

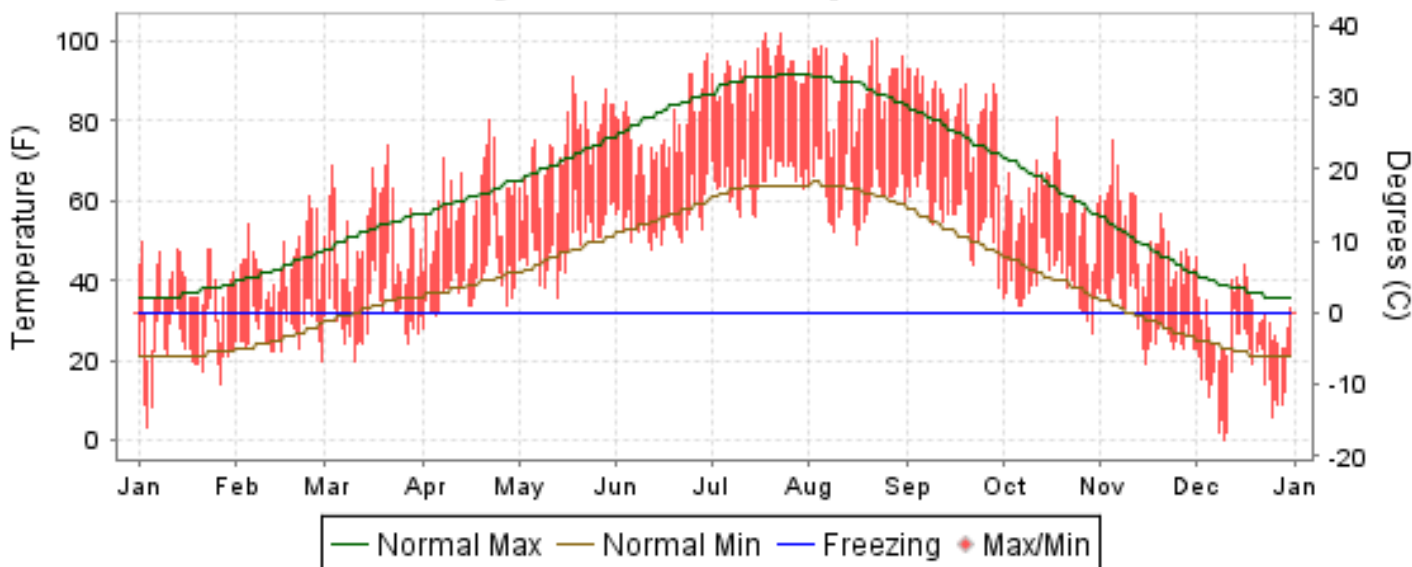


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

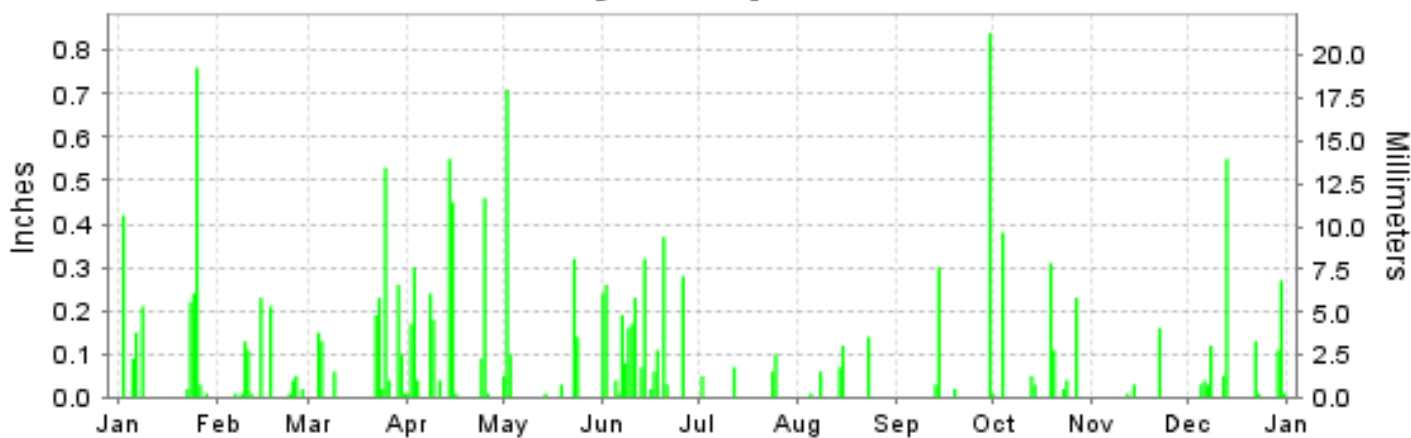
SALT LAKE CITY,  
UTAH (KSLC)

