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the CLIMATE of ARIZONA

ULTURAL EXPERIMENT STATION
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Summary

This bulletin is a summary of the climatic data of nearly 300 weather observing stations in Arizona. A study of the various tables will show a wide range in climates in different parts of the state. The warm dry weather found in southern Arizona during the winter months makes it a popular winter resort, while the cool areas in northern Arizona attract tourists during the summer.

The average annual precipitation for the state is 12.55 inches. The least amount of precipitation occurs in the southwestern part, where it averages about three inches. In contrast, the highest yearly precipitation (at Workman Creek) is slightly over 30 inches.

Extreme temperatures for Arizona are −33° and 127°F, recorded at Fort Valley (near Flagstaff) and Parker respectively.

Because of the favorable climate in Arizona, light industry is rapidly becoming an important part of the economy of the state.

The agriculturist takes advantage of the climate by choosing crops which are suited to the various temperature zones. For example, cotton yields are higher in the lower valleys where the period between spring and autumn frosts is long. Some farmers take advantage of the long growing seasons to double-crop their land, while still others may select a period which is climatically suited for the production of some particular crops. For example, the small grains which are grown in the winter in Arizona, grow in the summer in the midwest. Planting times of truck crops are governed by seasonal temperatures. Citrus is grown commercially in the areas where frosts are least likely to occur.

Since Arizona's agriculture is dependent upon irrigation water, its future will be closely linked to the amount of available water.

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THE CLIMATE OF ARIZONA

By H. V. Smith[1]

Introduction

Post-war population increases in the Southwest have exceeded, on a percentage basis, those for any other part of the United States. This can be attributed largely to the local climate which is particularly favorable to an expanding agricultural economy, to light industry, and makes the region attractive as a tourist and health resort area.

Arizona is large. Airline distance between Nogales and Fredonia, border towns in the southern and northern parts of the state, is about 385 miles. This range in latitude accounts for some range in climates, but differences in altitude are also responsible for great local climatic variations. So wide are the climatic variations portrayed in the tables in this bulletin that many climates found in other parts of the United States may be found here.

Apparently the first systematic weather records in Arizona were made in Territorial days at army posts. The oldest of these records recognized by the U. S. Weather Bureau are those started at Ft. Lowell, Tucson, in 1867. In 1872 the fort was moved to a new location eight miles northeast of the city where weather records were kept until 1890. These records were published in Arizona Agricultural Experiment Station Bulletins 130 and 197 and will not be repeated here.

In 1875 the U. S. Signal Corps established a weather observing station in Tucson and recorded the weather until 1891 when the University of Arizona took over the work. Weather measurement and observations have been made at the University of Arizona since 1891. Yuma and Prescott records date back almost as far as those at Tucson. The U. S. Weather Bureau was established in 1890, and soon a system of cooperative weather stations was set up. Shortly after the university opened, in 1891, a cooperative weather observing station was established on the campus. It has been in continuous operation since 1892.

The number of weather observing stations in Arizona has kept pace with the rapid development of the state. In 1930 a compilation of weather records for Arizona was published as Arizona Agricultural Experiment Station Bulletin 130. It listed about 90 official cooperative stations. In 1945 a second weather and climate bulletin was published as Arizona Agricultural Experiment Station Bulletin 197. At that time there were about 175 cooperative stations. This 1956 bulletin contains weather data from approximately 270 Arizona stations.

Recent changes in policy of the U. S. Weather Bureau have in some cases modified the method of reporting weather data. Normal temperatures are now defined as

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the 30-year average, with the base period 1921-1950, 1931-1960, etc. This makes it possible to compare the weather at various stations over the same period and also reduces the mass of data to be considered from the long-established stations.[2]

There are some inconsistencies in the method of determining length of growing season. Some observers report the last spring frost to be the latest day on which a temperature of 32° or below was recorded. Others report the date at which a killing frost actually occurs. The same practice has been followed for the autumn frosts. Because of these irregularities in the past, the Weather Bureau no longer reports dates of frost but reports dates of temperatures of 24° or lower, 28° or lower, and 32° and lower. Thus the user of the data is able to determine for himself under local conditions the critical temperature for his particular crop and exposure. Long time Weather Bureau figures are not available on this basis for all stations, so the earlier method of calculation is used in this bulletin.

[2]Variations between the averages by the two methods (Table 1) are relatively insignificant. However, since about one-third of the stations listed in the January, 1948, issue of *Climatological Data,* Arizona Section, were started since 1921, it was felt best to summarize all data at hand instead of for the period 1921-1950. A similar comparison of precipitation is made in Table 2.

A third Weather Bureau deviation from the present standard practice of reporting the days per month having a minimum precipitation is found in this bulletin. The former practice used 0.01 inch as the minimum. Now 0.1 inch is used. Inasmuch as records are not readily available by which the present method is used, the old method will continue to be used in this bulletin.

Arizona's Climates — And What Makes Them

It is not the purpose of this bulletin to explain meteorological phenomena but rather to summarize the various climates which do occur, to describe them, and to point out their significance. In this connection it should be pointed out that Arizona's climate is affected by latitude, interfering mountain ranges, and remoteness from any large body of water. Thornthwaite (12) has calculated the broad climatic provinces for the United States and has reported the following for Arizona:

TABLE 1. — 30 YEAR MEAN TEMPERATURE RECORDS COMPARED WITH 50 YEARS OR LONGER

STATION	YEARS OF RECORD	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Benson	1903-1953	45.5	49.4	54.4	60.5	67.0	77.3	80.9	78.8	73.9	63.8	53.0	46.2	62.6
	1921-1950	45.1	49.4	53.9	60.5	69.1	77.2	81.3	78.7	74.0	64.2	52.3	47.2	62.3
Bisbee	1895-1953	45.9	48.7	53.2	59.4	67.2	76.1	75.7	74.5	71.6	63.2	52.9	46.6	61.2
	1921-1950	45.9	49.7	53.9	60.8	68.4	76.8	77.1	75.2	72.1	64.2	53.9	47.6	62.1
Buckeye*	1893-1953	49.7	53.5	60.0	65.7	73.2	81.6	89.6	87.7	81.4	69.4	57.8	50.9	68.4
	1921-1950	50.0	54.9	59.8	66.5	75.6	83.6	90.9	89.4	83.4	70.5	58.2	51.9	69.6
Douglas	1903-1953	45.4	49.0	54.4	61.1	68.4	77.5	80.2	78.4	74.8	64.4	52.8	46.3	62.7
Smelter	1921-1950	44.7	49.2	53.9	61.2	69.0	77.6	80.5	78.4	74.6	64.6	52.8	46.8	62.8
Flagstaff	1898-1953	28.1	30.8	36.1	43.1	50.2	59.2	66.2	62.8	57.4	47.2	37.0	29.5	45.7
	1921-1950	27.6	30.8	36.6	43.8	51.1	59.6	66.5	64.6	57.7	48.4	37.6	30.8	46.2
Gila Bend	1903-1953	52.5	56.2	62.2	69.6	77.0	86.6	92.6	91.2	87.0	73.8	61.3	53.6	71.9
	1921-1950	52.4	57.4	62.6	70.1	78.1	86.5	92.8	91.2	86.1	74.2	61.1	54.8	72.2
Globe	1905-1953	43.6	47.8	53.1	60.1	67.4	76.8	82.2	80.3	75.2	63.8	51.4	44.2	62.3
	1921-1950	42.8	47.7	52.8	60.2	68.5	77.3	82.6	80.4	75.2	63.8	51.2	44.4	62.2
Holbrook	1903-1953	33.1	39.8	46.1	53.8	61.6	71.0	76.8	75.1	68.2	56.0	43.3	34.4	55.0
	1921-1950	32.6	39.6	46.2	54.5	62.5	71.3	77.2	75.3	68.8	56.6	43.1	34.5	55.2
Jerome	1897-1953	41.8	44.8	49.6	57.6	65.4	75.4	78.4	76.6	72.4	62.4	51.4	43.4	59.9
	1921-1950	41.3	44.2	49.6	57.6	66.3	75.0	79.1	76.5	72.5	62.7	51.4	43.3	60.0
Parker	1893-1953	49.7	55.4	61.4	68.7	75.7	84.7	92.0	90.6	83.4	69.0	58.4	50.6	70.0
	1921-1950	49.5	55.0	61.4	68.7	75.8	85.0	92.6	89.6	83.7	69.2	58.0	51.2	70.0
Roosevelt	1905-1953	46.5	51.7	57.4	65.4	74.2	83.6	88.5	86.4	81.0	69.2	57.3	48.6	67.4
	1921-1950	47.4	51.7	57.4	65.4	74.8	83.6	88.6	86.2	81.1	69.6	57.2	49.1	67.6

TABLE 2. — 30 YEAR PRECIPITATION RECORDS COMPARED WITH 50 YEARS OR LONGER

STATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Benson	1880-1953	0.55	0.76	0.50	0.19	0.12	0.34	2.28	2.61	1.26	0.60	0.52	0.69	11.48
	1921-1950	0.47	0.81	0.46	0.21	0.10	0.36	2.38	3.14	1.63	0.50	0.56	0.94	11.60
Bisbee	1889-1953	1.20	1.28	0.70	0.51	0.22	0.64	3.96	4.41	2.00	1.00	0.85	1.33	18.00
		1.10	1.27	0.79	0.39	0.17	0.91	4.02	4.35	2.38	0.98	0.73	1.53	18.62
Bowie	1899-1953	0.70	0.84	0.61	0.25	0.16	0.32	2.04	2.02	0.97	0.64	0.61	0.88	10.04
	1921-1950	0.56	0.73	0.53	0.24	0.14	0.28	1.84	1.84	1.14	0.53	0.50	0.97	9.30
Buckeye	1889-1953	0.82	0.74	0.70	0.31	0.10	0.09	1.00	1.08	0.64	0.42	0.63	0.93	7.44
	1921-1950	0.60	0.80	0.68	0.30	0.13	0.08	0.76	1.16	0.80	0.36	0.52	1.04	7.23
Douglas	1903-1953	0.66	0.69	0.49	0.27	0.19	0.50	3.11	2.82	1.25	0.74	0.66	0.84	12.22
Smelter	1921-1950	0.55	0.64	0.40	0.21	0.13	0.52	3.34	2.81	1.48	0.75	0.46	0.82	12.11
Flagstaff	1898-1953	1.92	1.91	1.86	1.28	0.65	0.47	2.85	2.91	1.67	1.48	1.24	1.72	19.96
	1921-1950	1.70	1.74	1.57	1.26	0.53	0.53	2.44	2.59	1.85	1.46	0.90	1.85	18.42
Gila Bend	1903-1953	0.58	0.56	0.65	0.13	0.11	0.05	0.75	1.04	0.53	0.32	0.50	0.70	6.02
	1921-1950	0.53	0.45	0.66	0.25	0.12	0.04	0.81	1.26	0.59	0.32	0.53	0.65	6.21
Globe	1905-1953	1.57	1.48	1.29	0.73	0.32	0.39	2.69	2.54	1.32	0.92	1.14	1.71	16.10
	1921-1950	1.26	1.42	1.14	0.69	0.32	0.40	2.44	2.58	1.42	0.77	0.93	1.76	15.13
Holbrook	1903-1953	0.55	0.61	0.56	0.55	0.27	0.41	1.66	1.45	1.03	0.62	0.58	0.56	8.85
	1921-1950	0.37	0.54	0.53	0.43	0.29	0.46	1.31	1.45	1.20	0.50	0.43	0.51	8.02
Jerome	1897-1953	1.81	1.87	1.57	1.18	0.48	0.34	2.49	2.93	1.42	1.16	1.18	1.73	18.16
	1921-1950	1.52	1.77	1.27	1.16	0.43	0.31	2.01	2.74	1.59	1.06	0.93	1.93	16.82
Parker	1893-1953	0.72	0.60	0.48	0.22	0.07	0.04	0.41	0.68	0.48	0.29	0.38	0.67	5.04
	1921-1950	0.48	0.63	0.53	0.26	0.02	0.02	0.27	0.58	0.62	0.32	0.23	0.89	4.85
Natural	1890-1953	2.45	2.80	2.38	1.44	0.54	0.39	2.69	3.37	2.09	1.53	1.81	2.40	23.89
Bridge	1921-1950	1.98	2.98	2.35	1.56	0.49	0.50	2.51	3.37	2.37	1.58	1.67	3.01	24.37
	1889-1898													
Payson	1909-1953	2.41	2.38	2.03	1.13	0.37	0.43	2.41	3.12	1.96	1.42	1.52	2.20	21.38
	1921-1950	1.83	2.27	1.82	1.23	0.37	0.55	2.29	3.19	2.25	1.25	1.47	2.16	20.68
Pinal	1893-1953	3.00	2.89	2.53	1.08	0.41	0.39	2.71	3.34	2.06	1.32	1.98	3.12	24.83
Ranch	1921-1950	2.37	2.99	2.39	1.14	0.41	0.31	2.60	3.14	2.14	1.36	1.77	3.54	24.16
Roosevelt	1905-1953	1.97	2.07	1.80	0.94	0.30	0.37	1.60	2.00	1.25	0.94	1.26	2.06	16.56
	1921-1950	1.54	1.98	1.59	0.85	0.33	0.34	1.36	1.80	1.48	0.86	1.08	2.20	15.41
San Carlos	1881-1953	1.33	1.42	1.15	0.52	0.25	0.26	1.70	2.08	1.04	0.77	0.96	1.50	12.98
Resvr.	1921-1950	1.06	1.33	1.10	0.55	0.24	0.34	1.65	1.60	1.20	0.55	1.01	1.63	12.26
Snowflake	1897-1953	0.77	0.72	0.75	0.69	0.46	0.54	2.18	2.49	1.42	0.87	0.64	0.70	12.23
	1921-1950	0.72	0.66	0.70	0.68	0.54	0.52	2.22	2.61	1.54	0.91	0.64	0.70	12.44
Willcox	1880-1953	0.81	0.92	0.74	0.22	0.23	0.33	2.23	2.54	1.14	0.65	0.65	0.90	11.36
	1921-1950	0.71	0.92	0.60	0.23	0.22	0.40	2.21	2.70	1.42	0.55	0.77	1.01	11.74
Walnut Grove	1889-1953	1.66	1.90	1.40	0.86	0.25	0.24	2.21	2.61	1.38	1.06	1.21	1.87	16.65
	1921-1950	1.53	2.04	1.27	0.93	0.26	0.25	1.99	3.00	1.90	0.89	0.88	2.18	17.12
Wickenburg	1875-1886	1.25	1.09	0.76	0.58	0.17	0.08	1.18	2.01	0.92	0.56	0.95	1.45	11.00
	1908-1953													
	1921-1950	1.07	1.18	0.78	0.52	0.16	0.09	1.12	1.20	1.09	0.61	0.64	1.57	10.93

Table 3. Climatic Provinces Found in Arizona — after Thornthwaite.

Humidity province	Temperature province	Seasonal distribution of precipitation
1. Humid	Microthermal	Adequate at all seasons
2. Sub-humid	Microthermal	Deficient at all seasons
3. Semi arid	Mesothermal	" " " "
4. Semi arid	Microthermal	" " " "
5. Arid	Mesothermal	" " " "

According to Thornthwaite, portions of Arizona range from arid to humid and from the standpoint of temperature from warm-temperate to cold-temperate. Only a small part of the state is listed as having adequate precipitation at all seasons. If Thornthwaite's indices should be calculated for other Arizona weather observing stations at which extremes of temperatures and precipitation occur, an even wider range of climates undoubtedly would be found.

In general, precipitation is low and, in Southern Arizona especially, temperatures are high. Because of an unusual freedom from smoke, moisture, and clouds in the atmosphere, there is little hindrance to the sun's rays reaching the earth nor to the loss of heat at night. This explains the rather wide temperature ranges between day and night in Arizona. Located in the warm-temperature climatic zone, Southern Arizona has long, hot summers which might be even hotter if the summer rains of July and August did not occur and tend to check further temperature increases.

Temperature

There are two reasons for the great extremes of temperature in Arizona. The wide range in latitude is important, but of greater importance is the effect of differences in altitude. Weather recording stations are placed at a wide range of altitudes. The lowest is at 110 feet above sea level in the Yuma Valley and the highest at 8,400 feet at Bright Angel Ranger Station. (There are several precipitation measuring stations at higher elevations.) Arizona's highest temperatures occur along the Lower Colorado and Gila River drainages; the lowest temperatures at the high elevations in northern Arizona.

Frequently Arizona locations have the distinction of having both the warmest and coldest temperatures reported by the U. S. Weather Bureau for a single day.

Summer temperatures at Flagstaff are almost identical with those during the winter months at Yuma. The mean **maximum** temperature at Flagstaff parallels very closely the mean **minimum** temperature at Yuma throughout the year. Figure 1 illustrates this point. There are locations in Arizona having temperatures intermediate between Flagstaff and Yuma, thus having favorable year-around climates.

In this bulletin rather complete weather data are given for all weather stations operated by the university at the Experiment Station on the campus at Tucson and at the various Experiment Station farms throughout the state. Phoenix city records are given in the same detail as the records from the University of Arizona. Weather Bureau (15) averages show Phoenix to be three Fahrenheit degrees warmer than Tucson on an annual basis. The summers in Tucson are shorter and cooler than those in Phoenix. On the other hand, the winters in Phoenix are shorter and warmer than those in Tucson.

