5	51.3	32.6	31.6	54.6
1995	34.9	42.3	44.1	48.6	55.5	64.3	76.0	78.0	67.5	51.5	46.1	37.1	53.8
1996	33.0	30.8	45.3	50.6	59.9	73.4	80.5	77.8	64.7	53.9	43.4	37.1	54.2
1997	32.3	35.3	46.0	48.3	63.4	70.1	75.1	78.7	67.8	52.8	42.2	27.9	53.3
1998	37.9	37.5	40.4	48.1	58.6	62.6	79.7	77.6	68.1	51.0	42.9	29.6	52.8
1999	35.8	37.4	44.8	45.5	56.0	68.4	78.3	77.3	63.5	54.5	45.7	31.0	53.2
2000	35.1	39.8	42.0	54.5	61.7	72.1	80.8	78.9	64.6	52.3	31.4	30.7	53.7
2001	27.3	34.4	45.4	50.1	63.6	70.9	79.4	79.1	70.2	55.0	42.6	26.3	53.7
2002	26.0	27.9	38.9	51.6	59.9	71.9	81.9	75.5	66.0	49.8	37.6	35.5	51.9
POR= 128 YRS	28.4	33.4	41.1	49.4	58.4	68.3	77.3	75.5	65.2	53.2	40.3	31.2	51.8

HEATING DEGREE DAYS (base 65°F) 2002 SALT LAKE CITY, UT (SLC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	1	0	140	333	732	975	1181	935	603	502	214	41	5657
1974-75	0	5	54	316	638	1025	1157	819	734	613	334	92	5787
1975-76	0	1	62	365	825	989	1144	890	826	464	112	67	5745
1976-77	0	7	37	432	689	1096	1175	813	838	333	304	0	5724
1977-78	0	11	73	282	670	835	880	697	522	433	293	36	4732
1978-79	0	12	144	284	714	1178	1327	902	666	414	196	57	5894
1979-80	0	0	7	270	846	987	964	835	723	371	250	77	5330
1980-81	0	10	57	379	704	965	1013	742	641	346	233	46	5136
1981-82	0	0	34	444	614	879	1087	909	668	548	259	62	5504
1982-83	7	0	134	495	800	1080	916	710	624	569	314	36	5685
1983-84	6	0	49	276	650	1018	1269	1130	763	493	157	76	5887
1984-85	0	0	98	480	662	1084	1260	1097	740	285	109	17	5832
1985-86	0	0	140	360	821	1151	1110	655	527	477	283	14	5538
1986-87	6	0	203	416	720	1085	1186	803	679	291	123	17	5529
1987-88	0	0	51	260	719	1060	1235	870	723	381	222	3	5524
1988-89	0	0	142	158	711	1138	1318	1105	587	313	193	35	5700
1989-90	0	15	44	355	729	1036	971	895	612	297	232	30	5216
1990-91	0	0	17	347	704	1359	1249	792	682	508	289	32	5979
1991-92	0	0	78	347	742	1078	1220	741	481	247	57	33	5024
1992-93	11	14	42	285	921	1169	1237	986	596	489	151	108	6009
1993-94	19	3	82	391	902	1031	863	823	590	397	100	12	5213
1994-95	3	0	19	416	963	1028	927	628	642	486	288	104	5504
1995-96	0	0	75	415	559	856	986	986	607	428	175	5	5092
1996-97	0	0	123	384	642	858	1009	827	583	495	115	17	5053
1997-98	6	0	61	382	677	1145	835	763	754	504	202	118	5447
1998-99	0	0	57	428	657	1089	898	766	619	578	295	63	5450
1999-00	0	0	95	322	573	1047	920	723	704	311	154	15	4864
2000-01	0	0	99	388	1002	1056	1162	850	598	450	123	62	5790
2001-02	0	0	27	310	662	1194	1201	1035	800	396	221	47	5893
2002-	0	0	56	466	817	907							