ISSN 0198-5280

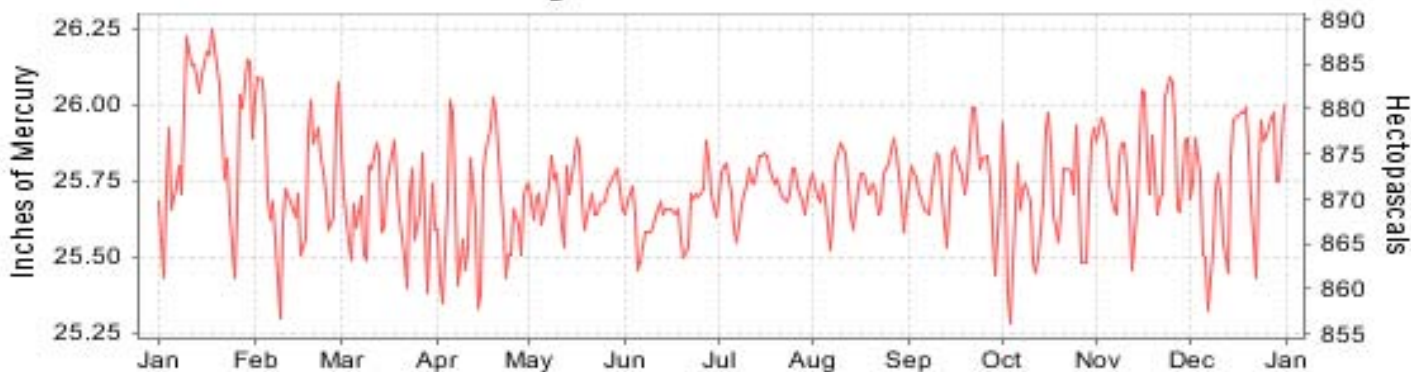
## Daily Max/Min Temperature



## Daily Precipitation



## Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## SALT LAKE CITY (KSLC)

