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Climate of Salt Lake City, Utah

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NOAA TECHNICAL MEMORANDUM NWS WR-152

CLIMATE OF SALT LAKE CITY, UTAH

William J. Alder, Laurence S. Nierenberg, Sean T. Buchanan, William Cope (Retired), James A. Cisco, Craig C. Schmidt, Alexander R. Smith (Retired), Wilbur E. Figgins (Retired) National Weather Service Forecast Office

Salt Lake City, Utah

February 1998 Seventh Revision

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February 1998 Seventh Revision

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This publication has been reviewed and is approved for publication by Scientific Services Division, Western Region

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Delain A. Edman, Chief Scientific Services Division Salt Lake City, Utah

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CLIMATE OF SALT LAKE CITY, UTAH

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I. INTRODUCTION

The purpose of this publication is to attempt to bring together under one cover as much data as possible concerning the climate of Salt Lake City. This was a difficult undertaking because of the wide variance of climate in the Salt Lake area. The Wasatch Mountain range, immediately east of the city, and the location of the Great Salt Lake, a short distance to the west, cause a great difference in local microclimates.

The Salt Lake City weather records began over 100 years ago; however, the statistics in this report are based on the airport weather records which began May 1, 1928. The airport location continues to the present to be the National Weather Service's official weather observing location for the Salt Lake City area. This provides us with over 6 decades of continuous weather information that was observed from an existing or comparable exposure location. However, it must be remembered that various extremes stated in this paper have, no doubt, been exceeded at other sites in the locality. Any summary such as this must be taken in the context of giving a general view of Salt Lake Valley conditions, with the details only being applicable to the airport environs.

II. GEOGRAPHICAL AND CLIMATOLOGICAL SUMMARY

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 4200 feet to 5000 feet above sea level (ASL).

The Wasatch Mountains to the east have peaks to nearly 12,000 feet ASL. 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 ASL. The Traverse Mountain Range at the south end of the Salt Lake Valley rises to above 6,000 feet ASL. These mountain ranges help to shelter the valley from storms from the southwest in 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 fall through the 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 average maximum readings in the nineties.

The average temperature range is about 30 degrees in the summer and 18 degrees during the winter. Summer temperatures above 102 degrees or winter temperatures colder than -10 degrees occur only 1 season out of 4.

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 greater amounts fall on higher bench locations. Heavy fog often develops under temperature inversions in the winter and can persist for several days.

Precipitation, generally light during the summer and early fall, reaches a maximum in the spring when storms from the Pacific Ocean are moving through the area more frequently than in 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, or freeze-free period, averages over 5 months in length. Yard and garden foliage generally are making good growth by mid April. The last freezing temperature in the spring normally occurs in late April with the first fall freeze normally occurring in mid October.

III. HISTORY OF WEATHER OBSERVATIONS AT SALT LAKE CITY

The first published weather observations of the Salt Lake area were taken in the summer of 1847 by William W. Phelps, who entered the Salt Lake valley with the Brigham Young company in July 1847. During the 1850's and 1860's, W.W. Phelps probably took most of his weather observations on or near his property that was located on the northwest corner of West Temple and 100 South Street in downtown Salt Lake City.

On January 12, 1857, W.W. Phelps presented to the Utah legislature a resolution creating the office of Superintendent of Meteorological Observations. The resolution was accepted and Phelps was appointed to fill the position. As Superintendent, Phelps used weather instruments from the Smithsonian Institution and private sources to furnish daily and monthly weather observations and summaries to the city's newspaper, the Deseret News. Figure 1 shows two of these summaries -- dated December 1857 and November 1861.

W.W. Phelps died on March 6, 1872. Subsequently, Marcus E. Jones, a professor of Botany at Salt Lake College (in 1880) and President of the Utah Academy of Science (in 1914), obtained Phelp's weather data from the Deseret News and corrected and summarized Phelp's daily weather records into monthly tabulations for the years 1847 to 1867. See figure 2.

In March 1874, the U.S. Army Signal Service of the United States government began taking official weather observations for the Salt Lake City area. Their weather station was located in a corner room on the third floor of the "Exchange Building" on the southeast corner of East Temple and First South Streets.

On July 1, 1891, the U.S. Weather Bureau was established and made part of the Department of Agriculture. At this time many Army Signal Corps personnel doffed their Army uniforms and became members of the Weather Bureau. The first civilian official in charge of the Weather Bureau Office was formerly an Army official.

Through the years, the downtown Salt Lake Weather office changed locations several times. In succession, the office was located at the following addresses:

March 19, 1874, to June 29, 1876: Corner room on the third floor of the "Exchange Building" or "Godbe Building" on the southeast corner of East Temple and First South Streets.

June 29, 1876, to July 31, 1891: In two rooms on the fourth floor of the Wasatch Hotel, southeast corner of Main and Second South Streets.

FIGURE 1

Meteorological Observations for December, 1857, by H.E. Phelps in Salt Lake City, Utah. Taken from the <u>Deseret News</u>, January 6, 1858.

Meteorological Observations for November, 1861, by W.W. Phelps in Salt Lake City, Utah Taken from the <u>Deseret News</u>, Janary 8, 1862.

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FIGURE 2

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JULY 31, 1891, TO MARCH 15, 1899: BOARD OF TRADE BUILDING AT 154 WEST SECOND SOUTH STREET, IN ROOMS 50, 51, AND 52 ON THE 5TH FLOOR.

March 15, 1899, to July 1, 1909: Southeast corner of Second South and West Temple Streets, on the 6th floor, rooms 601, 628, and 629. On July 1, 1904, the office quarters were expanded to include rooms 630 and 631.

July 1, 1909, to December 1, 1932: Boston Building on the corner of Main Street and Exchange Place occupying office rooms 1103 through 1107 in the east end of the penthouse and the east corner of the garret. Starting on May 1, 1928, an additional office was opened at the new airport west of downtown Salt Lake City.

December 1, 1932, to August 15, 1954: 501 Federal Building located at Main and Fourth South Streets.

August 15, 1954, to present: The city office was closed and its functions moved to the airport.

The Wright brothers ushered in the flying age and with it the demand for supporting airports around the country. As mentioned above, the Weather Bureau expanded their mode of operation to meet this challenge. On May 1, 1928, the Weather Bureau established a first-order weather station at the Salt Lake Municipal Airport, 3-3/4 miles west-northwest of the downtown Federal Building at latitude 40° 46' and longitude 111° 58'. The station was located in a small house in the southeast corner of the airport complex, east of the United Airlines hangar. Elevation at the observing site was 4222 feet ASL.

The airway and pibal observations began on the opening date with the first weather observation being taken at 6:00 a.m. May 1, 1928. The wind anemometer was located 47 feet above the ground. The thermometers were installed in a standard Weather Bureau instrument shelter with the thermometers 5 feet above the ground. The precipitation gages were placed approximately 6 feet west of the shelter with the base on the ground and top or opening 3 feet above the ground. On June 11, 1933, the weather-observing equipment was moved 800 feet north of the original location to the roof of the Airport Administration Building which was a two-story structure. The temperature apparatus was installed in a standard Weather Bureau instrument shelter with the thermometer being located 5 feet above the roof and 33 feet above ground level. The rain gages were installed on the same roof, about 20 to 25 feet immediately north of the instrument shelter. The wind instrument was 18 feet above the second-story roof or 46 feet above ground level.

During the winter of 1943-1944, a third floor was added to the Administration Building. Although the instrument shelter was able to remain on the second-story roof, just south of the new third story, the rain gages were moved to the roof of the third floor on April 1, 1944, making them 41 feet above ground level.

On July 2, 1954, the station was moved to the one-story Federal Aviation Agency - Weather Bureau Office building at 174 North 2300 West Streets or some 325 feet southeast of the previous location. The wind instruments were 33 feet above the ground, temperature instruments 6 feet above the ground, and rain gages 3 feet above the ground.

On July 29, 1960, automatic temperature and wind-measuring equipment were moved to near the major runway 3600 feet northwest of the Government building.

On March 8, 1978, the station was moved to the Executive Terminal building at 337 North 2370 West Streets approximately 1/4 mile north of the 1954 location. Wind, temperature, dew point, and visibility measuring equipment were remote sensors and were located adjacent to the main airport runway. Precipitation, solar radiation, and standby temperature measuring equipment were located about 300 feet east of the station. The new elevation of the station was 4227 feet ASL.

Ceilometer equipment, which automatically observes and records cloud heights, was first installed at the airport on March 5, 1946. The projector was located 1463 feet north of the observing quarters, and the ceilometer scanner was located on the roof of the first floor of the Administration Building about 80 feet north of the observing quarters. On October 31, 1958, a rotating beam ceilometer, with a baseline of 800 feet, was installed 1/4 mile south of the main airport runway, and then on December 12, 1976, relocated to be near the south end of the main airport runway about 4700 feet west-northwest of the Forecast Office. On August 11, 1994, the weather office was relocated to the extreme southeast corner of the airport complex at 2242 West North Temple Street. This is about 3400 feet southeast of the previous location. The elevation of the station continued to be 4227 feet ASL. On November 15, 1994 the forecast office accepted and began using a Doppler Radar which was located on Promontory Point at the north end of the Great Salt Lake.

The present state of the art of both observing and forecasting the weather is constantly being re-evaluated for improvement. New computer-age technology is replacing the older, and often times, cumbersome methods of producing the various weather products issued to the public and special user groups. Weather forecasting programs have been developed that are especially tailored for special problem areas. The fire-weather forecasting program is a typical example. Specifically trained meteorologists utilize mobile self-contained weather stations and report directly to forest or range fire fighting crews. They give on-the-spot observations and forecasts of wind direction and speed, temperature, humidity, and other selected parameters required for maximum support to the fire fighting crews. Other special weather support programs include those in fruit-frost cooperative observing and forecasting, air pollution, aviation, and local forecasting. All these are in addition to the regular public service duties.

Climatology is an input in many of these programs. Certain combinations of pressure, wind, moisture, modified by topographical combinations yield specific characteristics of "weather". The only problem is that the atmosphere is so vast in its global scale that local combinations of specific weather yielding parameters are very difficult to duplicate. "Man" by his very existence is constantly changing the landscape--laying miles or acres of pavement and cement, building heating and cooling systems, and other modern-day miracle aids--and in the process, influencing Mother Nature's natural local temperature and wind circulation patterns.

IV. SELECTED HIGHLIGHTS OF THE SALT LAKE CITY AIRPORT WEATHER RECORDS

When the all-time high temperature of 107 degrees occurred on July 26, 1960, the surface winds, for the most part, were southerly 5-12 mph through the night and morning hours shifting to northerly 5-9 mph during the afternoon. At 3 p.m. the temperature was 103 degrees with 8 tenths of the sky covered by a combination of cumulonimbus and cirrus type clouds. The clouds thinned out during the next couple of hours and the record maximum temperature of 107 was reached. The morning minimum on the 26th of July was 63 degrees, which was only one degree warmer than the normal minimum for that date. Increasing cloudiness the following day, July 27th, accounted for a slight drop in the maximum temperature to 104 degrees. Maximum temperatures continued to decrease the next two days--down to 101 on the 28th, and finally on the 29th, down to an even 100 degrees.

February 9, 1933, was the date of the lowest temperature ever recorded at the Salt Lake airport which was 30 degrees below zero. The mercury managed to climb to 8 degrees above zero for the afternoon maximum. It was cold again the next day, February 10th, with a minimum of 26 degrees below zero. But on February 11th, the short cold snap was broken when a snow storm moved over the area and the minimum temperature rose to 1 degree above zero.

The snowiest month of the year is January with an average of 9 days with snowfall of 0.1 inch or more, and with an average monthly snowfall total of 13.2 inches. The greatest monthly snowfall total at the Salt Lake Airport was 50.3 inches that fell in January 1993.

It may be surprising to many to note that significant amounts of snow can fall as late as April. In April 1974, a total of 26.4 inches of snow fell at the Salt Lake Airport. This not only set the record for the most snow ever accumulated in the month of April, but was also the greatest monthly snowfall for the entire 1973-74 season. April 1984 was also a very snowy month with a total accumulation of 25.1 inches.

April has the distinction of having the highest average monthly precipitation with 2.21 inches followed by March with an average of 1.72 inches. The greatest total monthly precipitation of 7.04 inches fell in September 1982 when moisture from the remains of hurricane Olivia moved north through Utah. The driest month of the year is July with a monthly precipitation average of 0.89 inches.

The maximum 24 hour precipitation (not confined to a calendar day) ever recorded at the Salt Lake Airport was 2.41 inches on April 22-23, 1957. The maximum one hour precipitation of 1.94 inches was recorded during heavy thundershowers between noon and 1 p.m. on July 13, 1962. On that same day, hailstones up to one half inch in diameter fell, and the total 24 hour rainfall was 2.28 inches.

V. LOCAL TOPOGRAPHY EFFECTS UPON THE SALT LAKE WEATHER

Snowfall enhancement along and downwind of the Great Salt Lake is often observed. On occasion it appears that the snow area extends continuously from the lee shores of the lake to the windward slopes of the nearby mountains. The theory of this phenomenon is as follows. The Great Salt Lake, due to its high salt content, never freezes during the winter. Cold air masses moving from the Pacific or out of Canada during the fall and winter months are sometimes much colder than the water surface of the lake. As these cold air masses pass over the lake, the air is modified by the absorption of heat and moisture rising off the surface of the lake and becomes more unstable, causing what is referred to as a "lake effect" snowstorm.

An example would be, air carried by west to northwest winds blowing across the Great Salt Lake in the rear of a winter low pressure system gaining both moisture and instability over the water. Then, the induced vertical motion due to differential friction as the air moves off the water to land results in bands of heavy snow in the valley. Nearby mountain ranges force the air to be cooled by the orographic lift up the mountain slopes. This orographic lift often prolongs and increases precipitation along the windward slopes of the mountains. One such "lake effect" snow storm occurring October 17-18, 1984, was documented by WSFO Salt Lake City forecaster David Carpenter in NOAA Technical Memorandum NWS WR-190.

The surface wind pattern around the Salt Lake Valley and adjacent bench areas is greatly influenced by local topography. For example, the Great Salt Lake is responsible for local lake breezes, which usually develop by late morning or early afternoon and continues until sunset. After sunset and through the night, the surrounding mountains produce canyon breezes which extend down into the valleys.

The Great Salt Lake breeze is caused by the temperature difference of the colder lake surface and the warmer adjacent land when it is heated by the sun. Because the air over the land is warmer, it rises and is replaced by the cooler air from the lake surface. This breeze usually blows on relatively calm, sunny, summer days, and alternates with the oppositely directed nighttime land breeze or canyon breeze.

Canyon breezes occur almost every night when the sky is clear or partly cloudy. They are the result of the radiational cooling of the surface layer of air on the mountain slopes. This air cools much faster than air at the same level in the free atmosphere over the valley and, hence, sinks. The air aloft flowing toward the mountain slope to replace this sinking air gives a circulation similar to the sea-breeze circulation. Such breezes usually do not extend more than a few miles into the valleys and rarely reach excessive speeds. In fact, during the summer these cool winds are a refreshing change from the heat of the day. Only when this nocturnal cooling process is reinforced by large scale circulation do the winds reach high speeds.

Canyon winds are one form of topographic wind that create serious problems several times each year. These winds occur when strong high pressure develops over Wyoming and significantly lower pressure develops in Utah and/or Nevada. When surface pressure differences are significant between the two areas, moderate to strong easterly canyon winds blow out of the canyon mouths along the Wasatch Front from Cache to Utah counties. Occasionally the cold polar or arctic air associated with high pressure in Wyoming is deep enough to spill over the mountains. Sometimes this can result in easterly winds blowing from the mouths of canyons and steep slopes of the Wasatch Mountains into the nearby valleys. In extreme cases these winds can exceed hurricane force. In some circumstances these winds can extend into the valley. Canyon winds can cause snow to drift over heavily traveled highways, break tree limbs, topple structures, and, in general, make life unpleasant.

A strong southwest flow that proceeds a pacific cold front sometimes causes the Salt Lake Valley to experience a "rain shadow" effect. This is known as the "Oquirrh shadow," and it can prevent the Salt Lake valley from receiving significant precipitation. The area is protected by strong winds aloft that downslope the Oquirrh mountains, causing air to warm and dry out by compression. Moderate to strong southerly winds are usually an indication of a significant storm to hit the Salt Lake area. Strong northwesterly winds often blow behind a cold front and can cause havoc for drivers along interstate 80 between Salt Lake City and Wendover. These winds kick up waves along the shores of the Great Salt Lake and can cause blowing salt and sand, sometimes reducing visibilities to as low as 100 feet across the west desert. These winds often deposit a foul smelling odor in the Salt Lake Valley, known as "Lake Stink." The Lake stink is a combination of decomposing algae and brine shrimp.

VI. AIR POLLUTION AND TRAPPED AIR

Air pollution caused by stagnant air trapped under temperature inversions is another big part of the Salt Lake Valley weather regime. In Salt Lake City, the worst air stagnation occurs with stationary high pressure, both at the surface and aloft, and mainly in the months of November through February. Under this weather pattern, the wind is largely controlled by local topography rather than ambient pressure gradients; hence, it is very light and subject to diurnal variation. These light winds, when combined with frequent snow cover during the winter months, result in strong nighttime radiational cooling. At the same time, it is usually getting warmer aloft. This creates a strong surface-based temperature inversion under which cold, stable air is trapped in the valley. This air often becomes very stagnant. Such a stagnant layer is generally confined to below 6,000 feet ASL and diurnal heating is frequently unable to activate much vertical mixing in the stagnant layer. Under these conditions, bench locations above 6,000 feet ASL surrounding the valley often enjoy good ventilation or movement of air and may be much warmer than valley locations. These conditions are, respectively, due to the fact that the wind above 6,000 feet ASL is usually still controlled by pressure gradients and frequently stronger than the lower level winds, and by the fact that it is relatively warmer aloft.

There are situations that can allow some air mixing in the Salt Lake Valley that may present a problem at the surrounding higher elevations. This can happen when there is a subsidence inversion or stable layer of air between about 6 and 12 thousand feet. Subsidence is a descending motion of air in the atmosphere. A subsidence inversion is a temperature inversion produced by the adiabatic warming of this layer of subsiding air. In an adiabatic process, compression or descending motion always results in warming. Rising motion results in expansion and cooling. Surface heating usually allows mixing of the air to the base of this stable layer aloft, which gives a moderate mixing depth of air in the valley. However, if the base of the stable layer is at or just above the surrounding mountain areas, surface heating may not affect it so that it may severely restrict the vertical transport of pollutants.

VII. SOLAR ENERGY AND SKY COVER

The average annual amount of sky cover at the Salt Lake Airport (sunrise to sunset), based on a range of 0 tenths for no clouds or obscuring phenomena to 10 tenths for overcast conditions, is 5.5 tenths. The months with the highest average amount of sky cover are December and January with 7.1 tenths and 7.2 tenths respectively. The months with the lowest average sky cover are July and September with both averaging 3.5 tenths, followed closely by August with 3.6 tenths.

Based on the definition that the sky is cloudy with 8 tenths to 10 tenths of cloud cover, partly cloudy with 4 tenths to 7 tenths cloud cover, and clear with 0 tenths to 3 tenths cloud cover, there is an annual average of 134 cloudy days at the Salt Lake Airport, 103 partly cloudy days, and 128 clear days. These values are somewhat misleading because they are based on total cloud cover without any distinction between opaque and thin clouds. Some of the days listed in our climatological data as cloudy may have experienced only high, thin clouds covering 8 tenths to 10 tenths of the sky with only a few tenths of these clouds actually dense enough to block out the sun or sky.

Because solar energy is being increasingly emphasized as an alternative to fossil fuels, a more meaningful statistic than amount of sky cover may be the percent of possible sunshine received. At the Salt Lake Airport, the annual average percent of possible sunshine received is 70 percent. The sunniest days of the year are in July and September with each of these months receiving 84 percent of possible sunshine. The lowest average amount of possible sunshine is received in December with 40 percent followed by January with 48 percent.

Sunlight is usually measured in footcandles, the illuminance provided by a light source of one candle at a distance of one foot and only the visible portion of the solar spectrum is used. Full sunlight, when the sun is at its zenith, produces an illuminance of the order of 10,000 footcandles on a horizontal surface compared to full moonlight, which provides an illuminance of only about 0.02 footcandles.

The energy from this sunlight is measured in kilojoules per square meter or the langley unit which is defined as a unit of energy per unit area and is equal to one gram-calorie per square centimeter. To convert kilojoules to langleys, you multiply the kilojoule value by 0.02390.

An accurate conversion of these illumination/radiation factors is impossible, but a rough comparison on a cloudy or a cloudless day is as follows: to convert langley per minute to footcandles on a cloudy day, multiply by 7,000.

The mean daily solar radiation (in langleys) at Salt Lake City by month is as follows: January 163, February 256, March 354, April 479, May 570, June 621, July 620, August 551, September 446, October 316, November 204, and December 146 for an annual average of 394.

VIII. ACKNOWLEDGMENTS

Mr. Wilbur E. Figgins (retired) is responsible for the original research and preparation of this document. Since Mr. Figgins retirement in 1985 until the fall of 1989, Alexander Smith (retired) of the Salt Lake City WSFO staff undertook the responsibility of keeping it updated, as well as computerizing much of the content. Craig Schmidt was responsible for the maintenance and reformatting of the document through September of 1991. James Cisco took over Craig Schmidt's responsibilities until November of 1994. William Cope (retired) was responsible for updating much of the new material until his retirement in April of 1995. Sean Buchanan took over the responsibility of updating, reformatting, and creating new information for the climate book in August of 1995 to December 1995. From January 1996 to the present, Laurence Nierenberg assumed the responsibility of updating the records and creating new tables for the climate book.

We would like to thank Mr. William Alder, Meteorologist in Charge, Salt Lake City Weather Service Forecast Office, for his encouragement, direction, and support in helping us complete this project. We are very grateful to Mr. L. W. Snellman, former Chief, Scientific Services Division, Western Region Headquarters, for his initial review, suggestions, candor, expertise, and encouragement to pursue the project. Additionally, our gratitude to Mr. Dean Jackman, former Deputy Meteorologist in Charge (retired), Salt Lake City WSFO, for his assistance in historical research, and for the use of information from his air pollution studies. Finally, our thanks to all individuals, past and present, whose attempts at organizing these records made our work easier.

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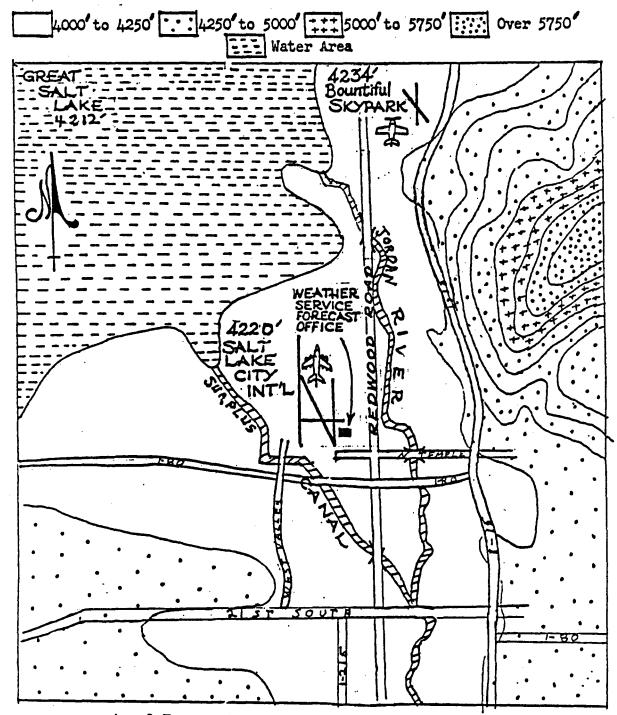
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X. FIGURE 3 SLC Observation Site (Weather Service Forecast Office) In Relation To Salt Lake County

SCALE: 1 Inch Equals 2 Miles



Local Topography and Map of Salt Lake Airport and Vicinity.

XI. TABLE 1 SUNRISE AND SUNSET TABLE

SUNRISE AND SUNSET AT SALT LAKE CITY, UTAH MOUNTAIN STANDARD TIME

NO. 1297

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Add one hour for Daylight Saving Time if and when in use.