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COOLING DEGREE DAYS (base 65°F) 2002 SALT LAKE CITY, UT (SLC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	0	38	226	370	367	44	3	0	0	1048
1974	0	0	0	2	31	303	446	298	108	3	0	0	1191
1975	0	0	0	0	9	89	439	269	80	14	0	0	900
1976	0	0	0	0	34	151	431	237	87	3	0	0	943
1977	0	0	0	12	2	254	389	328	123	0	0	0	1108
1978	0	0	0	0	21	167	411	299	120	0	0	0	1018
1979	0	0	0	2	54	214	439	336	208	21	0	0	1274
1980	0	0	0	9	10	159	399	301	99	1	0	0	978
1981	0	0	0	3	12	190	412	409	145	2	0	0	1173
1982	0	0	0	0	11	158	338	423	109	0	0	0	1039
1983	0	0	0	0	37	123	370	405	138	4	0	0	1077
1984	0	0	0	3	58	153	426	383	147	4	0	0	1174
1985	0	0	0	11	78	249	493	364	79	0	0	0	1274
1986	0	0	0	0	47	277	296	407	66	0	0	0	1093
1987	0	0	0	25	60	222	338	309	103	0	0	0	1057
1988	0	0	0	0	61	334	501	363	112	9	0	0	1380
1989	0	0	0	13	43	171	506	337	92	0	0	0	1162
1990	0	0	0	2	19	247	438	351	235	11	0	0	1303
1991	0	0	0	1	3	138	442	425	63	4	0	0	1076
1992	0	0	0	15	81	204	340	401	93	14	0	0	1148
1993	0	0	0	0	108	75	178	246	102	13	0	0	722
1994	0	0	0	16	46	300	498	500	189	0	0	0	1549
1995	0	0	0	0	2	89	347	409	158	5	0	0	1010
1996	0	0	0	2	24	264	490	405	125	48	0	0	1358
1997	0	0	0	0	71	178	324	431	151	15	0	0	1170
1998	0	0	0	3	13	53	462	399	156	0	0	0	1086
1999	0	0	0	0	22	172	416	388	58	6	0	0	1062
2000	0	0	0	4	61	233	497	438	91	2	0	0	1326
2001	0	0	0	9	87	249	452	445	191	8	0	0	1441
2002	0	0	0	4	70	259	529	330	95	0	0	0	1287

SNOWFALL (inches) 2002 SALT LAKE CITY, UT (SLC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	1.3	19.5	19.6	20.1	17.2	6.7	26.4	T	T	110.8
1974-75	0.0	0.0	0.0	T	T	8.8	12.5	7.9	22.8	13.1	7.5	0.0	72.6
1975-76	0.0	0.0	0.0	0.1	18.0	11.8	8.6	15.8	18.7	3.5	0.0	T	76.5
1976-77	0.0	0.0	0.0	0.0	T	1.2	8.6	3.2	41.9	4.8	0.6	0.0	60.3
1977-78	0.0	0.0	0.0	0.2	8.5	8.2	15.6	15.5	6.2	2.5	4.6	0.0	61.3
1978-79	0.0	0.0	1.0	0.0	17.4	8.7	13.8	12.4	3.6	7.7	T	0.0	64.6
1979-80	0.0	0.0	0.0	0.0	4.6	8.5	24.5	2.9	19.9	1.2	T	0.0	61.6
1980-81	0.0	0.0	0.0	T	3.9	3.3	8.9	2.7	11.1	0.3	T	T	30.2
1981-82	0.0	0.0	0.0	4.4	2.4	11.5	15.3	4.5	10.2	9.5	T	T	57.8
1982-83	0.0	0.0	0.0	0.2	1.0	20.1	6.2	1.0	13.3	9.0	5.0	0.0	55.8
1983-84	0.0	0.0	0.0	0.0	5.9	34.2	7.6	18.5	6.7	25.1	T	T	98.0
1984-85	0.0	0.0	T	20.4	6.6	12.9	12.7	11.4	8.0	0.7	0.0	0.0	72.7
1985-86	0.0	0.0	0.0	T	27.2	14.7	3.9	1.7	1.0	5.5	T	0.0	54.0
1986-87	0.0	0.0	T	0.0	4.4	1.7	16.4	9.9	3.0	2.1	0.0	0.0	37.5
1987-88	0.0	0.0	0.0	0.0	0.6	11.0	16.3	0.4	6.1	T	0.9	0.0	35.3
1988-89	0.0	0.0	T	0.0	8.5	12.5	9.4	27.5	2.1	T	0.0	0.0	60.0
1989-90	0.0	0.0	0.0	2.7	2.4	1.7	8.2	8.5	11.8	0.7	T	T	36.0
1990-91	0.0	0.0	T	0.0	4.8	14.3	10.9	1.2	1.9	13.7	T	0.0	46.8
1991-92	T	T	T	2.8	11.4	6.8	12.2	4.7	0.2	0.4	0.0	0.0	38.5
1992-93	0.0	T	0.0	0.0	14.2	16.9	50.3	13.2	T	2.4	1.7	T	98.7
1993-94	0.0	T	0.0	0.0	6.1	8.3	6.2	15.0	3.1	0.1	0.0	0.0	38.8
1994-95	0.0	0.0	0.0	T	33.3	13.6	11.1	13.3	7.3	6.6	T	T	85.2
1995-96	0.0	0.0	0.0	0.5	0.1	1.4	45.0	22.6	11.2	4.9	T	0.0	85.7
1996-97	T	0.0	0.0	5.1	3.5	16.0	16.2	11.0	7.1	4.4	T	T	63.3
1997-98	0.0	0.0	0.0	1.7	T	6.6	6.3	32.1	14.8	3.7	0.0	T	65.2
1998-99	0.0	0.0	T	0.0	2.1	6.6	8.4	8.6	3.0	3.5	T	0.0	32.2
1999-00	0.0	T	0.0	0.0	5.5	18.0	15.0	5.1	6.2	T	0.5	0.0	50.3
2000-01	0.0	0.0	0.0	0.0	17.0	12.9	6.5	13.1	5.3	9.9	0.0	0.0	64.7
2001-02	T	0.0	0.0	T	18.8	19.9	16.1	0.7	14.4	3.6	0.0	0.0	73.5
2002-	0.0	0.0	0.0	T	0.2	3.4							
POR= 73 YRS	T	T	0.1	1.2	6.9	11.7	13.5	9.7	9.2	4.9	0.6	T	57.8