LATITUDE:  
40 ° 47'N

LONGITUDE:  
-111 ° 58'W

ELEVATION (FT):  
GRND: 4220 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	38.3	45.0	52.3	59.1	73.8	78.1	92.6	89.6	83.9	59.5	51.9	30.7	62.9	
	HIGHEST DAILY MAXIMUM	50	61	74	80	91	97	102	101	93	81	75	46	102	
	DATE OF OCCURRENCE	02	24	21	22	18	30	23+	22	04+	18	05	01	JUL 23+	
	MEAN DAILY MINIMUM	23.0	27.3	31.8	38.6	49.1	54.7	65.4	61.4	57.3	39.2	30.0	16.5	41.2	
	LOWEST DAILY MINIMUM	3	20	20	28	36	48	56	49	38	27	19	0	0	
	DATE OF OCCURRENCE	04	28	10	01	13	12	15+	16	30	29	15	10	DEC 10	
	AVERAGE DRY BULB	30.7	36.2	42.1	48.9	61.5	66.4	79.0	75.5	70.6	49.4	41.0	23.6	52.1	
	MEAN WET BULB	26.7		34.4	40.7	49.1	54.1	59.7	56.5	54.0	41.9	34.6			
	MEAN DEW POINT	21.4		23.8	30.8	36.4	44.3	45.4	41.5	40.2	33.8	27.0			
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	4	22	18	6	0	0	0	51	
	MAXIMUM <= 32°	5	0	0	0	0	0	0	0	0	0	0	19	24	
	MINIMUM <= 32°	28	23	20	5	0	0	0	0	0	4	18	30	128	
	MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	1	1	
H/C	HEATING DEGREE DAYS	1056	801	704	477	152	48	0	5	30	480	711	1275	5739	
	COOLING DEGREE DAYS	0	0	0	2	51	99	441	338	204	0	0	0	1135	
RH	MEAN (PERCENT)	73	67	53	54	43	51	33	34	37	59	63	78	54	
	HOUR 05 LST	76	76	64	67	60	66	49	52	54	75	74	83	66	
	HOUR 11 LST	66	57	43	44	31	39	24	24	26	46	48	71	43	
	HOUR 17 LST	73	62	42	43	30	37	20	21	27	50	60	77	45	
	HOUR 23 LST	79	73	62	61	52	59	40	39	44	65	71	82	61	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	0	0	0	0	0	0	0	0	0	2	2	
	THUNDERSTORMS	0	0	0	2	3	13	4	7	6	4	0	0	39	
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.)	25.92	25.76	25.67	25.65	25.71	25.65	25.73	25.73	25.75	25.69	25.81	25.15	25.69	
	MEAN SEA-LEVEL PRESS. (IN.)	30.35	30.08	29.96	29.90	29.92	29.83	29.87	29.89	29.93	29.95	30.13	30.17	30.00	
WINDS	RESULTANT SPEED (MPH)	2.4	2.2	2.1	1.2	0.5	2.5	0.7	2.6	2.7	1.1	1.2	0.1	1.5	
	RES. DIR. (TENS OF DEGS.)	14	16	20	18	06	16	12	15	17	17	18	23	17	
	MEAN SPEED (MPH)	6.3	6.6	9.3	9.1	7.6	8.0	7.7	8.6	8.5	7.9	6.1	4.7	7.5	
	PREVAIL.DIR.(TENS OF DEGS.)	14	17	17	14	35	15	16	16	14	14	14	35	14	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	33	29	41	38	36	36	40	43	40	38	32	23	43	
	DIR. (TENS OF DEGS.)	33	19	19	30	24	27	28	20	21	20	17	35	20	
	DATE OF OCCURRENCE	02	16	22	28	03	25	12	06	14	13	20	08	AUG 06	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	36	53	48	47	44	51	53	53	51	38	26	53	
DIR. (TENS OF DEGS.)	33	20	19	30	24	27	30	23	21	21	30	17	21		
DATE OF OCCURRENCE	02	16	22	28	03	25	12	06	14	13	21	13	SEP 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.15	0.83	1.72	2.55	1.36	2.64	0.28	0.40	1.19	1.18	0.20	1.35	15.85	
	GREATEST 24-HOUR (IN.)	0.79	0.24	0.57	0.94	0.72	0.50	0.16	0.19	0.84	0.42	0.16	0.55	0.94	
	DATE OF OCCURRENCE	25-26	09-10	25-26	14-15	01-02	01-02	24-25	14-15	30	19-20	22	13	APR 14-15	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	10	11	11	13	7	17	4	5	4	9	3	11	105	
PRECIPITATION 0.10	6	4	7	7	4	10	1	2	2	4	1	5	53		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	10.3	6.3	6.0	1.4	0.0	0.0	0.0	0.0	0.0	0.5	2.8	17.1	44.4	
	GREATEST 24-HOUR (IN.)	2.8	3.3	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	5.4	5.4	
	DATE OF OCCURRENCE	25	14	29	03						27	22	30	DEC 30	
	MAXIMUM SNOW DEPTH (IN.)	5	2	3	T	0	0	0	0	0	0	2	7	7	
	DATE OF OCCURRENCE	07	15	30	04+							23	31	DEC 31	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	2	3	1	0	0	0	0	0	0	1	6	17		