Prepared by NAUTICAL ALMANAC OFFICE UNITED STATES NAVAL OBSERVATORY WASHINGTON, D.C. 20390

> U.S. GOVERNMENT PRINTING OFFICE WASHINGTON : 1965

NORMALS, MEANS, AND EXTREMES

SALT LAKE CITY, UTAH

1 APPENDE: 401 471 N. LO	NGE	UDE:11		มายา	IVATION	. ET C	ג רואט	771 1345	0 42	24 TIM	F ZONE	: MOUN	JTAIN	WBAN: 24127
LATTIUDE: 40° 47' N LO		JAN			I APR_						OCT			I YEAR
TEMPERATURE 'F	1197	200	11112		<u> </u>	, mar					- <u>¥</u> 2	1		· · · · ·
Normals							1	l						
-Daily Maximum		36.4	43.6	52.2	61.3	71.9	82.8	92.2	89.4	79.2	66.1	50.8	37.8	63.6
-Daily Minimum		19.3	24.6	31.4	37.9	45.6	55.4	63.7	-61.8	51.0	40.2	30.9	21.6	40.3 52.0
-Monthly		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
Extremes		62	69	78	86	93	104	107	106	100	89	75	67	107
-Record Highest -Year	66	1982	1972	1960	1992	1984	1979	1960	1994	1979	1963	1967	1969	JUL 1960
- rear -Record Lowest	66	-22	-30	2	14	25	35	40	37	27	16	-14	-21	-30
-Year	ľ	1949	1933	1966	1936	1965	1962	1968	1965	1965	1971	1955	1932	FEB 1933
NORMAL DEGREE DAYS:														
Heating (base 65 °F)		1150	865	719	464	215	51	0	0	108	373	726	1094	5765
Cooling (base 65 "F)		0	0	0	0	_23	174	400	329	114	7	0	0	1047
% OF POSSIBLE SUNSHINE	56	45	54	63	68	73	80	83	82	82	72	53	43	67
MEAN SKY COVER(tenths)											4.7	6.3	7.2	5.6
Sunrise - Sunsel	59	7.3	7.1	6.7	6.4	5.7	4.3	3.6	3.7	3.7	4./	0.2	1.2	5.0
MEAN NUMBER OF DAYS:														
Sunrise to Sunset 	66	5.6	5.2	7.0	6.7	9.1	13.8	16.7	15.8	16.5	13.9	8.4	6.3	125.2
-Partly Cloudy	66	6.5	6.9	8.2	9.4	10.2	9.8	9.8	10.7	8.3	7.7	7.1	6.5	101.0
-Cloudy	66	18.9	16.2	15.8	13.9	11.7	6.3	4.5	4.6	5.2	9.4	14.5	18.2	139.1
Precipitation			-										·	
.01 inches or more	66	9.9	8.9	9.8	9.5	8.3	5.4	4.5	5.7	5.3	6.4	8.0	9.1	90.6
Snow, Ice Pellets, Hail														
1.0 inches or more	66	4.1	3.2	2.8	1.3	0.2	0.0	0.0	0.0	0.•	0.3	2.2	3.8 0.3	17.8 36.5
Thunderstorms	66	0.3	0.7	1.3	2.2 .	5.3	5.3	6.7	7.7	4.2	1.9	0.5	0.3	56.5
Heavy Fog Visibility	66	4.5	2.3	0.3	0.1	0.*	0.0	0.0	0.0	0.0	0.•	0.9	3.6	11.8
1/4 mile or less	00	4.5	2.5	0.5	0.1	0.	0.0	0.0	0.0	0.0	0.	0.1	5.0	
Temperature "F -Maximum														
90° and above	35	0.0	0.0	0.0	0.0	0.6	9.1	23.3	19.3	3.8	0.0	0.0	0.0	56.1
32° and below	35	10.6	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.•	0.9	8.6	24.3
-Minimum						_								
-Minimum 32* and below	.35	27.6	22.7	15.5	6.2	0.7	0.0	0.0	0.0	0.3	4.6	18.3	27.7	123.7
32° and below 0° and below	35	1.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.8
32° and below 0° and below AV. STATION PRES.(mb)			-										_	
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%)	35 22	1.6 874.9	0.4 873.3	0.0 869.7_	0.0 869.7	0.0 869.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.8 871.9 67
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05	35 22 35	1.6 874.9 79	0.4	0.0	0.0	0.0	0.0 870.0	0.0 871.2	0.0 871.6	0.0 872.2	0.0 873.5	0.0 873.5 75 58	0.8 874.8 79 70	2.8 871.9 67 47
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%)	35 22	1.6 874.9	0.4 873.3 78	0.0 869.7_ 71	0.0 869.7 67	0.0 869.0 65	0.0 870.0 59 31 26	0.0 871.2 52 27 22	0.0 871.6 54 30 23	0.0 872.2 61 35 7 29	0.0 873.5 69 43 41	0.0 873.5 75 58 59	0.8 874.8 79 70 71	2.8 871.9 67 47 43
32° and below 0° and below <u>AV. STATION PRES.(mb)</u> RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time)	35 22 35 35	<u>1.6</u> 874.9 79 71	0.4 873.3 78 64	0.0 869.7 71 52	0.0 869.7 67 44	0.0 869.0 65 39	0.0 870.0 59 31	0.0 871.2 52 27	0.0 871.6 54 30	0.0 872.2 61 35	0.0 873.5 69 43	0.0 873.5 75 58	0.8 874.8 79 70	2.8 871.9 67 47
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17	35 22 35 35 35	1.6 874.9 79 71 69	0.4 873.3 78 64 59	0.0 869.7 71 52 47	0.0 869.7 67 44 39	0.0 869.0 65 39 33	0.0 870.0 59 31 26	0.0 871.2 52 27 22	0.0 871.6 54 30 23	0.0 872.2 61 35 7 29	0.0 873.5 69 43 41	0.0 873.5 75 58 59	0.8 874.8 79 70 71	2.8 871.9 67 47 43
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ims): Water Equivalent	35 22 35 35 35	1.6 874.9 79 71 69 79	0.4 873.3 78 64 59 77	0.0 869.7 71 52 47 68	0.0 869.7 67 44 39 61	0.0 869.0 65 39 33 58	0.0 870.0 59 31 26 49	0.0 871.2 52 27 22 42	0.0 871.6 54 30 23 45	0.0 872.2 61 35 29 54	0.0 873.5 69 43 41 66	0.0 873.5 75 58 59 74	0.8 874.8 79 70 71 79	2.8 871.9 67 47 43 63
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal	35 22 35 35 35 35	1.6 874.9 79 71 69 79 1.11	0.4 873.3 78 64 59 77 1.23	0.0 869.7 71 52 47 68 1.91	0.0 869.7 67 44 39 61 2.12	0.0 869.0 65 39 33 58 1.80	0.0 870.0 59 31 26 49 0.93	0.0 871.2 52 27 22 42 0.81	0.0 871.6 54 30 23 45 0.86	0.0 872.2 61 35 ' 29 54 1.28	0.0 873.5 69 43 41 66 1.44	0.0 873.5 75 58 59 74 1.29	0.8 874.8 79 70 71 79 1.40	2.8 871.9 67 47 43 63 16.18
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly	35 22 35 35 35	1.6 874.9 79 71 69 79 1.11 3.23	0.4 873.3 78 64 59 77 1.23 3.22	0.0 869.7 71 52 47 68 1.91 3.97	0.0 869.7 67 44 39 61 2.12 4.90	0.0 869.0 65 39 33 58 1.80 4.76	0.0 870.0 59 31 26 49 0.93 2.93	0.0 871.2 52 27 22 42 0.81 2.57	0.0 871.6 54 30 23 45 0.86 3.66	0.0 872.2 61 35 29 54 1.28 7.04	0.0 873.5 69 43 41 66 1.44 3.91	0.0 873.5 75 58 59 74	0.8 874.8 79 70 71 79	2.8 871.9 67 47 43 63
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year	35 22 35 35 35 35 35 66	1.6 874.9 79 71 69 79 1.11 3.23 1993	0.4 873.3 78 64 59 77 1.23 3.22 1936	0.0 869.7 71 52 47 68 1.91 3.97 1983	0.0 869.7 67 44 39 61 2.12 4.90 1944	0.0 869.0 65 39 33 58 1.80 4.76 1977	0.0 870.0 59 31 26 49 0.93 2.93 1947	0.0 871.2 52 27 22 42 0.81	0.0 871.6 54 30 23 45 0.86	0.0 872.2 61 35 ' 29 54 1.28	0.0 873.5 69 43 41 66 1.44	0.0 873.5 75 58 59 74 1.29 2.96	0.8 874.8 79 70 71 79 1.40 4.37	2.8 871,9 67 47 43 63 16.18 7.04
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly - Year -Minimum Monthly	35 22 35 35 35 35	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45	0.0 869.0 65 39 33 58 1.80 4.76	0.0 870.0 59 31 26 49 0.93 2.93	0.0 871.2 52 27 22 42 0.81 2.57 1982	0.0 871.6 54 30 23 45 0.86 3.66 1968	0.0 872.2 61 35 729 54 1.28 7.04 1982	0.0 873.5 69 43 41 66 1.44 3.91 1981	0.0 873.5 75 58 59 74 1.29 2.96 1994	0.8 874.8 79 70 71 79 1.40 4.37 1983	2.8 871.9 67 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Minimum Monthly -Year	35 22 35 35 35 35 35 66	1.6 874.9 79 71 69 79 1.11 3.23 1993	0.4 873.3 78 64 59 77 1.23 3.22 1936	0.0 869.7 71 52 47 68 1.91 3.97 1983	0.0 869.7 67 44 39 61 2.12 4.90 1944	0.0 869.0 65 39 33 58 1.80 4.76 1977 T	0.0 870.0 59 31 26 49 0.93 2.93 1947 T	0.0 871.2 52 27 22 42 0.81 2.57 1982 T	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly - Year -Minimum Monthly	35 22 35 35 35 35 35 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976	2.8 871.9 67 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952
32° and below 0° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Minimum Monthly -Year -Maximum in 24 hrs	35 22 35 35 35 35 35 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Minimum Monthly -Year -Maximum in 24 hrs -Year	35 22 35 35 35 35 35 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T	0.0 871.6 54 30 23 45 0.86 1968 T 1944 1.96 1932 T	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Minimum Monthly -Year -Maximum in 24 hrs -Year Snow.ice Pellets,Hail -Maximum Monthly -Year	35 22 35 35 35 35 35 35 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 17 Hour 23 PRECIPITATION (ims): Water Equivalent -Normal -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year -Maximum Monthly -Year -Maximum Monthly -Year	35 22 35 35 35 35 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 1972 35.2 1972 18.1	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow.lce Pellets,Hail -Maximum Monthly -Year -Maximum Monthly -Year -Maximum Monthly -Year	35 22 35 35 35 35 35 35 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993
32° and below O' and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 17 Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Minimum Monthly -Year -Maximum in 24 hrs -Year Snow.ice Pellets,Hail -Maximum Monthly -Year -Maximum Monthly -Year Maximum in 24 hrs -Year -Maximum in 24 hrs -Year WIND:	35 22 35 35 35 35 35 66 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 1993	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 1972 35.2 1972 18.1	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4
32° and below O' and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly - Year -Minimum Monthly - Year -Maximum in 24 hrs - Year Snow.lce Pellets,Hail -Maximum Monthly - Year -Maximum Monthly - Year Maximum Monthly - Year - Maximum in 24 hrs - Year	35 22 35 35 35 35 35 35 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T 1993	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1994 0.01 1954 33.3 1994 11.0 1930	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 1972 18.1 1972	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly - Year -Minimum Monthly - Year -Maximum in 24 hrs - Year Snow, Ice Pellets, Hail -Maximum Monthly - Year - Maximum in 24 hrs - Year	35 22 35 35 35 35 35 66 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993- 10.7 1980 7.5	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 1993	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T 1993	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1994 0.01 1954 33.3 1994 11.0 1930	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 1972 18.1 1972	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 23 PRECIPITATION (ims): Water Equivalent -Normal -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year	35 22 35 35 35 35 35 66 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 9.5	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 9.4	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991 9.5	0.0 871.6 54 30 23 45 0.86 1968 T 1944 1.96 1932 T 1993 T 1993 9.7	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984 8.5	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 18.1 1972 7.5	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow,Ice Pellets,Hail -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year Maximum in 24 hrs -Year MiND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile	35 22 35 35 35 35 35 66 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993- 10.7 1980 7.5	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 9.5	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 9.4	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991 9.5	0.0 871.6 54 30 23 45 0.86 1968 T 1944 1.96 1932 T 1993 T 1993 9.7	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SIE W	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 20.4 1984 8.5 SE SE NW	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 35.2 1972 7.5 SSE S	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW
32° and below O' and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow.lce Pellets,Hail -Maximum in 24 hrs -Year Snow.lce Pellets,Hail -Maximum in 24 hrs -Year WIND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile -Direction (!!)	35 22 35 35 35 35 35 66 66 66 66 66 66	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980 7.5 SSE	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2 SI:	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3 SSE	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6 SE	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 6.4 1975 5.5 SE	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 9.4 SSE	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991 9.5 SSE	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T 1993 9.7 SSE	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SE W 61	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 1884 1984 8.5 SE NW 67	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1994 0.01 1994 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW 63	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 18.1 1972 18.1 1972 7.5 SSE S 54	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW 71
32° and below O° and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow,Ice Pellets,Hail -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year Maximum in 24 hrs -Year MiND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile	35 22 35 35 35 35 35 35 35 66 66 66 66 66 66 65 59	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980 7.5 SSE NW	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1936 1.05 1958 27.9 1958 27.9 1958 27.9 1989 8.2 SE SE	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3 SSE NW	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1944 0.45 1944 2.41 1957 26.4 1957 26.4 1974 9.6 SE NW	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1942 7.5 1942 9.5 SE NW	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 V SSE W	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 9.5 SSE NW	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T 1993 9.7 SSE SW	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SIE W	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 20.4 1984 8.5 SE SE NW	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 35.2 1972 7.5 SSE S	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW
32° and below O' and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow.ice Pellets,Hail -Maximum in 24 hrs -Year Snow.ice Pellets,Hail -Maximum in 24 hrs -Year WIND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile -Direction (!!) -Speed (mph)	35 22 35 35 35 35 35 35 35 66 66 66 66 66 66 65 59 59	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980 7.5 SSE NW 59 1980	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2 SE SE 56 1954	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3 SSE NW 71 1954	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6 SE NW 57 1964	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 6.4 1975 9.5 SE NW 57 1953	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 SSE W 63 1963	0.0 871.2 52 27 22 42 0.81 2.57 1963 2.35 1962 T 1991 T 1991 T 1991 9.5 SSE NW 51 1986	0.0 871.6 54 30 23 45 0.86 1968 T 1944 1.96 1932 T 1993 T 1993 T 1993 SSE SW 58 1946	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SI: W 61 1952	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984 8.5 SE SE NW 67 1950	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW 63 1937	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 18.1 1972 35.2 1972 18.1 1972 7.5 SSE SSE S 54 1955	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW 71 MAR 1954
32° and below O [°] and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 17 Hour 23 PRECIPITATION (ims): Water Equivalent -Normal -Maximum Monthly -Year -Maximum Monthly -Year -Maximum in 24 hrs -Year -Maximum ja 24 hrs -Year -Maximum ja 24 hrs -Year -Maximum ja 24 hrs -Year -Maximum in 24 hrs -Year -Maximum ja 24 hrs -Year -Year WIND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile -Direction (!!) -Year Peak (just -Direction (!!)	35 22 35 35 35 35 35 35 35 35 66 66 66 66 66 66 65 59 59 11	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980 7.5 SSE NW 59 1980 N	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2 SE 56 1954 S	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3 SSE NW 71 1954 NW	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6 SIE NW 57 1964 NW	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 6.4 1975 9.5 SE NW 57 1953 SW	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 SSE W 63 1963 SW	0.0 871.2 52 27 22 42 0.81 2.57 1982 T 1963 2.35 1962 T 1991 T 1991 T 1991 9.5 SSE NW 51 1986 NW	0.0 871.6 54 30 23 45 0.86 3.66 1968 T 1944 1.96 1932 T 1993 T 1993 T 1993 SSE SW 58 1946 SW	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SI: W 61 1952 NW	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984 8.5 SE NW 67 1950 NW	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW 63 1937 SW	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 18.1 1972 35.2 1972 18.1 1972 7.5 SSE S S S S S S S	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW 71 MAR 1954 SW
32° and below O' and below AV. STATION PRES.(mb) RELATIVE HUMIDITY (%) Hour 05 Hour 11 (Local Time) Hour 17 Hour 23 PRECIPITATION (ins): Water Equivalent -Normal -Maximum Monthly -Year -Maximum in 24 hrs -Year Snow,lce Pellets,Hail -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year -Maximum in 24 hrs -Year MiND: Mean Speed (mph) Prevailing Direction through 1963 Fastest Mile -Direction (!!) -Speed (mph) -Year Peak (just	35 22 35 35 35 35 35 35 35 66 66 66 66 66 66 65 59 59	1.6 874.9 79 71 69 79 1.11 3.23 1993 0.09 1961 1.36 1953 50.3 1993 10.7 1980 7.5 SSE NW 59 1980	0.4 873.3 78 64 59 77 1.23 3.22 1936 0.12 1946 1.05 1958 27.9 1969 11.9 1989 8.2 SE SE 56 1954	0.0 869.7 71 52 47 68 1.91 3.97 1983 0.10 1956 1.83 1944 41.9 1977 15.4 1944 9.3 SSE NW 71 1954	0.0 869.7 67 44 39 61 2.12 4.90 1944 0.45 1981 2.41 1957 26.4 1974 16.2 1974 9.6 SE NW 57 1964	0.0 869.0 65 39 33 58 1.80 4.76 1977 T 1934 2.03 1942 7.5 1975 6.4 1975 6.4 1975 9.5 SE NW 57 1953	0.0 870.0 59 31 26 49 0.93 2.93 1947 T 1994 1.88 1948 T 1993 T 1993 T 1993 SSE W 63 1963	0.0 871.2 52 27 22 42 0.81 2.57 1963 2.35 1962 T 1991 T 1991 T 1991 9.5 SSE NW 51 1986	0.0 871.6 54 30 23 45 0.86 1968 T 1944 1.96 1932 T 1993 T 1993 T 1993 SSE SW 58 1946	0.0 872.2 61 35 29 54 1.28 7.04 1982 T 1951 2.30 1982 4.0 1971 4.0 1971 9.1 SI: W 61 1952	0.0 873.5 69 43 41 66 1.44 3.91 1981 0.00 1952 1.76 1984 20.4 1984 18.4 1984 8.5 SE SE NW 67 1950	0.0 873.5 75 58 59 74 1.29 2.96 1994 0.01 1939 1.13 1954 33.3 1994 11.0 1930 8.0 SSE NW 63 1937	0.8 874.8 79 70 71 79 1.40 4.37 1983 0.08 1976 1.82 1972 35.2 1972 18.1 1972 35.2 1972 18.1 1972 7.5 SSE SSE S 54 1955	2.8 871.9 67 47 43 63 16.18 7.04 SEP 1982 0.00 OCT 1952 2.41 APR 1957 50.3 JAN 1993 18.4 OCT 1984 8.8 SSE NW 71 MAR 1954





XIII. Table 3a.

CLIMATOGRAPHY OF THE UNITED STATES NO. 84

DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS, AND PRECIPITATION 1961-90

427598 SALT LAKE CITY NWSFO

LATITUDE: 40 47N LONGITUDE: 111 57H

ELEVATION: 4222 FT.

			DEC	CEMBER							FEBR	UARY	FEBRUARY						
DAILY	TEM HAX	PERATU	RE AVG	DEG HDD	DAY CDD	PCP	TEMF MAX	PERATUR	RE AVG	DE G HOD	DAY CDD	PCP	TEM HAX	PERATU	RE AVG	DE G HDD	DAY CDD	PCP	
1 2 3 4 5	43 42 42 41 41 41	26 25 25 25 24	34 34 33 33 33	31 31 32 32 32	0 0 0 0	.04 .04 .04 .05 .05	35 35 35 35 35 35	19 19 19 19 19	27 27 27 27 27 27	38 38 38 38 38	0 0 0 0	.04 .04 .04 .04 .04 .04	40 40 40 40 41	21 22 22 22 22	31 31 31 31 31 32	34 34 34 34 33	0 0 0 0	.04 .04 .04 .04 .04 .04	
6 7 8 9 10	41 40 40 39 39	24 24 23 23 23	32 32 32 31 31	33 33 33 34 34	0 0 0 0	.05 .05 .05 .05 .05	35 35 35 35 35 35	19 18 18 18 19	27 27 27 27 27 27	38 38 38 38 38	0 0 0 0	.04 .04 .04 .04 .04	41 41 42 42 42	23 23 23 23 24	32 32 32 33 33	33 33 32 32 32	000000	.04 .04 .04 .04 .04	
11 12 13 14 15	39 38 38 38 38 37	22 22 22 22 21	31 30 30 30 29	34 35 35 35 36	0 0 0 0	.05 .05 .05 .05 .05	35 36 36 36 36 36	19 19 19 19	27 27 27 27 27 27	38 38 38 38 38	0000000	.04 .04 .03 .03 .03	43 43 43 43 43	24 24 24 24 25	33 33 34 34 34 34	32 32 31 31 31	0000000	.04 .04 .04 .04 .04	
16 17 18 19 20	37 37 37 37 37 36	21 21 21 21 20	29 29 29 29 29 28	36 36 36 37	0 0 0 0	.05 .05 .05 .05 .04	36 36 36 37 37 37	19 19 19 19	27 28 28 28 28	38 37 37 37 37 37	0000000	.03 .03 .03 .03 .03	44 44 45 45	25 25 26 26	34 35 35 35 36	31 30 30 30 29	0 0 0 0	.04 .04 .05 .05 .05	
21 22 23 24 25	36 36 36 36 36 36	20 20 20 20 20	28 28 28 28 28 28	37 37 37 37 37 37	0 0 0 0	.04 .04 .04 .04 .04	37 37 37 37 37 38	19 19 20 20 20	28 28 29 29 29 29	37 37 36 36 36	000000	.03 .03 .03 .03 .03	46 46 46 46 47	26 26 27 27 27	36 36 36 37 37	29 29 28 28	0 0 0 0	.05 .05 .05 .05 .05	
26 27 28 29 30	35 35 35 35 35	20 19 19 19 19	27 27 27 27 27 27	38 38 38 38 38	0 0 0 0	.04 .04 .04 .04 .04	38 38 39 39 39	20 20 21 21	29 29 30 30 30	36 36 35 35 35	0 0 0 0	.04 .04 .04 .04 .04	47 47 48	27 28 28	37 37 38	28 28 27	0 0 0	.05 .05 .05	
31	35	19	27	38	0	. 04	39	21	30	35	0	.04							
MONTHL	Y 37.8	21.6	29.7	1094	0	1.40	36.4	19.3	27.9	1150	0	1.11	43.6	24.6	34.1	865	0	1.23	
WINTER	39.2	21.8	30.5	3109	ò	3.74	NOTES:	DEGRE	E DAYS	BASE T	EMPERA	TURE = 6	5 DEG F;	TEMPER	RATURE	UNITS =	= DEG F	;	
ANNUAL	63.6	40.3	52.0	5765	1047	16.18		PRECI	PITATI	ON UNIT	S = IN	CHES; * :	= LESS T	HAN 1 E	BUT GRE	ATER TH	IAN O		

THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 20TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

Table 3b.CLIMATOGRAPHY OF THE UNITED STATES NO. 84DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS, AND PRECIPITATION 1961-90

427598 SALT LAKE CITY NWSFO

LATITUDE: 40 47N LONGITUDE: 111 57W

ELEVATION: 4222 FT.

.

			M	ARCH					APR	IL.			HAY							
DAILY	TEM	PERATUR	RE AVG	DEG HDD	DAY CDD	PCP	TEMP MAX	ERATUR MIN	AVG	DE G HDD	DAY CDD	PCP	TEN I MAX	IPERATUI M] N	RE AVG	DEG HDD	DAY CDD	PCP		
1 2 3 4 5	48 48 48 49 49	28 28 28 29 29	38 38 38 39 39	27 27 27 26 26	0 0 0 0 0	.05 .05 .05 .05 .05	57 57 57 58 58	35 35 35 35 35 36	46 46 46 46 47	19 19 19 19 19	0 0 0 0	.07 .07 .07 .07 .07	67 67 68 68	41 42 42 42 42 42	54 54 55 55 55	11 11 10 10	0 0 0 0	.07 .07 .07 .07 .07		
6 7 8 9 10	49 50 50 50 50	29 29 30 30 30	39 39 40 40 40	26 25 25 25	0 0 0 0	.06 .06 .06 .06 .06	58 59 59 59 59	36 36 36 36 37	47 47 48 48 48	18 18 18 17 17	0 0 0 0	.07 .07 .07 .07 .07	68 69 69 70	43 43 43 44 44	56 56 57 57	9 9 9 8 8	0 0 0 0	.07 .07 .06 .06 .06		
11 12 13 14 15	51 -51 -52 -52	30 31 31 31 31 31	41 41 41 41 42	24 24 24 24 23	0 0 0 0	.06 .06 .06 .06 .06	60 60 61 61	37 37 37 38 38	48 49 49 49 49	17 17 16 16 16	0 0 0 0	.07 .07 .07 .08 .08	70 71 71 71 71 72	44 44 45 45 45	57 58 58 58 58	8 7 7 7 7	0 0 0 0	.06 .06 .06 .06 .06		
16 17 18 19 20	52 53 53 53 53	31 32 32 32 32 32	42 42 42 43 43	23 23 23 22 22	0 0 0 0	.06 .06 .06 .06 .06	61 62 62 62 63	38 38 38 39 39	50 50 51 51	15 15 15 15	0 0 0 0 0	.07 .07 .07 .07 .07	72 72 73 73 73	45 46 46 46 47	59 59 60 60	7 7 6 6	1 1 1 1	.06 .06 .06 .06 .06		
21 22 23 24 25	54 54 55 55	33 33 33 33 33	43 43 44 44 44	22 22 21 21 21 21	0 0 0 0	.06 .06 .07 .07 .07	63 63 64 64 64	39 39 40 40 40	51 52 52 52	14 14 13 13	0 0 0 0	.07 .07 .07 .07 .07	74 74 74 75 75	47 47 48 48 48	60 61 61 61 62	, 65555	1 1 1 2	.05 .05 .05 .05 .05		
26 27 28 29 30	55 55 56 56 56	34 34 34 34 34	44 45 45 45	21 20 20 20 20	0 0 0 0	.07 .07 .07 .07 .07	65 65 66 66	40 40 41 41 41	53 53 54 54	12 12 12 12 11	000000	.07 .07 .07 .07 .07	75 76 76 76 77	49 49 50 50	62 62 63 63 63	5 5 4 4 4	2222	.05 .05 .05 .05 .04		
31	56	35	46	19	0	.07							77	50	64	3	2	.04		
MONTHLY	52.2	31.4	41.8	719	0	1,91	61,3	37.9	49.7	464 ·	0	2.12	71.	9 45.6	58.8	215	23	1.80		
SPRING	61.9	38.4	50.2	1398	23	5.83	NOTES:	DEGRE	E DAYS	BASE	EMPERA	TURE = 6	5 DEG F	TEMPE	RATURE	UNITS	= DEG F	:		
ANNUAL	63.6	40.3	52.0	5765	1047	16,18						CHES: *								

THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 20TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

CLIMATOGRAPHY OF THE UNITED STATES NO. 84

DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS, AND PRECIPITATION 1961-90

427598 SALT LAKE CITY NWSFO

Table 3c.

LATITUDE: 40 47N LON

LONGITUDE: 111 57H ELEVATION: 4222 FT.