TABLE 4. — MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES, UNIVERSITY OF ARIZONA, 1892-1954

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1892	75	17	78	30	83	32	91	32	100	38	107	39	106	67	107	65	102	60	94	35	83	33	76	16	107	16
1893	73	23	80	31	92	30	91	36	98	42	107	55	107	64	102	62	99	50	92	38	84	29	76	22	107	22
1894	75	18	75	20	86	24	91	34	100	43	104	48	106	66	100	64	100	46	97	38	87	35	78	30	106	28
1895	76	27	84	29	92	30	95	31	102	48	108	45	106	63	106	61	107	50	93	38	83	27	85	14	108	14
1896	89	23	83	26	94	27	93	31	106	47	110	59	104	67	104	69	102	52	91	41	83	30	90	27	110	23
1897	71	26	80	25	80	22	94	30	98	52	105	50	103	65	101	66	99	62	92	29	89	28	80	16	105	16
1898	73	17	83	32	82	25	95	34	--	45	106	58	108	66	106	66	102	54	98	38	90	21	74	22	108	17
1899	74	20	79	17	88	26	92	36	98	32	106	48	107	68	104	62	107	52	93	32	88	32	78	22	107	17
1900	76	27	80	25	92	31	88	35	102	45	108	57	108	61	105	57	100	50	92	29	88	32	78	28	108	25
1892-1900:																										
Extremes	89	17	84	17	94	22	95	30	106	32	110	39	108	61	107	57	107	46	98	29	90	21	90	14	110	14
Mean Extremes	75.8	22.0	80.2	26.1	87.7	27.4	92.2	33.2	100.1	43.6	106.8	51.0	106.1	65.2	103.9	63.6	102.0	55.1	93.6	35.3	86.1	29.7	79.4	21.9	--	--
1901	76	19	82	31	86	25	92	28	97	41	108	48	108	66	106	63	104	49	98	46	85	36	83	10	108	10
1902	80	25	81	24	84	28	94	38	98	39	112	50	108	59	109	65	105	53	95	43	81	30	78	26	112	24
1903	76	27	76	24	82	24	92	37	102	42	108	57	106	61	108	65	104	50	93	35	88	35	78	21	108	21
1904	79	15	91	24	88	30	92	33	99	41	107	55	107	55	100	65	97	44	97	35	86	32	78	28	107	15
1905	67	26	70	28	74	36	79	36	97	39	102	52	107	62	107	66	103	45	96	40	82	31	72	11	107	11
1906	83	22	88	31	87	24	92	31	99	37	107	46	108	61	102	61	102	52	96	29	92	27	78	29	108	22
1907	76	26	82	27	95	24	96	35	101	42	107	50	111	65	102	63	102	45	96	42	85	30	78	20	111	20
1908	76	26	84	22	88	28	91	36	96	41	108	43	106	64	100	63	102	48	98	29	88	25	74	23	108	23
1909	82	29	76	23	81	25	91	30	96	41	106	53	108	64	102	62	100	52	96	36	91	26	79	17	110	17
1910	78	15	82	19	96	33	100	35	111	42	109	52	110	61	107	63	103	54	101	38	92	34	83	23	111	15
1901-1910:																										
Extremes	83	15	91	19	96	24	100	28	111	37	112	43	111	55	109	61	105	44	101	29	92	25	83	10	112	10
Mean Extremes	77.3	23.0	81.2	25.3	86.1	27.7	91.9	33.9	99.6	40.5	107.4	50.6	107.9	61.8	104.3	63.6	102.2	49.2	96.6	37.3	87.0	30.6	78.1	20.8	--	--
1911	83	16	83	27	88	35	90	38	97	43	107	51	106	49	106	63	101	62	95	41	80	24	85	19	107	16
1912	81	21	80	25	80	32	90	33	102	38	108	53	105	54	106	64	101	51	91	31	88	31	72	18	108	18
1913	72	6	76	28	90	26	90	36	101	38	105	49	109	58	103	63	102	43	94	40	85	35	74	28	109	6
1914	81	26	79	26	88	33	95	39	105	41	107	52	103	64	106	63	99	57	95	40	83	35	73	22	107	22
1915	70	22	77	28	80	30	89	36	98	37	106	50	109	67	110	67	102	44	95	44	88	26	82	19	110	19
1916	73	23	82	22	90	30	94	34	99	44	107	44	107	63	102	63	100	52	96	38	93	24	79	15	107	15
1917	72	28	80	27	88	23	91	28	96	39	110	48	107	65	102	55	103	50	101	36	88	30	82	22	110	22
1918	83	18	80	24	87	34	90	34	96	43	108	49	105	66	110	61	103	55	99	36	91	27	82	27	110	18
1919	74	20	78	26	86	29	96	38	97	49	111	50	103	64	105	65	100	54	86	35	83	26	77	28	111	20
1920	80	30	76	30	80	30	86	33	101	41	106	55	111	61	105	60	102	49	97	33	83	29	80	19	111	19
1911-1920:																										
Extremes	83	6	83	22	90	23	96	28	105	37	111	44	111	49	110	55	103	43	101	31	93	24	85	15	111	6
Mean Extremes	76.9	21.0	79.1	26.3	85.7	30.2	91.1	34.7	99.2	41.3	107.5	50.1	106.5	61.1	105.5	62.4	101.3	51.7	94.9	37.4	86.2	28.7	78.6	21.7	--	--
1921	81	22	91	23	89	35	93	32	98	40	109	49	106	64	103	64	101	53	99	35	85	19	85	27	109	19
1922	76	17	81	23	83	24	92	28	105	37	111	53	107	67	106	65	104	58	98	32	81	25	82	27	111	17
1923	83	19	82	25	82	28	89	37	101	43	110	50	108	66	99	63	100	44	94	34	74	28	73	27	110	19
1924	73	24	80	25	82	23	88	30	100	47	110	55	107	64	105	60	105	52	96	35	94	27	80	25	110	23
1925	80	18	86	33	91	29	99	32	104	47	106	46	109	62	103	61	100	53	100	42	80	29	75	24	109	18
1926	74	24	84	29	84	32	94	41	100	44	109	58	107	58	104	63	104	59	98	44	84	32	84	24	109	24
1927	88	28	82	34	86	31	96	38	103	43	108	49	106	67	106	65	102	51	96	41	88	35	77	24	108	24
1928	79	22	81	26	88	32	95	34	101	50	107	51	107	57	106	63	105	54	101	38	88	25	82	23	107	22
1929	77	22	78	26	86	29	91	33	99	43	111	52	106	69	102	67	102	59	101	32	84	29	79	23	111	22
1930	75	26	83	31	81	30	96	40	99	39	110	52	108	68	110	67	103	50	94	40	86	27	75	20	110	20
1921-1930:																										
Extremes	88	17	91	23	91	23	99	28	105	37	111	46	109	57	110	60	105	44	101	32	94	19	85	20	111	17
Mean Extremes	78.6	22.2	82.8	27.5	85.2	29.3	93.3	34.5	101.0	43.3	109.1	51.5	107.1	64.2	104.4	63.8	102.6	53.3	97.7	37.3	84.4	27.6	79.2	24.4	--	--

TABLE 4 --(Continued) MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES, UNIVERSITY OF ARIZONA — 1892-1954

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1931	75	23	79	32	89	29	89	44	98	46	105	55	108	66	102	66	101	49	94	41	91	27	74	23	108	23
1932	79	19	82	25	85	30	91	36	100	42	110	48	106	66	105	64	103	57	93	36	84	32	77	22	110	19
1933	75	26	80	18	86	28	88	33	103	38	111	51	106	67	109	63	104	56	98	48	87	29	84	23	111	18
1934	77	21	82	28	91	37	94	31	106	46	106	50	109	65	107	68	103	45	101	39	93	23	75	22	109	21
1935	84	21	85	29	82	29	93	34	94	43	106	50	106	59	103	64	101	56	99	33	86	27	78	25	106	21
1936	75	22	80	27	88	29	96	31	100	44	112	48	108	62	105	64	104	44	99	42	86	31	79	27	112	22
1937	72	15	79	26	83	31	97	35	102	41	106	53	110	66	106	64	102	61	97	46	88	33	77	31	110	15
1938	76	26	79	28	85	31	97	31	104	41	106	56	107	58	108	60	101	61	98	40	81	27	83	27	108	26
1939	80	26	78	25	89	28	95	40	100	49	107	55	106	69	104	65	104	49	92	42	91	35	85	24	107	24
1940	82	22	85	28	87	30	94	40	99	49	109	58	109	62	106	59	101	59	95	37	88	26	83	33	109	22
1931-1940:																										
Extremes	84	15	85	18	91	28	97	31	106	38	112	48	110	58	109	59	104	44	101	33	93	23	85	22	112	15
Mean Extremes	77.5	22.1	80.9	26.6	86.5	30.2	93.4	35.5	100.6	43.9	107.8	52.4	107.5	64.0	105.5	63.7	102.4	53.7	96.6	40.4	87.5	29.0	79.5	25.7	--	--
1941	73	28	84	36	84	36	88	32	100	43	106	52	108	61	102	64	102	45	95	35	84	26	81	26	108	26
1942	82	26	78	27	86	28	91	31	103	40	108	52	110	68	104	61	102	56	95	35	85	26	78	25	110	25
1943	75	23	89	25	91	33	102	37	100	42	105	51	110	63	103	65	106	56	94	36	83	28	74	26	110	23
1944	77	22	78	27	83	31	89	36	102	45	109	54	108	61	112	66	104	54	98	44	85	29	74	28	112	22
1945	75	27	78	28	85	31	98	29	97	47	105	51	106	66	106	67	110	44	92	34	87	26	72	19	110	19
1946	76	22	78	20	88	34	97	36	96	48	108	57	107	63	105	65	103	56	86	39	82	24	80	25	108	20
1947	78	22	82	27	88	32	94	38	105	47	106	53	111	66	106	67	107	60	100	40	92	26	76	24	111	22
1948	82	29	84	20	81	25	100	36	102	48	110	57	111	70	109	65	109	58	99	43	85	29	79	23	111	20
1949	69	16	85	23	91	33	100	39	107	47	110	54	108	68	109	63	108	65	96	34	89	35	78	22	110	16
1950	84	18	82	29	93	35	96	40	99	37	110	51	110	65	110	65	112	50	104	46	90	34	85	31	112	18
1941-1950:																										
Extremes	84	16	89	20	93	25	102	29	107	37	110	51	111	61	112	61	112	44	104	34	92	24	85	19	112	16
Mean Extremes	77.1	23.3	81.8	26.2	87.0	31.8	95.5	35.4	101.1	44.4	107.7	53.2	108.9	65.1	106.6	64.8	106.3	54.4	95.9	38.6	86.2	28.3	77.7	24.9	--	--
1951	84	28	90	27	84	25	95	38	109	42	107	52	109	67	106	63	106	59	99	42	83	34	80	26	109	25
1952	81	23	80	26	82	30	92	44	100	51	109	59	110	68	106	67	108	53	99	45	90	28	79	26	110	23
1953	89	28	83	22	91	31	97	35	100	41	112	52	112	68	108	66	107	50	102	38	92	24	80	24	112	22
1954	80	26	87	30	87	28	98	42	99	44	109	53	107	67	103	59	105	57	98	38	85	32	85	18	109	18
1892-1954:																										
Extremes	89	6	91	17	96	22	102	28	111	32	112	39	112	49	112	55	112	43	104	29	94	19	90	10	112	6
Mean Extremes	77.6	22.5	81.3	26.3	86.3	29.4	93.1	35.4	100.4	42.9	107.8	51.6	107.5	63.8	105.1	63.6	103.0	53.0	96.1	38.0	86.3	29.0	78.9	23.3	--	--
1921-1950:																										
Extremes	88	15	91	18	93	23	102	28	107	37	112	48	111	57	112	59	112	44	104	32	94	19	85	19	112	15
Mean Extremes	77.7	22.5	81.8	26.8	86.2	30.4	94.1	35.1	100.9	43.9	108.2	52.4	107.8	64.4	105.5	64.1	103.8	53.8	96.7	38.8	86.0	28.3	78.8	25.0	--	--

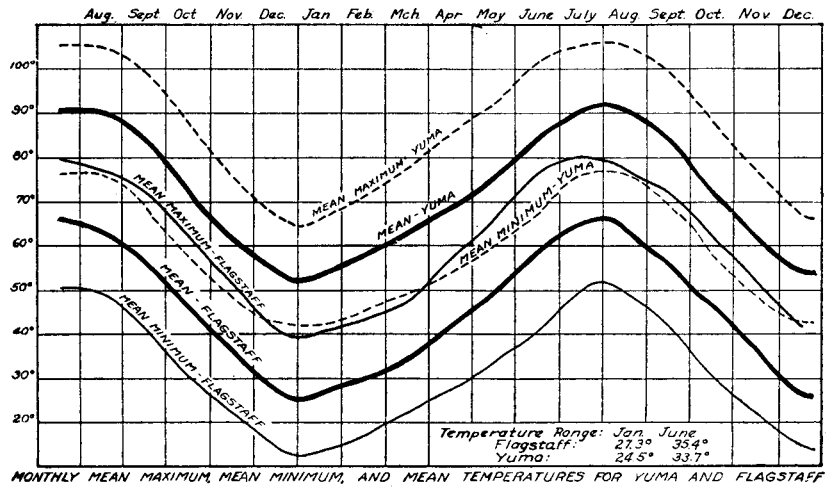


Figure 1 — Monthly mean maximum, mean minimum and mean temperatures for Yuma and Flagstaff.

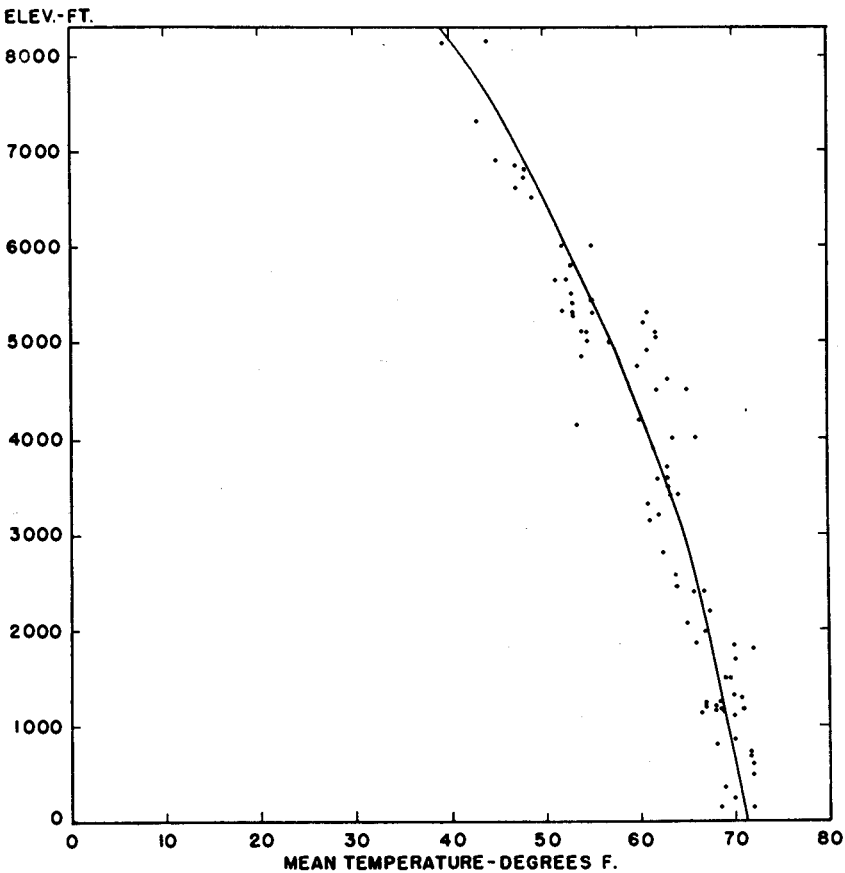


Figure 2. — Relationship between mean temperature and elevation.

TABLE 5. — EXTREME TEMPERATURES, PHOENIX, 1896-1953

MONTH	HIGHEST	YEAR	DAY OF MONTH	LOWEST	YEAR	DAY OF MONTH
January	84	1923	9	16	1913	7
February	92	1921	25	24	1899	7
March	95	1921	16	30	1917	4
April	103	1925	14	35	1922	10
May	114	1910	30	39	1899	3
June	118*	1929	24	49	1908	4
July	118	1925	16	63	1912	5
August	115	1933	10	58	1917	20
September	116	1950	1	49	1913	25
October	105	1917	6	36	1900	31
November	96	1924	2	27	1931	23
December	87	1950	10	22	1911	26

* Absolute highest (117.9).

In Tucson there is a 50-50 chance of temperatures of 108° every June and July (Table 4). The all-time high record for Tucson is 112°. This temperature has been reached five times during the months of June, July, August, and September since the university station was established in 1892, but the extreme low temperature of 6° has been reached only once during that period of over 60 years. The record low was on January 7, 1913. Tucson can expect at least one low temperature of 23° each December and January; however, ranges of extreme minimum temperatures of 18° to 28° are not uncommon.

In Phoenix the all-time high is 118° and the all-time low is 16° (Table 5). This temperature is 10° higher than that reported for Tucson on the same date — January 7, 1913. The average of the extreme high temperatures for July in Phoenix is 113°; and of the extreme low January temperatures, 25°.

Since records were first recorded, no summer has passed without a temperature of at least 105° in Tucson and 110° in Phoenix.

Extreme temperatures for the University of Arizona are given in Table 4, those for Phoenix in Table 5, and for the Experiment Station farms in Table 6. The extreme temperatures for all active weather stations are given in Table 7. The highest official temperature recorded in Arizona — 127° — was reported from Parker. The lowest temperature on record is 33° below zero, recorded at Fort Valley near Flagstaff. At least nine weather stations have reported maximum temperatures of 120° or greater, and at least two dozen stations have reported temperatures of 15° below zero or less. The high temperatures in general are reported from stations in the lower Gila-Colorado basin, while the lower ones are predominantly from northern stations of moderately high altitudes.

Temperatures as compared with those from other parts of the United States and the world are of concern to all interested in Arizona. A few such temperatures are given in Tables 9 and 10.