WBAN : 24127

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 (1961 - 1990). 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>
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2002 SALT LAKE CITY, UTAH (SLC)

Salt Lake City is located in a northern Utah valley surrounded by mountains on three sides and the Great Salt Lake to the northwest. The city varies in altitude from near 4,200 to 5,000 feet above sea level.

The Wasatch Mountains to the east have peaks to nearly 12,000 feet above sea level. Their orographic effects cause more precipitation in the eastern part of the city than over the western part.

The Oquirrh Mountains to the southwest of the city have several peaks to above 10,000 feet above sea level. The Traverse Mountain Range at the south end of the Salt Lake Valley rises to above 6,000 feet above sea level. These mountain ranges help to shelter the valleys from storms from the southwest in the winter, but are instrumental in developing thunderstorms which can drift over the valley in the summer.

Besides the mountain ranges, the most influential natural condition affecting the climate of Salt Lake City is the Great Salt Lake. This large inland body of water, which never freezes over due to its high salt content, can moderate the temperatures of cold winter winds blowing from the northwest and helps drive a lake/valley wind system. The warmer lake water during the winter and spring also contributes to increased precipitation in the valley downwind from the lake. The combination of the Great Salt Lake and the Wasatch Mountains often enhances storm precipitation in the valley.

Salt Lake City normally has a semi-arid continental climate with four well-defined seasons. Summers are characterized by hot, dry weather, but the high temperatures are usually not oppressive since the relative humidity is generally low and the nights usually cool. July is the hottest month with temperature readings in the 90s.

The mean diurnal temperature range is about 30 degrees in the summer and 18 degrees during the winter. Temperatures above 102 degrees in the summer or colder than -10 degrees in the winter are likely to occur one season out of four.

Winters are cold, but usually not severe. Mountains to the north and east act as a barrier to frequent invasions of cold continental air. The average annual snowfall is under 60 inches at the airport but much higher amounts fall in higher bench locations. Heavy fog can develop under temperature inversions in the winter and persist for several days.

Precipitation, generally light during the summer and early fall, is heavy in the spring when storms from the Pacific Ocean are moving through the area more frequently than at any other season of the year.

Winds are usually light, although occasional high winds have occurred in every month of the year, particularly in March.

The growing season is over five months in length. Yard and garden foliage generally are making good growth by mid-April. The last freezing temperature in the spring averages late April and the first freeze of the fall is mid-October.

STATION LOCATION

SALT LAKE CITY, UTAH

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL GROUND SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROMETER			
*NOTE: <u>AIRPORT</u> FAA-WBO Building Municipal Airport+ 175 N. 23rd West Street +International Airport effective in July 1968	7/02/54	6/30/78	325 ft. SE	40°46'	111°58'	4220 c4221	a20	33	32		41	41	41	d6	a. Commissioned 3600 ft. NW of office 7/29/60. Previous exposure was 33 ft. with triple register sensors at 29 feet. b. Commissioned 3600 ft. NW of office 9/1/59. c. Minor move 3/8/78. d. Minor move 2/5/64.		
Executive Terminal Bldg International Airport	6/30/78	03/01/98	.2 mi. NNE	40°47'	111°57'	4221	20	6	6	5	3	5	3	6 e6	e. Type change 1/15/86.		
International Airport	03/01/98	Present	NA	40°47'	111°58'	f4221								S	f. ASOS Commissioned 03/01/98 f. Ground elevation.		

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* NOTES: For earlier station history see previous editions.