				JUNE					AUGUST									
Daily	TEM MAX	PERATU	RE AVG	DEG HDD	DAY CDD	PCP	TEMF MAX	PERATUR	RE . AVG .	DEG HDD	DAY CDD	РСР	TEM MAX	PERATUF MIN	E AVG	DEG HDD	DAY CDD	PCP
1 2 3 4 5	77 78 78 79 79	50 51 51 51 52	64 64 65 65	3333	223333	.04 .04 .04 .04 .04	89 89 90 90 90	61 61 62 62	75 75 75 76 76	0 0 0 0	10 10 10 11 11	.02 .02 .02 .02 .02 .03	93 93 92 92 92	65 65 65 64 64	79 79 78 78 78	0 0 0 0	14 14 13 13 13	.03 .02 .02 .02 .02
6 7 8 9 10	79 80 80 80 81	52 52 53 53 54	65 66 67 67 67	3 2 2 2	3 4 4 4	.04 .04 .03 .03 .03	91 91 92 92	62 63 63 63	76 77 77 77 77 77	0 0 0 0	11 12 12 12 12	.03 .03 .03 .03 .03	92 92 92 91 91	64 64 64 64	78 78 78 78 78 77	0000000	13 13 13 13 12	.02 .02 .02 .03 .03
11 12 13 14 15	81 81 82 82 83	54 54 55 55	67 68 69 69	22222	4 5 6 6	.03 .03 .03 .03 .03	92 92 93 93 93	63 64 64 64	78 78 78 78 78 78	0 0 0 0	13 13 13 13 13	.03 .03 .03 .03 .03	91 91 90 90 90	63 63 63 63 62	77 77 76 76 76	0 0 0 0	12 12 11 11	.03 .03 .03 .03 .03
16 17 18 19 20	83 83 84 84 84	56 56 57 57	70 70 70 70 71	1 1 1 1	6 6 6 7	.03 .03 .03 .03 .03	93 93 93 93 93 93	64 64 64 65	79 79 79 79 79 79	0 0 0 0	14 14 14 14 14	.03 .03 .03 .03 .03	90 89 89 89 89 89	62 62 61 61	76 76 75 75 75	0 0 0 0	11 11 10 10 10	.03 .03 .03 .03 .03
21 22 23 24 25	85 85 86 86 86	57 58 58 58 59	71 71 72 72 72	1 1 . 1 1	. 7 7 8 8 8	.03 .03 .03 .03 .03	93 93 94 94 93	65 65 65 65	79 79 79 79 79 79	0 0 0 0	14 14 14 14 14	.03 .03 .03 .02 .02	88 88 89 87 87	61 60 60 60	75 74 74 74 73	0 0 0 0 0	10 9 9 9 8	.03 .03 .03 .03 .03
26 27 28 29 30	87 87 87 88 89	59 59 60 60	73 73 73 74 75	1 1 1 0	9 9 10 10	.03 .02 .02 .02 .02	93 93 93 93 93	65 65 65 65	79 79 79 79 79 79	0 0 0 0	14 14 14 14 14	.02 .02 .02 .02 .02	87 86 86 85	59 59 58 58 58	73 73 72 72 72		8 8 7 7 7	.03 .03 .03 .03 .03
31							93	65	79	. 0	14	. 02	85	58 [.]	72	0	7	.03
MONTHLY	82.8	55.4	69.1	51	174	. 93	92.2	63.7	77.9	0	400	.81	89.4	61.8	75.6	0	329	. 86
SUMMER	88.2	60.4	74.3	51	903	2.60	NOTES:	DEGRE	E DAYS	BASE 1	EMPERA	TURE = 6	5 DEG F:	TEMPER	ATURE	UNITS :	= DEG F	:
ANNUAL	63.6	40.3	52.0	5765	1047	16.18		PRECI	PITATIO	ON UNIT	S = IN	CHES; *	= LESS T	HAN 1 E	UT_GRE	ATER TI	IAN O	

THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 28TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS WERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOWEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

Table 3d.CLIMATOGRAPHY OF THE UNITED STATES NO. 84DAILY NORMALS OF TEMPERATURE, HEATING AND COOLING DEGREE DAYS, AND PRECIPITATION 1961-90

427598 SALT LAKE CITY NWSFO

LATITUDE: 40 47N LONGITUDE: 111 57H

7H ELEVATION: 4222 FT.

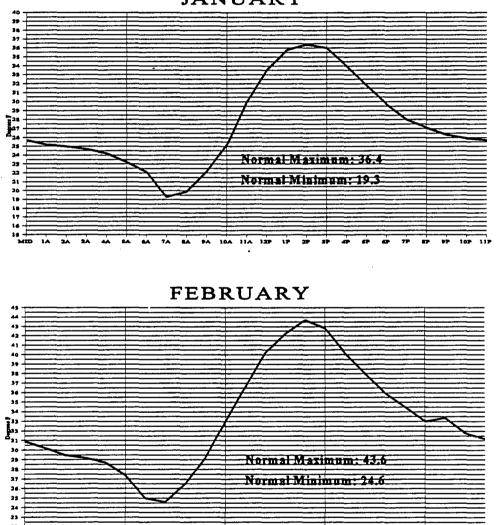
DAILY			SEF	PTEMBER					0¢108	BER		•	NOVEMBER						
	TEMP MAX	PERATU MIN	RE AVG	DE G HDD	DAY CDD	PCP	TEMF MAX	PERATUR	AVG	DE G HDD	DAY CDD	PCP	TEM MAX	PERATU	RE AVG	DE G HDD	DAY CDD	PCP	
1 2 · 3 4 5	85 84 84 84 83	57 56 56 56 55	71 70 70 70 69	1 1 1 2	7 6 6 6	.03 .04 .04 .04 .04	73 73 72 72 71	45 45 44 44 44	59 59 58 58 58	7 7 8 8 8	1	.05 .05 .05 .05 .05	58 58 57 57 56	35 35 35 35 35 34	47 46 46 46 45	18 19 19 19 20	0 0 0 0 0	.05 .05 .05 .04 .04	
6 7 8 9 10	83 83 82 82 81	55 54 54 53	69 69 68 68 67	22223	6 6 5 5 5	.04 .04 .04 .04 .04	71 70 70 69 69	43 43 43 42 42	57 57 56 56 56	99999	1 0 0 0	.05 .05 .05 .05 .05	56 55 55 54 54	34 34 33 33 33	45 44 44 43	20 21 21 21 21 22	000000	.04 .04 .04 .04 .04	
11 12 13 14 15	* 81 81 80 80 79	53 52 52 51 51	67 67 66 65	3 3 3 3 3 3 3 3	554 43	.04 .04 .04 .04 .04	69 68 68 67 67	42 41 41 41 40	55 55 54 54 54	10 10 11 11	0 0 0 0	.05 .05 .05 .05 .05	53 53 52 52 51	32 32 32 31 31	43 42 42 41 41	22 23 23 24 24	000000	.04 .04 .04 .04 .04	
16 17 18 19 20	79 79 78 78 78 78	51 50 50 50	65 64 64 63	3 4 4 5	3333	.04 .04 .04 .04 .04	66 65 65 64	40 40 39 39 39	53 53 52 52 52	12 12 13 13	00000	05 05 05 05	51 50 50 49 48	31 31 30 30 30	41 40 40 39 39	24 25 25 26 26	000000	.04 .04 .04 .04 .04	
21 22 23 24 25	77 77 76 76 75	49 48 48 48 48 47	63 63 62 62 61	55556	3 3 2 2 2	.04 .05 .05 .05 .05	64 63 62 62	39 38 38 38 38 37	51 50 50 50	14 14 15 15	00000	.04 .04 .04 .04 .04	48 47 47 46 46	29 29 29 28 28	39 38 38 37 37	26 27 27 28 28	000000	.04 .04 .04 .04 .05	
26 27 28 29 30	75 75 74 74 74	47 47 47 46 45	61 61 60 60	9 9 9 9	2 2 1 1	.05 .05 .05 .05 .05	61 61 60 60 59	37 37 37 36 36	49 49 48 48 48	16 16 17 17	0 0 0 0	.04 .04 .04 .04 .04	45 45 44 43	27 27 27 26 26	36 36 35 35 35	29 29 30 30	0 0 0 0	: 05 . 05 . 05 . 05 . 05	
31							59	36	47	18	0	.04				,			
MONTHLY	79.2	51.0	65.2	108	114	1.28	66.1	40.2	53.2	373	7	1.44	50.8	30.9	40.8	726	0	1.29	
AUTUHN	65.4	40.7	53.1	1207	121	4.01	NOTES:	DEGRI	E DAYS	BASE	EMPERA	TURE = 6	5 DEG F:	TEMPE	RATURE	UNITS	= DEG F	· •	
ANNUAL	63.6	40.3	52.0	5765	1047	16.18		PRECI	PITATI	DN UNII	(S = IN	CHES; *	= LESS T	HAN 1	BUT GRE	ATER T	HAN O		

THE DAILY VALUES PRESENTED IN THESE TABLES ARE NOT SIMPLE MEANS OF OBSERVED VALUES. THEY ARE INTERPOLATED FROM THE MUCH LESS VARIABLE MONTHLY NORMALS BY USE OF THE NATURAL SPLINE FUNCTION. IN LEAP YEARS USE THE FEBRUARY 20TH VALUES FOR THE 29TH AND ADJUST THE DEGREE DAY MONTHLY TOTALS ACCORDINGLY. DAILY PRECIPITATION NORMALS HERE ALSO COMPUTED USING THE NATURAL SPLINE FUNCTION AND DO NOT EXHIBIT THE TYPICAL DAILY RANDOM PATTERNS. HOHEVER, THEY MAY BE USED TO COMPUTE NORMAL PRECIPITATION OVER TIME INTERVALS.

XIV. <u>Temperature Data</u>

The following graphs, Figures 4a - 4f are smoothed average hourly temperature curves made by using the average hourly temperature that was compiled for a 15-year period and then making slight adjustments necessary to incorporate the average synoptic temperature observations (5 am, 11 am, 5 pm, 11pm MST) for the Climatological period 1961-1990.

Note: The normal maximum and minimum temperatures (1961-1990) are also listed on each graph. This is because maximum and minimum temperature readings usually occur between the times of the hourly observations and do not fall on the average hourly temperature curve. This is especially true of the minimum temperature, because of not only the variability in time of occurrence, but also because of the usually short time period in which the minimum temperature occurs. These factors should be remembered when using the following graphs.



JANUARY



11A 12P

1P 2P

-

-

5.6

MID 1A 2A 3A

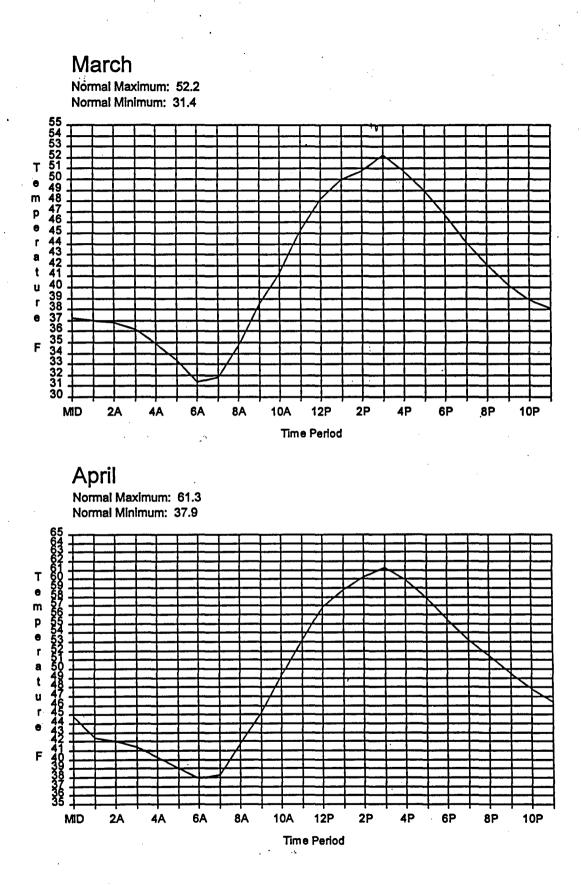


Figure 4b

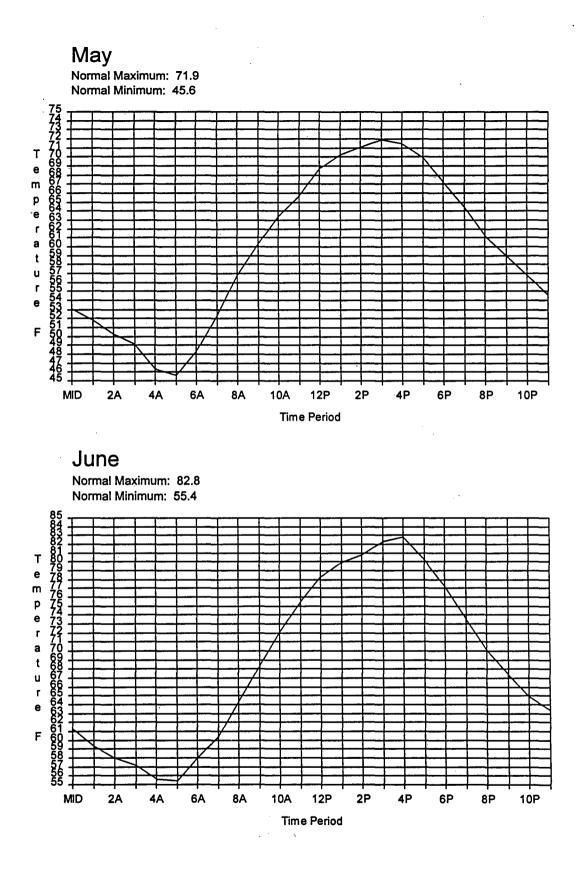
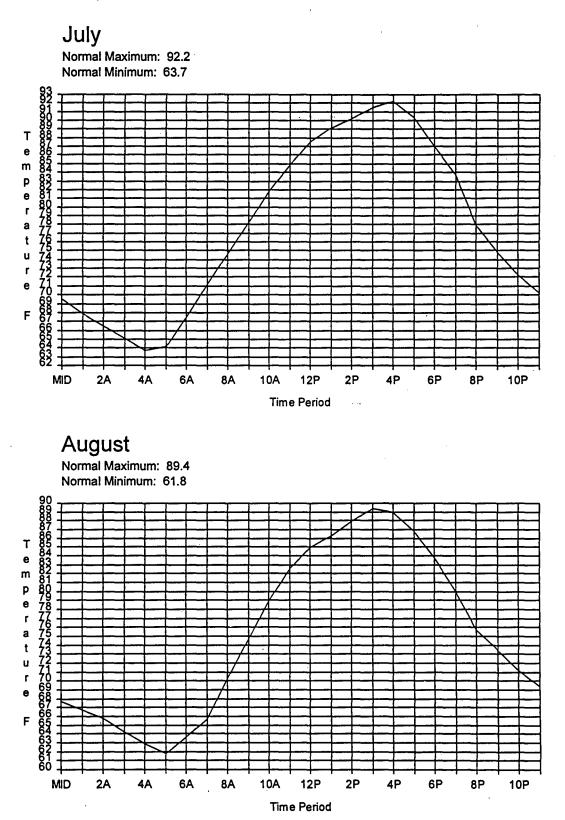


Figure 4c



.

Figure 4d

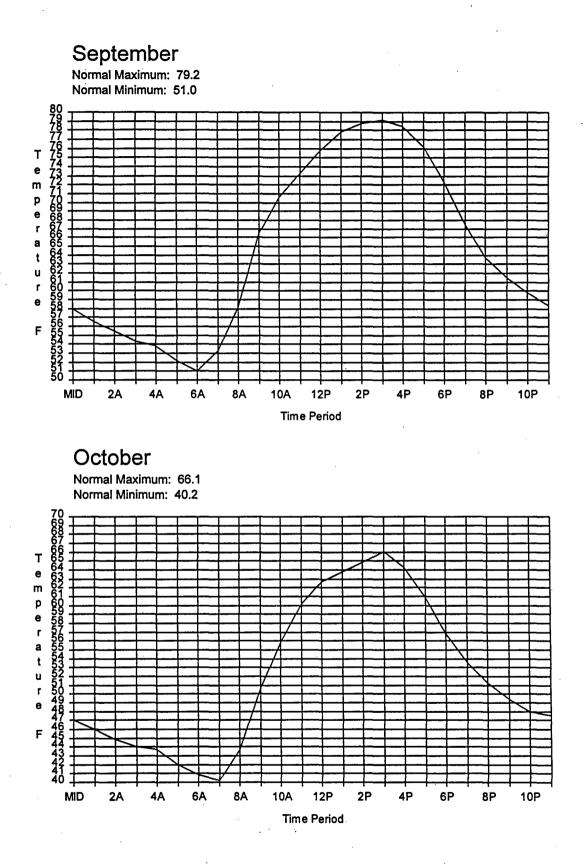
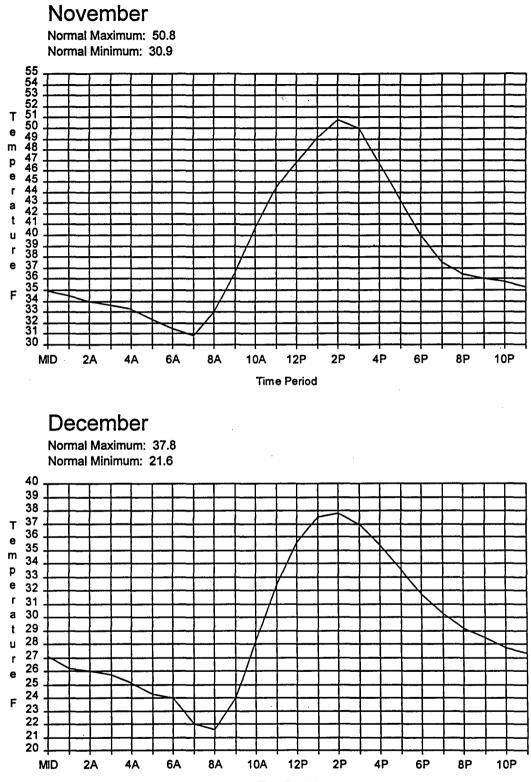


Figure 4e



Time Period

Figure 4f

TABLE 4a

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

D A Y	HIGH MAX	YEAR	LOW MAX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
1	58.3	1997	14.2	1979		47.1	1997		- 4.0	1931
2	58.8	1997	15.5	1942		42.4	1997		- 5.5	1974
3	52.1	1934	13.8	1949		34.7	1996		- 2.7	1932
4	52.9	1956	13.2	1960		37.4	1987		-13.0	1973
5	56.0	1980	14.5	1971		40.1	1978		- 6.2	1973
							•			
6	54.6	1948	10.4	1971		41.8	1965		-13.2	1942
7	58.0	1956	16.0	1937		36.2	1983		-10.8	1973
8	56.6	1945	9.1	1937		39.3	1953		-10.6	1937
9	58.6	1953	7.0	1937		42.4	1995		-11.2	1937
10	56.8	1953	18.1	1937		43.2	1995		- 7.8	1937
11	53.8	1953	10.2	1963		36.0	1971		- 8,5	1963
12	59.7	1953	3.6	1963		40.9	1969		-18.0	1963
13	57.2	1980	7.8	1963		47.0	<u>1980</u>		-15.0	1963
14	59.0	1945+	16.9	1964		38.5	1995		- 9.6	1932
15	57.0	1996	19.6	1947		39.8	1954		- 5.6	1964
ļ		1 1						r		
16	56.0	1974	19.2	1984		37.8	1954		- 5.4	1947
17	54.4	1982	17.2	1949		39.6	1950		- 9.0	1930
18	54.3	1994	15.3	1930		38.9	1950		- 6.1	1984
19	52.6	1971	8.6	1963		38.1	1969		-14.8	1963
20	58.3	1953	6.6	1937	· · · ·	46.0	1969	l .	- 8.0	1937
			. .							
21	56.8	1943	5.9	1937		45.0	1943		-19.9	1937
22	56.3	1970	7.8	1937		43.0	_1970		-14.0	1930
23	60.0	1970	9.2	1937		41.4	1970		-14.0	1962
24	59.1	1970	14.0	1929		38.9	1970		- 9.0	1929
25	58.7	1953	7.9	1949		39.0	1975		-21.7	1949
26	61.5	1982	18.1	1949		35.0	1971		-15.3	1949
27	54.1	1971	15.1	1949		39.2	1983		- 6.5	1949
28	56.6	1938	17.8	1949		39.2	1981		- 7.8	1949
29	54.3	1953	17.8	1949		36.1	1958		-11.6	1949
30	60.7	1971	18.2	1942		40.2	1965		- 5.8	1979
31	61.1	1971	16.7	1951		46.4	1963	·	- 8.1	1979
				·,			r	r		
mnth	61.5	1982/26	3.6	1963/12		47.1	1997/1		-21.7	1949/25

JANUARY

TABLE 4b

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

				FEBRU	1				
D A Y	HIGH MAX	YEAR	LOW MAX	YEAR	HIGH MIN	YEAR		LOW MIN	YEAR
1	60.8	1995	16.8	1985	38.4	1963		- 9.0	1985
2	57.5	1995	19.7	1949	37.8	1978		- 4.1	1949
3	63.6	1953	22.2	1979	38.1	1953		-11.5	1996
4	59.4	1934	20.2	1982	34.8	1958		- 2.3	1996
5	61.5	1963	17.6	1989	 42.9	1978		- 7.5	1989
6	63.0	1934	16.9	1989	 38.0	<u>19</u> 34		-14.1	1989
7	59.9	1995	6.0	1933	 41.0	1994		-12.2_	1933
8	60.4	1945	20.3	1989	 39.1	1957		- 7.4	1936
9	61.0	1951	8.0	1933	 39.8	1938		-30.0	1933
10	67.9	1951	9.5	1933	 47.7	1962		-26.4	1933
			- <u></u>		 				
11	65.2	1961	19.2	1933	 49.9	<u>1961</u>		- 0.6	1929
12	60.5	1970	23.7	1949	 39.9	<u>1970</u>		1.1	1949
_13	60.5	1971	18.2	1949	40.0	<u>1954</u>		- 9.0	<u>1949</u>
_14	58.1	1971	18.8	1949	 38.1	<u>1982</u>		-12.8	1933
15	57.6	1947	26.0	1929	44.9	1986		- 3.5	1933
16	62.3	1947	22.8	1956	 43.0	<u>1986</u>		4.1	1933
17	62.6	1930	25.7	1956	 44.3	<u>1986</u>		- 4.8	1933
18	66.2	1958	21.7	1942	 <u>51.3</u>	<u>1986</u>		- 0.1	1942
19	66.3	1958	23.4	1955	 45.0	<u>1958</u>		3.8	1956
20	64.9	1958	24.7	1955	 42.7	1957		0.4	1955
				1055	 			()	
21	66.3	1982	24.8	<u>1955</u>	 <u>37.7</u>	<u>1941</u>		6.2	1984
22	64.8	1958	29.1	1955	 42.9	1982		5.9	<u>1975</u>
23	60.4	1986	29.1	1960	 44.2	<u>1986</u>		5.6	1960
24	68.1	<u>1981</u>	26.1	1960	 45.9	<u>1986</u>		4.9	1960
25	68.2	1950	26.8	1964	 45.0	<u>1981</u>	L	2.0	1933
26	67.0	1950	22.6	1962	40.2	1976		3.0	1962
27	67.2	1980	13.5	1962	 44.1	<u>1940</u>		- 2.2	1962
28	68.5	1972	25.0	1960	 45.0	1940		1.0	1962
_29	65.9	1992	24.0	1960	 40.8	<u>1980</u>		- 4.2	1960
				[[
mnth	68.5	1972/28	6.0	1933/7	51.3	1986/18		-30.0	1933/9

FEBRUARY

TABLE 4c

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

M	A	R	CH	
---	---	---	----	--

· · · · · · · · · · · · · · · · · · ·		7			7	,	<u>т</u>	 	1
D A Y	HIGH MAX	YEAR	LOW MAX	YEAR		HIGH MIN	YEAR	LOW MIN	YEAR
1	66.7	1967	29.0	1971		47.4	1983	12.9	1960
2	63.9	1992	30,0	1953		48.0	1983	2.9	1971
3	67.1	1994	26.5	1966		40.2	1980	5.3	1952
4	68.7	1987	26.2	1966		47.0	1991	1.8	1966
5	67.5	1972	30.9	1955		46.0	1987	5.2	1966
									·
6	68.5	1972	30.5	1964		43,5	1987	10.0	1964
7	65.8	1986	31.6	1964		43.0	1975	4.9	1964
8	67.7	1972	32.6	1964		46.2	1954	6.9	1964
9	76.4	1989	33.4	1964		46.2	1995	20.0	1930
10	74.5	1989	29.2	1962		52.9	1989	13.2	1964
11	71.0	1997	29.0	1962		46.0	1983	13.6	1948
12	68.2	1934	29.8	1962		45.2	1967	12.4	1990
13	70.0	1934	28.6	1962		46.0	1983	9.1	1962
14	70.0	1935	31.3	1962		42.4	1992+	10.5	1964
15	71.8	1994	32.0	1943		46.1	1992	14.9	1962
16	69.0	1967	36.4	1963		48.1	1994	10.1	1963
17	67.6	1972+	33.8	1951		48.2	1974	18.2	1942
18	72.0	1972	30.7	1965		43.6	1993	11.6	1965
19	71.4	1997	34.0	1943		48.0	1975	10.0	1965
20	74.4	1997	30.6	1955		46.0	1934	17.0	1965
II									
21	72.6	1972	32.6	1952		46.2	1988	14.1	1948
22	74.5	1972	31.7	1952		47.1	1978	16.9	1966
23	73.4	1961	31.1	1952		47.1	1967	18.9	1952
24.	77.9	1956	37.5	1980		48.1	1985	18.0	1965
25	75.1	1956	36.2	1942		50.0	1993	14.4	1965
26	77.7	1960	31.6	1975		49.4	1993	18.8	1955
27	73.0	1953	27.2	1975		51.1	1960	13.7	1931
28	76.7	1943	28.0	1975		50.0	1934	18.2	1956
29	75.0	1968	35.2	1977		56.0	1943	17.0	1975
30	73.0	1978+	38.8	1967		50.0	1978	13.0	1977
31	<u>7</u> 4.6	1966	40.9	1938		51.2	1956	19.0	1970
								 	· .
mnth	<u>77.9</u>	1956/24	26.2	1966/4		56.0	1943/29	1.8	1966/4

TABLE 4d

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

APRIL

D A Y	HIGH MAX	YEAR	LOW MAX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
1	73.9	1996	34.9	1936		49.8	1968		19.4	1936
2	77.1	1943	36.8	1945		45.8	<u>1961</u>		14.2	1936
3	76.0	1961	35.4	1955		48.4	1985		18.4	1945
4	75.7	1959	 38.9	1955		49.1	<u>1992</u>	<u> </u>	20.2	1955
5	82.2	1959	38.0	1936		52.0	1954		15.3	1955
				5						
6	81.2	1930	35.4	1929		53.0	<u>1991</u>		24.0	1956
7	83.7	1930	37.3	1929		50.4	1930		21.0	1929
8	80.8	1977	 41.0	1933		58.4	<u>1930</u>		25.0	1973
9	83.2	1996	37.0	1933+		52.3	1966		22.0	1933
_ 10	75.6	1971	36.5	1974		51.4	1942		19.0	1933
11	80.0	1934	37.9	1991		<u>52.4</u>	<u>1985</u>		21.2	1929
12	81.3	1936	38.9	1945		61.8	1992		22.7_	1997
13	80.3	1988	43.8	1968		52.0	<u>1934</u>		24.2	1945
14	81.0	1962	44.3	1945		<u>54.0</u>	<u>1935</u>		25.0	1933
15	84.7	1985	46.9	1952		55.0	1979	·	24.8	1945
_16	84.2	1936	 42.5	1976		61.2	<u>1985</u>		28.0	1970+
17	85.1	1987	 39.9	1941		59.0	1985		24.0	1960
18	84.3	1962	 40.0	1972		59.1	1946		27.0	1941
_ 19_	85.4	1962	 41.0	1933		58.0	1994		24.1	1982
_20	85.1	1989	 39.8	1968		<u>53.4</u>	<u>1980</u>		24.3	1982
L			 							
21	84.9	1994	 36.2	1963		64.1	<u>1989</u>		22.4	1982
_22	83.0	1934	 44.2	1963		55.0	<u>1980</u>		25.9	1963
_23	85.0	1934	42.8	1960		<u>56.0</u>	<u>1934</u>		26.8	1968
_24	84.5	1977	 <u>43.6</u>	1958		58.0	1930		27.4	1950
25	84.4	1946	 <u>43.7</u>	1984		58.0	1959		26.1	1950
26	83.6	1992	 40.8	1986		55.3	<u>1981</u>		27.0	1975
_27	84.5	1987	35.9	1970		57.3	1992		30.0	1966+
28	84.6	1987	 41.9	1937		56.0	1987		28.4	1966
29	86.0	1992	 43.6	1970		59.2	1987		29.2	1990
30	83.9	1959	39.6	1967		56.0	1934		28.0	1962
							1000			
mnth	86.0	1992/29	 34.9	1936/1]	64.1	1989/21		14.2	1936/2

TABLE 4e

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

MAY

Contract of the local division of the local										
D A Y	HIGH MAX	YEAR	LOW MÁX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
1	86.9	1981	45.2	1954		56.2	1943		26.9	1946
2	91.3	1947	38.7	1964		60.0	1985		28.1	1967
3	91.1	1947	43.5	1950		64.0	1985		27.6	1964
4	87.7	1947	48.8	1950		58.7	1962		31.0	1964
5	87.9	1947	44.5	1978		59.0	1979		28.0	1961
6	90.7	1947	45.5	1965		56.5	1980		25.4	1965
7	89.0	1947+	45.4	1975		61.0	1947		27.2	1965
8	87.2	1962+	45.6	1930		59.1	1989+		30.2	1931
9	86.5	1954	46.0	1933		62.4	1962		28.2	1930
10	91.6	1961	47.4	1983		58.9	1954		31.0	1948
					•					
11	91.2	1960	44.2	1983		54.7	1994+		32.0	1933
12	91.9	1960	45.2	1942		62.6	1960		32.4	1967
13	91.7	1959	50.1	1942		61.6	1993		30.0	1967
14	89.1	1936	52.6	1968		66.0	1984		33.1	1967
15	88.0	1934	50.0	1955		62.3	1996		32.4	1955
								,		
16	89.7	1948	47.6	1977		64.4	1987		30.0	<u> 1955</u>
17	89.2	1948	48.0	1977		60.0	1948		32.7	1943
18	92.3	1932	44.6	1977		61.5	1992		33.0	1971+
19	92.9	1958	53.2	1945		59.4	1993+		31.0	1960
20	92.4	1958	43.4	1975	L	62.9	1954		33.3	1959
21	86.2	1958	50.8	1962		62.0	1958		34.5	1959
22	89.0	1989	53.8	1986		59.3	1963		33.3	1960
23	91.0	1967	53.0	1995		62.1	1934		30.2	1966
24	90.0	1988	55.5	1939		61.8	1973 +		34.8	1930
25	91.5	1961	54.8	1980		63.0	1993		31.6	1975
		· · · · · · · · · · · · · · · · · · ·			·····	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		·	
26	92.0	1958	47.9	1929		65.7	1988		34.0	1975+
27	<u>92.7</u>	1951	56.7	1954		67.0	1985+		32.8	1929
28	92.1	1958	55.0	1935		63.4	1993+		32.4	1954
29	90.9	1939	55.2	1964		62.4	1943		37.1	1946
30	<u>92.6</u>	1984	52.0	1937		62.3	1984		34.0	1979
31	<u>94.8</u>	1997	54.1	1955		61.8	1993		35.9	1978
			·····							
mnth	<u>94.8</u>	1997 /31	38.7	1964/2		67.0	1985/27		25.4	1965/6

+ Also occurred in earlier years.