TABLE 6. — MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES. MESA EXPERIMENT FARM. 1917-1954

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1917	71	29	77	30	87	28	91	33	94	41	108	52	109	69	103	58	103	54	100	33	87	31	82	25	108	25
1918	80	23	79	28	86	38	92	37	95	44	113	51	106	63	109	56	--	49	97	35	89	26	81	24	113	23
1919	78	23	74	28	88	30	98	41	99	50	111	50	104	69	104	62	103	55	89	36	85	26	77	30	111	23
1920	80	31	76	34	82	32	94	36	104	43	109	50	110	59	105	56	102	44	97	35	82	29	78	21	110	21
1921	77	23	91	28	94	33	97	33	100	42	110	48	106	60	106	68	103	52	100	36	90	23	79	25	110	23
1922	87	24	80	25	87	24	92	30	106	44	113	48	111	68	105	68	104	56	99	30	83	23	78	27	113	23
1923	82	25	81	25	83	30	92	37	103	45	110	47	110	66	103	65	101	40	92	31	79	--	72	25	110	25
1924	73	24	83	29	82	32	91	32	101	51	111	56	107	60	105	55	103	60	96	49	--	28	76	28	111	24
1925	77	20	80	33	87	28	94	33	104	47	107	47	116	61	105	62	101	49	98	46	82	37	78	24	116	20
1926	72	20	83	31	86	35	95	48	102	46	114	55	112	57	114	56	102	50	96	42	86	32	79	21	114	20
1927	82	28	79	30	85	30	97	33	107	40	112	49	110	65	108	65	--	40	99	41	85	31	76	25	112	25
1928	78	22	80	32	90	36	97	30	103	50	108	58	112	60	109	60	107	51	100	36	85	26	80	26	112	22
1929	74	22	79	27	85	31	89	33	99	42	115	49	107	68	106	68	105	57	103	31	84	27	78	23	115	22
1930	75	23	86	32	84	32	97	39	99	39	106	49	108	67	107	64	106	48	93	40	88	26	73	19	108	19
1921-1930:																										
Extremes	87	20	91	25	94	24	97	30	107	39	115	47	116	57	114	55	107	40	103	30	90	23	80	19	116	19
Mean Extremes	77.7	23.1	82.2	29.2	86.3	31.1	94.1	34.8	102.4	44.6	110.6	50.6	109.9	63.2	106.8	63.1	103.6	50.0	97.6	38.2	84.7	28.1	76.9	24.3	--	--
1931	80	22	79	33	90	27	92	42	104	47	105	52	107	67	106	64	106	51	97	41	92	24	71	23	107	22
1932	76	19	83	25	83	28	92	34	100	40	108	48	106	66	106	56	106	57	95	41	86	33	76	21	108	19
1933	76	24	78	19	83	33	88	33	101	38	107	48	107	66	112	63	106	55	96	48	86	29	80	21	107	19
1934	75	25	81	33	91	41	97	35	108	48	105	50	112	69	111	69	107	46	101	38	94	25	81	20	112	20
1935	82	22	83	29	84	30	93	39	96	43	109	50	109	56	105	66	102	59	96	32	80	26	76	26	109	22
1936	76	24	82	28	89	32	100	33	110	47	112	51	113	61	109	66	107	50	102	43	88	37	76	30	113	24
1937	64	19	79	26	84	33	96	39	110	47	110	55	111	67	109	69	107	60	99	45	90	32	76	30	111	19
1938	77	27	80	28	76	31	98	32	108	43	111	53	111	60	111	51	106	58	98	32	81	22	82	27	111	22
1939	80	25	75	25	92	28	99	38	104	42	110	51	112	60	108	65	108	50	95	35	88	35	83	22	112	22
1940	83	20	82	26	89	32	95	40	105	45	115	53	112	60	113	60	106	60	97	44	86	32	84	31	115	20
1931-1940:																										
Extremes	83	19	75	19	92	28	100	32	110	38	115	48	113	56	113	51	108	46	95	32	94	22	84	20	115	19
Mean Extremes	76.9	22.7	80.2	27.2	86.1	31.5	95.0	36.0	104.6	44.0	109.2	51.1	110.0	63.2	108.9	62.9	106.1	54.6	97.6	39.9	87.1	29.5	78.5	25.1	--	--
1941	77	33	80	38	83	38	90	39	101	51	107	53	108	58	106	62	103	47	95	40	85	29	79	27	108	27
1942	76	25	76	26	89	29	91	39	105	43	110	53	112	69	105	59	105	58	97	41	85	33	81	29	112	25
1943	74	30	87	26	92	34	103	39	104	42	109	51	114	58	106	69	107	56	98	39	85	29	74	27	114	26
1944	78	25	79	28	81	28	89	36	98	44	110	46	108	58	112	62	107	57	101	44	89	26	74	27	112	25
1945	78	25	78	30	83	33	97	32	100	45	109	51	111	64	110	68	113	48	94	39	90	30	76	23	113	23
1946	76	24	81	25	87	31	100	39	99	51	109	57	111	66	110	67	107	60	88	39	79	28	80	27	111	24
1947	75	21	84	28	90	36	97	40	108	51	106	51	113	66	112	66	113	61	102	41	91	27	75	27	113	21
1948	80	20	82	20	81	30	97	38	103	44	110	53	111	68	111	64	112	57	101	46	83	26	76	21	111	20
1949	68	21	83	24	85	32	100	35	106	44	110	50	112	66	110	59	109	60	98	34	91	37	86	25	112	21
1950	83	15	82	33	90	38	98	38	101	42	109	43	112	65	110	63	112	52	102	46	89	35	85	31	112	15
1941-1950:																										
Extremes	83	15	87	20	90	28	103	32	108	42	110	43	114	58	112	59	113	47	102	34	91	26	86	21	114	15
Mean Extremes	76.5	23.9	81.2	27.8	86.1	32.9	96.2	37.5	102.5	45.7	108.9	50.8	111.2	63.8	109.2	63.9	108.8	55.6	97.6	40.9	86.7	30.0	78.6	26,3	--	--
1951	83	22	86	31	87	30	95	39	112	44	109	52	111	67	108	64	105	58	101	40	82	34	76	24	112	22
1952	75	24	80	25	83	30	96	41	103	51	110	59	111	69	109	67	110	51	100	45	89	28	78	27	111	24
1953	83	27	81	25	92	37	100	33	100	42	112	52	114	67	111	61	108	52	107	38	93	--	86	19	114	19
1954	82	28	89	34	89	28	102	41	100	41	112	50	112	71	108	58	106	59	99	36	88	36	80	21	112	21
1917-1954:																										
Extremes	87	19	91	19	94	24	100	30	112	38	115	43	116	56	114	51	113	40	107	30	94	22	86	19	116	15
Mean Extremes	77.4	23.8	81.0	28.3	86.3	32.6	95.3	35.4	102.7	44.7	109.5	51.1	110.2	64.1	108.1	62.6	106.1	53.3	97.8	39.2	86.4	29.4	78.4	24.9	--	--

TABLE 6. — MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES.

SAFFORD EXPERIMENT FARM. 1948-1954.

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1948	--	--	--	--	--	--	--	--	--	--	--	--	--	--	107	54	106	46	94	38	77	--	69	17	--	--
1949	64	10	79	21	86	24	96	32	103	38	105	46	105	57	104	51	107	52	--	--	83	26	74	17	107	10
1950	76	9	79	21	87	24	96	33	98	30	108	44	107	64	104	56	107	42	99	39	84	24	76	21	108	9
1951	74	19	81	16	82	19	92	32	107	33	106	40	107	61	104	57	98	45	93	32	76	23	78	15	107	15
1952	73	17	72	15	79	23	90	34	97	43	105	52	104	60	102	60	102	43	93	36	86	18	68	19	105	15
1953	75	18	78	12	89	26	92	26	98	30	107	43	110	65	106	53	101	39	98	30	84	17	74	13	110	12
1954	76	14	81	20	81	19	93	33	98	32	108	42	107	48	100	48	101	45	97	32	84	23	77	13	108	13
1948-1954:																										
Extremes	76	9	81	12	89	19	96	26	107	30	108	40	110	48	107	48	107	39	99	30	76	17	68	13	110	9
Mean Extremes	73.0	14.5	78.3	17.5	84.0	22.5	93.2	31.7	100.2	34.3	106.5	44.5	106.7	59.2	103.8	54.1	103.1	44.6	95.7	34.5	82.0	21.8	73.7	16.4	--	--

SALT RIVER VALLEY CITRUS EXPERIMENT FARM. 1944-1954.
(TEMPE)

1944	79	25	79	28	81	27	90	36	99	44	110	46	108	54	112	59	110	54	103	42	87	31	74	25	112	25
1945	73	24	76	27	83	29	97	37	98	48	109	50	110	61	104	64	113	42	96	34	88	24	75	22	113	22
1946	76	21	81	22	88	30	101	34	99	43	109	51	112	59	110	65	107	59	90	36	80	28	80	27	112	21
1947	76	20	85	29	88	32	96	34	108	46	107	53	113	58	110	65	113	58	102	40	90	25	75	23	113	20
1948	80	18	81	18	81	27	98	38	102	39	112	53	113	60	114	61	113	56	100	40	82	27	75	22	114	18
1949	68	20	83	24	85	30	101	34	106	48	110	50	113	65	112	58	109	58	98	34	92	37	86	24	113	20
1950	83	16	82	30	90	30	99	35	101	38	112	47	115	66	111	63	114	51	103	47	89	34	87	31	115	16
1951	84	23	87	27	88	28	96	37	113	41	109	51	112	65	109	64	105	58	100	41	81	31	79	24	113	23
1952	74	25	77	25	82	31	95	44	103	49	110	55	112	60	107	66	109	47	101	45	88	28	76	25	112	25
1953	81	29	82	23	90	31	99	33	99	39	111	48	111	69	110	58	109	52	106	37	91	25	85	21	111	21
1954	81	27	87	32	88	28	99	40	101	42	110	48	112	70	110	59	108	55	101	34	89	34	82	20	112	20
1944-1954:																										
Extremes	84	16	87	18	90	28	101	33	113	38	112	46	115	54	114	58	114	42	106	34	92	24	74	21	115	16
Mean Extremes	77.7	22.5	81.8	25.9	85.8	29.4	97.4	36.5	102.6	43.4	109.9	50.2	111.9	62.4	109.9	62.0	110.0	53.6	100.0	39.1	87.0	29.4	79.4	24.0	--	--

CAMPBELL AVENUE FARM. 1949-1954.
(TUCSON)

1949	--	--	84	--	88	27	96	36	106	40	107	46	106	62	106	54	105	58	99	27	90	28	87	17	--	--
1950	88	9	83	21	94	29	97	36	98	31	107	47	107	61	109	61	109	45	102	41	90	28	85	25	109	9
1951	83	23	90	21	83	19	93	33	108	39	107	46	109	66	105	57	105	54	99	40	83	28	80	21	109	19
1952	79	19	77	20	81	25	92	40	100	45	108	53	110	60	105	58	107	45	100	39	90	25	77	22	110	19
1953	90	24	82	15	90	26	96	30	98	34	112	46	109	67	107	60	106	45	100	34	90	20	78	18	112	15
1954	79	19	86	25	86	22	96	37	98	39	111	47	108	64	106	52	107	49	100	36	87	27	88	15	111	15
1949-1954:																										
Extremes	90	9	90	15	94	19	97	30	108	31	112	46	110	60	109	52	109	45	102	27	90	20	88	15	112	9
Mean Extremes	83.8	18.8	83.6	20.4	87.0	24.7	95.0	35.3	101.3	38.0	108.7	47.5	108.2	63.3	106.3	57.0	106.5	49.3	100.0	36.2	88.3	26.0	82.5	19.7	--	--

TABLE 6. — MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES. YUMA CITRUS STATION. 1920-1954.

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1920	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	107	56	97	42	83	38	74	28	--	--
1921	78	27	91	36	91	43	101	34	103	45	109	52	110	60	111	70	110	59	100	45	90	33	77	37	111	27
1922	72	27	81	--	86	34	94	36	106	46	108	50	111	--	110	73	111	59	102	41	83	34	76	36	111	27
1923	86	30	87	29	89	34	96	43	107	49	114	53	110	71	108	67	111	52	98	42	85	35	78	34	114	29
1924	81	28	88	37	85	36	95	38	107	57	111	59	111	64	111	63	110	58	100	41	98	36	82	30	111	28
1925	83	28	86	37	94	33	104	40	105	53	112	50	116	67	110	69	103	55	101	50	85	33	78	35	116	28
1926	77	27	87	39	94	27	105	48	104	49	114	59	112	61	110	65	106	59	100	50	91	39	79	29	114	27
1927	77	33	87	36	94	39	103	37	113	46	110	57	113	61	116	69	108	57	100	50	87	43	80	30	116	30
1928	83	31	83	32	95	40	98	39	107	50	114	57	115	64	115	67	112	61	103	45	86	35	77	31	115	31
1929	77	24	87	29	89	37	94	34	103	52	117	55	113	72	113	72	111	60	106	40	88	35	--	36	117	24
1930	--	27	88	34	92	39	102	46	102	42	112	54	114	--	111	66	110	56	99	47	91	33	75	28	114	27
1921-1930:																										
Extremes	86	24	91	29	95	43	105	34	113	42	117	50	116	60	116	63	112	52	106	50	98	33	82	28	117	24
Mean Extremes	79.3	28.2	86.5	34.3	90.9	36.2	99.2	39.5	105.7	48.9	112.1	54.6	112 4	65.0	111.5	68.1	109.0	57.6	100.9	45.1	88.4	35.6	78.0	32.6	--	--
1931	82	28	78	37	96	34	102	51	109	54	111	58	115	74	114	71	107	56	98	47	93	29	70	31	115	28
1932	71	25	85	30	91	39	99	42	106	47	110	56	112	65	113	67	112	59	99	48	86	42	79	30	113	25
1933	76	29	77	29	88	38	97	37	106	43	111	54	116	67	118	68	110	60	106	56	88	38	79	30	118	29
1934	80	34	86	40	98	47	101	42	112	51	108	55	115	69	112	74	111	51	105	46	92	37	79	32	115	32
1935	82	31	86	36	87	36	96	39	102	48	112	58	111	63	113	71	109	63	99	43	83	37	80	37	113	31
1936	77	32	84	34	93	36	102	40	106	51	114	51	115	62	112	70	109	55	105	50	88	39	78	30	115	30
1937	68	19	82	30	90	38	103	44	110	48	110	58	115	71	114	70	112	60	99	52	90	42	81	33	115	19
1938	77	32	80	35	85	38	101	41	108	49	111	59	112	63	113	63	108	66	99	43	82	33	83	37	113	32
1939	73	35	78	29	93	35	--	44	107	54	112	56	115	66	110	74	111	58	95	47	91	43	83	32	115	29
1940	82	34	85	34	90	38	100	45	105	55	114	59	115	64	113	66	109	63	99	45	88	37	83	34	115	34
1931-1940:																										
Extremes	82	19	86	29	98	34	103	37	112	43	114	51	116	62	118	63	112	51	106	43	93	29	83	30	118	19
Mean Extremes	76.8	29.9	82.1	33.4	91.1	37.9	100.1	42.5	107.1	50.0	111.3	56.4	114.1	66.4	113.2	69.4	109.8	59.1	100.4	47.7	88.1	37.7	79.5	32.6	--	--
1941	72	37	80	42	85	43	98	43	105	54	107	54	114	66	108	65	106	52	100	43	91	34	80	30	114	30
1942	80	29	80	33	93	39	91	42	110	47	114	58	117	71	110	61	108	58	103	44	91	39	79	35	117	29
1943	81	31	86	37	93	44	102	39	106	49	110	52	118	65	110	72	113	66	108	46	88	36	75	37	118	31
1944	77	31	79	31	87	41	93	44	101	48	114	53	114	64	115	69	111	63	104	53	87	35	77	32	115	31
1945	77	33	82	31	88	39	100	39	101	50	113	54	113	70	112	69	115	54	101	51	92	38	78	31	115	31
1946	82	31	87	28	90	35	103	42	103	51	109	60	110	66	111	73	111	62	95	40	80	34	82	31	111	28
1947	83	30	86	35	90	37	102	42	114	51	109	54	111	61	113	61	114	63	106	47	91	31	77	28	114	28
1948	86	23	87	21	82	32	104	41	112	51	112	51	112	63	115	67	114	51	104	43	86	33	75	30	115	21
1949	68	24	82	27	87	36	103	41	108	49	112	57	117	67	116	60	111	67	103	38	92	43	82	25	117	24
1950	82	23	87	30	93	37	101	41	102	45	112	53	114	70	113	64	118	55	103	51	91	33	83	34	118	23
1941-1950:																										
Extremes	86	23	87	21	93	32	104	39	114	45	114	51	118	61	116	60	118	52	108	38	92	31	83	25	118	21
Mean Extremes	78.8	29.2	83.6	31.5	88.8	38.3	99.7	41.4	106.2	49.5	111.2	54.6	114.0	66.3	112.3	66.1	112.1	59.1	102.7	45.6	88.9	35.6	78.8	31.3	--	--
1951	82	25	90	28	90	29	97	39	112	42	110	55	113	68	113	66	109	63	105	44	87	37	77	31	113	25
1952	75	26	80	31	90	31	97	45	106	51	111	54	111	62	113	72	111	53	107	53	93	29	80	32	113	26
1953	82	33	85	27	94	31	100	38	100	46	113	51	114	69	114	58	111	52	102	42	91	33	82	29	114	27
1954	78	28	91	38	93	31	--	--	103	43	113	52	115	69	113	62	109	58	102	43	90	38	79	25	115	25
1920-1954:																										
Extremes	96	19	91	21	98	27	105	34	114	42	117	50	118	60	118	58	118	51	108	38	98	29	83	25	118	19
Mean Extremes	78.4	29.0	84.4	32.8	90.4	36.6	99.5	41.1	106.2	49.0	111.6	54.8	113.5	66.1	112.4	67.5	110.2	58.3	101.5	45.9	88.5	36.1	78.7	31.7	--	--

TABLE 6. — MONTHLY EXTREME MAXIMUM AND EXTREME MINIMUM TEMPERATURES. YUMA VALLEY EXPERIMENT FARM. 1931-1954

YEAR	January		February		March		April		May		June		July		August		September		October		November		December		ANNUAL	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	MAX.	MIN.
1931	80	25	--	--	96	29	101	43	106	49	109	54	113	71	--	--	106	47	97	42	91	26	67	25	113	25
1932	69	19	82	24	88	34	95	35	99	45	106	50	105	59	111	60	108	50	98	39	86	36	81	26	111	19
1933	76	24	77	24	87	36	94	35	104	42	108	52	111	60	117	58	108	52	104	48	88	32	79	23	117	23
1934	79	27	86	40	98	40	98	37	111	48	104	49	113	65	111	68	110	42	106	40	93	31	78	25	113	25
1935	--	28	87	29	87	30	96	35	101	45	112	54	108	57	112	64	--	52	99	33	84	27	80	28	112	27
1936	78	26	85	28	94	32	102	35	106	47	113	48	113	58	112	63	105	44	103	45	88	30	78	25	113	25
1937	68	14	83	24	91	35	100	38	108	43	109	53	115	65	110	64	112	53	99	44	90	35	81	28	115	14
1938	77	28	79	29	82	32	102	33	108	42	110	52	110	54	108	54	106	58	99	35	81	24	84	29	110	24
1939	73	29	77	24	93	31	100	39	100	45	110	50	115	59	111	67	111	50	95	35	90	38	84	25	115	24
1940	82	28	84	30	89	31	99	43	104	50	114	55	114	56	113	59	107	56	101	41	88	30	83	32	114	28
1931-1940:																										
Extremes	82	14	86	24	98	29	102	33	111	42	113	48	115	54	117	54	112	42	106	33	93	24	84	23	117	14
Mean Extremes	75.8	24.8	82.2	28.0	90.1	33.0	98.7	37.3	104.7	45.6	109.5	51.7	111.7	60.4	111.7	61.9	108.1	50.4	100.1	40.2	87.9	30.9	79.5	26.6	--	--
1941	72	31	81	36	85	40	--	--	--	--	106	52	111	62	106	59	104	46	99	39	90	28	82	27	111	27
1942	80	28	80	30	93	34	90	41	108	46	111	54	113	64	109	57	108	50	102	38	90	23	79	30	113	28
1943	82	24	85	30	93	39	100	36	104	41	108	48	116	59	108	65	110	60	106	40	87	29	76	32	116	24
1944	77	25	78	25	86	35	93	41	99	44	109	48	--	55	114	62	110	54	103	42	87	26	75	31	114	25
1945	79	31	83	29	86	37	97	37	98	48	109	50	110	61	109	64	112	50	101	42	91	32	78	26	112	26
1946	82	31	86	27	91	36	102	38	103	52	109	56	113	64	113	72	112	58	96	39	81	34	82	30	113	27
1947	82	27	88	31	90	37	102	41	114	48	111	53	115	61	114	58	115	61	105	40	88	25	78	28	115	25
1948	84	23	86	21	83	31	103	38	105	45	115	53	115	63	117	66	117	45	106	44	86	32	75	27	117	21
1949	69	21	84	26	86	37	104	43	107	47	112	53	113	65	115	59	113	61	103	38	93	41	84	24	115	21
1950	84	22	85	29	93	32	102	39	103	42	112	51	114	69	113	62	117	52	106	49	91	32	84	33	117	22
1941-1950:																										
Extremes	84	21	88	21	93	31	104	36	114	41	115	48	116	55	117	57	117	46	106	38	81	23	84	24	117	21
Mean Extremes	79.1	26.3	83.6	28.4	88.6	35.8	99.2	39.3	104.6	45.9	110.2	51.9	113.3	62.3	111.8	62.4	111.8	53.7	102.7	41.1	88.4	30.2	79.3	28.8	--	--
1951	84	24	91	28	90	29	98	37	114	45	110	53	113	63	114	60	110	61	106	43	87	34	77	28	114	24
1952	76	22	81	31	89	33	98	44	108	52	114	55	114	61	112	72	111	53	106	53	96	30	82	36	114	22
1953	85	34	87	27	94	33	100	37	99	46	113	51	113	69	113	59	110	53	102	40	94	36	84	26	113	26
1954	79	27	91	33	92	30																				
1931-1954:																										
Extremes	84	14	91	21	98	29	104	33	114	41	115	48	116	54	117	54	117	42	106	33	96	23	84	23	117	14
Mean Extremes	78.1	26.9	83.7	28.5	89.8	33.9	98.9	38.4	105.0	46.0	110.2	52.0	112.6	61.7	111.9	62.4	110.4	52.5	101.8	41.3	88.7	30.9	79.6	28.0	--	--