# NORMALS, MEANS, AND EXTREMES SALT LAKE CITY (KSLC)

**LATITUDE:** 40° 47'N      **LONGITUDE:** -111° 58'W      **ELEVATION (FT):** GRND: 4220    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	62	37.3	43.4	52.4	61.5	72.2	82.9	92.8	90.4	79.5	65.6	50.0	38.5	63.9
	HIGHEST DAILY MAXIMUM	81	63	69	78	89	99	104	107	106	100	89	75	69	107
	YEAR OF OCCURRENCE		2003	1972	2004	2007	2003	1979	2002	1994	1979	1963	2009	1995	JUL 2002
	MEAN OF EXTREME MAXS.	62	52.1	58.7	69.8	79.2	88.7	97.5	101.4	99.4	93.6	82.3	66.8	54.6	78.7
	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	62	20.3	24.7	31.6	38.3	46.4	54.6	63.2	61.7	51.6	40.2	29.9	22.1	40.4
	LOWEST DAILY MINIMUM	81	-22	-30	2	14	25	35	40	37	27	16	-14	-21	-30
	YEAR OF OCCURRENCE		1949	1933	1966	1936	1965	1962	1968	1965	1971	1955	1932	FEB 1933	
	MEAN OF EXTREME MINS.	62	2.8	7.3	18.4	27.5	33.6	42.0	52.1	50.1	38.0	27.9	15.6	6.5	26.8
	NORMAL DRY BULB	30	29.2	34.5	43.1	50.0	58.8	69.0	77.0	75.6	65.0	52.5	39.6	30.2	52.0
	MEAN DRY BULB	62	28.8	34.1	42.0	49.9	59.3	68.9	78.0	76.0	65.5	52.9	40.0	30.3	52.1
	MEAN WET BULB	26	25.7	29.4	35.6	40.7	47.0	52.5	57.6	56.6	50.5	42.7	33.7	26.8	41.6
	MEAN DEW POINT	26	22.8	25.5	30.0	34.2	40.1	44.1	48.6	48.1	43.0	36.0	29.6	23.2	35.4
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.3	9.3	22.1	19.5	4.1	0.0	0.0	0.0	55.3
	MAXIMUM <= 32	30	9.4	3.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	*	1.1	7.6	21.7
	MINIMUM <= 32	30	27.1	21.9	13.1	5.0	0.2	0.0	0.0	0.0	*	3.1	18.0	26.9	115.3
MINIMUM <= 0	30	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	
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	76	72	61	54	52	43	38	39	48	58	68	75	57
	HOURLY 05 LST	30	81	80	71	67	68	60	54	54	63	70	77	80	69
	HOURLY 11 LST	30	71	65	51	44	41	33	29	30	37	45	58	70	48
	HOURLY 17 LST	30	71	61	47	40	36	28	24	25	32	43	59	70	45
	HOURLY 23 LST	30	80	78	68	61	61	51	45	45	55	66	75	79	64
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)	46	4.6	2.5	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	3.7	12.4
	THUNDERSTORMS	62	0.3	0.5	1.3	2.0	5.2	5.3	6.2	7.3	4.4	1.9	0.6	0.3	35.3
CLOUDNESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	63	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)	34	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	70	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	70	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	70	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)	26	25.84	25.77	25.71	25.68	25.66	25.67	25.72	25.71	25.74	25.77	25.80	25.80	25.74
	MEAN SEA-LEVEL PRES. (IN)	26	30.22	30.11	29.99	29.91	29.86	29.84	29.85	29.88	29.93	30.02	30.12	30.20	29.99
WINDS	MEAN SPEED (MPH)	26	6.9	7.6	9.1	9.7	9.3	9.4	9.3	9.6	8.9	8.2	7.7	7.2	8.6
	PREVAIL.DIR.(TENS OF DEGS)	45	15	15	15	16	16	17	17	17	15	15	15	15	15
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	11	44	47	45	53	63	51	48	43	47	38	40	43	63
	DIR. (TENS OF DEGS)		18	18	30	19	20	19	17	20	32	20	17	17	20
	YEAR OF OCCURRENCE		2008	1999	2006	2002	2006	2002	2008	2009	2007	2009	2008	2008	MAY 2006
	MAXIMUM 3-SECOND														
	SPEED (MPH)	11	53	62	53	64	75	60	56	56	58	51	55	49	75
DIR. (TENS OF DEGS)		17	18	19	19	19	24	18	16	32	21	28	17	19	
YEAR OF OCCURRENCE		2008	1999	2009	2002	2006	2004	2008	2006	2007	2009	2000	2008	MAY 2006	
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)	81	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)	81	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)	81	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	10.9	9.3	10.5	9.9	9.7	5.2	4.8	5.6	6.0	6.9	9.0	9.1	96.9
PRECIPITATION >= 1.00	30	0.0	*	0.0	0.2	0.2	0.1	*	*	0.3	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)	81	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	2006	1971	1984	1994	1972	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	81	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)	61	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) 2009 SALT LAKE CITY (KSLC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.41	.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
2003	0.64	1.06	1.39	1.65	1.67	0.88	0.33	0.67	1.59	0.16	1.94	3.97	15.95
2004	0.46	2.25	0.88	2.38	0.95	1.70	0.34	0.19	0.50	3.48	1.24	0.52	14.89
2005	1.44	1.23	2.44	3.15	2.88	1.64	0.01	0.72	0.40	0.91	0.80	1.26	16.88
2006	1.36	1.26	2.76	3.14	0.79	0.72	0.26	0.92	1.87	1.02	1.13	0.91	16.14
2007	0.73	1.53	1.11	0.53	0.57	0.80	0.53	0.10	1.74	1.88	0.49	3.35	13.36
2008	1.30	1.24	1.34	0.75	1.01	0.75	0.14	0.83	0.31	1.29	1.50	1.28	11.74
2009	2.15	0.83	1.72	2.55	1.36	2.64	0.28	0.40	1.19	1.18	0.20	1.35	15.85
POR= 62 YRS	1.32	1.28	1.77	2.06	1.69	0.97	0.67	0.77	1.06	1.32	1.32	1.37	15.60