28

TABLE 4f

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

JUNE

D A Y	HIGH MAX	YEAR	LOW MAX	YEAR	HIGH MIN	YEAR		LOW MIN	YEAR
1	91.8	1977	50.8	1955	59.9	1940		38.4_	1969
2	89.2	1968	51.9	1943	61.7	1986		34.8	1954
3	93.7	1994	55.6	1955	63.3	1968		34.9	1929
4	96.3	1988	52.3	1943	66.2	1988		39.4	1962
5	93.3	1946	60.0	1945	67.7	1987		35.3	1937
6	94.7	1959	51.8	1932	67.0	1950		36.9	1954
7	100.2	1985	52.2	1993	64.2	1985		34.8	1962+
8	98.0	1996	55.9	1941	65.6	1996		38.5	1979
9	101.0	1973	56.8	1941	65.0	1956		36.0	1950
10	95.0	1961+	58.6	1970	65.4	1946		40.2	1947
							_		
11	96.1	1961	48.7	1947	66.0	1992		40.0	1929
12	97.5	1979	62.8	1928_	67.5	1994		40.9	1970
13	98.1	1979	62.0	1957	70.0	1959		39.7	1993
14	100.5	1974	60,1	1945	68.8	1959		39.3	1981
15	101.5	1974	61.3	1957	70.8	1974		38.8	1945
16	<u>99.7</u>	1940	62.3	1957	71.9	1974		39.8	1939
17	103.3	1940	50.0	1939	72.0	1933		37.4	1939
18	101.8	1940	53.5	1975	70.3	1986		36.8	1928_
19	101.0	1940	61.5	1975	71.9	1994		40.3	1938
20	101.1	1936	66.2	1975	72,7	1940		41.0	1929
21	103.5	1961	58.0	1948	 67.9	1988		37.5	1960
22	101.0	1961	<u>59.8</u>	1948	73.6	1937		42.0	1960_
23	100.2	1990	67.3	1993	 70.9	1990		44.4	1964
24	102.0	1988	63.8	1952	 71.8	1959		43.3	1993
25	101.7	1994	62.4	1969	75.3	1988		39.8	1953+
		<u></u>			 				
26	102.5	1970	62.9	1942	75.4	1981		42.1	1978
27	101.9	1958	60.6	1942	75.3	1981		43.4	1942
28	102.4	1961	65.0	1959	 74.3	1986		40.3	1945
29	103.5	1979	63.9	1959	72.0	1935]	42.2	1968
30	103.4	1990	72.7	1992	74.8	1990		39.9	1968
	103.5	1979/29	48.7	1947/11	75.4	1981/26		34.8	1962/7.

TABLE 4gDAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

TT	TT	v
JU	JL	. I .

D A Y	HIGH MAX	YEAR	LOW MAX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
1	101.0	1950	62.1	1992		77.4	1990		40.0	1968
2	102.6	1996	72.9	1938		70.3	1948		43.3	1968
3	100.9	1985	70.4	1993		77.6	1996		48.9	1966
4	101.8	1936	72.1	1993		71.4	1996		46.7	1938
5	103.6	1973	65.2	1982		72.0	1992		43.8	1932
6	101.7	1973	72.7	1994		74.0	1981+		44.2	1938
7	101.5	1976	75.8	1955		73.4	1985		41.2	1928
8	100.5	1976	76.4	1937		74.0	1963		45.1	1955
9	102.1	1994+	77.6	1946		72.7	1989		48.1	1959
10	103.5	1973	70.6	1983		<u>79.0</u>	1956		50.2	1946
11	102.5	1976	71.8	1936		76.0	1981		48.2	1983
12	103.0	1934	72.5	1997		73.5	1980		49.0	1951
13	102.3	1939	73.6	1962		69.3	1964		46.8	1943
14	102.9	1939	78.3	1962		76.0	1931		49.0	1932
15	102.7	1960	75.1	1983		74.7	1991		52.4	1962
						<u></u>				
16	103.2	1960	77.1	1993		<u>75.0</u>	<u>1968</u>		52.0	1956
17	103.1	1960		1986		74.2	1997		52.8	1943
18	103.5	1960	74.8	1987		72.5	1977		54.2	1939
19	104.1	1960	70.0	1973		71.3	<u>1984</u>		52.5	1958
20	104.6	1960		1951		72.8	1960		50.2	1932
Ĺ	·····									
21	105.7	1931	80.0	1972+		75.0	1966		49.6	1932
	103.1	1931	73.5	1973		74.5	1982		47.1	1954_
_23	103.2	1931	62.1	1993		72.4	1989		46.9	1954
_24	105.4	1931	73.5	1993		77.2	1953		50.2	1954
_25	103.0	1933	69.7	1941		77.4	1953		51.4	1964
		r	······	· · · · · · · · · · · · · · · · · · ·				· · · · ·		
26	106.6	1960	73.1	1993		74.0	1984		53.5	1993
_27	<u>105.1</u>	1994	81.3	1993	<u>`</u>	75.5	1996	<u> </u>	47.5	1963
_ 28	106.4	1934	71.0	1948	L	76.6	1931		51.0	1929
_29	105.9	1995	76.6	1950		75.4	<u>1976</u>		45.2	1948
30	<u>103.0</u>	1934	77.0	1931		74.4	<u>1935</u>		48.3	1950
31	102.3	1990	77.6	1975		76.8	1989		45.0	1950
		rr	·····	1				·		
mnth	106.6	1960/26	62.1	1993/23		79.0	1956 /10		40.0	1968/1

TABLE 4h

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

						001					
D A Y	HIGH MAX	YEAR		LOW MAX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
	101.6	1979		78.5	1965		74.4	1989		49.1	1932
2	101.0	1979		78.7	1903		72.2	1989	<u> </u>	45.0	1932
3	102.9	1992		77.4	1928		73.1	1992		47.0	1928
4	101.9	1994		75.9	1951		70.4	1992		47.7	1944
5	105.2	1994		78.3	1962		73.9	1994		50.4	1928
	105.2	1724 1		78.5	1902		13.3				1920
6	101.4	1995	T	74.3	1939		75.1	1975	[48.3	1950
7	101.4	1995		79.2	1939		76.3	1995		49.0	1928
8	102.6	1990		77.3	1995		73.4	<u>1995</u> 1983 +		48.8	1926
9	102.0	1920		<u>77.4</u>	1985+		72.7	1990		50.6	1931
10	101.0	1935		75.8	1947		72.1	1983		50.2	1939
		1255	i	<u></u>				1705	L		
11	102.0	1972	T	72.1	1985		73.7	1991		47.8	1932
12	101.9	1940		74.1	1930		71.5	1980		48.9	1935
13	102.1	1937		74.0	1930		70.4	1994		50.0	1969
14	99.9	1960		68.4	1978		71.5	1992		47.1	1938
15	101.1	1962		68.4	1968		72.2	1943		49.0	1938
									•		
16	100.2	1994		72.0	1960		73.4	1995		47.5	1976
17	100.0	1934		69.0	1978		73.2	1986		47.9	1968
18	98.7	1932		69.6	1968		72.0	1934		44.9	1954
19	99.2	1961		65.7	1980		71.8	1932		47.0	1978
20	102.8	1960		71.4	1964		73.6	1961		40.0	1928
21	102.3	1960		70.0	1968+		74.3	1960		43.0	1964
_22	98.9	1991		59.7	1968		72.7	<u>1937</u>		45.0	1933
23	98.7	1967		69.6	1968		71.4	1997		44.0	1933
_24	98.9	1967		63.4	1989		70.0	1955		39.7	1928
25	99.6	1985		71.0	1933]	69.6	1981		43.7	1928
										···=	
26	100.5	1985	Ĺ	69.6	1977		73,9	1997		41.8	1992
27	98.7	1937		69.0	1977		71.1	1996		42.0	1964
28	96.6	1961+		74.6	1977		71.0	1997		42.2	1964
29	99.4	1948		68.2	1964		68.4	<u>1981</u>		36.8	1964
_30	100.0	1954		61.2	1932		68.3	1983		38.3	1964
31	97.5	1950		69.3	1932		67.4	1997		36.6	1965
					— <u>— </u>						
mnth	106.1	1994/4		59.7	1968/22		76.3	1995/7		36.6	1965/31

AUGUST



TABLE 4i

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

					_					
D A Y	HIGH MAX	YEAR	LOW MAX	YEAR		HIGH MIN	YEAR		LOW MIN	YEAR
1	98.4	1995	57.3	1973		71.0	1929		43.0	1932
2	97.6	1947	63.8	1973		69.8	1990		40.9	1964
3	96.0	1950	65.2	1941		67.1	1990+		38.6	1961
4	<u>98.</u> 0	1950	68.9	1929		72.8	1996		41.1	1964
5	<u>96.0</u>	1967	54.9	1970		73.1	1978		40.6	1956
6	<u>96.7</u>	1979	56.1	1970		70.0	1933		43.7	1943
7	<u>98.6</u>	1979	59.8	1929		67.2	1986		44.3	1948
8	100.0	1979	57.2	1973		71.1	1994		37.5	1962
9	94.6	1990	66.6	1928		72.0	1994		33.8	1962
10	93.8	1958	64.2	1986		65.6	1972		38.4	1932
11	97.1	1990	58.8	1950		69.9	1959		38.2	1947
12	99.0	1990	62.6	1988		69.0	1984		36.0	1928
13	93.3	1948	55.6	1988		66.1	1968		32.2	1928
14	96.1	1990	60.9	1982		63.1	1955		35.0	1928
15	93.2	1995	62.0	1933		71.9	1990		33.3	1936
16	9 <u>4.3</u>	1995	54.9	1965		64.3	1990		33.4	1936
17	93.2	1937	43.4	1965		62.2	1943		31.2	1965
18	94.0	1937	51.5	1978		64.0	1930		27.0	1965
19	96.7	1956	54.5	1978		65.0	1984		31.3	1964
20	9 <u>1.0</u>	1933	57.9	1941		62.3	1929		29.7	1965
		_								
21	89.5	1944	52.2	1961		58.2	1929		34.9	1968
22	91.1	1954	57.3	1961		62.0	1934		32.4	1968
_23	92.1	1992	54.8	1941		62.6	1992		31.3	1968
24	90.4	1992	41.0	1934		60.9	1966		32.1	1961
25	89.5	1979	47.0	1934		64.3	1949		29.6	1970
26	88.7	1956	51.0	1934		63.9	1989		31.1	1970
27	90.5	1969	52.9	1982		58.7	1957		31.0	1934
28	91.3	1994	54.0	1982+		64.4	1981		30.7	1936
29	90.6	1969+	46.7	1982		62.2	1947		32.6	1986+
30	89.8	1957	49.3	1950		58.4	1938	•	29.5	1954
mnth	100.0	1979/8	41.0	1934/24		73.1	1978/5		27.0	1965/18

SEPTEMBER

TABLE 4jDAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

OCT	OBER
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1						_				
D A Ý	HIGH MAX	YEAR		LOW MAX	YEAR		HIGH MIN	YEAR	LOW MIN	YEAR
1	88.0	1992		45.1	1971		65.5	1953	31.1_	1950
2	87.5	1979		51.7	1971		58.5	1929	31.1	1959
3	88.6	1963		53.0	1994		58.0	1948	31.0	1959
4	85.8	1963		53.4	. 1951		56.2	1963	33.0	1928
5	86.5	1993		44.7	1941		61.8	1990	29.5_	1932
6	85.5	1975		46.3	1946		61.0	1975	25.7	1955
7	87.5	1979		49.6	1949		57.8	1960	30.9	1955
8	84.6	1979+		44.9	1949		57.1	1954	29.4	1959
9	84.4	1963		41.2	1960		57.0	1983	28.9	1968
10	87.6	1996		49.3	1949		63.3	1962	28.0	1932
11	87.3	1996		49.7	<u>1947</u>		58.9	1996	26.8	1946
12	85.6	1996		44.5	1997		58.3	1968	28.2	1986
13	85.0	1996		47.6	1966		63.4	1962	 30.8	1997
14	81.1	1958		45.1	1969		56.0	1938	27.8	1954
15	83.4	1958		42.8	1994		54.7	1946	26.3	1966
16	84.9	1991		42.0	1980		53.2	1972	26.8	1930
17	82.6	1958		43.2	1938		54.0	1943	22.8	1964
18	84.2	1958		40.8	1984+		49.6	1958	23.4	1964
19	81.8	1958		43.1	1949		51.0	1955+	25.8	1976
20	81.0	1950		40.8	1949		55.2	1961	24.3	1932
21	78.6	1967		42.3	1949		51.6	1989	 24.8	1996
_22	77.0	1973		45.3	1935		53.1	1991+	 23.9	1966
23	77.1	1952		42.3	1975		51.4	1940	23.8	1935
24	77.9	1959		39.0	1956		<u>52.6</u>	1939	20.6	1935
25	78.2	1979		41.2	1954		54.0	1940	18.8	1932
		Y							 	
26	79.5	<u>1977</u>		41.7	1996		52.8	1950	27.9	1970
27	76.3	1977		43.0	1991		51.9	1945	24.2	1970
28	78.5	1990		32.6			50.3	1992	 23.0	1970_
29	79.2	1964	$ \downarrow$	29.5	1971		60.4	1950	18.1	1971
30	77.3	1950		34.9	1971		65.9	1950	16.1	1971
31	73.0	1988		35.1	1971		53.2	1990	17.5	1935
		T							 	
mnth	88.6	1963/3		29.5	1971/29		65.9	1950/30	16.1	1971/30

+ Also occurred in earlier years.

.

TABLE 4k

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

D A Y	HIGH MAX	YEAR	LOW MAX	YEAR	HIGH MIN	YEAR		LOW MIN	YEAR
1	71.8	1988+	36.9	1971	51.4	1987		15.8	1971+
2	72.7	1965	33.4	1936	50.1	1988		13.8	1956
3	70.7	1965	30.0	1936	48.5	1988		5.5	1936
4	70.2	1983	33.0	1935	54.4	1977		15.0	1936
5	71.2	1945	37.0	1935	47.4	1945		18.0	1935
6	74.2	1931	32.1	1947	52.4	1966		15.6	1947
7	73.8	1931	35.5	1945	47.4	1980		19.0	1961
8	69.5	1973	34.0	1945	43.2	1974		16.7	1948
9	73.7	1958	31.6	1950	43.0	1949		16.9	1948
10	68.8	1973	34.3	1978	45.0	1944		13.4	1950
11	72.4	1954	35.2	1938	47.0	1954		17.0	1935
12	74.7	1967	31.2	1938	47.7	1953		14.8	1929
13	70.0	1953	34.0	1964	50.2	1981		14.2	1959
14	_70.8	1967	33.0	1964	51.2	1953		3.2	1955
15	70.0	1941	14.8	1955	45.9	1966		-10.0	1955
		,			 				
16	67.5	1981	16.0	1955	49.1	<u>19</u> 41		-13.6	1955
17	67.8	1981	27.0	1958	46.4	1 <u>9</u> 50		9.6	1958
18	65.9	1995	29.9	1958	47.0	1942		5.8	1958
19	67,9	1996	27.1	1985	 53.7	1996		3.0	1930
20	64.6	1966	25.5	1977	44.2	1966		2.0	1930
							_		
21	65.2	1996	24.9	1931	45.0	<u>19</u> 74		5.2	1931
22	63.0	1933	26.8	1931	41.0	1981		3.0	1930
23	60.8	1988	25.1	1931	43.1	1965		5.4	1940
24	65.4	1995	22.4	1931	46.9	1960		0.0	1931
25	69.4	1995	26.8	1992	46.0	1960		0.8	1931
]
26	67.5	1949	26.8	1952	45.8	1960		2.1	1952
27	67.2	1949	25.0	1976	39.3	1955		6.0	1952
28	65.7	1932	26.8	1930	39.0	1970		7.0	1976
29	63.3	1932	27.8	1975	41.0	<u>19</u> 45		5.2	1931
30	68.1	1995	25.8	1930	42.5	1995		6.1	1931
		_							
mnth	74.7	1967/12	14.8	1955/15	54.4	1977/4		-13.6	1955/16

NOVEMBER

DAILY MAXIMUM AND MINIMUM TEMPERATURE EXTREMES, 1928-1997

					DECE	VIDE			 	
D A Y	HIGH MAX	YEAR		LOW MAX	YEAR		HIGH MIN	YEAR	LOW MIN	YEAR
_1	68.5	1995		23.8	1930		39.0	1947	6.3	1991+
2	60.8	1939		23.5	1930		40.4	1977+	6.0	1934
3	59.0	1939		27.3	1963		49.0	1980	4.9	1931
4	58.4	<u>198</u> 0		25.0	1992		47.0	1946	2.9	1992
5	59.9	1946	-	16.9	1972		42.2	1946	- 2.8	1972
6	57.7	1987		23.4	1978		41.0	1946	8.5	1931
7	59.6	1939		19.0	1978		38.0	1983	0.8	1951
8	62.2	<u>1939</u>		18.2	1978		40.7	1950	- 3.4	1956
9	62.2	1939		12.7	1972_		48.3	<u>1939</u>	 -11.0	1972
10	66.1	1939		7.8	1972		51.0	1929	-12.8	1972
11	_61.5	1993		11.5			45.0	1929	-12.0	1932
12	61.0	1995		7.9	1932		48.3	1929	-20.0	1932
13	59.6	1929		10.9	1932		45.0	1929	-21.4	1932
14	63.5	1929		15.0	1932		46.3	1977	-19.0	1932
15	58.8	1946		11.1	1972		39.4	1946	-14.7	1972
ļ,									 	
16	57.8	1939		18.2	1932		40.9	1957	-13.8	1932
17	58.0	1939		18.7	1932		37.0	<u>1939</u>	 - 4.2	1931
18	52.7	1960		23.4	1964		35.7	1955	 1.0	1932
19	53.8	1955		24.8	1992		46.0	1955	 - 1.0	1931
20	60.6	1981		22.2	1949		40.4	1941	- 6.6	1990
21	66.5	1969		11.4	1990]	44.2	1964	 - 9.4	1990
22	_57.4	1964		2.0	1990		49.1	1955	 - 9.8	1990
23	58.7	1933		<u>9.1</u>	1990	$ \rightarrow $	51.9	1955	-10.8	1990
24	57.0	1955		11.4	1990		41.0	1971	 - 6.7	1990
_25	59.2	1955		18.1	1990		46.0	_1955	- 6.7	1930
		r			I	<u> </u>			 	
26	60.0	1933		19.0	1970		43.0	1955	 - 6.2	1930
27	56.8	1933		17.8	1988		41.0	1934	 4.3	1930
28	57.2	1933		24.2	1939		40.3	1945	 - 9.0	1932
29	57.6	1933		20.2	1988		43.2	1996	 - 8.0	1932
30	55.6	1996		13.2	1990		42.3	1933	 - 8.6	1990
31	61.7	_1996		19.8	1978		46.9	1996	- 7.3	1990
mnth	68.5	1995/1		2.0	1990/22		51.9	1955/23	-21.4	1932/13

DECEMBER

Month	Normal Monthly Maximum	Highes	st Daily Max	<u>timum</u>	Lowe	Lowest Daily Maximum		
January	36.4	61.5	26	1982	3.6	12	1963	
February	43.6	68.5	28	1972	6.0	7	1933	
March	52.2	77.9	24	1956	26.2	4	1933	
April	61.3	86.0	29	1992	34.9	1	1936	
May	71.9	92.9	19	1958	38.7	2	1964	
June	82.8	103.5	29	1979+	48.7	11	1947	
July	92.2	106.6	26	1960	62.1	23	1993	
August	89.4	106.1	4	1994	59.7	22	1968	
September	79.2	100.0	8	1979	41.0	24	1934	

TABLE 5a

+ Also occurred on June 21, 1961.

66.1

50.8

37.8

63.6

October

November

December

Annual

TABLE 5b

3

12

1

July 26

88.6

74.7

68.5

106.6

1963

1967

1995

1960

29.5

14.8

2.0

2.0

29

15

22

Dec 22

1971

1955

1990

1990

NORMAL MONTHLY MINIMUM TEMPERATURE, PLUS HIGHEST AND LOWEST DAILY EXTREMES FOR EACH MONTH WITH DAY AND YEAR OF OCCURRENCE 1928 - 1997

Month	Normal Monthly Minimum	Lowe	est Daily Mir	<u>iimum</u>	Highest Daily Minimum		<u>nimum</u>
January	19.3	-21.7	25	1949	47.0	13	1980
February	24.6	-30.0	9	1933	51.3	18	1986
March	31.4	1.8	4	1966	56.0	29	1943
April	37.9	14.2	2	1936	64.1	21	1989
May	45.6	25.4	6	1965	68.7	23	1934
June	55.4	34.8	7	1962+	75.4	26	198 1
July	63.7	40.0	1	1968	79.0	10	1956
August	61.8	36.6	31	1965	76.3	7	1995
September	51.0	27.0	18	1965	73.1	5	1978
October	40.2	16.1	30	1971	65.9	30	1950
November	30.9	-13.6	16	1955	54.4	4	1977
December	21.6	-21.4	13	1932	51.9	23	1955
Annual	40.3	-30.0	Feb 9	1933	79.0	July 10	1956

Climatological normals based on (1961-1990) period.

TABLE 6a NORMAL MONTHLY MAXIMUM TEMPERATURE, PLUS HIGHEST AND LOWEST MONTHLY AVERAGES WITH YEAR OF OCCURRENCE

Month	Normal Monthly Maximum	Highest Average Maximum	Year	Lowest Average Maximum	Year
January	36	48.1	1953	21.7	1949
February	43.6	54.1	1995	29.1	1933
March	52.2	62.0	1934	40.5	1952
April	61.3	70.7	1934	53.4	1975
May	71.9	82.4	1934	63.8	1933
June	82.8	92.2	1961	73.0	1945
July	92.2	98.2	1960	83.6	1993
August	89.4	95.7	1967	82.3	1968
September	79.2	87.5	1979	70.8	1965
October	66.1	74.3	1988	56.4	1946
November	50.8	58.0	1995	41.0	1994
December	37.8	48.1	1939	28.1	1930
Annual	63.6	98.2	July 1960	21.7	Jan 1949

1928 - 1997

TABLE 6b

NORMAL MONTHLY MINIMUM TEMPERATURE, PLUS HIGHEST AND LOWEST MONTHLY AVERAGES WITH YEAR OF OCCURRENCE 1928 - 1997

Month	Normal Monthly Minimum	Highest Average Minimum	Year	Lowest Average Minimum	Year
January	19.3	30.9	1953	1.4	1949
February	24.6	33.6	1986	3.4	1933
March	31.4	38.9	1992	27.2	1964
April	37.9	44.0	1992	32.5	1970+
May	45.6	52.5	1992	40.6	1930
June	55.4	61.3	1988	47.5	1945
July	63.7	67.2	1985	56.1	1993
August	61.8	66.2	1994	53.2	1928
September	51.0	58.8	1990	43.8	1964
October	40.2	45.6	1988	33.9	1932
November	30.9	35.9	1953	19.3	1930
December	21.6	30.8	1950	6.5	1932
Annual	40.3	67.2	July 1985	1.4	Jan 1949

Climatological Normals based on (1961-1990) period.