TABLE 7. — EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Aguila	1935-53	2,280	Highest	84	84	89	100	110	113	115	114	115	100	88	85	115
			Lowest	11	18	20	29	34	44	51	48	42	24	21	17	11
			Avg. Hi.	74.5	78.2	83.7	94.1	102.0	108.8	111.7	110.3	107.1	96.4	83.4	76.8	---
			Avg. Low	21.5	23.5	28.1	33.5	40.2	47.5	59.1	58.8	51.5	37.3	27.5	23.5	---
Ajo	1915-53	1,763	Highest	84	90	96	102	111	115	114	115	113	106	95	85	115
			Lowest	17	22	31	37	31	50	58	57	53	33	30	26	17
			Avg. Hi.	76.4	81.0	87.3	95.7	102.7	109.8	110.8	109.0	106.2	96.2	87.2	78.6	---
			Avg. Low	30.6	33.8	38.1	43.2	50.3	59.0	67.3	66.5	61.6	49.6	38.4	33.0	---
Alhambra	1946-53	1,115	Highest	84	90	92	101	113	112	114	115	115	105	92	87	115
			Lowest	15	19	24	33	40	45	61	57	49	33	25	20	15
			Avg. Hi.	78.5	84.2	89.0	99.4	104.5	110.8	112.0	112.4	110.8	100.5	87.2	80.0	---
			Avg. Low	20.5	24.0	29.9	36.2	45.1	51.6	64.2	62.6	54.4	39.4	28.6	23.8	---
Alpine	1912-53	8,000	Highest	68	68	74	79	85	92	91	86	87	86	77	75	92
			Lowest	-29	-28	-25	- 6	8	16	28	29	17	- 1	-18	-23	-29
			Avg. Hi.	58.9	59.9	64.7	71.5	78.5	86.6	83.9	83.4	80.8	75.1	69.2	61.4	---
			Avg. Low	-12.6	- 7.2	- 3.0	10.1	16.0	21.5	34.8	34.7	24.5	13.8	4.7	-10.1	---
Anvil Ranch	1943-53	2,750	Highest	85	90	95	99	109	113	112	110	111	103	90	86	113
			Lowest	17	16	15	22	32	43	58	58	47	27	20	15	15
			Avg. Hi.	79.5	81.6	85.9	96.0	101.2	107.6	108.5	106.4	105.4	98.7	87.5	78.5	---
			Avg. Low	13.1	17.0	21.2	29.1	35.3	44.7	56.2	57.3	45.7	34.3	19.7	15.7	---
Apache Powder Company	1944-53	3,690	Highest	83	85	91	95	105	108	108	107	105	97	90	81	108
			Lowest	7	11	14	18	26	40	37	52	35	26	13	4	4
			Avg. Hi.	76.9	79.2	83.5	---	98.4	105.0	105.0	103.6	101.8	92.8	83.8	75.7	---
			Avg. Low	13.1	17.0	21.2	29.1	35.3	44.7	56.2	57.3	45.7	34.3	19.7	15.7	---
Ashfork	1916-53	5,140	Highest	74	80	82	88	97	104	104	105	102	96	85	77	105
			Lowest	-17	- 9	2	12	21	30	41	41	30	13	- 3	- 7	-17
			Avg. Hi.	64.4	67.9	73.6	81.4	88.4	97.9	99.7	97.0	93.1	85.3	75.2	67.3	---
			Avg. Low	5.4	9.8	14.8	21.7	29.6	43.0	47.7	47.4	38.3	26.1	15.3	7.7	---
Bagdad 2E	1929-53	3,200	Highest	79	84	88	95	101	114	110	110	108	98	88	81	114
			Lowest	10	11	22	27	32	44	54	52	43	28	21	15	10
			Avg. Hi.	69.3	75.2	80.4	88.7	95.8	103.8	106.0	104.0	101.6	92.2	81.3	75.1	---
			Avg. Low	20.9	23.6	28.0	33.7	41.2	48.6	59.6	59.0	51.6	38.2	28.1	23.5	---
Bartlett Dam	1940-53	1,650	Highest	85	89	92	102	112	115	115	115	117	106	93	88	117
			Lowest	25	29	32	37	38	50	58	58	51	39	34	26	25
			Avg. Hi.	78.4	81.6	85.5	95.7	102.7	110.6	112.4	110.4	109.7	99.4	87.6	80.0	---
			Avg. Low	30.0	33.3	36.0	40.7	47.6	56.7	67.0	67.1	60.4	48.3	37.5	32.8	---
Benson	1903-53	3,585	Highest	83	86	94	102	107	112	112	113	108	103	93	83	113
			Lowest	5	9	13	22	22	35	46	42	35	15	9	5	5
			Avg. Hi.	75.5	78.5	84.2	90.5	97.6	104.6	105.0	101.3	99.0	92.9	85.5	74.6	---
			Avg. Low	16.8	20.7	24.6	30.5	38.4	46.4	56.6	54.9	45.2	32.2	22.4	18.2	---
Betatakin	1939-53*	7,200	Highest	59	60	72	82	90	94	100	98	96	84	68	61	100
			Lowest	- 6	-4	4	12	21	24	45	44	32	14	1	2	- 6
			Avg. Hi.	52.0	56.1	65.6	73.6	83.6	91.1	94.9	93.2	88.9	77.3	64.5	54.9	---
			Avg. Low	4.2	4.1	8.8	20.8	28.3	35.0	46.3	47.0	38.8	24.9	11.7	7.2	---
Bisbee	1890-53	5,350	Highest	85	85	88	95	101	106	104	101	100	98	90	78	106
			Lowest	8	11	22	28	32	38	53	47	41	28	16	13	8
			Avg. Hi.	69.8	72.6	77.9	83.5	90.4	98.3	97.1	93.6	91.8	85.6	77.1	70.0	---
			Avg. Low	22.4	24.8	28.9	34.7	41.2	51.0	58.3	56.9	50.7	39.1	29.8	24.3	---
Bowie	1899-53	3,756	Highest	79	87	98	99	107	115	116	110	105	105	96	80	116
			Lowest	10	11	18	22	28	40	49	50	30	25	15	8	8
			Avg. Hi.	72.7	76.5	84.0	91.4	99.7	107.3	108.1	104.4	99.4	93.8	82.1	71.4	---
			Avg. Low	18.8	23.1	28.2	33.6	40.8	51.1	60.8	59.2	48.6	37.0	24.9	20.9	---
Bright Angel R.S.	1925-53	8,400	Highest	63	59	61	72	81	90	91	90	88	77	66	63	91
			Lowest	-23	-25	-14	- 4	12	23	26	27	18	6	-10	-12	-25
			Avg. Hi.	51.4	52.0	53.0	61.6	73.9	83.2	85.9	82.9	79.5	69.0	59.7	53.6	---
			Avg. Low	- 3.7	- 1.5	3.0	13.2	22.6	28.1	36.5	35.6	28.9	19.2	7.3	4.0	---
Buckeye	1893-53	888	Highest													
			Lowest													
			Avg. Hi.	77.7	84.2	90.6	97.5	104.9	114.6	113.6	110.0	110.9	100.2	82.9	78.0	---
			Avg. Low	22.4	27.0	31.3	36.1	43.6	51.1	61.9	62.8	51.2	38.6	28.2	23.6	---
Burrus Ranch	1943-53	6,800	Highest	66	68	72	80	92	94	96	94	94	83	76	65	96
			Lowest	-17	-17	-10	9	20	21	39	34	24	3	- 3	-16	-17
			Avg. Hi.	49.6	52.2	65.4	75.0	83.5	90.3	92.4	90.1	88.4	79.2	69.6	58.5	---
			Avg. Low	- 3.2	- 1.2	3.1	16.2	24.9	29.8	43.5	40.9	30.5	19.4	5.5	- 4.3	---

TABLE 7—(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Camelback	1920-53	1,250	Highest	87	90	95	105	113	116	116	115	115	107	96	89	116
			Lowest	18	21	28	33	41	46	57	58	46	32	25	22	18
			Avg. Hi.	78.8	83.4	88.3	96.9	103.6	110.3	111.7	109.6	107.5	99.7	88.3	80.0	--
			Avg. Low	25.6	29.7	33.5	37.8	46.5	53.1	64.6	64.7	56.2	42.9	32.5	27.3	--
Canelo	1920-53*	5,000	Highest	81	86	85	99	100	105	109	97	97	94	86	78	109
			Lowest	- 6	4	8	16	19	30	40	46	28	19	6	2	- 6
			Avg. Hi.	70.4	74.3	77.9	86.2	92.1	98.9	96.9	92.1	91.5	87.1	78.2	71.5	--
			Avg. Low	10.7	13.9	17.6	23.0	30.4	38.1	49.5	50.4	40.5	28.1	16.6	12.3	--
Casa Grande	1881-94 1898-1912 1917-53	1,390	Highest	88	95	99	110	120	119	122	120	116	109	98	91	122
			Lowest	17	19	25	28	39	36	56	57	40	25	22	17	17
			Avg. Hi.	77.0	81.6	87.7	97.3	105.1	115.0	113.8	111.4	108.0	99.5	87.9	80.4	--
			Avg. Low	25.2	28.9	35.3	41.1	49.9	58.3	70.4	68.7	58.2	43.9	34.1	27.8	--
Casa Grande Ruins	1908-53	1,419	Highest	89	93	97	106	116	119	117	116	114	105	95	89	119
			Lowest	8	16	23	25	33	44	56	58	43	28	21	14	8
			Avg. Hi.	73.6	82.7	89.3	97.9	102.1	108.3	113.1	111.4	105.3	99.5	91.8	78.8	--
			Avg. Low	20.2	24.4	30.3	34.1	42.0	50.4	63.6	64.2	53.2	37.9	27.2	23.4	--
Castle Hot Springs 4N	1949-53	2,800	Highest	83	84	85	94	108	109	112	112	113	100	90	85	113
			Lowest	18	20	27	31	38	45	61	56	51	34	26	20	18
Cave Creek	1950-53	2,050	Highest	82	85	86	97	108	112	114	111	113	101	92	83	114
			Lowest	24	23	28	32	40	50	62	61	51	41	27	20	20
Chandler Heights	1941-53	1,445	Highest	83	90	93	102	110	112	115	112	111	105	92	83	115
			Lowest	16	21	26	30	41	50	60	60	47	34	26	23	16
			Avg. Hi.	77.1	81.0	87.2	96.8	103.3	112.0	111.8	109.7	107.9	99.0	88.1	78.0	--
			Avg. Low	24.6	27.7	33.0	37.8	48.5	55.2	66.1	66.3	57.4	41.0	31.4	26.1	--
Childs	1915-53	2,650	Highest	82	85	95	102	110	115	117	112	115	109	92	82	117
			Lowest	2	12	22	24	35	42	45	43	40	29	20	17	2
			Avg. Hi.	71.2	77.4	84.1	90.2	99.9	109.1	110.0	107.6	104.5	95.7	83.3	73.1	--
			Avg. Low	20.9	25.2	28.7	32.9	41.3	48.3	55.6	55.4	48.8	37.7	28.4	38.7	--
Chinle	1908-53*	5,538	Highest	65	70	80	89	95	103	104	102	99	90	78	68	104
			Lowest	-32	-22	1	10	10	20	38	40	23	13	0	-27	-32
			Avg. Hi.	57.2	63.1	71.6	80.1	88.3	96.8	98.2	95.9	93.8	82.1	70.7	59.2	--
			Avg. Low	- 4.9	4.9	13.1	19.0	26.6	35.3	48.5	47.5	33.6	21.3	9.6	- 8.1	--
Chino Valley	1942-53	4,673	Highest	72	75	82	90	99	104	107	103	103	94	82	75	104
			Lowest	-15	-13	2	9	18	28	38	37	31	16	2	- 9	-15
			Avg. Hi.	67.8	71.1	75.0	85.2	90.7	98.3	101.8	98.9	97.0	80.6	76.7	68.2	--
			Avg. Low	3.4	8.4	13.0	20.5	26.0	33.5	45.9	45.0	35.6	22.2	12.6	6.2	--
Chiricahua	1948-53	5,300	Highest	76	74	81	87	98	100	102	98	99	89	78	72	102
			Lowest	- 1	11	14	25	26	39	49	51	46	31	17	11	- 1
Cibecue	1927-53	5,300	Highest	76	76	83	89	97	110	114	106	101	92	84	84	114
			Lowest	-14	- 4	3	18	21	28	36	39	29	21	- 8	-10	-14
			Avg. Hi.	66.2	69.0	74.4	82.4	88.6	98.0	99.8	97.8	93.8	81.4	72.6	68.3	--
			Avg. Low	6.3	11.1	16.4	22.8	29.5	35.2	47.3	46.9	37.8	26.4	15.0	10.3	--
Clifton	1908-53	3,465	Highest	79	84	92	99	107	113	114	113	110	102	94	78	114
			Lowest	10	17	26	27	39	49	42	54	45	37	22	13	10
			Avg. Hi.	67.3	76.4	81.9	91.0	99.2	104.7	107.8	105.1	101.2	93.3	80.5	68.7	--
			Avg. Low	23.0	27.7	33.3	38.0	46.8	57.0	64.9	63.7	57.2	43.4	30.3	24.9	--
Copper mine Trading Post	1939-53	6,380	Highest	65	76	80	90	95	100	106	103	101	86	78	69	106
			Lowest	- 7	- 7	8	14	25	36	39	43	25	20	9	3	- 7
			Avg. Hi.	57.1	63.3	69.5	78.3	87.9	94.8	99.8	97.4	92.8	80.5	66.8	59.0	--
			Avg. Low	5.3	9.1	15.4	24.3	31.1	40.5	50.6	50.1	39.8	27.5	16.7	10.1	--
Cordes	1925-53	3,773	Highest	80	83	83	92	101	106	106	106	105	95	84	80	106
			Lowest	4	8	19	23	32	40	48	51	38	29	20	15	4
			Avg. Hi.	68.7	72.0	76.8	85.2	92.8	100.9	103.0	101.7	98.5	88.7	77.8	72.1	--
			Avg. Low	18.6	20.4	26.0	30.2	38.5	45.0	56.6	56.7	49.1	37.1	28.2	22.7	--
Cortaro 3 SW	1945-53	2,283	Highest	87	90	96	101	112	113	113	112	113	104	96	88	113
			Lowest	13	13	21	29	35	50	65	60	47	31	21	18	13
			Avg. Hi.	82.0	84.2	88.9	98.2	104.8	110.1	111.4	109.1	109.7	99.0	89.6	80.9	--
			Avg. Low	18.9	23.4	28.6	35.2	43.1	54.1	66.4	62.6	52.6	38.1	27.3	22.4	--
Cottonwood and Clemenceau	1949-53 1920-36	3,320	Highest	79	81	86	94	105	110	114	107	105	97	89	77	114
			Lowest	12	9	21	25	29	44	55	54	41	28	19	13	9
			Avg. Hi.	70.1	75.1	81.2	89.0	96.2	105.1	106.8	103.4	95.6	91.2	80.0	69.8	--
			Avg. Low	20.7	22.7	25.6	33.6	38.7	46.6	60.4	59.4	50.1	37.8	27.7	21.7	--
Davis Dam	1948-53	628	Highest	78	85	90	104	112	117	118	115	118	102	89	79	118
			Lowest	23	24	32	36	46	53	58	59	53	40	30	26	23