WBAN : 24127

**AVERAGE TEMPERATURE (°F) 2009 SALT LAKE CITY (KSLC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2003	38.3	34.6	44.6	50.4	61.3	71.2	83.6	80.0	65.8	57.9	37.3	33.6	54.9
2004	22.4	26.9	47.8	52.4	60.3	70.2	79.0	74.3	65.3	53.9	39.0	32.7	52.0
2005	34.5	35.0	42.7	50.5	59.3	66.8	80.8	77.0	65.5	54.4	41.4	31.5	53.3
2006	34.4	33.5	41.7	53.3	63.1	73.2	83.0	76.5	63.5	50.6	41.0	30.7	53.7
2007	21.1	36.8	46.3	52.5	63.0	73.2	84.0	80.7	66.7	51.9	41.9	27.0	53.8
2008	23.9	33.3	40.4	46.3	57.4	69.9	81.4	77.8	66.6	53.1	43.0	30.1	51.9
2009	30.7	36.2	42.1	48.9	61.5	66.4	79.0	75.5	70.6	49.4	41.0	23.6	52.1
POR= 62 YRS	28.8	34.1	42.0	49.9	59.3	68.9	78.0	76.0	65.5	52.9	40.0	30.3	52.2

**HEATING DEGREE DAYS (base 65°F) 2009 SALT LAKE CITY (KSLC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2002-03	0	0	56	466	817	907	821	846	628	434	230	25	5230
2003-04	0	0	75	242	827	967	1311	1098	526	371	178	18	5613
2004-05	0	12	97	344	774	993	940	832	684	429	201	101	5407
2005-06	0	3	99	328	701	1028	943	873	719	344	158	7	5203
2006-07	0	2	141	450	713	1055	1350	783	574	379	159	35	5641
2007-08	0	0	88	399	688	1170	1267	914	755	557	258	77	6173
2008-09	0	0	41	374	655	1077	1056	801	704	477	152	48	5385
2009-	0	5	30	480	711	1275							

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**COOLING DEGREE DAYS (base 65°F) 2009 SALT LAKE CITY (KSLC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2003	0	0	0	3	122	219	584	474	110	29	0	0	1541
2004	0	0	0	0	42	181	441	304	114	7	0	0	1089
2005	0	0	0	0	31	161	499	381	116	8	0	0	1196
2006	0	0	0	0	105	260	568	367	101	10	0	0	1411
2007	0	0	0	11	104	288	595	492	145	0	0	0	1635
2008	0	0	0	3	30	230	516	403	97	14	0	0	1293
2009	0	0	0	2	51	99	441	338	204	0	0	0	1135

**SNOWFALL (inches) 2009 SALT LAKE CITY (KSLC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2002-03	0.0	0.0	0.0	T	0.2	3.4	T	9.0	5.3	4.4	T	0.0	22.3
2003-04	0.0	0.0	0.0	1.0	10.7	31.2	9.9	19.8	3.9	1.0	0.0	T	77.5
2004-05	0.0	0.0	0.0	0.1	3.3	3.7	6.7	11.3	2.8	T	0.0	T	27.9
2005-06	0.0	0.0	T	0.0	1.1	6.9	9.2	13.5	13.3	2.2	0.0	0.0	46.2
2006-07	0.0	T	T	T	8.1	9.9	10.8	13.1	2.5	T	T	0.0	44.4
2007-08	0.0	0.0	T	0.1	0.8	29.8	17.1	17.4	8.3	T	T	0.0	73.5
2008-09	0.0	0.0	0.0	0.5	3.0	20.8	10.3	6.3	6.0	1.4	0.0	0.0	48.3
2009-	0.0	0.0	0.0	0.5	2.8	17.1							
POR= 62 YRS	T	T	0.1	1.4	6.7	13.3	13.5	10.5	9.6	5.2	0.6	T	60.9

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 (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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK METADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></p> <p><b>NOTE:</b> 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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# 2009

## SALT LAKE CITY

### UTAH (KSLC)

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 foilage 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.

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