NORMAL, HIGHEST AND LOWEST MONTHLY MEAN TEMPERATURE 1928 - 1997

l	928	-	1	9	9
Ľ	928	-	T	9	У

				1720	- 1997				
	MAX	YEAR	MIN	YEAR	r	MAX	YEAR	MIN	YEAR
JANUARY	39.5	1953	11.6	1949	JULY	81.2	1960	69.9	1993
Normal Monthly Mean	36.8	1994	13.2	1937	Normal Monthly Mean	81.1	1989	73.8	1938
27.9	36.3	1978	18.8	1932+	77.9	80.9	1988	74.2	1986
	35.7	1938	19.2	1944] //	80.7	1994+	74.3	1950+
	35.5	1956	19.5	1963		80.5	1996	74.6	1952
FEBRUARY	42.3	1995	16.2	1933	AUGUST	80.8	1994	69.4	1968
Normal Monthly Mean	42.2	1934	22.6	1939	Normal Monthly Mean	78.7	1997	70.6	1928
34.1	41.7	1958	22.8	1949	75.6	78.6	1967	70.9	1965
54.1	41.4	1986	24.0	1955+	75.0	78.4	1991+	71.9	1964
	40.4	1976	25.3	1989		78.0	1981	72.3	1976
MARCH	49.3	1992	32.0	1964	SEPTEMBER	72.0	1990	57.5	1965
Normal Monthly Mean	49.2	1934	33.3	1952	Normal Monthly Mean	71.4	1979	59.0	1970
41.8	48.0	1978	35.1	1962	65.2	70.5	1994	59.7	1941
41.0	47.7	1986	35.6	1948	05.2	69.7	1969	59.8	1971
	46.9	1972	35.8	1942	1	68.7	1938	60.0	1961
APRIL	57.1	1992	44.2	1970	OCTOBER	60.0	1988	46.6	1946
Normal Monthly Mean	56.6	1934	44.3	1975+	Normal Monthly Mean	57.9	1950	47.1	1970
49.7	56.0	1930	44.4	1929	53.2	57.8	1963	47.5	1971
	55.9	1987	44.8	1945		57.5	1952	47.7	1969
	55.7	1985	45.5	1933	1	56.7	1979	48.1	1932
···									
МАҮ	66.7	1934	52.2	1933	NOVEMBER	46.1	· 1995+	31.8	1930
Normal Monthly	65.6	1992	52.9	1953	Normal Monthly	44.3	1981+	32.4	1938
Mean	65.1	1958	53.2	1942	Mean 40.8	44.0	1954	32.6	1994
58.8	64.0	1969	54.3	1975+	40.8	43.6	1937	33.0	1931
	63.9	1985	54.7	1965	1	43.4	1974	34.1	1992
JUNE	75.7	1988	60.2	1945	DECEMBER	37.9	1977	18.0	1932
Normal Monthly	74.7	1961	63.0	1944	Normal Monthly	37.8	1933	18.8	1930
Mean	74.3	1994	63.2	1964+	Mean	37.1	1996+	21.0	1990
69.1	73.5	1986	63.3	1963	29.7	36.4	1981	22.5	1931
	73.4	1996+	63.6	1947	1	36.3	1939+	22.7	1972
+ Also occurred in				L	<u>I</u>	L		L	

+ Also occurred in earlier years.

38

Highest Annual Average	Year	Normal	Lowest Annual Average	Year
55.2	1934	Annual Mean	48.2	1932
54.6	1994	Temperature	48.3	1964
54.3	1981	52.0	49.0	1929
54.2	1996		49.4	1955,44,30
53.8	1995,40		49.6 ·	1942
53.6	1992,58		49.7	1931

TABLE 7aANNUAL HIGHEST AND LOWEST AVERAGE TEMPERATURES1928 - 1997

Climatological normals based on (1961-1990) period.

TABLE 7b FALL HIGHEST AND LOWEST AVERAGE TEMPERATURES (SEPTEMBER-NOVEMBER) 1928 - 1997

Highest Fall Average	Year		Lowest Fall Average	Year
56.1	1953	Normal	48.0	1930
55.8	1990	Fall Mean	48.3	1971
55.6	1983	Temperature	48.4	1961
55.1	1937	53.1	49.5	1946
55.0	1995+		49.6	1970+
54.9	1979+		50.1	1936
54.6	1933		50.2	1959

TABLE 7cWINTER HIGHEST AND LOWEST AVERAGE TEMPERATURES
(DECEMBER-FEBRUARY)
1928 - 1997

Highest Winter Average	Year		Lowest Winter Average	Year
38.0	1977-78	Normal	19.5	1932-33
37.9	1933-34	Winter Mean	19.9	1948-49
36.3	1994-95+	Temperature	23.5	1930-31
36.2	1952-53	30.5	23.9	1931-32+
35.8	1969-70		24.0	1963-64
35.4	1958-59		24.9	1972-73
35.3	1957-58		25.1	1954-55

Climatological normals based on (1961-1990) period.

TABLE 7d SPRING HIGHEST AND LOWEST AVERAGE TEMPERATURES (MARCH-MAY) 1928 - 1997

Highest Spring Average	Year		Lowest Spring Average	Year
57.5	1934	Normal	44.5	1964
57.3	1992	Spring Mean	45.5	1933
53.8	1987	Temperature	46.4	1955+
53.6	1994	50.2	46.5	1942
53.5	1989		47.2	1944
53.5	1985	7	47.4	1945
53.3	1940		47.5	1965

TABLE 7eSUMMER HIGHEST AND LOWEST AVERAGE TEMPERATURES(JUNE-AUGUST)1928 - 1997

Highest Summer Average	Year		Lowest Summer Average	Year
1994	78.6	Normal	1993	68.7
1988	77.7	Summer Mean	1928	69.5
1961	77.5	Temperature 74.3	1945	69.9
1996	77.2		1965	70.2
1985	76.6		1964	70.9+
1940	76.1		1951	71.0
1990	75.7		1950	71.4
1974	75.6			

Climatological Normals based on (1961-1990) period.

RECORD NUMBER OF DAYS PER YEAR WITH MAXIMUM TEMPERATURES 90, 95, AND 100 DEGREES OR MORE

90 or H	90 or Higher (1)		95 or Higher (2)		ligher (3)
82	1961	51	1961	21	1994+
77	1994	49	1994	15	1961+
75	1988	47	-1940	13	1931
74	1996+	46	1996+	12	1990+
70	1974	43	1967	11	1973+
69	1960+	40	1988	10	1996+
68	1967+	35	1979+	9	1989+
67	1940	34	1931	. 8	1978+
66	1979	33	1989+	7	1972+
63	1990+	31	1990+	6	1988+
54	Annual Average	23	Annual Average	5	Annual Average

1928 - 1997

+Also occurred in earlier years.

(1) - Only years with 62 or more days tabulated.

(2) - Only years with 30 or more days tabulated.

(3) - Only years with 6 or more days tabulated.

TABLE 9

AVERAGE AND GREATEST NUMBER OF DAYS PER MONTH WITH MAXIMUM TEMPERATURES 90, 95, AND 100 DEGREES OR MORE

1928 - 1997

Month	90 or Higher		95 or Higher		100 or Higher	
	Average	Maximum	Average	Maximum	Average	Maximum
Мау	1	7 in 1958	0	1	0	
June	8	20 in 1961	3	16 in 1961	1	8 in 1961
July	23	31 in 1960	12	23 in 1960	3	15 in 1960
August	18	31 in 1967	7	22 in 1967	1	7 in 1994+
September	4	12 in 1979+	1	5 in 1990	*	1 in 1979
Annual Average	54	82 in 1961	23	51 in 1961	5	21 in 1960

+Also occurred in earlier years.

* A high of 100 degrees was recorded on September 8, 1979 and is the only day in September ever to reach 100 degrees.

TABLE 10 GREATEST NUMBER OF CONSECUTIVE DAYS WITH A TEMPERATURE OF 90 DEGREES OR MORE 1928 - 1997

1720 - 1777							
Days	Period	Year	Days	Period	Year		
50	July 18 - September 5	1967	25	July 8 - August 1	1933		
39	July 4 - August 11	1966	24	July 28 - August 24	1963		
38	July 5 - August 11	1961	22	July 18 - August 8	1989		
38	June 24 - July 31	1960	22	July 20 - August 10	1942		
33	July 10 - August 11	1969	21	July 22 - August 11	1978		
33	July 10 - August 11	1964	21	July 17 - August 6	1974		
32	July 8 - August 8	1994	21	July 23 - August 12	1972		
31	July 2 - August 1	1968	21	July 11 - July 31	1959		
30	July 24 - August 22	1971	21	July 8 - July 28	1956		
27	July 5 - July 31	1935	19	June 28 - July 16	1985		
26	July 28 - August 22	1940	19	July 24 - August 11	1979		

Only periods of 19 days or more tabulated.

TABLE 11

GREATEST NUMBER OF DAYS IN ONE MONTH WITH A TEMPERATURE OF 90 DEGREES OR MORE

Days	Month	Year	Days	Month	Year
31	August	1967	27	July	1996+
31	July	1960	26	July	1978
30	July	1968+	25	August	1981+
29	July	1966+	25	July	1959+
28	August	1994+	24	August	1996
28	July	1989+	21	August	1997

Only periods of 24 days or more tabulated.

+ Also occurred in July or August of earlier years.

TABLE 12

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 90 DEGREES OR MORE 1928 - 1997

Earliest in the Spring......May 2, 1947 Latest in the Fall.....September 30, 1957

TABLE 13GREATEST NUMBER OF CONSECUTIVE DAYS WITH A TEMPERATURE OF95 DEGREES OR MORE1928 - 1997

Days	Period	Year	Days	Period	Year
20	July 23 - August 11	1978	11	July 11 - July 21	1933
20	July 11 - July 30	1960	10	July 20 - July 29	1945
19	July 20 - August 7	1994	-10	July 23 - August 1	1943
16	August 11 - August 26	1967	10	June 12 - June 21	1940
15	July 13 - July 27	1931	9	July 21 - July 29	1980
12	June 18 - June 29	1961	9	July 3 - July 11	1976
12	August 3 - August 14	1960	9	July 3 - July 11	1973
12	July 6 - July 17	1954	9	August 4 - August 12	1972
12	July 4 - July 15	1940	9	July 11 - July 19	1934
11	August 1 - August 11	1985	9	August 14 - August 22	1932
11	July 18 - July 28	1937	9	August 9 - August 17	1996
11	July 16 - July 26	1936	9	August 20 - August 28	1997

Only periods of 9 days or more tabulated.

TABLE 14GREATEST NUMBER OF DAYS IN ONE MONTH WITH A TEMPERATUREOF 95 DEGREES OR MORE1928 - 1997

Days	Month	Year	Days	Month	Year
23	July	. 1960	18	July	1964+
22	August	1967	17	August	1994+
22	July	1961	17	July	1976+
21	July	1996+	16	July	1985+
20	July	1994+	16	June	1961
19	July	1967	16	August	1996
18	August	1969+	14	August	1997

Only periods of 16 days or more tabulated.

+ Also occurred in July or August of earlier years.

TABLE 15

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 95 DEGREES OR MORE 1928 - 1997

Earliest in the Spring......May 31, 1997 Latest in the Fall.....September 19, 1956

GREATEST NUMBER OF CONSECUTIVE DAYS WITH A TEMPERATURE OF 100 DEGREES OR MORE

1928 - 1997

Days	Period	Year	Days	Period	Year
9	July 14 - July 22	1960	4	July 15 - July 18	1979
8	July 20 - July 27	1931	4	July 24 - July 27	1978
6	July 25 - July 30	1994	4	July 8 - July 11	1973
6	July 6 - July 11	1976	4	July 3 - July 6	1973
6	July 24 - July 29	1960	4	August 9 - August 12	1972
5	August 3 - August 7	1994	4	August 12 - August 15	1962
5	July 2 - July 6	1985	4	June 20 - June 23	1961
4	June 29 - July 2	1990	4	July 10 - July 13	1954
4	June 23 - June 26	1990	4	July 24 - July 27	1943
4	August 3 - August 6	1979	4	July 16 - July 19	1940
3	August 11 - August 13	1996			

Only periods of 3 days or more tabulated.

TABLE 17GREATEST NUMBER OF DAYS IN ONE MONTH WITH A TEMPERATUREOF 100 DEGREES OR MORE1928 - 1997

Days	Month	Year	Days	Month	Year
15	July	1960	8	June	1961
13	July	1994	7	August	1994
12	July	1931	7	July	1978+
9	July	1989+	6	June	1990
8	July	1976	6	July	1985+

Only periods of 6 days or more tabulated.

+ Also occurred in July or August of earlier years.

TABLE 18

EARLIEST DATE OF OCCURRENCE IN THE SPRING AND THE LATEST DATE OF OCCURRENCE IN THE FALL OF 100 DEGREES OR HIGHER 1928 - 1997

Earliest in the Spring.....June 7, 1985 Latest in the Fall.....September 8, 1979

GREATEST NUMBER OF DAYS IN ONE MONTH WITH A MAXIMUM TEMPERATURE OF 32 DEGREES OR BELOW 1928 - 1997

Days	Month	Year	Days	Month	Year
26	January	1949+	17	January	1929
25	January	1944	16	December	1972+
25	December	1930	16	January	1950
24	January	1931	15	January	1989+
23	January	1973	15	December	1967
22	January	1984+	15	February	1950
21	January	1979+	14	January	1993 +
20	December	1985+	14	December	1990+
20	January	1942+	13	January	1985
19	January	1947	13	December	1968+
18	January	1964	13	February	1949
17	February	1933			

Only months with 13 or more days tabulated.

+ Also occurred in earlier years.

TABLE 20

GREATEST NUMBER OF CONSECUTIVE DAYS WITH A MAXIMUM TEMPERATURE OF 32 DEGREES OR BELOW 1928 - 1997

Days	Period	Days	Period
18	December 20, 1990 - January 6, 1991	15	December 28, 1946 - January 11, 1947
18	January 23, 1949 - February 9, 1949	14	December 23, 1987 - January 5, 1988
17	January 21, 1962 - February 6, 1962	14	January 8, 1987 - January 21, 1987
15	December 16, 1985 - December 30, 1985	14	December 29, 1972 - January 11, 1973
15	January 20, 1979 - February 5, 1979		

Only periods of 14 or more days tabulated.

TABLE 21

NORMAL NUMBER OF DAYS WITH A MAXIMUM TEMPERATURE OF 32 DEGREES OR BELOW

November1 day	January11 days	March1 day	
December9 days	February4 days	Annual26 days	

Climatological Normals based on (1961-1990) period.

GREATEST NUMBER OF CONSECUTIVE DAYS WITH A MINIMUM OF 32 DEGREES OR BELOW 1928 - 1997

Days	Time Period	
94	November 14, 1930 - February 15, 1931	
88	December 1, 1932 - March 8, 1933	
85	November 20, 1990 - February 12, 1991	
81	November 15, 1928 - February 3, 1929	
62	January 6, 1928 - March 8, 1928	
62	December 21, 1943 - February 21, 1944	
61	December 31, 1984 - March 1, 1985	
60	November 21, 1963 - January 19, 1964	
57	December 28, 1975 - February 22, 1976	
55	January 3, 1955 - February 25, 1955	

Only periods of 55 days or more tabulated.

TABLE 23

AVERAGE NUMBER OF DAYS WITH A MINIMUM OF 32 DEGREES OR BELOW 1928 - 1997

Month	Number of Days			
January	28 days			
February	23 days			
March	16 days			
April	6 days			
Мау	1 day			
June	0			
July	0			
August	0			
September	0			
October	5 days			
November	18 days			
December	28 days			
Annual Average	125 days			

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TABLE 24GREATEST NUMBER OF DAYS IN ONE MONTH WITH A MINIMUM TEMPERATUREOF 0 DEGREES OR BELOW1928 - 1997

Days	Month	Year	Days	Month	Year
15	January	1949	7	January	1973
14	January	1937	7	December	1932
12	December	1930	6	January	1974+
11	February	1933	6	December	1931
9	December	1990	6	February	1929
9	December	1972	5	January	1984+
9	January	1932	5	February	1949
8	January	1942			

Only months with 5 or more days tabulated.

+ Also occurred in earlier years.

TABLE 25 GREATEST NUMBER OF CONSECUTIVE DAYS WITH A MINIMUM TEMPERATURE OF 0 DEGREES OR BELOW 1928 - 1997

Days	Period	Days	Period
13	December 20, 1930 - January 1, 1931	6	January 7, 1937 - January 12, 1937
8	December 9, 1972 - December 16, 1972	6	December 11, 1932 - December 16, 1932
7	January 20, 1937 - January 26, 1937	5	December 29, 1990 - January 2, 1991
. 7	February 4, 1933 - February 10, 1933	5	January 17, 1984 - January 21, 1984
6	December 20, 1990 - December 25, 1990	5	January 21, 1962 - January 28, 1962
6	January 3, 1973 - January 8, 1973	5	February 7, 1929 - February 11, 1929
6	January 24, 1949 - January 29, 1949		

Only periods of 5 or more days tabulated.

TABLE 26

AVERAGE NUMBER OF DAYS WITH A MINIMUM TEMPERATURE OF 0 DEGREES OR BELOW 1928 - 1997

November 0 days	January 2 days	Annual 3 days
December 1 day	February less than 1/2 day	

FREEZE DATA -- SALT LAKE AIRPORT 1928 - 1997

		FREEZE (32 DEGI	REES OR BELOW)		•
Earliest Date in the Spring	Latest Date in the Spring	Average Date in the Spring	Earliest Date in the Fall	Latest Date in the Fall	Average Date in the Fall
March 11, 1992 March 19, 1940 March 21, 1989 March 30, 1985 April 3, 1944 April 8, 1994 April 8, 1994 April 8, 1973 April 9, 1952 April 9, 1936 April 10, 1976 April 13, 1987 April 13, 1980 April 14, 1993	May 28, 1954 May 25, 1975 May 23, 1966 May 19, 1931 May 19, 1938 May 19, 1950 May 19, 1960 May 16, 1955 May 13, 1943 May 13, 1951 May 13, 1967 May 11, 1930 May 11, 1933	April 30	Sept 13, 1928 Sept 17, 1965 Sept 18, 1946 Sept 19, 1942 Sept 19, 1964 Sept 22, 1968 Sept 24, 1961 Sept 25, 1958 Sept 25, 1970 Sept 27, 1934 Sept 27, 1936 Sept 28, 1941 Sept 28, 1971	Nov 14, 1988 Nov 13, 1944 Nov 13, 1944 Nov 11, 1987 Nov 9, 1985 Nov 8, 1983 Nov 5, 1974 Nov 3, 1940 Nov 3, 1992 Nov 1, 1977 Oct 31, 1981 Oct 30, 1979 Oct 29, 1993 Oct 28, 1972+	October 15

+ Also occurred in earlier years.

	*]	FREEZE-F	REE PERIOD	
	Longest Shortest			Average
Days	Date	ite Days Date		Length
236	March 12 - November 2, 1992	124	May 29 - September 29, 1954	
223	March 31 - November 8, 1985	132	May 8 - September 16, 1965	
209	March 22 - October 17, 1989	134	May 20 - September 30, 1950	
205	April 20 - November 10, 1987	136	May 6 - September 18, 1964	
203	April 8 - October 29, 1994	137	May 8 - September 21, 1968	167 days
197	April 14 - October 29, 1993	139	May 24 - October 9, 1966	
195	May 3 - November 13, 1988	139	May 2 - September 17, 1946	
195	April 17 - November 7, 1983	139	May 23 - October 8, 1982	
194	April 23 - November 2, 1940	140	May 7 - September 23, 1961	
1 94	Aril 21 - October 31, 1977	141	May1 - September 18, 1942	
193	May 4 - November 12, 1944+			

*Freeze-free period is the number of days between the last freeze (32 degrees or below) in the Spring and the first freeze (32 degrees or below) in the Fall.

GROWING SEASON DATA -- SALT LAKE AIRPORT 1928 - 1997

Minimum Temperature Base	Latest in Spring	Spring Average	First in Fall	Fall Average
32 or below	May 28, 1954	April 30	September 13, 1928	October 15
28 or below	May 9, 1930	April 12	September 18, 1965	October 25
24 or below	April 21, 1982	March 24	October 17, 1964	November 9
20 or below	April 10, 1933	March 10	October 25, 1932	November 22
16 or below	April 5, 1955	February 24	October 30, 1971	November 28
10 or below	March 19, 1965	February 9	November 3, 1936	December 11

Minimum Temperature Base	Minimum Length of Growing Season		Maximum Length of Growing Season		Average Length
	Period	Days	Period	Days	Days
32 or below	May 29 - September 29 1954	124	March 11 - November 3 1992	237	167
28 or below	May 9 - October 16 1930	159	February 8 - November 3 1992	270	199
24 or below	April 17 - October 29 1960	194	January 27 - November 26 1934	302	226
20 or below	April 2 - November 2 1936	213	January 26 - November 30 1934	307	254
16 or below	April 2 - November 2 1936	213	December 21 - December 5 1977 - 1978	348	278
10 or below	February 28 - November 18 1929	262	November 22 - February 1 1994 - 1996	436	310

Growing season is the number of days between the last selected minimum temperature base in the spring and the first selected minimum temperature base in the fall.

FIGURE 5 SALT LAKE CITY AIRPORT SEASONAL PRECIPITATION RECORD 1928-1929 to 1996-1997 (Water Year)#

8-29	
9-30	(15,13)
0-31	(14.54)
2-33	(11.28)
3-34	(8.16)
4-35	(13.65)
6-37	(13.42)
7-38	(12.87)
8-39	(12.00) (11.34)
0-41	(11.15-7) (18.17)
1-42	
2-43 3-44	(12.14) (18.85)
4-45	
5-46	(12.35) (18.83)
6-47 7_48	(18.83)
8-49	(14.36) (16.83) (15.50)
1-52	(14.18) (19.29)
2-53	(12.37)
3-54	(11.78)
4-33	(12.24) (12.53)
6-57	(18 77)
7-58	(12.81) (14.12)
8-59 9-60	(10.43)
0-61	(11.43)
1-62	(11.43) (16.88)
2-03 3-64	(12.43)
4.65	(20.79)
5-66 6-67	(20.77)
7-68	(18.84)
8-69	
9-70 0- 71	(17.76) (19.86)
1-72	(12.26)
2-73	(22.26)
3-74 1 75	(15.64) (17.54) (16.31) (17.54)
5-76	(16.31)
6-77	(14.90)
7-78	(19.23)
9-80	(16.73)
)-81	(13.04)
1-82 2-83	
3-84	(23.82
4-85	(17.26) (23.40)
5-86 5-87	
7-88	(9.94)
3-89	(10.99)
9-90	(10.88)
1-91	(15.61)
2-93	
3-94	(12.84) (20.97)
1-93 5-96	(14.99) (18.47)

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TABLE 29MAXIMUM AND MINIMUM TOTAL ANNUAL PRECIPITATION BY CALENDAR YEAR1929 - 1997

Ma	ximum Ann	ual Precipitati	on		Minimum Annual Precipitation					
Amount	Year	Amount	Year	. .	Amount	Year	Amount	Year		
24.26"	1983	19.87"	1970	Normal Annual	8.70"	1979	10.11"	1933		
22.86"	1982	19.40"	1986	Precip.	8.99"	1966	10.34"	1935		
21.55"	1984	18.87"	1993	16.18"	9.29"	1988	10.69"	1990		
21.11"	1968	18.79"	1941	-	9.36"	1939	10.72"	1958		
20.39"	1973	18.49"	1944	1	9.42"	1931	10.87"	1989		

Normal annual precipitation from Climatological Standard Normals (1961-1990).

TABLE 30*

THE AVERAGE TIME INTERVAL (RETURN PERIOD) BETWEEN THE OCCURRENCE OF THE LISTED PRECIPITATION AMOUNTS AND THAT OF AN EQUAL OR GREATER AMOUNT 1929 - 1970#

Return Period (Years)	Duration of precipitation												
	5 minutes	10 minutes	15 minutes	30 minutes	1 hour	2 hours	24 hours						
1	.03	.06	.08	.13	.19	.28	.65						
2	.15	.24	.29	.36	.45	.58	1.34						
5	.24	.40	.48	.62	.74	.89	1.79						
10	.30	.52	.64	.85	1.02	1.17	2.10						
50	.43	.81	1.12	1.63	1.93	2.02	2.81						
100	.48	.95	1.38	2.09	2.49	2.51	3.13						

* This table, for example, states that the average time interval is 100 years before 0.48 inches of rain or more falls at the Salt Lake Airport in a 5 minute period, or 0.95 inches or more in a 10 minute period, or 1.38 inches or more in a 15 minute period, etc. In another example, the table also states that about once in every 10 years it is possible for 0.30 inches or more of precipitation to fall at the Salt Lake Airport in 5 minutes, 0.52 inches or more in 10 minutes, or 0.64 inches or more in 15 minutes, etc.

This table was compiled using hourly data and Pearsons distribution system by Mr. A.L. Zimmerman, former Hydrologist in Charge of the Colorado Basin River Forecast Center.