TABLE 7—(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Douglas			Highest	81	80	88	94	102	107	105	101	102	93	81	77	107
BD Apt	1948-53	4,098	Lowest	6	12	13	27	31	43	59	55	46	29	16	9	6
Douglas			Highest	83	89	94	98	106	110	111	107	105	97	92	81	111
Smelter	1903-53	3,973	Lowest	- 7	12	14	26	28	42	41	50	37	23	14	6	- 7
			Avg. Hi.	73.3	77.7	83.4	89.3	96.4	103.8	102.7	101.4	97.0	90.9	82.0	74.8	--
			Avg. Low	16.5	20.8	25.2	31.4	38.1	47.7	58.9	59.0	48.4	34.7	32.2	18.2	--
	1901-7		Highest	80	85	94	94	101	109	109	105	103	99	82	76	109
Duncan	1948-53	3,642	Lowest	3	6	9	18	22	32	33	39	34	17	8	- 2	- 2
			Avg. Hi.	71.7	76.8	82.8	88.8	95.7	103.2	103.4	101.6	99.1	92.3	78.8	71.0	--
			Avg. Low	9.8	12.7	16.8	25.9	31.0	39.4	51.6	50.2	39.2	26.2	15.9	12.1	--
			Highest	87	90	96	104	115	119	119	116	122	107	97	86	122
Ehrenberg	1941-53	323	Lowest	20	22	30	38	47	52	60	58	48	38	25	18	18
			Avg. Hi.	80.4	84.7	90.0	99.9	107.4	113.1	115.2	114.2	113.3	103.3	89.9	80.6	--
			Avg. Low	25.6	29.0	35.6	38.7	50.0	57.3	66.0	63.8	55.3	43.0	33.0	29.0	--
Falcon	1942-44		Highest	84	90	92	101	107	112	117	109	115	100	90	84	117
Field	1947-53	1,320	Lowest	15	22	29	27	32	42	62	54	46	36	24	19	15
			Avg. Hi.	78.0	82.1	86.0	95.5	101.9	107.1	110.2	107.1	107.6	97.7	85.7	77.6	--
			Avg. Low	24.1	28.1	33.5	37.9	45.2	52.2	66.8	63.8	57.4	42.4	32.8	26.5	--
			Highest	65	66	72	78	88	93	93	93	91	85	73	68	93
Flagstaff	1898-53	6,993	Lowest	-30	-22	- 9	4	7	22	32	33	20	4	- 8	-19	-30
			Avg. Hi.	55.7	55.1	62.4	71.0	78.0	87.5	89.0	86.0	82.0	73.9	66.0	57.6	--
			Avg. Low	- 5.4	- 1.6	5.2	16.2	22.6	29.4	40.9	41.1	29.7	18.7	7.6	- 2.6	--
	1908-1921*		Highest	89	90	99	105	115	118	118	116	117	108	97	91	118
Florence	1923-53	1,500	Lowest	11	20	24	30	37	45	54	50	45	27	14	19	11
			Avg. Hi.	78.2	83.1	88.9	98.0	105.4	112.5	113.7	107.9	108.6	100.1	88.9	80.2	--
			Avg. Low	23.9	27.5	31.2	36.7	43.8	51.8	63.9	63.4	54.6	39.8	29.6	25.6	--
Flying H			Highest	78	79	82	89	102	102	100	97	99	90	80	75	102
Ranch	1948-53	5,075	Lowest	5	13	22	28	32	42	55	52	45	26	22	15	5
Forest-			Highest	71	70	73	82	94	96	99	95	95	86	74	71	99
dale	1947-53	6,100	Lowest	- 5	-13	-10	11	16	23	36	36	25	11	-12	-12	-13
Fort-	1877-1890		Highest	81	87	87	98	100	105	106	107	100	96	92	88	107
grant	1900-1905*	4,851	Lowest	9	16	19	28	29	42	40	52	40	29	20	7	7
	1946-1953		Avg. Hi.	70.0	73.4	78.3	84.1	91.2	98.1	99.9	97.6	93.2	86.6	74.3	70.1	--
			Avg. Low	19.2	23.2	29.1	33.6	41.6	56.0	59.1	58.2	52.5	38.2	27.3	21.5	--
Fort-			Highest	64	64	68	76	89	94	93	91	89	83	71	69	94
Valley	1909-53	7,347	Lowest	-33	-25	-18	0.0	6	19	26	27	11	- 9	-16	-23	-33
			Avg. Hi.	54.8	55.0	60.8	69.2	77.0	86.6	87.6	84.6	80.7	72.9	64.8	57.1	--
			Avg. Low	-10.6	- 5.9	0.4	11.1	18.8	25.3	35.7	36.5	26.6	14.0	3.0	- 7.6	--
			Highest	66	71	79	85	95	104	105	104	99	96	76	70	105
Fredonia	1937-53	5,000	Lowest	-18	-15	5	16	20	29	37	37	26	19	0	-15	-18
			Avg. Hi.	60.0	63.4	72.2	81.1	89.0	96.3	100.2	97.9	93.4	84.6	71.5	61.7	--
			Avg. Low	2.6	5.7	14.0	23.2	27.8	34.0	43.9	43.0	35.5	22.9	12.1	3.6	--
			Highest	65	72	75	90	93	100	100	102	96	86	86	73	102
Ganado	1929-53	6,350	Lowest	-27	-25	- 6	5	20	27	39	37	29	11	-16	-20	-27
			Avg. Hi.	53.2	62.5	68.6	75.2	85.2	93.5	95.5	93.2	88.3	80.1	70.9	57.9	--
			Avg. Low	- 7.6	0.5	7.5	16.8	25.9	33.3	45.2	45.2	34.2	21.1	5.8	- 1.9	--
Gila			Highest	89	95	100	110	121	121	123	119	120	109	99	90	123
Bend	1903-53	737	Lowest	11	23	28	31	39	42	47	55	41	35	22	15	11
			Avg. Hi.	78.5	82.6	91.4	100.4	107.3	115.2	116.4	113.8	111.8	102.8	90.1	79.8	--
			Avg. Low	25.6	30.2	35.2	39.5	47.8	54.8	66.5	65.5	57.0	42.7	32.3	27.5	--
			Highest	77	82	89	97	106	110	110	109	109	101	88	76	110
Globe	1905-53	3,540	Lowest	10	13	19	22	30	39	52	50	39	29	20	14	10
			Avg. Hi.	68.6	73.4	81.0	88.5	96.4	104.6	103.0	103.0	99.3	88.7	77.0	68.2	--
			Avg. Low	19.9	23.6	27.6	32.3	39.6	47.7	59.9	58.6	49.0	37.0	26.7	21.8	--
Goulds			Highest	87	93	95	105	116	118	117	116	118	105	99	87	118
Ranch	1915-53	1,195	Lowest	19	21	25	30	38	47	60	57	46	34	26	20	19
			Avg. Hi.	74.9	82.8	88.5	94.5	101.4	112.1	112.6	110.7	108.3	96.8	88.4	78.8	--
			Avg. Low	24.5	29.5	33.3	38.9	46.3	52.4	66.3	64.9	55.4	41.9	31.6	26.4	--
Grand			Highest	68	65	74	81	89	98	98	96	93	82	78	70	98
Canyon	1903-53	6,890	Lowest	-22	-17	- 7	9	10	26	35	35	22	13	- 1	-14	-22
Hdq.			Avg. Hi.	54.9	57.5	62.2	73.1	81.4	90.4	90.8	89.8	85.1	75.6	66.0	57.8	--
			Avg. Low	- 9.6	4.1	9.9	18.9	26.7	31.5	45.6	45.0	35.7	24.5	12.9	2.7	--

TABLE 7—(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Granite Reef Dam	1909-53	1,325	Highest	86	91	95	105	115	117	121	116	115	110	100	88	121
			Lowest	13	17	27	27	31	43	55	56	46	35	21	16	13
			Avg. Hi.	74.2	81.3	87.6	97.0	104.1	111.5	112.8	110.4	105.0	98.6	88.1	78.9	--
			Avg. Low	26.3	30.4	34.4	39.1	46.3	52.8	63.6	65.7	56.2	43.3	32.8	28.1	--
Groom Creek	1942-53	6,100	Highest	71	72	85	90	91	101	104	104	98	91	80	73	104
			Lowest	1	- 3	4	12	21	23	40	32	27	8	7	- 2	- 3
			Avg. Hi.	63.2	65.9	70.6	78.4	84.8	92.4	93.4	91.9	90.2	81.9	67.8	65.2	--
			Avg. Low	6.9	7.0	9.1	18.9	25.6	30.5	43.4	43.9	34.4	24.2	14.9	64	--
Heber	1916-36* 1948-53	6,600	Highest	69	70	73	80	91	96	97	96	93	85	78	68	97
			Lowest	-28	-26	- 7	5	15	20	34	35	26	10	- 7	-22	-28
			Avg. Hi.	58.0	62.3	66.8	74.5	82.1	92.0	92.6	89.5	87.2	80.1	70.3	59.8	--
			Avg. Low	-5.7	- 0.2	6.0	15.1	23.5	28.9	43.2	41.1	31.7	19.5	5.4	- 4.5	--
Holbrook	1903-53	5,069	Highest	73	79	89	91	101	106	106	104	101	95	89	73	106
			Lowest	-20	- 4	6	16	24	31	42	40	27	15	- 9	-18	-20
			Avg. Hi.	62.5	69.7	76.2	83.3	91.8	100.0	101.6	98.9	94.7	85.2	73.9	62.3	--
			Avg. Low	3.3	10.4	17.2	23.8	31.5	39.5	50.7	51.4	39.3	25.2	13.7	6.6	--
Inner Canyon	1935-53	2,490	Highest	72	81	92	101	110	115	117	117	114	100	85	75	117
			Lowest	19	28	25	38	45	53	66	62	56	39	28	21	19
			Avg. Hi.	66.8	73.4	83.7	94.3	102.9	110.6	113.7	111.4	106.6	94.4	79.3	66.6	--
			Avg. Low	28.3	32.2	36.3	43.5	52.2	61.4	69.0	67.5	61.0	47.3	35.9	30.8	--
Jeddito	1931-53	6,700	Highest	65	71	81	87	95	101	103	102	98	92	78	72	103
			Lowest	-20	-22	- 6	10	10	28	40	37	30	14	1	-12	-22
			Avg. Hi.	57.1	63.9	70.1	79.3	88.0	96.6	99.8	97.5	93.4	83.4	71.0	60.9	--
			Avg. Low	- 2.8	2.0	10.2	19.4	25.3	34.3	47.1	46.7	37.6	25.0	11.1	2.7	--
Jerome	1897-1953	5,245	Highest	75	82	85	92	99	104	105	105	102	94	85	75	105
			Lowest	7	8	20	23	26	40	51	50	42	27	16	14	7
			Avg. Hi.	64.5	68.3	74.4	82.4	89.1	98.2	99.4	97.0	93.0	84.3	74.3	65.5	--
			Avg. Low	20.0	23.1	27.1	31.4	38.4	50.3	58.8	57.5	50.6	37.8	29.1	22.5	--
Juniper	1935-53	5,124	Highest	70	74	80	87	95	105	102	101	99	91	79	73	105
			Lowest	- 3	2	7	11	28	32	46	45	35	28	14	2	- 3
			Avg. Hi.	63.4	66.6	72.8	81.0	87.6	96.3	97.9	96.0	91.9	84.2	73.1	66.5	--
			Avg. Low	10.4	13.8	18.0	26.5	34.5	40.6	51.1	50.8	43.2	32.0	21.9	15.1	--
Kayenta	1915-53	5,675	Highest	63	70	82	92	95	103	105	102	100	92	82	70	105
			Lowest	-18	-15	2	10	23	29	35	40	30	17	-15	-17	-18
			Avg. Hi.	54.0	62.1	67.1	81.0	89.4	98.4	99.9	97.3	92.4	82.5	67.3	56.4	--
			Avg. Low	0.5	8.5	15.7	22.6	32.1	39.2	49.7	49.2	38.1	25.6	12.2	4.9	--
Keams-Canyon	1894-95 1906-21 1928-30	6,205	Highest	65	67	80	88	95	104	101	102	94	89	75	68	104
			Lowest	-30	-15	- 1	11	21	28	39	40	25	17	- 4	-18	-30
			Avg. Hi.	55.4	59.8	69.9	76.7	83.8	92.6	94.2	92.3	87.0	78.8	69.6	57.6	--
			Avg. Low	- 5.2	4.6	13.3	19.6	26.2	33.9	45.9	47.1	31.7	23.2	11.2	27.6	--
Kingman	1901-35	3,333	Highest	78	81	90	102	106	110	110	111	108	99	90	77	111
			Lowest	6	9	16	20	29	34	45	43	31	27	13	10	6
			Avg. Hi.	67.7	73.3	78.8	88.2	95.3	103.8	105.6	104.0	100.0	90.8	77.7	69.4	--
			Avg. Low	19.1	22.2	26.0	30.5	37.5	45.0	54.9	54.7	44.9	34.9	26.4	20.6	--
Lakeside	1911-33	6,700	Highest	65	74	75	78	88	98	105	96	96	87	80	69	105
			Lowest	-17	-24	-17	12	15	25	37	39	26	0	- 8	-21	-24
			Avg. Hi.	55.8	58.5	66.2	72.2	82.0	90.0	91.2	88.5	84.1	77.9	67.6	56.4	--
			Avg. Low	- 7.3	- 5.2	6.2	19.2	24.3	31.7	43.9	43.5	32.5	19.4	6.0	- 4.9	--
Laveen	1948-53	1,100	Highest	83	86	92	101	113	115	115	115	117	105	92	86	117
			Lowest	20	26	29	37	41	51	67	61	53	39	29	24	20
Lee's Ferry	1921-38 1943-53	3,141	Highest	69	76	89	99	106	114	114	111	109	98	84	69	114
			Lowest	6	6	24	29	34	49	60	54	44	30	16	2	2
			Avg. Hi.	59.2	68.9	80.4	90.4	98.7	107.6	110.1	107.1	103.1	91.0	74.0	46.0	--
			Avg. Low	15.7	21.6	28.2	35.6	44.8	53.4	64.2	62.0	53.8	37.6	24.9	17.8	--
Leupp	1914-26 1934-53	4,700	Highest	78	80	85	91	98	105	106	105	105	93	84	71	106
			Lowest	-18	- 9	5	12	16	26	32	37	30	14	- 3	-10	-18
			Avg. Hi.	60.0	68.2	74.9	84.2	91.7	100.0	102.4	99.8	94.3	86.0	71.4	62.6	--
			Avg. Low	6.9	7.8	14.0	22.0	30.0	37.4	48.2	47.6	37.1	23.7	9.8	4.6	--
Litchfield Park	1917-53	1,030	Highest	87	93	96	105	113	117	118	116	115	105	98	89	118
			Lowest	16	22	27	27	38	49	57	50	44	33	23	20	16
			Avg. Hi.	78.0	82.2	88.0	97.1	104.5	112.5	113.5	111.0	108.6	98.9	87.4	79.1	--
			Avg. Low	23.4	28.4	32.9	37.4	45.2	53.3	65.0	61.9	54.4	40.6	30.0	26.4	--
Lukachukai	1914-19* 1951-53	6,400	Highest	60	63	72	77	83	95	95	95	90	84	72	60	95
			Lowest	- 7	-10	8	12	23	34	41	47	33	12	- 1	- 4	-10
			Avg. Hi.	56.4	60.5	67.0	76.0	80.8	91.0	93.0	91.2	86.4	77.7	69.3	55.0	--
			Avg. Low	- 1.2	- 1.2	12.5	22.0	26.6	37.2	49.2	48.7	38.5	23.0	9.8	1.7	--

TABLE 7 -(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Marinette	1913-51*	1,150	Highest	86	90	97	105	115	120	120	117	116	108	96	89	120
			Lowest	17	21	28	30	36	46	52	56	46	25	21	18	17
			Avg. Hi.	77.3	82.7	89.4	97.9	105.5	113.1	113.5	107.7	112.7	99.7	87.6	77.1	--
			Avg. Low	22.9	27.0	32.8	36.5	45.1	52.5	63.1	62.7	54.2	38.7	29.2	25.1	--
Maverick	1948-53	7,800	Highest	69	67	68	74	85	87	89	88	85	80	71	69	89
			Lowest	-33	-19	-18	- 8	5	15	30	27	18	4	-14	-29	-33
McNary	1933-53	7,280	Highest	66	65	70	80	89	93	93	91	89	81	72	70	93
			Lowest	-23	-18	-13	0	8	20	30	35	21	7	- 3	-18	-23
			Avg. Hi.	58.2	58.9	63.7	72.7	79.9	87.8	88.6	85.5	83.3	76.2	66.4	59.6	--
			Avg. Low	- 3.2	- .8	5.0	14.1	23.0	27.9	39.2	41.0	31.2	21.6	8.2	0.4	--
Miami	1914-53	3,603	Highest	75	79	87	98	104	109	110	107	108	97	85	77	110
			Lowest	13	14	23	29	32	46	59	56	46	30	21	14	13
			Avg. Hi.	67.5	72.7	79.3	87.7	95.6	104.3	104.4	102.0	99.2	89.9	77.9	68.2	--
			Avg. Low	23.8	26.8	31.2	35.3	44.0	52.9	62.2	61.9	54.1	40.6	30.8	25.2	--
Montezuma Castle	1938-53	3,180	Highest	82	82	89	98	107	115	113	109	111	100	88	78	115
			Lowest	3	7	16	16	24	36	48	46	37	25	14	8	3
			Avg. Hi.	71.6	76.9	82.1	90.6	99.0	106.7	109.4	106.8	104.0	93.2	81.9	72.8	--
			Avg. Low	14.4	17.1	21.4	28.3	35.2	41.4	52.9	52.9	44.4	30.1	19.9	15.5	--
Mormon Flat	1923-53	1,715	Highest	80	85	96	103	114	118	118	116	115	108	94	83	118
			Lowest	20	22	27	31	43	54	60	58	55	38	30	26	20
			Avg. Hi.	73.2	79.2	85.6	95.6	104.1	111.3	113.0	109.9	107.3	97.9	82.9	74.9	--
			Avg. Low	30.7	33.2	37.0	42.2	51.8	60.7	68.6	67.2	62.7	49.0	38.6	32.6	--
Mormon Lake	1917-53	7,000	Highest					84	89	92	89	88	80			
			Lowest					12	23	35	31	21	5			
			Avg. Hi.					77.1	85.2	86.9	83.6	80.7	72.2			
			Avg. Low					24.6	31.1	42.0	42.6	31.8	21.1			
Mount Lemmon	1950-53	7,690	Highest	63	63	66	72	86	87	86	87	87	79	70	68	87
			Lowest	6	7	8	20	23	36	45	45	42	27	10	5	5
Natural Bridge	1914-53	4,607	Highest	74	76	81	86	96	101	105	102	103	90	83	77	105
			Lowest	6	10	8	23	29	36	44	34	40	28	13	9	6
			Avg. Hi.	65.1	68.4	74.1	80.4	86.4	95.2	96.1	93.7	90.4	82.2	72.9	66.3	--
			Avg. Low	16.9	20.5	24.1	29.8	38.6	46.6	57.1	56.2	48.7	35.9	25.4	19.8	--
Nogales	1899-1904 1909-10 1914-53	3,800	Highest	88	89	90	100	104	110	109	108	105	99	93	84	110
			Lowest	6	9	13	22	24	37	51	47	34	24	14	9	6
			Avg. Hi.	77.6	77.7	83.3	89.7	96.6	104.7	103.2	100.0	98.3	90.4	84.1	76.7	--
			Avg. Low	18.8	21.4	25.4	30.9	37.7	46.4	57.9	55.8	47.0	34.6	24.7	20.2	--
Oracle	1891-1953	4,600	Highest	83	80	86	94	102	108	105	103	101	96	88	79	108
			Lowest	2	5	18	23	30	40	51	50	39	29	14	16	2
			Avg. Hi.	68.7	71.7	77.6	85.2	92.3	100.4	100.5	97.0	94.4	87.0	77.7	70.0	--
			Avg. Low	21.4	24.0	27.2	31.9	39.3	48.4	58.5	57.7	49.8	37.6	29.1	23.0	--
Organ Pipe Cactus N. M.	1944-53	1,663	Highest	85	90	93	101	109	111	112	112	113	104	91	84	113
			Lowest	18	18	25	31	41	48	61	57	46	34	29	23	18
			Avg. Hi.	79.5	83.5	86.9	96.8	101.8	108.8	110.1	110.3	109.0	100.5	87.4	79.9	--
			Avg. Low	23.9	26.8	31.1	37.7	44.9	54.9	64.5	63.5	56.2	43.3	30.8	27.1	--
Parker	1893-1953	425	Highest	85	96	102	113	117	126	127	124	120	117	100	72	127
			Lowest	10	11	21	23	37	42	56	53	38	27	18	9	9
			Avg. Hi.	77.3	84.8	90.7	100.5	104.8	111.2	115.8	112.9	111.4	101.4	89.7	79.8	--
			Avg. Low	21.5	25.7	33.0	38.1	45.5	54.8	65.4	63.6	51.5	39.9	27.5	23.4	--
Payson	1909-53	4,906	Highest	78	81	84	88	97	103	104	102	101	93	85	74	104
			Lowest	-18	-18	1	14	19	26	33	37	28	12	-6	-12	-18
			Avg. Hi.	64.9	67.8	73.8	80.3	88.0	96.2	97.7	95.7	92.3	84.1	73.9	66.4	--
			Avg. Low	3.5	8.8	15.4	20.9	26.2	30.9	44.1	45.8	36.0	23.9	13.7	6.6	--
Pearce	1944-53	4,388	Highest	77	80	85	96	98	106	105	102	101	93	83	72	106
			Lowest	5	14	11	19	26	38	51	51	34	29	17	9	5
			Avg. Hi.	70.9	75.1	78.2	86.8	92.1	101.0	101.2	99.3	98.3	89.1	78.4	68.2	--
			Avg. Low	12.6	18.7	22.5	29.1	34.6	45.6	57.1	56.1	45.4	34.5	21.7	16.9	--
Petrified Forest	1931-53	5,460	Highest	70	77	88	90	98	102	103	100	99	90	78	71	103
			Lowest	-21	-6	9	18	25	34	48	45	34	21	-16	-16	-21
			Avg. Hi.	61.7	67.1	73.4	81.4	89.2	97.0	98.8	96.7	92.9	83.7	72.9	62.9	--
			Avg. Low	5.0	9.2	16.8	24.2	32.4	40.8	53.4	52.7	42.0	28.2	13.1	6.1	--
Phoenix Airport	1933-53	1,114	Highest	85	88	97	104	113	117	117	117	118	105	92	88	118
			Lowest	17	22	29	32	42	50	61	60	49	36	25	22	17
			Avg. Hi.	77.7	81.4	87.7	97.5	104.6	111.5	113.3	111.2	109.0	98.8	91.9	79.2	--
			Avg. Low	25.2	28.8	35.9	39.8	48.6	55.8	67.1	66.1	57.6	42.4	30.7	27.3	--
Pinedale	1916-53	6,500	Highest	66	70	73	84	92	97	99	96	95	86	80	69	99
			Lowest	-29	-22	-14	11	19	24	34	37	24	10	-19	-22	-29
			Avg. Hi.	57.4	62.4	67.4	73.0	83.1	92.3	93.8	90.6	87.5	79.6	69.3	60.8	--
			Avg. Low	-6.8	-1.0	9.1	17.6	24.8	29.9	42.8	43.3	33.3	21.4	7.0	-0.7	--

TABLE 7 —(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Pisinemo	1936-53	1,900	Highest	87	90	94	104	111	114	115	114	115	107	92	88	115
			Lowest	12	16	23	32	35	44	57	53	44	32	22	19	12
			Avg. Hi.	70.6	82.8	87.5	96.9	104.1	110.6	112.2	110.0	108.8	100.2	88.3	80.9	—
			Avg. Low	23.4	24.7	31.0	36.4	43.6	51.5	63.8	63.4	55.4	39.8	29.5	25.4	--
Portal	1945-53	5,000	Highest	77	76	85	92	99	102	102	99	101	88	81	74	102
			Lowest	-4	14	18	24	33	41	52	54	35	28	18	8	-4
			Avg. Hi.	70.6	73.0	79.1	86.4	93.2	99.4	100.0	97.0	96.6	85.7	77.4	69.2	—
			Avg. Low	11.4	20.1	24.2	31.0	38.8	49.0	57.4	57.4	48.2	36.8	23.4	17.2	--
Prescott	1898-1953	5,354	Highest	73	76	83	90	99	103	105	102	98	90	83	78	105
			Lowest	-21	-12	2	11	20	28	34	40	26	14	-1	-9	-21
			Avg. Hi.	63.9	67.3	73.0	80.3	84.2	96.9	97.7	95.1	91.3	82.9	73.8	64.8	—
			Avg. Low	3.6	7.2	15.1	20.7	28.3	35.5	46.3	46.6	35.3	23.2	13.6	5.9	--
Reno Ranger Station	1899-1953	2,350	Highest	75	86	90	97	109	115	114	114	112	100	88	79	115
			Lowest	11	15	20	27	32	38	48	45	38	27	21	16	11
			Avg. Hi.	69.4	75.2	81.8	90.5	98.1	107.9	108.2	106.2	102.2	93.8	80.0	69.6	--
			Avg. Low	21.0	25.1	30.0	34.4	40.0	48.6	60.3	60.3	50.3	35.8	28.3	22.7	--
Roosevelt	1905-53	2,200	Highest	80	87	92	100	113	115	116	114	115	102	90	83	116
			Lowest	20	23	30	33	39	47	57	56	39	18	26	18	18
			Avg. Hi.	69.5	75.2	82.9	91.5	100.4	108.9	109.8	107.4	103.4	94.0	81.6	71.0	--
			Avg. Low	28.4	32.1	36.4	41.2	49.0	63.1	66.9	66.2	58.5	45.6	35.9	29.8	--
Sabino Canyon	1941-53	2,610	Highest	89	90	94	104	109	112	113	112	112	103	92	85	113
			Lowest	17	20	25	31	40	51	59	58	39	30	24	23	17
			Avg. Hi.	80.8	83.2	87.2	96.0	102.7	108.6	109.2	107.6	106.6	97.8	88.1	79.6	—
			Avg. Low	23.7	26.3	30.8	37.2	42.8	54.3	65.3	63.3	56.1	40.3	29.3	26.1	--
Sacaton	1908-53	1,280	Highest	84	92	98	106	117	116	115	114	114	107	98	88	117
			Lowest	9	17	22	28	33	43	56	56	41	28	19	15	9
			Avg. Hi.	77.2	81.5	88.2	96.4	104.1	110.8	108.9	108.8	106.5	98.4	87.8	78.7	--
			Avg. Low	20.7	27.7	30.7	36.2	44.1	52.3	63.8	64.0	53.7	37.6	26.9	23.0	--
Safford	1898-1953	2,900	Highest	80	87	93	99	110	112	114	112	108	99	89	85	114
			Lowest	8	12	18	24	27	37	49	47	36	20	16	7	7
			Avg. Hi.	71.5	78.6	84.1	90.1	99.1	104.2	107.2	103.2	99.9	92.7	80.7	71.2	—
			Avg. Low	16.9	21.2	26.0	30.6	37.9	46.5	58.6	57.6	46.6	33.0	22.8	17.8	--
Saint John's	1901-53*	5,560	Highest	73	78	85	95	97	103	104	104	99	92	82	73	104
			Lowest	-22	-13	-7	7	21	25	38	38	23	13	-21	-16	-22
			Avg. Hi.	62.8	69.1	74.2	80.3	89.5	96.9	96.1	95.5	91.5	84.7	74.2	64.2	--
			Avg. Low	-1.3	5.5	10.6	20.0	28.4	36.8	47.4	45.9	34.7	21.7	9.6	2.1	--
Salome	1907-53	1,700	Highest	85	91	96	104	112	118	117	117	118	106	94	89	118
			Lowest	15	18	23	26	34	42	50	50	42	28	16	16	15
			Avg. Hi.	76.4	79.9	86.2	95.7	102.9	111.5	112.7	110.7	109.3	97.8	86.6	77.7	—
			Avg. Low	22.8	26.0	29.9	33.8	42.3	49.9	60.7	61.5	51.0	38.8	28.7	24.5	--
San Carlos	1941-53	2,643	Highest	78	85	90	101	110	111	111	110	112	100	90	80	112
			Lowest	9	12	21	20	30	38	46	50	36	28	13	3	3
			Avg. Hi.	73.9	79.7	84.6	93.5	100.5	107.8	107.8	106.2	104.9	94.2	83.5	74.2	—
			Avg. Low	16.2	18.5	24.0	29.0	36.3	43.4	55.6	56.8	48.0	33.7	20.0	16.2	--
San Carlos Resvr.	1930-53	2,532	Highest	77	80	91	104	108	113	113	113	110	101	90	79	113
			Lowest	16	20	24	28	31	50	56	56	51	33	22	22	16
			Avg. Hi.	70.7	75.5	83.4	92.2	99.3	106.8	107.8	106.4	104.0	94.4	82.3	72.4	--
			Avg. Low	24.6	27.4	32.0	37.1	45.4	55.1	65.1	64.9	56.3	42.5	30.9	26.4	--
Sanders	1949-53	5,921	Highest	72	70	77	83	95	99	99	97	96	86	75	71	99
			Lowest	-6	-22	1	10	18	25	40	38	26	17	-14	-12	-22
San Rafael Ranch	1950-53	4,741	Highest	79	80	80	85	100	102	102	101	103	94	85	80	103
			Lowest	11	4	13	22	20	29	40	43	40	25	5	1	1
San Simon	1903-08 1913-16 1940-53	3,608	Highest	82	88	93	97	106	110	109	111	105	98	88	80	111
			Lowest	-5	10	9	17	24	38	48	47	38	20	11	5	-5
			Avg. Hi.	69.6	76.6	84.1	89.6	97.6	105.0	105.2	102.5	99.7	91.3	95.9	71.9	--
			Avg. Low	13.0	17.9	22.4	28.8	34.7	44.4	55.8	56.5	44.1	30.5	20.9	16.8	--
Santa Rita Range	1916-53	4,300	Highest	81	81	87	94	100	107	108	106	102	98	92	79	108
			Lowest	10	17	20	26	32	42	53	52	46	30	20	16	10
			Avg. Hi.	71.8	74.6	79.1	86.5	93.7	101.0	100.7	96.9	95.1	89.5	80.0	73.2	--
			Avg. Low	23.2	27.1	29.7	34.5	42.6	52.7	60.5	59.5	54.6	41.0	30.6	25.9	--
Sedona R.S.	1943-53	4,223	Highest	75	78	80	91	100	106	105	105	104	95	87	77	106
			Lowest	11	10	17	20	33	40	55	52	41	27	22	11	10
			Avg. Hi.	68.4	70.9	74.7	85.1	91.9	100.3	102.1	101.6	100.1	88.4	75.9	68.5	--
			Avg. Low	16.6	18.9	24.0	28.0	36.9	45.3	58.7	57.3	48.0	35.2	25.1	19.1	--
Seligman	1904-53	5,219	Highest	79	78	90	92	98	103	110	105	101	92	85	75	110
			Lowest	-18	-12	5	10	18	26	37	34	26	13	-5	-17	-18
			Avg. Hi.	65.0	67.9	74.8	81.9	89.1	97.1	99.0	96.7	92.2	84.3	75.5	66.4	--
			Avg. Low	4.4	9.6	14.3	19.6	27.3	34.0	44.1	44.3	34.8	23.6	13.7	6.2	--

TABLE 7 —(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Sells	1917-25 1940-53	2,369	Highest	84	92	97	101	106	112	113	113	112	103	91	86	113
			Lowest	16	19	27	32	40	46	54	54	48	34	26	22	16
			Avg. Hi.	78.8	82.2	85.2	94.3	100.4	103.3	108.5	106.0	105.5	97.7	85.6	79.8	--
			Avg. Low	25.1	28.2	32.3	37.4	44.1	55.4	62.4	62.9	52.9	42.1	30.7	28.4	--
Sentinel	1906-16	690	Highest	88	89	100	105	110	124	122	120	115	116	97	87	124
			Lowest	18	27	26	35	40	45	60	58	50	38	21	18	18
			Avg. Hi.	76.8	83.2	92.4	99.1	106.1	115.7	115.7	114.5	110.3	101.0	88.7	78.2	--
			Avg. Low	27.6	30.9	39.6	44.1	50.1	60.8	71.3	59.1	46.4	37.3	29.6	29.6	--
Showlow	1949-53*	6,412	Highest	67	66	73	80	82	93	94	92	91	81	73	62	94
			Lowest	-3	-2	-6	14	23	32	44	45	28	18	-6	-8	-8
Sierra Ancha	1935-53	5,100	Highest	74	77	80	91	97	104	104	103	103	94	82	75	104
			Lowest	3	10	17	23	30	41	50	45	39	25	19	10	3
			Avg. Hi.	67.0	70.3	74.4	83.5	90.1	98.7	100.7	98.3	96.7	86.4	75.4	68.5	--
			Avg. Low	16.4	20.1	24.3	27.9	39.7	47.4	55.5	55.2	49.1	36.6	25.3	20.8	--
Snow-flake	1897-1953	5,644	Highest	74	78	80	92	98	102	104	102	98	88	90	74	104
			Lowest	-30	-12	-5	8	18	20	27	28	22	11	-17	-20	-30
			Avg. Hi.	61.8	66.4	71.4	80.6	87.7	96.8	94.6	94.7	90.4	83.4	74.1	63.5	--
			Avg. Low	-1.1	4.7	11.8	19.2	26.4	32.4	44.8	45.3	33.1	21.2	10.0	0.7	--
Springer-ville	1911-53	6,964	Highest	71	73	78	84	91	100	96	93	95	88	86	76	100
			Lowest	-17	-20	-13	5	18	25	36	32	22	9	-13	-28	-28
			Avg. Hi.	61.4	64.2	68.2	75.5	81.8	89.3	89.3	86.6	84.2	77.9	70.8	63.1	--
			Avg. Low	-3.9	1.7	6.9	14.9	24.6	32.6	43.2	41.9	31.1	18.6	5.6	-2.5	--
Stanton	1944-53	3,480	Highest	80	80	82	92	103	105	105	106	107	94	87	80	107
			Lowest	15	20	27	26	36	46	60	58	49	32	28	26	15
			Avg. Hi.	72.6	74.7	77.6	87.9	94.0	101.5	103.7	102.8	101.9	90.9	80.4	72.5	--
			Avg. Low	23.8	27.5	29.7	34.6	41.3	51.6	62.5	61.4	55.3	44.1	33.1	29.0	--
Superior	1950-53	2,995	Highest	80	82	87	92	107	107	111	107	110	102	85	82	111
			Lowest	28	28	32	39	43	56	67	65	59	47	32	29	28
Superstition Mt.	1946-53	1,950	Highest	83	88	90	101	111	112	114	112	115	102	91	88	115
			Lowest	24	27	32	37	45	57	62	66	61	38	34	28	24
			Avg. Hi.	77.4	82.4	85.7	96.6	104.7	109.6	111.7	110.6	110.6	100.7	87.5	79.0	--
			Avg. Low	28.4	32.3	36.4	42.0	50.4	60.7	68.4	68.4	64.4	51.1	38.1	33.1	--
Tempe	1926-53	1,159	Highest	86	89	92	102	110	115	113	113	114	105	95	90	115
			Lowest	15	21	27	32	40	45	57	56	45	32	25	20	15
			Avg. Hi.	76.9	81.0	87.0	95.6	102.2	109.3	110.6	109.0	106.9	97.8	86.5	78.6	--
			Avg. Low	25.0	29.1	33.4	37.9	46.0	52.1	64.1	64.1	54.7	40.7	31.0	26.3	--
Tombstone	1897-1953	4,540	Highest	84	85	92	98	100	110	107	105	103	99	91	84	110
			Lowest	9	14	20	27	32	41	53	53	43	30	19	12	9
			Avg. Hi.	72.5	74.8	81.1	88.0	94.6	102.5	101.5	97.7	95.2	86.2	80.3	72.6	--
			Avg. Low	20.8	24.2	28.0	33.4	41.0	52.4	59.0	58.8	51.8	38.4	29.0	22.7	--
Truxton Canyon	1910-53*	3,820	Highest	77	80	84	94	102	110	110	108	109	96	89	78	110
			Lowest	-3	3	16	22	29	38	41	40	36	22	10	-2	-3
			Avg. Hi.	66.2	69.3	77.7	85.4	93.9	102.4	104.6	102.6	97.3	89.5	79.3	69.6	--
			Avg. Low	12.5	16.6	23.5	28.3	35.8	41.9	53.9	52.6	44.2	33.3	23.1	15.2	--
Tuba City	1897-1953	4,936	Highest	67	73	84	88	100	110	110	108	103	90	81	70	110
			Lowest	-15	-3	11	14	22	34	36	44	28	18	-4	-13	-15
			Avg. Hi.	57.4	64.9	73.9	81.0	90.2	98.6	100.8	99.1	94.2	83.7	70.9	59.6	--
			Avg. Low	6.3	14.9	19.8	26.0	34.0	42.1	52.7	52.3	41.1	43.0	16.4	8.4	--
Tucson Airport	1940-53	2,558	Highest	87	89	92	102	107	109	110	109	107	98	90	82	110
			Lowest	16	20	26	27	38	52	62	63	48	35	25	22	16
			Avg. Hi.	78.5	80.8	85.4	93.8	100.4	106.7	107.8	105.0	104.1	95.1	85.7	77.6	--
			Avg. Low	25.2	27.5	32.1	38.0	46.4	55.6	67.0	65.8	58.4	43.0	30.9	27.6	--
Tucson Mag. Obs.	1912-16 1934-53	2,526	Highest	88	88	93	102	108	113	111	111	110	102	92	84	113
			Lowest	6	14	18	25	31	44	51	57	42	31	20	18	6
			Avg. Hi.	75.2	80.5	86.0	90.9	101.6	103.8	108.2	106.0	103.6	96.1	86.8	78.0	--
			Avg. Low	20.4	23.8	28.7	33.6	40.0	48.5	61.0	62.5	52.2	37.4	26.9	22.8	--
Tucson Mtn. Park	1943-53	2,850	Highest	85	88	92	97	107	110	110	111	109	101	89	84	111
			Lowest	19	29	30	29	40	51	62	62	55	38	26	24	19
			Avg. Hi.	77.7	80.8	85.6	93.9	99.4	107.5	107.1	105.9	105.4	95.6	84.9	78.3	--
			Avg. Low	26.4	31.7	34.7	37.8	47.8	56.8	64.4	65.6	60.7	47.0	34.6	30.7	--
Tumacacori	1946-53	3,267	Highest	88	87	91	99	107	109	109	108	108	102	91	85	109
			Lowest	11	14	17	22	28	43	59	51	40	28	16	14	11
			Avg. Hi.	80.1	82.1	85.1	94.1	99.9	106.5	106.9	103.5	103.6	95.6	86.6	79.2	--
			Avg. Low	16.3	19.3	23.1	28.8	36.1	47.4	60.1	55.9	49.1	35.5	22.5	19.1	--
Tuweep	1941-53*	4,775	Highest	71	73	77	88	98	100	105	104	104	92	80	56	105
			Lowest	6	11	16	23	28	40	55	51	41	25	15	12	6
			Avg. Hi.	65.2	67.5	73.4	84.2	91.4	96.6	102.2	100.1	97.2	85.8	74.0	64.8	--
			Avg. Low	14.1	15.5	21.7	28.0	35.6	43.2	57.4	55.1	47.1	33.6	20.6	16.8	--