WATER YEAR PRECIPITATION 1928-1997

1	1933-34	8.16	69
2	1978-79	8.19	68
3	1930-31	9.27	67
4	1965-66	9.53	66
5	1987-88	9.94	65
6	1959-60	10.43	64
7	1986-87	10.71	63
8	1989-90	10.88	62
° 9	1989-90	10.88	61
	1932-33	11.28	60 ⁻
10	1932-33	11.28	59
11		11.43	58
12	1960-61		
13	1953-54	11.78	57
14	1938-39	12.00	56
15	1942-43	12.14	55
16	1991-92	12.18	54
17	1954-55	12.24	53
18	1945-46	12.35	52
19	1952-53	12.37	51
20	1962-63	12.43	50
21	1955-56	12.53	49
22	1957-58	12.81	48
23	1993-94	12.84	47
24	1937-38	12.87	46
25	1980-81	13.04	45
26	1935-36	13.37	44
27	1936-37	13.42	43
28	1934-35	13.65	42
29	1971-72	14.03	41
30	1958-59	14.12	40
31	1950-51	14.18	39
32	1947-48	14.36	38
33	1931-32	14.54	37
34	1976-77	14.90	36
35	1995-96	14.99	35
36	1929-30	15.13	34
37	1928-29	15.16	33
38	1941-42	15.49	32
39	1949-50	15.50	31
40	1963-64	15.58	30
41	1990-91	15.61	29
42	1973-74	15.64	28
43	1944-45	16.04	27
44	1975-76	16.31	26
45	1966-67	16.35	25
46	1979-80	16.73	24
47	1968-69	16.75	23
48	1948-49	16.83	22
49	1961-62	16.88	21
50	1984-85	17.26	20
51	1974-75	17.54	19
52	1969-70	17.76	18
53	1940-41	18.17	17
54	1996-97	18.47	16
55	1956-57	18.77	15
56	1946-47	18.83	14
57	1967-68	18.84	13
58	1943-44	18.85	12
59	1977-78	19.23	11
60	1992-93	19.24	10
	1951-52	19.24	9
61 62	1970-71	19.29	8
	1970-71	20.58	7
63 64	1982-85	20.38	6
	1964-65	20.99	5
65		22.26	Л
66 67	1972-73	22.20	4 2
67 68	1985-86	23.82	2 2
68	1983-84	23.82 25.15	5 4 3 2 1
69	1981-82	61.62	1

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NORMAL, MAXIMUM AND MINIMUM MONTHLY PRECIPITATION TOTALS 1928 - 1997

	мах	YEAR	MIN	YEAR	5 - 1997	мах	YEAR	MEN	YEAR
JANUARY	3.23	1993	.09	1961	JULY	2.57	1982	T*	1963
Normal Monthly Total	3.14	1940	.17	1935	Normal Monthly Total	2.52	1962	.01	1947
1.11	3.09	1996	.34	1948	0.81	2.17	1951	.02	1960
1.11	2.87	1980	.39	1945	0.81	1.92	1945	.04	1988+
	2.73	1953	.41	1966	1	1.72	1984	.05	1958
FEBRUARY	3.22	1936	.12	1946	AUGUST	3.66	1968	T*	1944
Normal Monthly Total	2.84	1969	.13	1988	Normal Monthly Total	3.28	1945	.02	1996
1.23	2.32	1968	.27	1931	0.86	3.06	1930	.03	1985+
1.20	2.25	1980	.35	1990+	0.00	2.94	1932	.07	1967
	2.20	1958	.39	1953		2.64	1983	.10	1975
MARCH	3.97	1983	.10	1956	SEPTEMBER	7.04	1982	T*	1951+
Normal Monthly Total	3.67	1944	.14	1965	Normal Monthly Total	4.07	1973	.02	1952
1.91	3.56	1952	.20	1955	1.28	2.80	197 0	.03	1974
,	3.47	1978	.48	1934		2.75	1986	.05	1987+
	3.44	1975	.56	1997		2.55	1991	.06	1932
APRIL	4.90	1944	.45	1981+	OCTOBER	3.91	1981	0	1952
Normal Monthly Total	4.57	1974	.46	1989	Normal Monthly Total	3.70	1984	T*	1978+
2.12	4.55	1986	.59	1977	1.44	3.61	1946	.01	1988
	4.43	1984	.64	1985		3.23	1971	.17	1935
·	3.86	1963	.65	1954		2.79	1949	.18	1944
МАҮ	4.76	1977	T*	1934	NOVEMBER	2.96	1994	.01	1939
Normal Monthly Total	3.99	1993	.01	1940	Normal Monthly Total	2.63	1985	.03	1976
1.80	3.68	1995+	.14	1972	1.29	2.57	1934	.05	1943
	3.39	1986	.18	1969		2.52	1973	.10	1959
	3.37	1957	.19	1929		2.46	1992	.13	1929
				· · · ·					
JUNE	2.93	1947	Т	1994	DECEMBER	4.37	1983	.08	1976
Normal Monthly Total	2.83	1969	.01	1946+	Normal Monthly Total	3.82	1964	.10	1986
0.93	2.78	1944	.03	1988	1.40	3.22	1972	.13	1989
-	2.73	1967+	.04	1958	j	2.90	1951	.28	1962
	2.61	1964	.06	1978+		2.80	1970	.37	1980

(T) A trace means too small to measure.

Annual average 16.18 inches based on (1961-1990) period.

Maximum Seasonal Precipitation	Year		Minimum Seasonal Precipitation	Year
25.15"	1981-1982	1	8.16"	1933-1934
23.82"	1983-1984	Normal Water Year	8.19"	1978-1979
23.40"	1985-1986	Precipitation	9.27"	1930-1931
22.26"	1972-1973	16.18"	9.53"	1965-1966
20.97"	1994-1995		9.94"	1987-1988
20.79*	1964-1965	1	10.43"	1959-1960
20.58"	1982-1983		10.71"	1986-1987

TABLE 33MAXIMUM AND MINIMUM WATER YEAR PRECIPITATION1928-1929 through 1996-1997

Water year begins October 1 and ends September 30.

Normal water year precipitation based on Climatological Standard Normals (1961-1990).

TABLE 34a GREATEST 24-HOUR PRECIPITATION (Inches) (Midnight to Midnight) 1928 - 1997

	JANUARY		FEBRUARY			MAH	RCH	APR	APRIL		
D A Y	24-HR PCPN	YEAR	24-HR PCPN	YEAR		24-HR PCPN	YEAR	24-HR PCPN	YEAR		
1	.20	1940	.43	1989		.59	1977	.95	1984		
2	.75	1940	.89	1936		1.11	1941	1.57	1986		
3	.45	1940	.40	1945		.66	1938	.73	1994		
4	.27	1978	.44	1976		.63	1938	.67	<u>194</u> 7		
5	.81	1987	.47	1974		.55	1978	.76	1941		
											
6	.41	1944	.81	1969		.48	1930	.62	1929		
7	.52	1993	.32	1950		.50	1960	.58	1946		
8	.56	1975	.65	1959		.59	1986	.94	1949		
9	51	1993	.41	1976		.64	1987	1.19	1974		
_10	.26	1968	.36	1947		65	1952	1.54	<u>1974</u>		
		r					·				
	.46	1997	44	1995		.82	1990	.27	1970		
12	.43	1932	.64	1952		.47	1944	.65	1944		
13	.28	1971+	.60	1970		1.56	1944	.98	1972		
14	1.36	1953	.54	1987		.41	1960+	. 1.01	1952		
15	.91	1995	.55	1936		.92	1963	.51	<u>196</u> 9		
		<u> </u>							1		
16	.56	1956	44	1969		.53	1975	1.12	<u>1941</u>		
17	.73	1996		1955		.61	1968	.89	1953		
18	.60	1953	.78	1980		.43	1937	1.07	1959		
19	.61	1973	.38	1974		.68	1983	.95	1984		
20	.56	1962	.90	1934		.69	1946	.90	1932		
21	.53	1953	.45	1979		.71	1980	.56	1962		
22	.81	1951	.50	1996		.83	1964	1.00	1957		
23	.52	1967	.72	1930		.88	1949	1.46	1958		
24	.54	1934	.55	1943		.66	1952	.70	1945		
25	.67	1996	.90	1969		.68	1975	1.62	1976		
				r—	· 		·····				
_26	.44	1969	.51	1981		.55	1981	.69	1962		
27	.61	1956	.41			.81	1940	.66	1970		
28	.45	1965	.30	1930		.51	1963	.62	1970		
_29	.49	1980	.16	1940		.73	1967	.91	1951		
30	.30	1996				.72	1948	50	<u>1953</u>		
31	.48	1939				.78	1936		l		
ļ							· ······				
max	1.36	1953 /14th	.90	1969 /25th		1.56	1944 /13th	1.62	1976 /25th		

TABLE 34b **GREATEST 24-HOUR PRECIPITATION (Inches)** (Midnight to Midnight) 1928 - 1997

	МАҮ		Л	JUNE			JULY			AUGUST		
D A Y	24-HR PCPN	YEAR	24-HR PCPN	YEAR		24-HR PCPN	YEAR		24-HR PCPN	YEAR		
1	.57	1987	.86	1943		.85	1980		.28	1960		
2	.82	1938	.82	1991		.24	1949		1.72	1930		
3	.56	1991	.58	1944		.09	1993		1.22_	1945		
4	.92	1993	.54	1943		.46	1961		1.62	1954		
5	1.12	1965	.80	1954		.41	1982		.48	1977		
6	.99	1993	.43	1932		.52	1937		.40	1946		
7	.57	1933	.94	1964		.25	1984		.16	1979		
8	1.03	1986	.94	1968		.27	1980		.94	1968		
9	.87	1992	.98	1970		.52	1950		.37	1930		
10	1.03	1985	.78	1945		.46	1936		.69	1947		
11	1.20	1983	1.36	1947		.45	1997		.27	1993		
12	.69	1995	.71	1967		.30	1989		.50	1930		
13	1.03	1957	.43	1976		2.28	1962		.72	1978		
14	.69	1977	.31	1955		.18	1959		.85	1968		
15	.76	1981	.53	1956		.14	1942		.54	1961		
_16	1.55	1942	.43	1957		.94	1967		.38	1984		
17	.86	1944	.62	1964		.69	1976		.70	1983		
18	1.00	1977	.32	1975		.47	1965		.90	1983		
19	1.08	1957	.41	1975		.90	1971		1.42	1945		
20	1.00	1949	.40	1967		.24	1954		.97	1986		
í <u> </u>												
21	.89	1992	1.75	1948		.59	1987+		1.05	1965		
22	.55	1976	.25	1948		.30	1979		1.04	1960		
23	.53	1968	.27	1967		.65	1993		.45	1976		
_24	1.04	1997	1.08	1969		.75	1955		.30	1949		
25	1.27	1973	.36	1969		.23	1965		.16	1984		
26	.59	1977	.42	1965		.53	1941		1.96	1932		
27	.60	1959	.42	1959		.57	1951		.33	1970		
28	.78	1935	.39	1959		1.25	1982		.51	1971		
29	.66	1988	.22	1971		1.36	1969		.91	1958		
30	.80	1937	.11	1940		1.65	1945		.15	1963		
31	.56	1947				.75	1952		.32	1963		
max	1.55	1942 /16th	1.75	1948 /21st		2.28	1962 /13th		1.96	1932 /26th		



TABLE 34cGREATEST 24-HOUR PRECIPITATION (Inches)
(Midnight to Midnight)
1928 - 1997

SEPTEMBER		OCTOBER			NOVEMBER			DECEMBER			
D A Y	24-HR PCPN	YEAR	1	24-HR PCPN	-YEAR		24-HR - PCPN	YEAR		24-HR PCPN	YEAR
1	1.37	1973		.39	1983		.88	1936		.74	1982
2	.20	1973		.47	1976		1.00	1992		.73	1942
3	.73	1929		1.34	1951		.44	1940		.63	1938
4	.44	1992		.44	1939		.45	1940		.63	1948
5	2.19	1970		1.00	1944		.71	1972		.72	1956
6	.81	1965		.64	1977		.55	1953		.40	1951
7	1.29	1991		1.53	1993		.63	1970		.74	1946
8	.81	1991		.50	1981		.47	1966		.91	1985
9	.64	1986		.46	1960		.78	1995		.98	1970
10	1.15	1982		1.05	1947		.82	1949		.35	1965
11	.86	1985		.89	1997		.66	1985		.79	1968
12	.17	1940		.59	1928		.96	1994		.89	1937
13	.89	1982		.84	1966		.43	1983		.73	1994
14	.66	1977+		.95	1968		.71	1955		.48	1983
15	.23	1959		1.06	1937		.93	1952	Ŀ	.51	1934
16	.89	1996	•	.94	1938		1.13	1954		.77	1936
17	1.38	1978		.64	1969		.67	1930		.77	1970
18	.82	1947		1.23	1984		1.01	1941		.52	1977
19	.56	1972		.65	1979		.50	1977		.37	1929
20	.57	1984		.67	1949		.52	1992		.45	1967
 		r				. 1					I
21	.42	1945		.40	1943		.50	1955		.34	1979+
22	.68	1977+		.41	1985		.78	1974		.46	1951
23	1.09	1973		.53	1991		.57	1946		1.10	1964
24	.41	1930		.64	1956		.44	1951		.53	1964
25	.95	1986		.52	1989		.52	1950		.56	1959
26	2.27	1982		.90	1982		.49	1973		.57	1946
27	.84	1982		.82	1991		.84	1960		.58	1948
28	.96	1982		1.08	1946		.31	1975		1.21	1972
29	1.01	1995		.86	1981		.31	1975		.61	1972
30	1.20	1971		.45	1968		.56	1945		.59	1995
31				.83	1933					.41	1940
		•									
max	2.27	1982 /26th		1.53	1993 /7th		1.13	1954 /16th		1.21	1972 /28th

+ Also occurred in earlier years.

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TABLE 35								
RECORD MAXIMUM PRECIPITATION FOR SPECIFIED TIME PERIODS								

Month	5	10	15	30	1	2	3	*24
	Minutes	Minutes	Minutes	Minutes	Hour	Hour	Hour	Hours
January	0.06 8/1975 13/1971	.10 13/1971	.12 14/1980 8/1975 13/1971	.22 14/1980	.39 14/1980	.58 14/1980	.78 14/1980	1.36 14/1953
February	.13	.25	.26	.28	.31	.60	.64	1.05
	6/1950	6/1950	6/1950	6/1950	6/1950	6/1969	6/1969	25-26/1958
March	.33	.43	.45	.50	.53	.55	.64	1.83
	2/1989	2/1989	2/1989	2/1989	1/1989	2/1989	7-8/1960	13-14/1944
April	.11 28/1973	.15 24/1951 30/1936	.20 23/1965	.33 23/1958	.44 25/1976 23/1958	.80 23/1958	.95 23/1958	2.41 22-23/1957
May	.30	.44	.47	.48	.48	.52	.71	2.03
	26/1941	26/1941	26/1941	26/1941	26/1941	10/1946	19/1957	15-16/1942
June	.26 24/1936	.32 15/1956	.36 24/1936	.46 24/1936	.48 21/1948 24/1936	.63 21/1948	.75 21/1948	1.88 21-22/1948
July	.50	.92	1.26	1.79	1.94	1.99	1.99	2.35
	13/1962	13/1962	13/1962	13/1962	13/1962	13/1962	13/1962	12-13/1962
August	.34	.52	.78	1.08	1.31	1.50	1.53	1.96
	19/1945	4/1954	4/1954	4/1954	4/1954	4/1954	4/1954	26/1932
September	.35	.45	.57	.62	.63	.74	.97	2.30
	14/1977	14/1977	14/1954	14/1977	14/1977	26/1982	26/1982	26-27/1982
October	.12 7/1993 2/1976	.23 7/1993	.32 7/1993	.45 7/1993	.71 7/1993	.83 10/1947	.95 10/1947	1.76 17-18/1984
November	.10	.18	.19	.21	.33	.53	.59	1.13
	17/1948	17/1948	17/1948	17/1948	15/1952	15/1952	12/1964	16/1954
December	.08 23/1982 23/1964	.10 23/1982 23/1964	.13 5/1956	.22 5/1956	.30 23/1964	.52 12/1937	.66 12/1937	1.82 28-29/1972
Annual	.50	.92	1.26	1.79	1.94	1.99	1.99	2.41
	July 13	July 13	July 13	July 13	July 13	July 13	July 13	April 22-23
	1962	1962	1962	1962	1962	1962	1962	1957

Period of record 1936-1991.....excluding 1938-1940.

* Not confined to midnight-midnight.

.

AVERAGE AND GREATEST NUMBER OF DAYS PER MONTH WITH AT LEAST 0.01, 0.10, 0.50, AND 1.00 INCH OF PRECIPITATION

1.00 inch or more Month 0.01 inch or more 0.10 inch or more 0.50 inch or more Avg Most Year Avg Most Year Avg Most Year Avg Most Year Days Days Days Days Days Days Days Days Jan 10 16 1993 4 9 1993 0 3 1953 * 1 1953 Feh 9 15 1993 4 10 1940 0 3 1936 0 0 ____ 10 17 1975+ 5 1983 3 1977 +* 1944+ Mar 12 1 1 10 1978 +5 5 * 2 1974+ 16 12 1963 +1 1944 Apr * Mav 8 17 1995 +4 10 1981 +1 3 1993 +2 1957 * 5 17 3 8 2 * 1985 +Jun 1967 1969 1964+ 1 Jul * * 4 12 1936 2 6 1965 3 1951 1 1969 +7 6 13 1945 2 1982 * 3 1971 +* 2 1945 Aug Sep 5 15 2 5 * 2 1982+ 1982 10 1982 1982 1 * Oct 6 13 1981 +4 12 1981 1 3 1984 +1 1993 +* 1994+ 9 Nov 8 17 4 1985 +1 3 1955 1 1992+ Dec 10 24 1983 5 14 1983 * 3 1964 * 1 1972 +71 91 140 1983 43 1983 12 1977 +1957 +Annual 6 1 4

(MIDNIGHT-MIDNIGHT) 1928 - 1997

+ Also occurred in earlier years.

* Average is less than 1/2 day.

TABLE 37

GREATEST NUMBER OF CONSECUTIVE DAYS WITH A TRACE OR MORE

1928 - 1997

Days	Period	Total Rainfall
24	November 17 - December 10, 1983	2.19"
18	December 22, 1991 - January 8, 1992	.75"
18	January 28 - February 14, 1984	.34"
17	December 15 - December 31, 1968	1.13"
16	February 11 - February 26 1936	2.04"
16	April 17 - May2, 1951	2.62"
16	February 8 - February 23, 1986	.80"
15	December 16 - December 30, 1985	.23"
15	January 24 - February 7, 1979	.12"
15	February 5 - February 19, 1978	1.56"
15	January 19 - February 2, 1969	1.23"
15	March 28 - April 11, 1958	1.57*

Only 15 or more days tabulated.

GREATEST NUMBER OF CONSECUTIVE DAYS WITH .01 INCH OR MORE OF PRECIPITATION

1928 - 1997

# Days	Period	Total Rainfall
10	February 14 - February 23, 1980	2.12"
9	December 19 - December 27, 1983	1.78"
9	December 19 - December 27, 1981	1.34"
9	May 20 - May 28, 1962	1.56"
9	December 29 - January 6, 1940	2.66"
8	October 11 - October 18, 1993	1.02"
8	June 3 - June 10, 1984	1.73"
8	September 26 - October 3, 1983	1.47"
8	November 22 - November 29, 1977	.41"
8	January 4 - January 11, 1975	.98"
8	October 24 - October 31, 1971	2.10"
8	February 17 - February 24, 1968	.93"
8	March 27 - April 4, 1958	.87"
8	May 13 - May 21, 1949	2.27"
8	January 8 - January 15, 1949	.86"

8 or more days tabulated.

.

TABLE 39

GREATEST NUMBER OF CONSECUTIVE DAYS WITH .10 INCH OR MORE OF PRECIPITATION

1928 - 1997

# Days	Period	Total Rainfall
7.	September 24 - September 30, 1982	4.79"
6	May 3 - May 8, 1993	3.56"
6	January 6 - January 11, 1993	1.85"
6	May 30 - June 3, 1944	2.32"
5	May 22 - May 26, 1995	1.45"
5	October 29 - November 2, 1992	1.92"
5	May 14 - May 18, 1977	2.76"
5	April 22 - April 26, 1971	1.32"
5	April 26 - April 30, 1970	2.20"

5 or more days tabulated.

TABLE 40

GREATEST NUMBER OF CONSECUTIVE DAYS WITH .25 INCH OR MORE OF PRECIPITATION 1928 - 1997

# Days	Period	Total Rainfall
. 5	May 14 - May 18, 1977	2.76"
5	June 3 - June 7, 1945	1.64"
4	May 3 - May 6, 1993	2.69"
4	May 6 - May 9, 1986	2.55"
4	April 27 - April 30, 1970	2.05"
4	May 21 - May 24, 1968	1.62"
4	November 18 - November 21, 1950	1.18"

8 or more days tabulated.

GREATEST NUMBER OF CONSECUTIVE DAYS WITHOUT EVEN A TRACE OF PRECIPITATION 1928 - 1997

# Days	Period
62	September 12 - November 12, 1952
30	August 18 - September 16, 1944
30	September 20 - October 19, 1978
29	June 18 - July 16, 1944
29	January 2 - January 30, 1961
28	June 27 - July 24, 1931
28	October 3 - October 30, 1933
27	September 13 - October 9, 1942
27	June 25 - July 21, 1963
27	July 30 - August 25, 1985
26	May 2 - May 27, 1934
26	November 7 - December 2, 1936
26	August 30 - September 24, 1943
26	August 12 - September 6, 1950
26	August 23 - September 17, 1962
26	October 15 - November 9, 1962

TABLE 42GREATEST NUMBER OF CONSECUTIVE DAYS WITHOUT MEASURABLE PRECIPITATION,
BUT INCLUDING TRACES
1928 - 1997

# Days	Period
63	September 11 - November 12, 1952
61	June 25 - August 24, 1963
56	June 2 - July 26, 1935
56	July 21 - September 17, 1944
52	September 14 - November 4, 1958
45	June 14 - July 28, 1959
44	October 28 - December 10, 1939
42 、	June 3 - August 14, 1978
42	September 20 - October 31, 1978
38	August 30 - October 6, 1943
38	August 7 - September 13, 1974
37	September 5 - October 11, 1987
37	September 22 - October 28, 1964
36	August 21 - September 23, 1933
35	August 12 - September 15, 1993
35	December 27 - January 30, 1961
35	August 21 - September 24, 1979
35	August 8 - September 11, 1988

CHANCES OF MEASURABLE PRECIPITATION ON ANY GIVEN DAY OF THE YEAR BASED ON 1928 - 1997 PERIOD OF RECORD										
Day	January	February	March	April	May	June				
1	24.3%	27.1%	27.1%	35.7%	30.0%	34.3%				
2	30.0%	34.3%	52.9%	40.0%	22.9%	27.1%				
3	31.4%	21.4%	38.6%	24.3%	21.4%	24.3%				
4	32.9%	24.3%	27.1%	22.9%	27.1%	27.1%				
5	38.6%	24.3%	38.6%	24.3%	27.1%	24.3%				
6	24.3%	31.4%	22.9%	28.6%	32.9%	25.7%				
7	25.7%	27.1%	20.0%	30.0%	31.4%	30.0%				
8	30.0%	35.7%	22.9%	27.1%	37.1%	27.1%				
9	24.3%	30.0%	21.4%	37.1%	24.3%	30.0%				
10	34.3%	28.6%	24.3%	32.9%	31.4%	22.9%				
11	40.0%	28.6%	40.0%	31.4%	24.3%	12.9%				
12	31.4%	38.6%	25.7%	22.9%	28.6%	22.9%				
13	35.7%	34.3%	41.4%	21.4%	20.0%	17.1%				
14	32.9%	38.6%	41.4%	28.6%	22.9%	15.7%				
15	35.7%	30.0%	28.6%	18.6%	31.4%	15.7%				
16	37.1%	35.7%	25.7%	21.4%	32.9%	20.0%				
17	31.4%	40.0%	37.1%	31.4%	24.3%	17.1%				
18	34.3%	42.9%	25.7%	37.1%	21.4%	14.2%				
19	31.4%	28.6%	30.0%	38.6%	24.3%	11.4%				
20	30.0%	28.6%	21.4%	30.0%	25.7%	11.4%				
21	28.6%	25.7%	25.7%	35.7%	25.7%	12.9%				
22	32.9%	35.7%	28.6%	34.3%	25.7%	11.4%				
23	40.0%	34.3%	40.0%	30.0%	24.3%	8.6%				
24	35.7%	27.1%	42.9%	30.0%	30.0%	15.7%				
25	28.6%	25.7%	32.9%	42.9%	24.3%	10.0%				
26	24.3%	30.0%	25.7%	35.7%	25.7%	14.3%				
27	31.4%	28.6%	31.4%	37.1%	31.4%	11.4%				
28	40.0%	22.9%	24.3%	40.0%	22.9%	2.9%				
29	28.6%	25.0%	35.7%	40.0%	22.9%	8.6%				
30	30.0%		35.7%	31.4%	27.1%	7.1%				
31	32.9%		35.7%		31.4%					

TABLE 42aCHANCES OF MEASURABLE PRECIPITATION ON ANY GIVEN DAY OF THE YEARBASED ON 1928 - 1997 PERIOD OF RECORD

TABLE 42b
CHANCES OF MEASURABLE PRECIPITATION ON ANY GIVEN DAY OF THE YEAR
BASED ON 1928 - 1997 PERIOD OF RECORD

ţ

Day	July	August	September	October	November	December
1	8.6%	18.6%	12.9%	17.1%	24.3%	34.3%
2	7.1%	15.7%	17.1%	21.4%	24.3%	27.1%
. 3	10.0%	12.9%	14.3%	18.6%	24.3%	24.3%
4	11.4%	24.3%	17.1%	21.4%	22.9%	32.9%
5	7.1%	18.6%	18.6%	14.3%	20.0%	24.3%
6	10.0%	20.0%	18.6%	14.3%	20.0%	24.3%
7	12.9%	10.0%	14.3%	25.7%	32.9%	32.9%
8	15.7%	17.1%	14.3%	18.6%	25.7%	20.0%
9	12.9%	18.6%	11.4%	22.9%	17.1%	28.6%
10	15.7%	11.4%	20.0%	21.4%	25.7%	27.1%
11	15.7%	17.1%	20.0%	12.9%	30.0%	27.1%
12	15.7%	24.2%	18.6%	25.7%	30.0%	25.7%
13	8.6%	17.1%	17.1%	27.1%	30.0%	27.1%
14	10.0%	27.1%	15.7%	20.0%	30.0%	14.3%
15	15.7%	25.7%	10.0%	24.3%	27.1%	22.9%
16	15.7%	22.9%	10.0%	25.7%	22.9%	25.7%
17	18.6%	20.0%	17.1%	15.7%	38.6%	31.4%
18	12.9%	21.4%	22.9%	20.0%	35.7%	24.3%
19	18.6%	22.9%	22.9%	18.6%	27.1%	32.9%
20	12.9%	14.3%	28.6%	18.6%	31.4%	24.3%
21	17.1%	17.1%	17.1%	15.7%	28.6%	31.4%
22	15.7%	15.7%	15.7%	14.3%	27.1%	32.9%
23	18.6%	12.9%	22.9%	18.6%	17.1%	35.7%
24	15.7%	18.6%	20.0%	18.6%	30.0%	25.7%
25	18.6%	18.6%	22.9%	15.7%	28.6%	34.3%
26	15.7%	18.6%	12.9%	17.1%	25.7%	30.0%
27	10.0%	.17.1%	18.6%	22.9%	27.1%	28.6%
28	14.3%	20.0%	14.3%	30.0%	27.1%	38.6%
29	18.6%	20.0%	12.9%	24.3%	20.0%	41.4%
. 30	20.0%	8.6%	21.4%	22.9%	21.4%	32.9%
31	17.1%	10.0%		28.6%		27.1%

FIGURE 7 SALT LAKE CITY AIRPORT SEASONAL SNOWFALL RECORD 1929-1930 to 1996-1997 (Season)

1	NCHES	10	20	30	40	50	60	70	80	90	100	110	120
	1929-30												
	1930-31												
	1931-32							(67.	3)				
	1932-33								(70.9)				
	1933-34		•										
	1934-35						/F F						
	1935-36								172 0	••			
	1936-37 1937-38							********	- (/3.0))			
	1937-38					142 6	:1						
	1939-40					- (43.0	"						
	1940-41				(30 1)								
							(F	58 7)					
	1941-42 1942-43 1943-44				(31.4)			,					
	1943-44										- (91.3)		
	1944-45				(3	7.9)					•		
	1945-46												
	1946-47												
	1947-48						- (54	.3)					
	1948-49									(8	38.2)		
	1949-50						(53.)	2)					
1	1950-51				(36	5.0)							
1	1951-52												(117.3)
	1952-53						.6)			,			
	1953-54												
	1954-55								(70.1)				
1	1955-56						(55	.9)					
	1956-57												•
	1957-58							(65.	7)				
	1958-59							~					
	1959-60						(56	.0}					
	1960-61 1961-62									00 E	`		
	962-63								(00.5	,		
-	963-64					- (++.0	·/			18	37 4)		
	964-65										,,,,		
	965-66					-		(61.8)					
	966-67								(74.	6)			
	967-68												
	968-69									(89.2)		
	969-70												
	970-71												
	971-72												
	972-73												
	973-74												(110.8)
	974-75												
	975-76									5.5)			
	976-77												
	977-78 978-79								•				
	978-79))				
	979-80							(01.0)					
	981-82						- 157	9)					
	982-83												
	983-84										(98	0)	
	984-85										,00	.0,	·
	985-86								.	,			
	986-87												•
1	987-88				(35	.3)							
1	988-89						((60.0)					
	989-90												
	990-91						8)						
	991-92												
	992-93										(98	.7)	
	993-94									10-	•		
	994-95												
	995-96 996-97									- (85	5.7)		
-								(03.3)	/				
1	330-37							•					

The snow season extends from July 1 to June 30. The normal annual snowfall at Salt Lake City International is 64.5 inches. Normal annual snowfall based on (1961-1990) period.