TABLE 7—(Continued) EXTREME TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	LENGTH OF RECORD	ELEVATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Wallace R. S.	1939-53	7,006	Highest	64	68	72	83	89	96	94	93	91	88	73	67	96
			Lowest	-22	-12	-9	14	17	24	37	34	28	7	-11	-18	-22
			Avg. Hi.	52.6	60.4	64.7	74.0	82.7	90.2	91.8	88.9	86.5	77.2	66.4	58.6	--
			Avg. Low	- 6.4	- 2.2	4.4	18.9	24.4	30.1	42.1	41.9	31.9	20.9	6.1	-3.0	--
Wellton	1922-53	260	Highest	89	89	100	105	114	120	121	120	118	108	96	86	121
			Lowest	14	14	20	31	30	47	54	50	42	32	19	16	14
			Avg. Hi.	78.4	84.2	91.3	99.7	107.4	113.2	115.2	113.9	111.0	101.9	88.2	78.8	--
			Avg. Low	21.6	25.1	30.2	37.8	46.1	51.5	63.4	64.6	53.7	39.6	26.6	22.2	--
White-river	1922-34 1940-53	5,280	Highest	75	76	80	90	97	103	106	101	101	93	82	79	106
			Lowest	-13	-6	5	15	22	33	45	42	32	21	-7	-8	-13
			Avg. Hi.	66.9	69.9	74.8	81.8	90.0	98.4	99.3	96.6	93.9	85.8	75.3	68.2	--
			Avg. Low	6.2	10.3	14.6	23.9	31.4	39.2	50.2	50.3	40.1	27.2	13.5	8.3	--
Wickenburg	1908-53	2,070	Highest	87	89	92	100	114	115	117	113	116	109	93	87	117
			Lowest	10	14	20	24	32	38	40	47	37	23	16	10	10
			Avg. Hi.	76.3	78.3	84.0	91.1	100.7	109.2	110.2	108.0	104.2	95.6	85.0	77.7	--
			Avg. Low	20.0	23.3	28.0	32.1	39.7	45.8	57.6	57.3	48.1	36.4	27.1	21.5	--
Willcox	1903-53	4,200	Highest	81	84	93	96	105	108	110	105	105	95	91	81	110
			Lowest	2	6	9	19	22	30	42	41	33	18	8	8	2
			Avg. Hi.	70.2	75.6	82.4	89.0	96.8	104.0	104.3	100.4	97.5	90.6	81.3	71.3	--
			Avg. Low	12.3	17.0	20.5	26.2	32.7	40.7	53.7	54.1	42.0	29.0	19.3	15.6	--
Wikieup	1952-53	2,125	Highest	83	80	89	95	102	110	116	116	112	103	89	80	116
			Lowest	19	16	24	21	37	42	52	52	41	32	20	15	15
Williams	1906-53	6,750	Highest	67	69	75	87	92	99	99	96	93	85	77	71	99
			Lowest	-25	-17	-6	2	8	22	32	32	22	7	-7	-17	-25
			Avg. Hi.	59.0	60.1	66.7	75.6	83.0	92.1	90.9	89.8	86.1	78.0	69.8	63.7	--
			Avg. Low	-2.5	1.1	7.9	16.9	23.1	30.0	41.2	41.0	30.9	19.8	10.0	0.4	--
Willow Spring Ranch	1943-53*	3,690	Highest	74	78	82	97	102	107	107	105	104	97	84	78	107
			Lowest	23	12	24	28	36	44	49	55	40	31	20	17	12
			Avg. Hi.	71.4	75.0	77.4	90.6	95.5	100.5	103.1	100.3	100.5	92.4	80.3	73.6	--
			Avg. Low	25.2	23.6	27.4	31.1	40.9	50.0	58.1	58.8	44.1	41.0	27.7	25.0	--
Window Rock	1937-53	6,750	Highest	64	65	72	84	90	96	96	96	94	85	75	68	96
			Lowest	-15	-17	-12	10	18	26	36	38	27	15	-10	-14	-17
			Avg. Hi.	56.3	59.6	66.9	75.9	83.3	91.5	93.4	91.2	87.9	78.3	68.2	60.0	--
			Avg. Low	-4.9	-1.0	6.1	16.8	24.4	32.0	43.9	43.2	33.2	21.5	6.8	-1.0	--
Winslow	1898-1953	4,880	Highest	73	83	87	94	103	106	107	104	99	91	81	71	107
			Lowest	-18	-9	6	14	23	29	42	44	29	17	-9	-19	-19
			Avg. Hi.	62.0	69.1	75.3	84.4	92.4	93.8	101.0	98.1	93.7	85.0	73.5	63.2	--
			Avg. Low	3.9	10.4	16.5	23.7	32.0	40.1	52.2	51.4	40.7	25.8	13.5	5.9	--
Wittman	1930-48	1,540	Highest	82	86	94	100	111	116	117	115	113	102	91	83	117
			Lowest	16	18	29	32	34	49	58	60	48	30	23	22	16
			Avg. Hi.	58.6	79.2	85.3	94.8	102.8	110.9	112.9	110.6	107.8	97.1	85.7	77.2	--
			Avg. Low	24.9	28.5	32.5	37.5	46.2	50.7	62.6	66.2	55.5	42.3	32.1	27.8	--
Wupatki	1939-53	4,908	Highest	70	74	78	92	100	104	105	101	102	88	79	68	105
			Lowest	-2	2	14	21	30	41	55	47	41	30	7	4	-2
			Avg. Hi.	61.3	68.0	75.0	83.4	92.5	99.7	101.7	98.9	95.5	84.1	71.2	61.3	--
			Avg. Low	7.7	14.8	20.8	29.7	37.6	46.3	57.8	53.7	47.5	33.8	20.3	13.0	--
Yuma Apt.	1946-53	199	Highest	87	93	95	105	115	117	116	118	123	109	94	84	123
			Lowest	29	28	32	43	49	55	72	67	59	44	33	29	28
			Avg. Hi.	80.8	87.0	89.6	102.0	107.5	112.8	111.1	115.1	114.9	104.8	89.4	80.4	--
			Avg. Low	31.0	34.6	39.1	47.1	53.6	61.2	73.5	71.2	65.5	51.0	38.6	34.1	--
Yuma City	1876-1949	138	Highest	84	92	100	108	120	119	120	119	117	107	96	83	120
			Lowest	22	25	31	38	39	50	61	58	50	38	29	22	22
			Avg. Hi.	76.9	83.0	90.9	97.6	104.9	111.9	113.3	112.3	110.6	103.0	87.0	76.8	--
			Avg. Low	31.9	35.6	40.2	44.5	51.5	58.7	67.5	67.7	58.6	46.9	38.2	34.5	--

Table 8. Highest and Lowest Temperatures. Arizona, U. S., and World

Location		Highest Temp. Degrees F.	Lowest Temp. Degrees F.	Year
Arizona	Parker	127	—	1905
	Fort Valley	—	—33	1912
U. S. (14)	Greenland Ranch			
	Death Valley, Calif	134	—	1913
	Rogers Pass, Mont.	—	—70	1954
World (14)	Azizia, Libia, North Africa	136	—	1922
	Verkhayansk, Siberia	—	—90	1892

TABLE 9. — MEAN MONTHLY AND MEAN ANNUAL TEMPERATURES AT SELECTED CITIES IN THE UNITED STATES, PERIOD OF 1921-1953*

STATION	STATE	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Atlanta	Georgia	45	47	53	62	70	78	80	79	74	63	52	45	62.2
Bismark	N. Dakota	10	13	27	43	55	64	72	69	58	46	28	16	41.7
Boise	Idaho	27	34	42	50	58	65	75	73	62	53	40	31	50.8
Boston	Massachusetts	29	29	38	47	58	67	72	72	64	54	44	33	50.7
Buffalo	New York	26	25	33	44	55	66	71	69	62	51	40	29	47.5
Chicago	Illinois	25	27	37	48	59	69	75	73	66	54	40	28	50.1
Dallas	Texas	46	50	57	66	74	82	86	86	79	69	56	48	66.5
Denver	Colorado	29	32	38	48	56	66	73	71	63	52	40	30	49.3
Des Moines	Iowa	22	26	37	50	61	71	76	74	66	54	38	26	50.2
Detroit	Michigan	26	27	35	46	58	68	73	71	64	53	40	30	49.3
El Paso	Texas	43	49	55	63	72	80	81	80	75	65	52	45	63.3
Flagstaff	Arizona	25	29	34	42	50	58	65	63	57	46	36	28	44.6
Galveston	Texas	54	57	62	69	76	82	83	84	80	74	64	57	70.1
Green Bay	Wisconsin	16	17	28	42	54	65	70	68	60	48	34	20	43.6
Helena	Montana	18	23	32	43	52	59	68	66	55	45	32	23	43.0
Jacksonville	Florida	57	59	63	69	75	80	82	82	79	71	63	58	69.8
Kansas City	Missouri	30	35	44	56	66	75	81	79	71	60	44	34	56.1
Los Angeles	California	55	56	59	62	65	68	73	73	71	67	62	57	63.9
Miami	Florida	68	69	71	74	77	80	82	82	81	78	72	70	75.3
New Orleans	Louisiana	56	58	63	70	76	82	83	83	80	73	62	57	70.4
New York City	New York	33	33	41	50	61	70	75	73	67	57	46	36	53.4
Phoenix	Arizona	50	54	60	67	76	84	90	88	83	71	58	52	69.4
Prescott	Arizona	35	39	45	53	61	70	76	74	68	57	46	38	55.2
Salt Lake City	Utah	29	34	42	51	60	69	78	76	66	55	41	33	53.0
San Francisco	California	50	53	55	56	57	59	59	59	62	61	57	52	56.7
Savannah	Georgia	52	54	59	66	73	80	81	81	77	68	58	52	66.8
Seattle	Washington	41	44	47	52	58	62	66	65	61	54	47	43	53.2
St. Paul	Minnesota	15	18	31	46	58	68	74	72	62	50	33	19	45.6
Tampa	Florida	61	64	70	70	79	81	82	81	79	71	63	58	69.8
Tucson	Arizona	50	53	58	65	73	82	86	84	80	70	58	52	67.6
Washington	D. C.	36	38	46	55	65	74	78	76	70	58	48	38	56.8
Yuma	Arizona	55	60	66	73	80	88	95	94	88	76	64	57	74.7
	AT OTHER SELECTED ARIZONA CITIES													
Ajo	Arizona	47	51	55	64	70	80	87	86	80	68	55	49	65.9
Douglas	Arizona	29	32	37	43	50	59	66	65	60	47	36	31	46.3
Grand Canyon	Arizona	29	33	38	46	54	63	69	67	60	50	39	31	48.4
Kingman	Arizona	43	47	52	59	66	75	82	80	74	63	52	44	61.3
Mc Nary	Arizona	30	32	36	44	51	59	64	63	58	48	38	33	46.4
Nogales	Arizona	45	49	53	60	67	76	80	77	74	64	54	48	62.3
Payson	Arizona	36	39	43	50	57	66	73	71	65	54	43	37	52.8
Safford	Arizona	43	49	53	61	69	79	84	81	77	64	55	44	63.4
Springerville	Arizona	31	35	39	47	54	63	67	65	60	51	40	33	48.6
Wickenburg	Arizona	46	49	55	60	69	77	86	84	78	66	56	48	64.4
Winslow	Arizona	32	39	46	54	66	71	77	75	69	56	42	34	55.2

* Based on Local Climatological Data U. S. Weather Bureau (1953) and Arizona Station Records.

Table 10. Comparison of Annual Temperatures for Three Tucson Weather Observing Stations 1953

Station	Elevation	Annual Temperature
University of Arizona	2423	69.1
Campbell Avenue Experimental Farm	2330	66.0
U. S. Weather Bureau Municipal Airport	2558	68.5

Exposure of the instrument shelter is important. For example, a comparison of the mean temperatures for three Tucson stations for 1953 shows considerable variation due to location and exposure, as shown in Table 10. The Campbell Avenue Farm (in Tucson) is located on Rillito Creek bottom lands; as a result its temperatures are affected by cool air drainage. Similar differences are found between the Yuma Valley Farm and the Yuma Citrus Station not more than one mile apart.

Mean temperatures[3] decrease with an increase in elevation. The relationship is shown in Figure 2. At the lower elevations an increase of 1,000 feet in elevation decreases the mean temperature by two or three degrees. Above 4,000 feet a similar increase in elevation is associated with a lowering of the mean temperature by four to seven degrees.

Differences in altitude have had a profound effect upon Arizona vegetation, which ranges in the south from desert, shrub, and grassland through Oak woodland and Ponderosa Pine to Douglas Fir associations. Each vegetation type is also associated with soil differences. This was positively shown by Martin and Fletcher in their study of the relationship of the vegetation and soil on Mt. Graham to the climates on the mountain at altitudes ranging from 2,423 to 8,650 feet (9).

Mean Temperatures

Mean temperature records from the University of Arizona are found in Table 11. Similar records for the city of Phoenix are given in Table 12. Mean temperature records for the university farms are given in Table 13. Mean maximum, mean minimum, and mean temperatures for over 200 stations, representative of approximately 270 active representative cooperative stations in Arizona are given in Table 14. A few selected stations were chosen for inclusion in Figure 3, which is a comparison of mean annual temperatures at Arizona stations with those from other states and nations.

Mohawk, Arizona, which is no longer reporting weather data, is the warmest spot in Arizona insofar as is known from official temperature records. Mean temperatures at Mohawk are about the same as those at Miami, Florida and Rio de Janeiro, Brazil, while those at Bright Angel Ranger Station are comparable to those at Butte, Montana and Stockholm, Sweden. However, similar mean temperatures do not always mean that the climates are similar. Some of the differences between the climate of Mohawk and Miami are pointed out in Table 15.

[3]"Mean as used here refers to the halfway point between the highest and lowest temperatures in the period (day, month, year) referred to in the text. Thus if the day's maximum temperature were 100 degrees and the minimum 70 degrees, the mean temperature for that day would be 85 degrees.

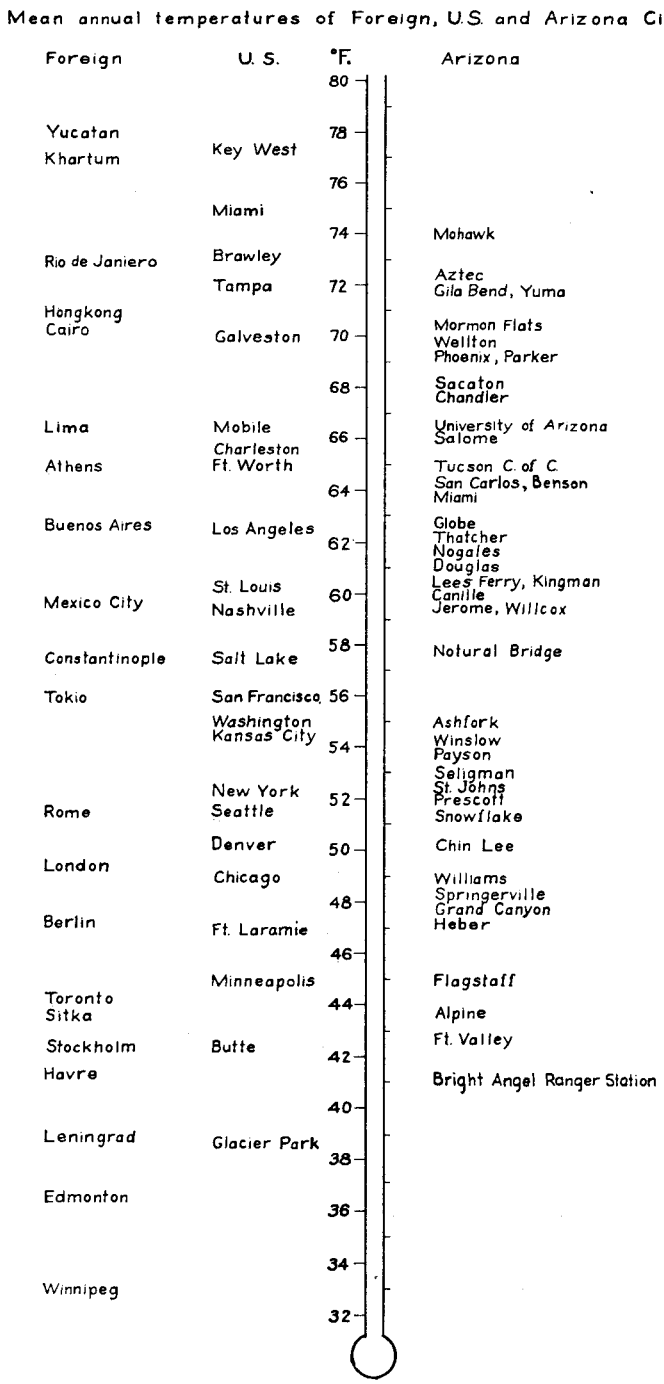


Figure 3. — Mean annual temperatures of Arizona, the United States and World cities.

TABLE.11 — MONTHLY MEAN MAXIMUM, MEAN MINIMUM, AND MEAN TEMPERATURES. UNIVERSITY OF ARIZONA. 1891-1954.