TABLE 43NORMAL, MAXIMUM AND MINIMUM MONTHLY SNOWFALL (INCHES)1928 - 1997

	мах	YEAR	MIN	YEAR		мах	YEAR	MIN	YEAR
JANUARY	50.3	1993	0.1	1961	JULY				
Normal Monthly Total	45.0	1996	2.4	1938	Normal Monthly Total				
12.7"	32.3	1937	2.5	1935	0.0				
12.7	30.4	1967	2.8	1970	0.0				
	30.1	1949	3.7	1948					
FEBRUARY	27.9	1969	Т	1953	AUGUST				
Normal Monthly Total	27.5	1989	0.3	1957	Normal Monthly Total				
9.3"	22.6	1996	0.4	1988	0.0				
	20.9	1936	0.8	1963 +					
	20.1	1944+	0.9	1931					
	_					ļ			
MARCH	41.9	1977	0	1993	SEPTEMBER	4.0	1971	0	1995+
Normal Monthly Total	35.6	1952	Т	1940+	Normal Monthly Total	2.2	1965		
11.6"	33.5	1964	0.2	1992	0.2"	1.0	1978		
	30.8	1944	0.4	1959	1				
	25.3	1962	0.6	1955	· · · · · · · · · · · · · · · · · · ·			· · · · ·	
APRIL	26.4	1974	0	1954+	OCTOBER	20.4	1984	0	1993+
Normal Monthly	25.1	1984	т	1989+	Normal Monthly	16.6	1971	т	1994+
Total	23.6	1970	0.1	1994+	Total	10.4	1957		
7.3"	21.8	1955	0.2	1969	2.1"	8.3	1961		
	15.5	1958	0.3	1981		6.0	1972		
MAY	7.5	1975	0	1994+	NOVEMBER	33.3	1994	0	1939
Normal Monthly Total	5.3	1965+			Normal Monthly Total	27.2	1985	Т	1997+
1.1"	5.0	1983			6.5"	19.5	1973	0.1	1995
•••	4.6	1978]	18.5	1931	0.4	1953
	2.9	1955				18.0	1975	0.6	1987+
JUNE					DECEMBER	35.2	1972	0.9	1962
Normal Monthly Total					Normal Monthly Total	34.3	1948	1.0	1937
0.0					13.7"	34.2	1983	1.2	1976
- * -						33.3	1968	1.4	1995
						27.3	1932	1.7	1989+

Hail not included. Climatological normals based on (1961-1990) period.

(T) Trace means too small to measure.

+ Also occurred in earlier years.

66

		20-1727 un ough 1770-		· · · · · · · · · · · · · · · · · · ·
Maximum Seasonal Snowfall	Winter Season		Minimum Seasonal Snowfall	Winter Season
117.3"	1951-1952	1	16.6"	1933-1934
110.8"	1973-1974	Normal Annual	18.5"	1939-1940
98.7"	1992-1993	Snowfall	30.1"	1940-1941+
98.0"	1983-1984	64.5"	30.2"	1980-1981
91.3"	1943-1944	1	31.3"	1960-1961
89.2"	1968-1969	1	31.4"	1942-1943
88.2"	1948-1949		33.9"	1930-1931

TABLE 44MAXIMUM AND MINIMUM SEASONAL SNOWFALL1928-1929 through 1996-1997

Normals from Climatological Standard Normals (1961-1990).

+ Also occurred in previous years.

TABLE 45a GREATEST 24-HOUR SNOWFALL (Inches) (Midnight to Midnight) 1928 - 1997

	JANU	ARY	FEB	RUARY		MAR	СН		APR	JIL
D A Y	MAX 24-HR SNOW	YEAR	MAX 24-HF SNOW	E		MAX 24-HR -SNOW	YEAR		MAX 24-HR SNOW	YEAR
1	4.6	1937	10.9	1989	· · · ·	7.3	1977		6.0	1984+
2	9.0	1993	5.0	1936	1	10.1	1977		9.6	1955
3	6.3	1944	7.0	1936		4.2	1962		7.2	1983
4	3.3	1929	6.0	1938	ĺ	3.0	1938		3.9	1947
5	6.1	1987	6.2	1974		2.4	1980		3.1	1997
6	7.6	1967	7.9	1969		4.0	1930		3.1	1968
7	7.7	1974	3.3	1990		2.0	1945		0.5	1982
8	6.4	1985	8.5	1959		2.6	1958		0.9	1984
9	8.4	1993	4.5	1965		4.8	1948		9.0	1929
10	4.0	1968	7.7	1984		7.4	1962		11.8	1974
11	7.5	1993	5.1	1995		11.0	1952		2.3	1991
12	5.7	1932	7.7	1952		1.8	1964		3.8	1974
13	3.0	1971+	5.8	1968	<u> </u>	9.4	1944		7.9	1972
14	8.5	1953	7.2	1944		9.3	1944		3.0	1995
15	4.9	1991	3.1	1978		7.9	1964		2.2	1967
						· ·····	1	r		
16	6.9	1955	4.2	1992	ļ	5.6	1958	ļ	4.2	1941_
17	10.0	1996	3.1	1955	ļ	6.3	1968	ļ	3.7	1944
18	5.0	1964	7.4	1961		2.1	1968+		6.5	1972
19	7.5	1973		1989		6.1	1983		2.1	1987
20	9.7	1962	3.9	1985		4.4	1944	L	5.4	1968
					<u>т</u>			r		·
21	4.5	1953	3.1	1975		6.4	1980		4.5	1968
	5.4	1949	9.9	1994	<u> </u>	11.5	1964	 	1.8	1970
23	5.5	1950	6.4	1956	<u> </u>	3.0	1996	ļ	10.1	1958
24	6.4	1996	5.1	1972	<u> </u>	4.7	1952	 	1.6	1945
25	13.4	1996	8.3	1969	I	4.5	1975	L	8.5	1975
26	4.7	1969	6.0	1996		4.2	1981	ĺ	8.1	1955
27	5.1	1980	6.3	1947	1	2.6	1981	1	6.3	1991
28	5.8	1933	3.0	1930		3.0	1987	t	6.4	1970
29	<u> </u>	1980	<u>J.0</u>	1984+	1	8.2	1967	†	5.8	1967
30	4.2	1996	<u>_</u>		1	5.2	1980	1	3.5	1970
31	6.8	1939			1	8.0	1936	[· · · · ·
	0.0		·····	Ę				*	• • • • • • • • • • • •	·
mnth	13.4	1996 /25th	10.9	1989 /1st		11.5	1964 /22nd		11.8	1974 /10th

Hail not included. (T) Trace means too small to measure. + Also occurred in earlier years.

TABLE 45b GREATEST 24-HOUR SNOWFALL (Inches) (Midnight to Midnight) 1928 - 1997

	MA	AY	JUI	VE		JUI	LY		AUG	UST
D A Y	MAX 24-HR SNOW	YEAR	MAX 24-HR SNOW	YEAR		MAX 24-HR SNOW	YEAR		MAX 24-HR SNOW	YEAR
1	0.9	1988	Т	1990						
2	4.9	1964	T	1943						
3	2.2	1950							*****	
4	4.0	1975								
5	5.3	1965	Т	1954						
		L	**************************************				····	I		
6	1.1	1975				· · · · · · · · · · · · · · · · · · ·			· · ·	
7	Т	1979+								
8	1.0	1993								
9	Т	1986+								
10	0.1	1953								
11	5.0	1983								
12	Т	1995+								
13	Т	1956+	Т	1976						
14	T	1968								
15	2.9	1955								
					<u></u>	· · · · · ·		<u> </u>	· · ·	
16	Т	1978+								
17	1.4	1971	Т	1929						
18	1.0	1960								
19	T	1975+								
20	Т	1975+							•	
21	Т	1975+								
22	Т	1975+								
_23	0									
24	Т	1980+								
25	T	1980								
26	T	1929								
27	T	1929								
_28	Т	1982								
29	0		Т	1968						
30	0									
31	0									
			· · · · · · · · · · · · · · · · · · ·							
mnth	5.3	1965 /5th	Т	1990+						

Hail not included. (T) Trace means too small to measure. + Also occurred in earlier years.

TABLE 45c GREATEST 24-HOUR SNOWFALL (Inches) (Midnight to Midnight) 1928 - 1997

	SEPTE	MBER	осто	BER		NOVE	MBER		DECEN	ABER
D A Y	MAX 24-HR SNOW	YEAR	MAX 24-HR SNOW	YEAR		MAX 24-HR SNOW	YEAR		MAX 24-HR SNOW	YEAR
1			0.7	1971		2.9	1956		7.3	1982
2			Т	1971		5.5	1957		4.5	1952
3			Т	1969		3.1	1973		2.0	1971
4			0			3.0	1940		8.7	1948
5			Т	1941		5.0	1947		7.8	1996
	·									
6			Ţ	1970+		2.6	1986		6.1	1956
7			T	1970+		4.6	1945		4.5	1994
8		ļ	T	1961		2.9	1966		10.5	1985
9			<u> </u>	1973+		2.0	1935		5.5	1931
10			<u> </u>	1969+		4.8	1978		4.0	1949
	<u> </u>	· · · · · · · · · · · · · · · · · · ·					r			
11			0			4.7	1985		9.5	1968
12		ļļ.	<u>T</u>	1969		5.1	1985		4.0	1993
13			3.6	1966		8.3	1994		7.3	1994
14			0.1	1969		6.9	1955		2.6	1948
15		1	0.2	1984		9.5	1958		3.2	1992
									0.7	
16	<u> </u>	1946	<u>T</u>	1984+		5.0	1994		8.5	1967
17	2.2	1965	4.8	1984		11.0	1930		8.8	1970
18	1.0	1978	13.8	1984		4.1	1985		3.7	1977
19		· · · · ·	T	1984+		<u>6.9</u>	1941		5.2	1951
20		I [2.5	1996	<u> </u>	7.0	1946		6.6	1967
21			2.0	1961		4.3	1961		4.0	1979
21			0.5	1901		3.6	1901		4.0	1979
23			0.5 T	1995+		3.0	1992		3.8	1987
24	Т	1984	6.6	1975		4.9	1951		7.6	1948
25	<u>т</u>	1986+	1.2	1996		5.7	1944		5.9	1943
	······································							•		
26	Т	1934	1.6	1984		7.0	1973		4.3	1936
27			5.8	1971		4.6	1960		8.1	1948
28			6.3	1961		3.5	1975		12.6	1972
29	Т	1950	3.5	1972		5.3	1991		8.0	1936
30	4.0	1971	2.2	1981		4.2	1967		5.8	1992+
31			8.5	1971					4.7	1965+
		· · · · · · · · · · · · · · · · · · ·								
mnth	4.0	1971 /30th	13.8	1984 /18th		11.0	1930 /17th		12.6	1972 /28th

Hail not included. (T) Trace means too small to measure. + Also occurred in earlier years.

TABLE 45D

Dates of First Measurable Snowfall in SLC 1928-1997

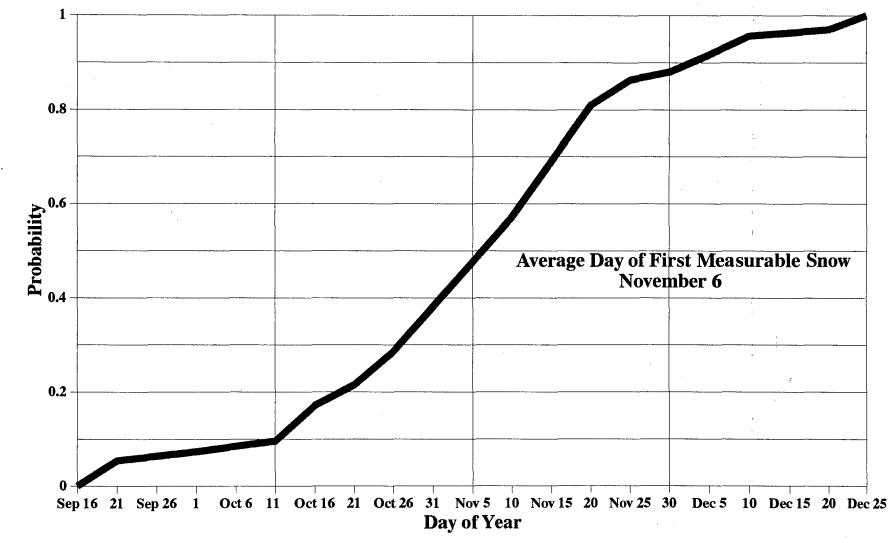
September 17, 1965	November 2, 1973	November 16, 1968
September 18, 1978	November 2, 1957	November 16, 1962
September 30, 1971	November 4, 1959	November 17, 1987
October 11, 1997	November 4, 1948	November 17, 1953
October 13, 1966	November 4, 1942	November 17, 1928
October 14, 1969	November 4, 1933	November 18, 1979
October 15, 1984	November 5, 1947	November 18, 1941
October 20, 1996	November 5, 1940	November 19, 1992
October 20, 1949	November 6, 1986	November 19, 1934
October 21, 1961	November 6, 1945	November 20, 1990
October 22, 1995	November 8, 1983	November 22, 1993
October 22, 1935	November 9, 1985	November 23, 1980
October 24, 1975	November 10, 1964	November 30, 1967
October 24, 1970	November 10, 1938	November 30, 1954
October 24, 1956	November 11, 1955	December 4, 1976
October 26, 1989	November 11, 1931	December 6, 1932
October 27, 1991	November 12, 1951	December 7, 1974
October 27, 1982	November 13, 1944	December 23, 1937
October 27, 1929	November 13, 1930	December 25, 1943
October 28, 1972	November 14, 1988	December 25, 1939
October 29, 1981	November 14, 1958	
October 31, 1977	November 14, 1950	
November 1, 1946	November 15, 1963	
November 1, 1936	November 15, 1960	
November 2, 1994	November 15, 1952	

Average Date of First Measurable Snowfall in SLC is November 6

70 Years of Data 42 Different Dates

SLC FIRST MEASURABLE SNOW

1928-1997



GREATEST SNOWFALL (INCLUDING ICE PELLETS) IN ANY 24 HOURS AND GREATEST DEPTH OF SNOW ON THE GROUND

1	928	_	1997
- 1	740	-	177/

Month January February March April May September	Amount 10.7" 9.7" 9.7" 9.0" 8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8" 11.8"	owfall in any 24 Days 28-29 20 2-3 6-7 14 1-2 22 10-11 14-15 4-5 13-14 1-2 10-11	Year 1980 1962 1993 1967 1953 1989 1994 1984 1984 1944 1974 1944 1966	Amount 25" 23" 17" 13" 12" 17" 15" 13" 11" 14"	Depth of snow of Days 12 23-24 31 7 29-30 1-2 1 2,4 3	Year 1993 1949 1937 1967 1980 1949 1937 1989 + 1936 +
February March April May	10.7" 9.7" 9.0" 8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	28-29 20 2-3 6-7 14 1-2 22 10-11 14-15 4-5 13-14 1-2	1980 1962 1993 1967 1953 1989 1994 1984 1984 1944 1974	25" 23" 17" 13" 12" 17" 15" 13" 11"	12 23-24 31 7 29-30 1-2 1 2,4	1993 1949 1937 1967 1980 1949 1937 1989 +
February March April May	9.7" 9.0" 8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	20 2-3 6-7 14 1-2 22 10-11 14-15 4-5 13-14 1-2	1962 1993 1967 1953 1989 1994 1984 1984 1944 1974	23" 17" 13" 12" 17" 15" 13" 11"	23-24 31 7 29-30 1-2 1 2,4	1949 1937 1967 1980 1949 1937 1989 +
March April May	9.7" 9.0" 8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	2-3 6-7 14 1-2 22 10-11 14-15 4-5 13-14 1-2	1993 1967 1953 1989 1994 1984 1944 1974 1944	17" 13" 12" 17" 15" 13" 11"	31 7 29-30 1-2 1 2,4	1937 1967 1980 1949 1937 1989 +
March April May	9.0" 8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	6-7 14 1-2 22 10-11 14-15 4-5 13-14 1-2	1967 1953 1989 1994 1984 1944 1974 1944	13" 12" 17" 15" 13" 11"	7 29-30 1-2 1 2,4	1967 1980 1949 1937 1989 +
March April May	8.5" 11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	14 1-2 22 10-11 14-15 4-5 13-14 1-2	1953 1989 1994 1984 1944 1974 1944	12" 17" 15" 13" 11"	29-30 1-2 1 2,4	1980 1949 1937 1989 +
March April May	11.9" 9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	1-2 22 10-11 14-15 4-5 13-14 1-2	1989 1994 1984 1944 1974 1974	17" 15" 13" 11"	1-2 1 2,4	1949 1937 1989+
March April May	9.9" 8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	22 10-11 14-15 4-5 13-14 1-2	1994 1984 1944 1974 1944	15" 13" 11"	1 2,4	1937 1989+
March April May	8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	22 10-11 14-15 4-5 13-14 1-2	1994 1984 1944 1974 1944	15" 13" 11"	1 2,4	1937 1989+
April May	8.8" 8.7" 8.6" 15.4" 13.9" 13.8"	10-11 14-15 4-5 13-14 1-2	1984 1944 1974 1944	13" 11"	2,4	1989+
April May	8.7" 8.6" 15.4" 13.9" 13.8"	14-15 4-5 13-14 1-2	1944 1974 1944	11"		1
April May	8.6" 15.4" 13.9" 13.8"	4-5 13-14 1-2	1974 1944			
April May	13.9" 13.8"	1-2		1.48		1
April May	13.9" 13.8"	1-2		1/1"	2	1977
Мау	13.8"			14	2	1966+
Мау	1	10-11				1
Мау	11.8"		1952	9" 0"	10	1962+
Мау		21-22	1964	8"	11-12	1990+
Мау	16.2"	9-10	1974	12"	10	1974
	10.2	22-23	1974	10"	23	1974
				9"		
	10.7"	25-26	1984+		2	1955
	9.7"	27-28	1970	8"	28	1970
September	6.4"	4-5	1975	5"	2	1964
September	5.3"	5	1965	4"	5	1978
September	5.0"	11	1983	3"	4-5	1975
September	4.9"	2	1964	2"	11	1983+
	4.0"	30	1971	4"	30	1971
	2.2"	17	1965	1"	17	1965
	1.0"	18	1978			
October	18.4"	17-18	1984	14"	18	1984
October						
	8.5"	31	1971	8"	31	1972
	6.7"	31-1	1956	6"	24	1956
	6.3"	28	1961	4"	29	1972
November	11.0"	17	1930	11"	19	1985
	9.9"	14-15	1958	10"	15-16	1958
	9.3"	12-13	1994	9"	23-24	1992
	8.8"	18-19	1985	8"	15	1955
	7.5"	19-20	1992	7"	26-27	1973+
	7.0"	20	1946			
December	18.1"	28-29	1972	16"	28	1948
	13.4"	16-17	1970	15"	29	1972
	10.7"	7-8	1985	14"	25	1932
	10.5"	27-28	1948	13"	25-28	1983+
Greatest	18.4"	October 17	7-18 1984	25"	January	12 1993

+ Also occurred in earlier years.

Greatest snow depth in a given snow episode.

EARLIEST AND LATEST DATE AND AMOUNT OF MEASURABLE SNOWFALL (0.1 INCH OR MORE) AND THE AVERAGE DATE OF THE FIRST MEASURABLE SNOWFALL

Earliest Fall Date and amount of Snowfall		Latest Fall Date and Snowfall		Latest Spring Date and amount of Snowfall		
Date	Amount (Inches)	Date	Amount (Inches)	Date	Amount (Inches)	
September 17, 1965	2.2"	December 25, 1943*	5.9"	May 18, 1977	0.5"	
September 18, 1978	1.0"	December 25, 1939	0.5"	May 18, 1960	1.0"	
September 30, 1971	4.0"	December 23, 1937	1.0"	May 17, 1971	1.4"	
October 11, 1997	0.3"	December 9, 1949	3.6"	May 15, 1978	4.4"	
October 13, 1966	3.6"	December 7, 1974+	2.4"	May 11, 1983	5.0"	
October 14, 1969	0.1"	December 4, 1976	0.3"	May 11, 1967	1.0"	
October 15, 1984	0.2"			May 10, 1953	0.1"	
October 20, 1996	2.5"	×.		May 8, 1993	1.0"	
October 20, 1949	1.0"			May 8, 1930	1.0"	
October 22, 1995	0.5"					

1928 - 1997

Average Date of first snowfall......November 6th (1928-1997) Average Date of last snowfall.....April 18th.

TABLE 48

GREATEST NUMBER OF CONSECUTIVE DAYS WITH 1.0 INCH OR MORE OF SNOW ON THE GROUND 1928 - 1997

Days	Period
86	November 17, 1930 - February 11, 1931
83	December 20, 1983 - March 11, 1984
82	December 9, 1932 - February 28, 1933
77	December 14, 1948 - February 28, 1949
66	December 22, 1988 - February 25, 1989
61	January 9, 1985 - March 10, 1985
57	December 13, 1990 - February 7, 1991
54	December 28, 1972 - February 19, 1973
54	January 3, 1955 - February 25, 1955
52	December 30, 1992 - February 19, 1993

AVERAGE, MAXIMUM AND MINIMUM NUMBER OF DAYS WITH MEASURABLE SNOWFALL BY SEASON 1928-1929 through 1996-97

Maximum N	Number of Days	Average Number	Minimum Number of Days		
Days	Season	of Days	Days	Season	
63	1983-1984	· · · · · · · · · · · · · · · · · · ·	. 9	1939-1940	
56	1992-1993	1	11	1933-1934	
52	1973-1974	36	18	1946-1947	
51	1963-1964		21	1958-1959	
50	1978-1979+	1 -	22	1962-1963+	
48	1984-1985+	1	23	1993-94+	

TABLE 50MAXIMUM SNOWFALL FROM ANY SINGLE STORM#1928 - 1997

	Duration	of snowfall
Amount in Inches	Began	Ended
23.3"	1:10 pm January 6, 1993	11:05 am January 10, 1993
21.6"	March 12, 1944	March 15, 1944
19.8"	1:30 pm January 24, 1996	11:18 pm January 25, 1996
18.4"	5:04 am October 17, 1984	10:35 am October 18, 1984
18.1"	1:03 pm December 28, 1972	1:30 pm December 29, 1972
17.4"	5:43 am March 1, 1977	3:35 am March 3, 1977
17.4"	6:02 pm April 9, 1974	8:20 pm April 10, 1974

#Storm total not limited to 24 hours.

AVERAGE, MAXIMUM AND MINIMUM NUMBER OF DAYS WITH MEASURABLE SNOWFALL 1928 - 1997

Monthly	Monthly	Maximum	Monthly Minimum			
Average	Days	Year	Days	Year		
September Average *	1	1978+	0	1995 +		
October Average *	6 4 3	1971 1984 1996 +	0	1994+		
November Average 4	13 11 10 9 8 7	1994 1985 1975 + 1988 + 1978 + 1992 +	0 1	1976 + 1995 +		
December Average 8	21 15 14 13 12	1983 1951 + 1970 + 1973 + 1969 +	1 2	1962 + 1995 +		
January Average 9	19 17 16 15 14	1993 1979 1937 1949 1932	1 2 3 4	1961 1953 + 1940 + 1994 +		
February Average 6	15 12 11 10	1993 + 1960 + 1985 1984	0 · · 1 2	1953 1973 + 1991 +		
March Average 5	17 15 13 12 11	1977 1964 1952 1944 1938	0 1 2	1993 + 1994 + 1991 +		
April Average 3	11 8 7 6	1970 1984 1991 + 1967	0 1	1989 + 1994 +		
May Average *	3 2	1975 1993 +	0	1995 +		

* The average number of days with measurable snowfall is less than 1 day.

AVERAGE AND MAXIMUM NUMBER OF DAYS WITH SNOWFALL (INCLUDING ICE PELLETS) OF 1 INCH OR MORE AND 3 INCHES OR MORE

	Sno	owfall 1 inch or 1 1928-1997	more	Snow	vfall 3 inches or 1951-1997	more	
Month	Average	Maximu	ım Number	Average	Maximum Number		
	Days	Days	Year	Days	Days	Year	
September	*	1	1978+	. * ·	1	1971	
October	*	3 2 1	1996 + 1991 + 1973 +	*	2 1	1984+ 1972+	
November	2	10 8 7 6	1994 1985 1931 1975 +	1	5 3 2	1994+ 1978+ 1992+	
December	4	15 9 8	1983 1932 1972+	2	5 4 3	1972+ 1982+ 1970+	
January	4	11 9 7	1993 1949 + 1967 +	2	5 4 3	1993 + 1965 1980 +	
February	3	8 7 6	1989 + 1976 1979 +	1	4 3 2	1969 1995 1993 +	
March	3	10 9 8	1964 1977+ 1962	1	5 4 3	1977 1952 1980+	
April	1	6 5 4	1974 1984 + 1991 +	1	4 3 2	1984 + 1974 + 1995 +	
May	*	3	1975 1993 +	*	1	1983 +	
Season	18	32 27 26 25 24	1983-84+ 1975-76 1992-93+ 1932-33 1994-95	8	15 14 13 12 11	1951-52 1973-74 1994-95 1968-69 + 1992-93	

* Average is less than 1/2 day.

+ Also occurred in earlier years.

Snowfall season extends from July 1 through June 30.

TABLE 53
AVERAGE AND GREATEST NUMBER OF DAYS
WITH THUNDERSTORMS AND HAIL
1928 - 1997

		Thunderstorms			Hail				
Month	Average Days	Greatest Days	Year	Average Days	Greatest Days	Year			
January	0	2	1987+	0	2	1969+			
February	0	4	1936	0	2	1950			
March	1	5	1958	0	2	1961			
April	2	7	1930	1	3	1973+			
Мау	5	13	1980	1	3	1980+			
June	5	19	1967	1	4	1944			
July	7	14	1985+	0	2	1969			
August	8	16	1952+	0	2	1991+			
September	4	10	1937	. 0	2	1973			
October	2	6	1983+	0	2	1945			
November	0	3	1971+	0	1	1983+			
December	0	3	1964	0	3	1964			
Annual	34	57	1983+	3	13	1945			

+ Also occurred in earlier years.

Month	5 am MST	11 am MST	5 pm MST	11 pm MST
January	79%	71%	69%	79%
February	78%	64%	59%	77%
March	71%	52%	47%	68%
April	67%	44%	39%	61%
Мау	65%	39%	33%	58%
June	59%	31%	26%	49%
July	52%	27%	22%	42%
August	54%	30%	23%	45%
September	61%	35%	29%	54%
October	69%	43%	41%	66%
November	75%	58%	59%	74%
December	79%	70%	71%	79%
Annual	67%	47%	43%	63 %

AVERAGE RELATIVE HUMIDITY* BY TIME PERIODS 1951 - 1997

*Relative humidity is the most common form of measuring water vapor in the air. Expressed as a percentage, it denotes the amount of moisture in the air, compared to the maximum amount of moisture the air can hold at a given temperature. A relative humidity of 100% indicates a saturated air mass.

TABLE 55SUNSHINE, SKY COVER, AND HEAVY FOG

		SI	ky Cover (S	unrise- Suns	Heavy Fog			
			Avera	ge Number o	of Days			
Month	Avg. Pct of Possible Sunshine	Avg Amt of Sky Cover (tenths)	Clear	Partly Cloudy	Cloudy	Average Number of Days	Greatest Number of Days	Year
January	45%	7.3	5	6	19	5	21	1931
February	54%	7.1	5	7	16	2	13	1985
March	63%	6.7	7	8	16	0	5	1984
April	68%	6.4	7	9	14	0	2	1958
Мау	73%	5.7	9	10	12	0	2	1964
June	80%	4.3	14	10	6	0	0	
July	83%	3.6	17	10	4	0	0	
August	82%	3.7	16	11	5	0	0	
September	82%	3.7	17	8	5	0	0	
October	72%	4.7	14	8	9	0	1	1971+
November	53%	6.3	8	7	15	1	4	1968+
December	43%	7.2	6	7	18	4	14	1980
Annual	67%	5.6	125	101	139	12	37	1931

Period of Record:

Average percent of possible sunshine....

January through June: 1936-1939; 1942-1995.

July through November: 1935-1938; 1942-1995.

December: 1935-1938; 1941-1995.

Average amount of sky cover (sunrise to sunset): 1936-1995.

Average number of days of clear, partly cloudy, and cloudy and average number of days with heavy fog: 1929-1995. Greatest number of days with heavy fog: 1928-1995.

Sky cover is expressed in a range from 0 (for no clouds) to 10 (for sky completely covered by clouds).

Clear.....0/10 to 3/10 sky cover.

Partly cloudy....4/10 to 7/10 sky cover.

Heavy fog is defined as fog reducing visibility to 1/4 mile or less.

+ Also occurred in earlier years.

Total sunshine available at Salt Lake City is 267,341 minutes per year.

TABLE 56a

AVERAGE, MAXIMUM, AND MINIMUM NUMBER OF DAYS IN MONTH WITH CLEAR, PARTLY CLOUDY, AND CLOUDY SKIES JANUARY - JUNE

1928 - 1997

				CLI	EAR		PARTLY CLOUDY					CLOUDY			
MONTH	Avera ge	Ma	ximum/Year	м	inimum/Year	Average	м	aximum/Year	м	inimum/Year	Average	Ma	ximum/Year	мі	nimum/Year
		13	1961 +	0	1950		1 7	1930	1	1981 +		29	1967	8	1930
JAN	5	12	1968	1	1967+	6	13	1939	2	1978 +	19	28	1981	10	1961 .
		10	1948+	2	1981 +		1 2	1992	3	1986 +		26	1950	11	1935
		12	1964+	0	1979		1 5	1930	2	1993		26	1979	7	1935
FEB	5	10	1955+	2	1990+	7	1 2	1935	3	1989+	16	25	1962	9	1988+
		9	1988+				1	1980	4	1992+		21	1993+	10	1964
		14	1994	1	1949		1 5	1961 +	2	1960		24	1983+	7	1956+
MAR	7	12	1968 +	2	1984 +	8	1 3	1972+	3	1971 +	16	23	1949	-8	1939+
		11	1965	3	1983 +		1 2	1950	4	1995+		21	1989	9	1994
		15	1934	2	1991 +		1 9	1942	2	1951 ·		22	1995	6	1939+
APR	7	12	1977+	3	1995+	9	1 6	1938	4	1963	14	20	1965 +	7	1931
		11	1933 +	4	1993+		1 5	1932	5	1995+		19	1983 +	9	1985+
		19	1929	1	1962		1 8	1941 +	5	1990+		20	1977	2	1928
мау	9	18	1936	3	1995+	10	1 7	1960	6	1978+	12	19	1980	4	1939+
		17	1931	4	1981		1 6	1932	7	1984 +		18	1981 +	6	1969
		22	1935	4	1969		2 1	1930	3	1938		17	1964	0	1935 +
JUN	14	21	1929	7	1964+	10	1 5	1982+	5	1986+	6	12	1969+	2	1990+
		20	1974 +	8	1967		1 4	1969	6	1994 +		11	1948 +		

+ Also occurred in earlier years.

Clear skies defined as 0/10 to 3/10 sky cover. Partly cloudy skies defined as 4/10 to 7/10 sky cover. Cloudy skies defined as 8/10 to 10/10 sky cover.

TABLE 56b AVERAGE, MAXIMUM, AND MINIMUM NUMBER OF DAYS IN MONTH WITH CLEAR, PARTLY CLOUDY, AND CLOUDY SKIES JULY - DECEMBER 1928 - 1997

(CLEAR			P	ART	LY CLOU	JDY		CLOUDY			ر 	
MONTH	Average	Maxi	mum/Year	Min	imum/Year	Average	Max	cimum/Year	Mini	imum/Year	Average	Maxi	mum/Year	Mini	mum/Year
		25	1978	9	1987+		19	1960	3	1955		10	1987	0	1956+
JUL	17	24	1955+	10	1966+	10	17	1966+	4	1978+	4	9.	1985+	1	1969+
		23	1942+	11	1937		16	1984	5	1993+		7	1986+		
		26	1944	3	1930		19	1982	4	1933+		13	1930	0	1985+
AUG	16	25	1933+	4	1929	11	18	1929	5	1978+	5	11	1968	1	1974+
		23	1993 +	6	1982		17	1945 +	6	1993 +		10	1957	2	1995+
		27	1933	3	1940		17	1940	2	1933		15	1959	0	1962
SEP	17	26	1962+	7	1986	8	15	1976	3	1979+	5	14	1982	1	1974+
		25	1979+	8	1982		14	1978	4	1975+		13	1961		
		24	1952	5	1957		13	1963+	2	1942		17	1993	1	1929
ост	14	23	1933	7	1993 +	8	12	1995+	3	1994+	9	16	1972	2	1952
		21	1954	8	1982+		11	1957+	4	1991+		15	1994+	3	1965+
		22	1936	0	1988		13	1932	2	1944		24	1970	3	1929
NOV	8	19	1939+	2	1983	7	12	1967	3	1994+	15	23	1994+	4	1936
				3	1985+		11	1969+	4	1979+		22	1983	5	1954+
		15	1960	0	1950	_	13	1939	1	1985+		29	1983	9	1939
DEC	6	14	1959	1	1983+	7	12	1940+	3	1963 +	18	28	1950	10	1960
		13	1956+				11	1970	4	1982+		27	1985	11	1953+
		188	1933	88	1967		16 3	1930	70	1979		182	1983	87	1933
ANNUAL	125	162	1929	89	1981	101	13 4	1941	78	1964	139	172	1981	91	1939
		156	1952	94	1982		11 7	1967	83	1978+		163	1978+	96	1929

+ Also occurred in earlier years.

Cloudy skies defined as 8/10 to 10/10 sky cover. 80

Partly cloudy skies defined as 4/10 to 7/10 sky cover. Clear skies defined as 0/10 to 3/10 sky cover.

AVERAGE WIND SPEED, PREVAILING DIRECTION, FASTEST MILE, AND PEAK GUST

	*February 1930	0 - December 1997
	Average Speed MPH	Prevailing Direction (1)
January	7.5 mph	SSE
February	8.2 mph	SE
March	9.3 mph	SSE
April	9.6 mph	SE
Мау	9.5 mph	SE
June	9.4 mph	SSE
July	9.5 mph	SSE
August	9.7 mph	SSE
September	9.1 mph	SE
October	8.5 mph	SE
November	8.0 mph	SSE
December	7.5 mph	SSE
Annual	8.8 mph	SSE

		*July 1935 - I	December 199	97	*/	August 1954 -	December 1	997			
		Fastest	Mile (2)		Peak Gust (3)						
	Speed MPH	Direction	Day	Year	Speed MPH	Direction	Day	Year			
January	59(3)	NW	10	1980	69(3)	NW	10	1980			
February	56(3)	SE	18	1954	54(3)	S	1	1989+			
March	71(3)	NW	10	1954	62(3)	S	2	1974			
April	57	NW	11	1964	69	w	22	1961			
May	57	NW	21	1953	69(3)	SW	28	1989			
June	63	w	3	1963	94	NW	3	1963			
July	51	NW	25	1986	74	NW	18	1981			
August	58	sw	6	1946	74	NW	13	1978			
September	61(3)	w	3	1952	71(3)	NW	5	1972			
October	67(3)	NW	27	1950	71(3)	NW	5	1967			
November	63(3)	NW	11	1937	59(3)	NW	4	1968			
December	54	S	25	1955	60	N	15	1981			
Annual	71(3)	NW	March 10	1954	94	NW	June 3	1963			

+ Also occurred in earlier years. *Period of Record

- (1) The prevailing direction is the most frequent observed direction from which the wind blows during a specific time period.
- (2) Fastest mile is the fastest one minute observed wind speed taken from a multiple register that contains a time record of the passing of each mile of wind.
- (3) Wind gusts are reported when rapid fluctuations in wind speed result in a variation of 10 kts (11mph) or more between peaks and lulls. The duration of each gust is usually less than 20 seconds.

An official wind gust must be recorded on an instantaneous wind-speed recorder. This type of instrument was not available at Salt Lake International Airport until August 15, 1954. Hence, the periods of record for fastest mile and peak gust differ, and should be taken into account when using this table. (Note that the record fastest mile for March is much higher than the record peak gust. This is because an actual measurement of the gust on an instantaneous wind-speed recorder was not available at that time.)

TABLE 58PRESSURE RECORDS

		SEA	LEVEL PRESS 1928 - 1997	URE		
Month	Highest	Day	Year	Lowest	Day	Year
January	31.01	1	1979	29.04	12	1932
February	30.83	8	1989+	29.08	6	1937
March	30.78	11	1951	29.07	2	1989
April	30.58	6	1939	29.14	22	1960+
May	30.50	15	1970	29.11	-29	1988
June	30.39	15	1981	29.17	22	1944
July	30.36	12	1989	29.30	4	1986
August	30.33	31	1987	29.39	31	1944
September	30.52	25	1970	29.33	4	1970
October	30.67	31	1981	29.23	29	1935
November	30.89	23	1938	29.02	30	1982
December	31.09	8,9	1956	29.01	1	1982
Extremes	31.09	December 8,9	1956	29.01	December 1	1982

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	STATION PRESSURE 1928 - 1997											
Month	Average	Highest	Day	Year	Lowest	Day	Year					
January	25.84	26.39	28	1962	24.85	12	1932					
February	25.79	26.38	12	1943	24.92	6	1937					
March	25.68	26.30	11	1951	24.99	10	1954+					
April	25.68	26.19	6	1939	25.03	11	1935					
May	25.66	26.14	15	1970	25.16	23	1953					
June	25.69	26.04	22	1964	25.11	. 8	1944					
July	25.73	26.07	8	1959	25.30	8	1954					
August	25.74	26.01	20	1961	25.32	29	1932					
September	25.76	26.16	25	1970	25.25	2	1936					
October	25.79	26.26	19	1964	25.12	29	1935					
November	25.79	26.38	23	1938	25.10	15	1952					
December	25.83	26.43	8,9	1956	24.98	30	1951					
Extremes	25.75	26.43	December 8,9	1956	24.85	January 12	1932					

+Also occurred in earlier years.

*Highest and lowest station pressure tabulations discontinued January 1971.

The average station pressure values in this table have been continued through the present.

TABLE 58a AVERAGE MONTHLY STATION PRESSURE REDUCED TO SEA LEVEL

January	30.16	May	29.96	September	30.07
February	30.11	June	29.99	October	30.11
March	29.98	July	30.04	November	30.11
April	29.98	August	30.05	December	30.15

Annual 30.06

TABLE 59 NORMAL, HIGHEST AND LOWEST HEATING DEGREE DAYS BY MONTHS AND YEAR OF OCCURRENCE (BASE 65 DEGREES) 7

1928 - 19	97
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Month	Normal	Highest	Year	Lowest	Year
July	ly 0		1938	0	1995+
August	gust 0		1968	0	1995+
September	108	239	1965	7	1979
October	373	573	1946	158	1988
November	726	995	1930	559	1995
December	1094	1459	1932	835	1977
January	1150	1658	1949	784	1953
February	865	1363	1933	637	1934
March	719	1016	1964	484	. 1934
April	464	619	1970	268	1934
Мау	215	415	1933	56	1934
June	51	185	1945	0	1977
Annual	5765	6875	1932	4590	1934

TABLE 60

NORMAL HIGHEST AND LOWEST COOLING DEGREE DAYS BY MONTHS AND YEAR OF OCCURRENCE (BASE 65 DEGREE) 1928 - 1997

Month	Normal	Highest	Year	Lowest	Year
January	anuary O			0	
February 0		0		0	
March	0	0		0	
April	0	25	1987	0	1993+
May	23	181	1934	0	1953
June	174	334	1988	40	1945
July	400	510	1960	178	1993
August	329	489	1940	185	1928
September	114	208	1979	21	1965
October	7	29	1963	0	1994+
November	• 0	0		0	
December	0	0		0	
Annual	1047	1549	1994	616	1965

Climatological Normals based on the (1961-1990) period.

+ Also occurred in earlier years.

NOTE: Heating and cooling degree days are used as an indication of fuel and energy consumption. One heating or cooling degree day is given for each degree that the daily mean temperature departs below or above 65 degrees respectively.

WARMEST AND COLDEST SUMMER SEASONS (JUNE, JULY, AUGUST) WITH THEIR AVERAGE MEAN TEMPERATURE AND AMOUNT OF PRECIPITATION RECEIVED DURING THE PERIOD 1928 - 1997

	Warmest		-	cal Normals		Coldest		
Year	Mean Temperature	Precipitation (Inches)	for Summ	er Season	Year	Mean Temperature	Precipitation (Inches)	
1994	78.6	0.67"	Temperature	Precipitation	1993	68.7	2.98"	
1988	77.7	0.29"			1928	69.5	1.31"	
1961	77.5	1.83"			1945	69.9	7.93"	
1996	77.2	0.52"			1965	70.7	5.45"	
1985	76.6	2.18"	74.3	2.60"	1964	70.9	3.04"	
1940	76.1	0.59"			1944	70.9	2.82"	
1990	75.7	1.76"	1		1932	70.9	4.58"	
1974	75.6	0.78"			1951	71.0	4.05"	
1960	75.5	0.74"						

TABLE 62

WARMEST AND COLDEST WINTER SEASONS (DECEMBER, JANUARY, FEBRUARY) WITH THEIR AVERAGE MEAN TEMPERATURE, TOTAL SNOWFALL, AND DAYS WITH SNOW DURING THE PERIOD 1928-1929 TO 1996-1997

		Warmest			Coldest							
Year	Mean Temp				Year	Mean Temp	Total Snow (Inches)	#Days with Snow	Total Pcpn (Inches)			
1977-78	38.0	39.3"	28	5.21"	1932-33	19.5	66.2"	36	3.77"			
1933-34	37.9	13.6"	9	3.77"	1948-49	19.9	74.7"	36	5.58*			
1994-95	36.3	38.0"	22	4.32"	1930-31	23.5	15.0"	15	1.51"			
1937-38	36.3	15.9"	15	2.71"	1928-29	23.9	24.2"	25	2.13"			
1952-53	36.2	25.2"	8	4.28"	1931-32	23.9	41.9"	31	3.09"			
1969-70	35.8	22.7"	20	3.87"	1963-64	24.0	39.1"	30	2.06"			
1958-59	35.4	29.9"	15	3.55"	1972-73	24.9	59.7"	22	5.62"			

Climatological Normals for Winter Season											
Temperature	Temperature Snow (Inches) #Days with Snow Precipitation										
30.5 35.7" 23 3.74"											

Climatological Normals based on (1961-1990) period.

WARMEST AND COLDEST SPRING SEASONS (MARCH, APRIL, MAY) WITH THEIR AVERAGE MEAN TEMPERATURE AND AMOUNT OF PRECIPITATION RECEIVED DURING THE PERIOD 1928 - 1997

	Wa	armest			tological N			Coldest					
Year	Mean Temp	Precip (inches)	Snowfall (Inches)	IOF	Spring Se	ason	Year	Mean Temp -	Precip (Inches)	Snowfall (Inches)			
1934	57.5	0.93"	2.0"	Temp	Precip	Snow	1964	44.5	7.72"	40.7"			
1992	57.3	3.93"	0.6"				1933	45.5	5.69"	4.7"			
1987	53.8	4.72"	5.1"			20.0"	1955	46.4	3.59"	25.3"			
1994	53.6	5.51"	3.2"	50.2	5.83"		1942	46.5	6.03"	11.4"			
1989	53.5	4.06"	2.1"				1944	47.2	10.24"	37.2"			
1985	53.5	5.39"	8.7"				1945	47.4	3.76"	20.2"			
1940	53.3	2.69"	Т				1965	47.5	4.46"	8.8"			

TABLE 64

WARMEST AND COLDEST FALL SEASONS (SEPTEMBER, OCTOBER, NOVEMBER) WITH THEIR AVERAGE MEAN TEMPERATURE AND AMOUNT OF PRECIPITATION RECEIVED DURING THE PERIOD 1928 - 1997

	Wa	armest	-	1	tological N		Coldest					
Year	Mean Temp	Precip (inches)	Snowfall (Inches)	fo	r Fall Sea	son	Year	Mean Temp	Precip (Inches)	Snowfall (Inches)		
1953	56.1	1.41"	0.4"	Temp	Precip	Snow	1930	48.0	5.08"	15.9"		
1990	55.8	2.49"	4.8"				1971	48.3	6.01"	26.0"		
1983	55.6	4.88"	5.9"				1961	48.4	3.85"	19.4"		
1937	55.1	3.76"	Т	53.1	4.01"	8.8"	1946	49.4	5.35"	9.5"		
1995	55.0	2.71"	0.6"				1970	49.5	6.68"	1.0"		
1979	54.8	2.32"	4.6"				1941	49.6	4.62"	11.1"		
1933	54.6	1.49"	1.0"				1936	50.1	2.84"	6.5"		

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TABLE 65HOLIDAY WEATHER INFORMATION1929 - 1997

	Avg Max Temp	Avg Min Temp	High Max Temp	Date	Low Max Temp	Date	High Min Temp	Date	Low Min Temp	Date	Chnc of .01 inch or more pcpn	Pct of days with 0.1 inch or more snow	Max 24 hour snow	Date
NEW YEARS DAY January 1	35	19	58.1	1943	14.2	1979	42.0	1934	-4.0	1931	25%	22%	4.6"	1937
PRESIDENTS DAY February 18 - February 25	46	26	64.8	1958	29.1	1955	42.9	1982	5.9	1975	33 <i>%</i> #	21% *	2.7"	1942
EASTER SEASON March 15 - April 15	57	35	83.7	4/7 1930	27.2	3/27 1975	61.8	4/12 1992	10.0	3/19 1965	30% #	13 % *	11.8	4/10 1974
MEMORIAL DAY Last Monday in May	76	49	92.7	5/31 1956 +	52.0	5/30 1937	66.6	5/27 1974	32.4	5/28 1954	26% #			
INDEPENDENCE DAY July 4	90	62	101.8	1936	72.1	1993	70.9	1988	46.7	1938	10%			
PIONEER DAY July 24	94	65	105.4	1931	73.5	1993	77.2	1953	50.2	1954	17%			
LABOR DAY First Monday in September	84	56	98.0	9/4 1950	57.3	9/1 1973	71.3	9/4 1978	38.6	9/3 1961	17% #			
UTAH STATE FAIR September 1 - 15	83	54	100.0	9/8 1979	54.9	9/5 1970	73.1	9/5 1978	32.2	9/13 1928	16% #			
HALLOWEEN October 31	59	36	72.0	1990	35.1	1971	53.2	1990	17.5	1935	28%	6%	8.5"	1971
THANKSGIVING DAY November 22 -28	46	28	68.6	11/ 25 1960	22.5	11/ 24 1931	46.9	11/ 24 1960	0.0	11/ 24 1931	26 <i>%</i> #	19% *	7.0"	11/ 26 1973
CHRISTMAS DAY December 25	36	20	59.2	1955	18.1	1990	46.0	1955	-6.7	1930	34%	30%	5.9"	1943

These percentages relative to the probability of precipitation on any one day of the given period.

* These percentages relative to the probability of snowfall on any one day of the given period.

+ Also occurred on May 27, 1951.

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WHITE CHRISTMAS OCCURRENCES IN SALT LAKE CITY 1928-1997

NUMBER OF YEARS WITH TRACE OR MORE FALLING 34 OUT OF 70 YEARS=49% OF THE TIME

NUMBER OF YEARS WITH 0.1 INCH OR MORE FALLING 20 OUT OF 70 YEARS=29% OF THE TIME

NUMBER OF YEARS WITH 0.5 INCH OR MORE FALLING 14 OUT OF 70 YEARS=20% OF THE TIME

NUMBER OF YEARS WITH 1 INCH OR MORE FALLING 10 OUT OF 70 YEARS=14% OF THE TIME

NUMBER OF YEARS WITH 2 INCHES OR MORE FALLING 6 OUT OF 70 YEARS=9% OF THE TIME

NUMBER OF YEARS WITH 3 INCHES OR MORE FALLING 4 OUT OF 70 YEARS=6% OF THE TIME

NUMBER OF YEARS WITH 5 INCHES OR MORE FALLING 1 OUT OF 70 YEARS=1% OF THE TIME

NUMBER OF YEARS WITH TRACE OR MORE ON THE GROUND 46 OUT OF 70 YEARS=66% OF THE TIME

NUMBER OF YEARS WITH 1 INCH OR MORE ON THE GROUND 32 OUT OF 70 YEARS=46% OF THE TIME

NUMBER OF YEARS WITH 3 INCHES OR MORE ON THE GROUND 18 OUT OF 70 YEARS=26% OF THE TIME

NUMBER OF YEARS WITH 5 INCHES OR MORE ON THE GROUND 9 OUT OF 70 YEARS=13% OF THE TIME

NUMBER OF YEARS WITH 10 INCHES OR MORE ON THE GROUND 1 OUT OF 70 YEARS=1% OF THE TIME

NUMBER OF YEARS WITH NO SNOW FALLING OR ON THE GROUND 18 OUT OF 70 YEARS=26% OF THE TIME

NUMBER OF YEARS WITH NO SNOW ON THE GROUND 24 OUT OF 70 YEARS=34% OF THE TIME

NUMBER OF YEARS WITH A TRACE OR NO SNOW ON THE GROUND 38 OUT OF 70 YEARS=54% OF THE TIME

> NUMBER OF YEARS WITH NO SNOW FALLING 36 OUT OF 70 YEARS=51% OF THE TIME

NUMBER OF YEARS WITH A TRACE OR NO SNOW FALLING 50 OUT OF 70 YEARS=71% OF THE TIME

CLIMATOLOGICAL STATISTICS FOR CHRISTMAS DAY

Average Maximum Temperature 36 degrees. Average Minimum Temperature 20 degrees.

Highest Maximum Temperature Ever Recorded was 59 degrees in 1955. Lowest Minimum Temperature Ever Recorded was -7 degrees in 1930.

Lowest Maximum Temperature Ever Recorded was 18 degrees in 1990. Highest Minimum Temperature Ever Recorded was 46 degrees in 1955.

Greatest Snow Depth ever was 14 inches in 1932....but 13 inches was on the ground in 1983. Greatest 24-hour Snowfall on Christmas Day was 6 inches in 1943.

WIND CHILL CHART

Equivalent Temperature (°F)

-																		
r	Calm	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45
	5	32	27	22	16	11	6	0	-5	-10	-15	-21	-26	-31	-36	-42	-47	-52
	10	22	16	10	3	-3	-9	-15	-22	-27	-34	-40	-46	-52	-58	-64	-71	-77
	15	16	9	2	-5	-11	-18	-25	-31	-38	-45	-51	-58	-65	-72	-78	-85	-92
	20	12	4	-3	-10	-17	-24	-31	-39	-46	-53	-60	-67	-74	-81	-88	-95	-103
	25	8	1	-7	-15	-22	-29	-36	-44	-51	-59	-66	-74	-81	-88	-96	-103	-110
	30	6	-2	-10	-18	-25	-33	-41	-49	-56	-64	-71	-79	-86	-93	-101	-109	-116
	35	4	-4	-12	-20	-27	-35	-43	-52	-58	-67	-74	-82	-89	-97	-105	-113	-120
	40	3	-5	-13	-21	-29	-37	-45	-53	-60	-69	-76	-84	-92	-100	-107	-115	-123
	45	2	-6	-14	-22	-30	-38	-46	-54	-62	-70	-78	-85	-93	-102	-109	-117	-125

Wind Speed (mph)