YEAR	January Mean Max.	January Mean Min.	January Mean	February Mean Max.	February Mean Min.	February Mean	March Mean Max.	March Mean Min.	March Mean	April Mean Max.	April Mean Min.	April Mean	May Mean Max.	May Mean Min.	May Mean	June Mean Max.	June Mean Min.	June Mean
1891	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1892	64.2	34.3	49.2	64.9	40.7	52.8	70.4	43.6	57.0	79.0	44.7	61.8	86.2	52.9	69.6	97.2	61.1	79.2
1893	68.9	33.7	51.3	68.5	39.4	54.0	70.3	41.8	56.0	81.0	46.3	63.6	87.8	54.6	71.2	101.4	65.7	83.6
1894	61.0	29.5	45.2	61.5	33.1	47.3	69.8	40.0	56.9	81.3	48.1	64.7	90.6	54.0	72.3	95.6	58.4	77.0
1895	65.3	38.6	50.7	70.7	37.1	52.4	76.6	41.4	58.4	84.9	46.0	65.1	91.6	57.8	73.8	99.2	63.1	80.4
1896	74.6	34.4	54.5	65.5	41.0	53.2	78.3	44.6	61.4	82.5	45.1	63.8	92.1	55.0	73.6	101.1	70.4	85.8
1897	61.0	38.0	49.6	65.4	36.0	50.7	72.1	36.0	54.0	84.0	46.4	65.2	93.4	57.9	75.6	97.4	62.8	80.1
1898	60.5	31.8	46.2	74.8	39.6	57.2	71.3	40.2	55.8	88.3	51.5	67.4	—	54.1	74.5	97.8	68.5	83.2
1899	62.3	30.8	46.6	65.2	33.3	49.2	74.3	38.8	56.6	82.3	49.1	65.7	86.6	49.3	68.0	95.8	66.0	80.9
1900	70.1	35.7	52.9	69.2	35.0	52.1	78.0	47.4	62.7	73.4	44.8	59.1	92.1	57.2	74.6	101.1	64.1	82.6
1891-1900 Average	65.3	34.1	49.6	67.3	37.2	52.1	73.5	41.7	57.7	81.9	47.0	64.0	90.0	54.8	72.6	98.5	64.5	81.4
1901	65.5	36.4	51.0	64.9	39.0	52.0	71.9	39.3	55.6	79.7	43.7	61.7	89.7	54.6	72.2	97.0	61.8	79.4
1902	67.6	33.2	50.4	70.8	34.3	52.6	71.0	37.2	54.1	85.7	46.9	66.3	89.1	53.9	71.5	101.6	64.6	83.1
1903	64.3	33.5	48.9	59.5	31.1	45.3	72.2	38.0	55.1	80.1	44.3	62.2	87.8	52.2	70.0	98.4	62.4	80.4
1904	63.8	27.1	45.4	74.6	37.9	56.2	77.8	42.6	60.2	83.4	44.4	63.9	89.9	55.6	72.8	98.3	65.4	81.8
1905	57.9	39.5	48.7	57.6	43.6	50.6	62.5	45.6	54.0	69.0	47.7	58.4	79.9	49.3	64.6	94.1	61.4	77.7
1906	66.2	35.0	50.6	68.6	41.9	55.2	75.4	41.5	58.4	79.0	45.0	62.0	89.0	50.4	69.7	100.0	60.1	80.0
1907	63.3	39.4	51.4	70.9	41.0	56.0	75.9	40.8	58.4	83.8	46.6	65.2	88.3	53.3	70.8	96.7	59.3	78.0
1908	67.5	34.8	51.2	66.3	36.5	51.4	75.6	42.1	58.8	82.2	46.1	64.2	86.7	49.6	68.2	99.2	59.2	79.2
1909	70.1	37.4	53.8	66.4	34.5	50.4	69.3	36.8	53.0	82.0	44.8	63.4	87.7	49.5	68.6	100.1	62.7	81.4
1910	64.7	35.4	50.0	68.9	31.3	50.1	81.5	44.7	63.1	86.3	47.4	66.8	94.9	55.7	75.3	101.4	64.3	82.8
1901-1910 Average	65.1	35.2	50.1	66.8	37.1	52.0	73.3	40.9	57.1	81.1	45.7	63.4	88.3	52.4	70.4	98.7	60.8	80.4
1911	69.6	39.6	54.6	65.4	38.2	51.8	78.3	47.1	62.7	82.6	47.1	64.8	91.7	53.7	72.7	96.6	63.1	81.4
1912	68.9	32.2	50.6	70.7	32.7	51.7	68.3	43.5	55.9	74.4	43.0	58.7	89.8	51.6	70.7	100.1	65.8	83.0
1913	60.5	29.0	44.8	62.9	37.5	50.2	70.7	37.1	53.9	80.7	47.4	64.0	90.0	52.2	71.1	96.8	59.6	78.2
1914	69.1	38.6	53.8	67.8	36.8	52.3	76.2	45.2	60.7	82.7	49.0	65.8	90.8	56.5	73.6	97.5	66.9	82.2
1915	59.5	34.1	46.8	62.4	39.6	51.0	67.3	40.3	53.8	77.1	45.3	61.2	83.7	50.2	66.9	98.6	63.9	81.2
1916	62.2	39.3	50.8	73.6	42.2	57.9	78.3	44.9	61.6	81.9	46.0	64.0	90.1	50.8	70.2	100.4	59.9	80.2
1917	61.1	36.0	48.6	67.2	33.0	50.1	73.1	34.2	53.6	80.3	43.4	61.8	84.0	49.1	66.6	101.5	62.9	82.2
1918	64.1	31.5	47.8	71.6	37.6	54.6	75.9	45.9	60.9	81.1	47.2	64.2	86.5	52.8	69.6	101.2	69.7	85.4
1919	63.9	31.4	47.6	62.5	33.6	48.0	71.5	38.3	54.9	83.0	48.0	65.5	88.7	55.4	72.0	100.6	64.2	82.4
1920	64.4	39.3	51.8	68.8	41.5	55.2	70.0	39.6	54.8	76.1	40.9	58.5	91.2	52.3	71.8	97.9	61.7	79.8
1911-1920 Average	64.3	35.1	49.7	67.3	37.3	52.3	73.0	41.6	57.3	80.0	45.7	62.8	88.6	52.5	70.5	99.2	63.8	81.6
1921	66.6	37.5	52.0	71.7	36.4	54.0	78.2	43.2	60.7	79.1	44.0	61.6	86.1	52.0	69.0	97.2	61.8	79.5
1922	63.4	32.6	48.0	68.6	36.5	52.6	73.5	37.4	55.4	77.5	44.8	60.6	92.1	54.8	73.4	101.7	64.4	83.0
1923	70.9	37.2	54.0	67.7	39.8	53.8	72.2	39.7	56.0	80.7	47.6	64.2	92.5	56.1	74.3	97.2	59.6	78.4
1924	64.8	32.7	48.8	72.6	36.0	54.3	67.8	36.9	52.4	77.7	45.4	61.6	91.6	56.1	73.8	103.4	65.5	84.4
1925	65.8	29.5	47.6	74.1	38.6	56.4	79.8	41.2	60.5	84.7	46.2	65.4	92.5	57.3	74.9	95.6	65.0	80.3
1926	60.6	31.8	46.2	72.4	38.2	55.3	73.7	45.5	59.6	77.6	51.8	64.7	88.8	55.2	72.0	100.5	64.5	82.5
1927	71.4	38.2	54.8	69.4	43.1	56.4	71.7	40.6	57.0	81.5	47.9	64.8	90.9	55.5	73.2	97.1	63.5	80.3
1928	68.4	33.2	50.8	67.3	36.6	52.0	77.4	43.2	60.3	81.6	44.2	62.9	91.0	59.7	75.4	98.9	64.9	82.0
1929	63.5	32.5	48.0	62.9	36.6	49.8	71.5	40.0	55.8	79.6	45.0	62.3	90.8	55.6	73.2	100.0	62.7	81.6
1930	62.1	37.5	49.8	72.9	38.8	55.8	70.4	42.7	56.6	84.1	51.7	67.9	85.6	54.3	70.0	98.9	66.5	82.7
1921-1930 Average	65.8	34.3	50.0	70.0	38.1	55.0	73.6	41.0	57.4	80.4	46.9	63.6	90.2	55.7	72.9	99.0	63.8	81.5
1931	64.1	35.4	49.8	64.4	42.7	53.6	73.7	41.9	57.8	81.5	52.9	67.2	89.9	56.9	73.4	96.7	66.3	81.5
1932	57.2	29.4	43.3	67.7	41.5	54.6	72.6	42.2	57.4	81.6	45.4	63.5	89.6	53.8	71.7	97.6	61.6	79.6
1933	62.4	33.0	48.6	63.3	31.7	47.5	76.6	38.9	57.8	77.3	43.9	60.6	85.3	48.9	67.1	98.5	66.3	82.4
1934	66.6	32.1	49.4	72.4	40.3	56.4	82.1	45.7	63.9	86.0	52.0	69.0	96.2	60.5	78.4	96.7	62.8	79.8
1935	65.6	38.6	52.1	66.7	43.2	55.0	68.5	41.6	55.0	81.2	48.2	64.7	83.0	52.2	67.6	100.0	64.0	82.0
1936	65.7	31.9	48.8	67.6	38.7	53.2	75.0	43.2	59.0	85.4	48.4	66.9	94.0	56.6	75.3	101.7	66.0	83.8
1937	54.4	28.1	41.2	68.3	37.2	52.8	71.1	40.5	56.0	82.2	45.3	62.8	91.9	55.7	73.8	98.1	64.4	81.2
1938	67.1	37.2	52.4	67.0	41.3	54.2	72.1	43.1	57.6	82.3	48.7	65.5	89.2	53.4	71.3	98.6	65.1	81.8
1939	63.6	37.2	50.4	58.5	32.5	45.5	75.7	42.8	59.2	84.0	50.4	67.2	92.0	55.7	74.0	99.8	65.5	82.6
1940	67.6	37.5	52.6	67.1	38.5	52.8	76.9	42.9	59.9	81.5	49.4	65.4	93.1	58.8	76.0	98.9	66.3	82.6
1931-1940 Average	63.4	34.0	48.9	66.3	38.8	52.6	74.4	42.3	58.4	82.3	48.5	65.3	90.4	55.2	72.9	98.7	64.8	81.7
1941	64.3	40.3	52.3	69.3	45.0	57.2	71.2	43.9	57.6	76.0	45.1	60.6	89.5	55.8	72.6	97.3	62.5	79.9
1942	66.1	38.2	52.2	65.7	36.0	50.8	73.5	37.5	55.5	80.6	46.8	63.7	92.5	52.5	72.5	100.9	61.6	81.2
1943	65.4	36.8	51.1	72.1	39.7	55.9	76.1	42.3	59.2	87.6	47.7	67.6	92.8	54.5	73.6	98.5	63.8	81.2
1944	63.8	33.3	48.6	65.0	37.0	51.0	72.2	40.9	56.6	80.5	47.2	63.8	90.0	56.4	73.2	98.5	62.4	80.4
1945	62.9	35.3	49.1	68.7	37.0	52.8	69.8	40.8	55.3	83.2	46.2	64.7	97.6	56.3	74.0	97.9	59.2	78.6
1946	59.8	34.2	47.0	68.9	32.8	50.9	77.4	42.4	59.9	88.0	53.4	70.7	90.6	54.5	72.6	102.8	64.7	83.8
1947	61.1	32.8	47.0	72.8	37.9	55.4	75.6	40.6	58.1	82.3	46.3	64.3	94.0	58.1	76.0	99.3	63.9	81.6
1948	67.8	34.3	51.1	64.4	37.8	51.1	62.6	40.5	51.6	85.7	50.2	68.0	93.9	56.1	75.0	101.0	65.4	83.2
1949	52.8	34.8	43.8	65.9	35.8	50.9	74.5	42.9	58.7	84.6	51.7	68.2	91.9	56.4	74.2	99.7	67.8	83.8
1950	65.3	35.9	50.6	73.0	41.3	57.1	77.7	43.4	60.6	86.8	52.0	69.4	90.4	54.3	72.4	99.6	63.4	81.5
1941-1950 Average	62.9	35.6	49.2	68.6	38.0	53.3	73.1	41.5	57.3	83.5	48.7	66.1	91.7	55.5	73.6	99.6	63.5	81.5
1951	67.1	36.3	51.7	71.2	39.6	55.4	75.4	42.7	59.1	82.3	50.2	66.3	92.1	56.6	74.4	99.2	61.9	80.6
1952	67.3	39.9	53.6	67.8	37.7	52.8	66.8	40.1	53.5	81.2	50.9	66.1	94.2	59.7	77.0	100.9	66.7	83.8
1953	72.5	36.5	54.5	71.0	36.0	53.5	77.3	45.1	61.2	81.8	49.3	65.6	86.3	52.4	69.4	101.8	66.2	84.0
1954	70.4	36.9	53.7	77.8	42.8	60.3	74.6	44.4	59.5	88.9	52.8	70.9	93.4	59.3	75.9	99.4	64.5	82.0
1891-1954 Average	64.8	34.9	49.8	68.0	37.8	52.9	73.5	41.6	57.6	81.6	47.3	64.4	90.0	54.5	72.2	99.0	63.8	81.4
1921-1950 Average	64.0	34.6	49.3	68.3	38.3	53.3	73.7	41.6	57.6	82.1	48.0	65.1	90.8	55.5	73.2	99.1	64.0	81.6

YEAR	July Mean Max.	July Mean Min.	July Mean	August Mean Max.	August Mean Min.	August Mean	September Mean Max.	September Mean Min.	September Mean	October Mean Max.	October Mean Min.	October Mean	November Mean Max.	November Mean Min.	November Mean	December Mean Max.	December Mean Min.	December Mean	ANNUAL Mean Max.	ANNUAL Mean Min.	ANNUAL Mean
1891	--	--	--	--	--	--	--	--	--	87.1	54.6	70.8	76.5	41.3	58.9	60.0	28.8	44.4	--	--	--
1892	99.0	76.1	87.6	97.8	72.3	85.0	96.0	66.2	81.1	81.6	52.2	66.9	74.3	42.8	58.6	61.0	31.6	46.3	81.0	51.5	66.3
1893	96.9	73.2	85.0	93.5	70.2	81.8	92.9	61.0	77.0	84.5	46.5	65.5	70.1	38.0	54.0	66.6	34.3	50.4	81.9	50.4	66.2
1894	98.8	71.5	85.2	93.9	71.2	82.6	92.2	63.2	77.7	86.0	53.4	69.7	81.6	43.4	62.5	64.3	43.6	53.9	81.4	50.8	66.1
1895	100.3	72.0	86.2	96.5	69.1	82.8	96.4	65.2	80.8	85.2	52.4	68.8	70.4	39.9	55.1	66.7	30.3	48.5	83.6	51.1	67.4
1896	96.0	74.1	85.0	95.7	72.4	84.0	93.2	68.1	80.6	81.3	56.3	68.8	73.3	42.9	58.1	69.8	38.2	54.0	83.6	53.6	68.6
1897	97.8	76.6	87.2	94.5	73.4	84.0	91.8	68.5	80.2	84.3	50.8	67.6	79.1	41.5	60.4	67.1	30.6	48.8	82.3	51.5	67.0
1898	98.7	73.8	86.2	96.5	73.0	84.8	95.5	63.1	79.3	88.7	48.2	68.4	72.5	36.5	54.5	59.3	35.2	47.2	82.2	51.3	66.8
1899	98.5	74.6	86.6	97.4	69.7	83.6	98.5	66.3	82.4	82.0	52.2	67.1	74.6	41.4	58.0	68.2	34.2	51.4	82.2	50.5	66.4
1900	102.4	74.2	86.3	98.6	66.8	82.7	91.8	61.5	76.6	84.0	53.0	68.4	75.7	44.6	60.2	68.5	36.2	51.6	85.7	51.7	67.7
1891-1900 Average	98.7	74.0	86.1	96.0	70.9	83.5	94.2	64.8	80.6	84.5	52.3	68.2	74.8	41.2	58.0	65.1	34.3	49.6	82.4	51.4	66.9
1901	101.3	73.3	86.3	99.3	70.4	84.8	97.0	62.3	79.6	86.1	52.6	69.4	78.0	44.8	61.4	68.7	32.2	50.4	83.2	51.7	67.4
1902	99.4	69.5	84.4	96.6	71.6	84.1	93.8	65.8	79.8	88.1	53.9	71.0	69.3	40.8	55.0	64.1	36.2	50.3	83.1	50.7	66.9
1903	100.8	70.7	85.8	98.3	73.3	85.8	92.4	64.3	78.4	85.7	49.0	67.4	80.1	40.1	60.1	67.8	35.2	51.8	82.3	49.5	65.9
1904	99.1	70.7	84.9	94.3	70.6	82.4	91.8	62.3	77.0	83.6	53.2	68.4	76.3	41.1	58.7	57.4	38.2	47.8	82.3	50.8	66.1
1905	99.1	69.3	84.2	99.7	72.5	86.1	94.7	66.1	80.4	86.2	53.9	69.8	69.4	45.8	57.6	60.2	34.1	47.2	77.5	52.4	64.9
1906	100.2	72.1	86.2	93.9	69.8	81.8	95.6	62.6	79.1	86.9	50.8	68.8	73.9	41.6	57.8	65.8	41.2	53.5	82.9	51.0	66.4
1907	99.7	72.0	85.8	95.7	70.3	83.0	96.6	63.4	80.0	83.6	55.7	69.6	72.7	43.5	58.1	70.1	32.8	51.4	83.1	51.5	67.3
1908	96.7	71.0	83.8	94.9	69.8	82.4	95.1	61.2	78.2	83.0	44.7	63.8	74.6	41.4	58.0	64.7	37.4	51.0	82.2	49.5	65.8
1909	98.6	71.3	85.0	94.7	70.9	82.8	92.5	63.2	77.8	87.8	47.6	67.7	74.8	39.8	57.3	61.9	33.0	47.4	82.2	49.3	65.8
1910	101.7	70.0	85.8	90.0	71.6	85.4	98.0	66.1	82.0	87.8	53.1	70.4	74.6	41.3	58.0	70.1	35.0	52.6	85.7	51.3	68.5
1901-1910 Average	99.7	71.0	85.2	96.6	71.1	83.9	94.8	63.7	79.2	85.9	51.4	68.6	74.4	42.0	58.2	65.1	35.5	50.3	82.4	50.6	66.5
1911	96.1	71.1	83.6	99.3	70.8	85.0	94.2	68.2	81.2	82.7	51.4	67.0	62.9	39.0	51.0	60.8	29.3	45.0	81.7	51.6	66.7
1912	94.6	68.5	81.6	96.5	68.8	82.6	94.6	59.1	76.8	81.0	50.3	65.6	74.4	39.9	57.2	61.6	30.0	45.8	81.2	48.8	65.3
1913	98.2	68.8	83.5	97.5	69.5	83.5	93.3	62.8	78.0	84.6	49.2	66.9	71.3	47.7	59.5	61.3	36.4	48.8	80.6	49.8	65.2
1914	94.9	71.3	83.1	98.1	70.4	84.2	94.0	66.1	80.0	82.0	51.6	66.8	75.1	45.7	60.4	59.3	35.7	47.5	82.3	52.8	67.6
1915	99.0	75.5	87.2	100.4	73.4	86.9	93.7	63.2	78.4	87.9	60.8	70.7	73.3	40.9	57.2	65.8	36.1	49.4	80.7	51.9	65.9
1916	97.8	71.0	84.4	96.1	69.6	82.8	94.0	64.8	79.4	83.6	48.9	66.2	75.2	35.6	55.4	64.5	29.5	47.9	83.2	50.2	66.6
1917	99.2	71.8	85.5	98.7	67.5	83.1	94.3	65.9	80.1	90.8	50.9	70.8	80.5	39.9	60.2	75.1	31.0	53.0	83.8	48.8	66.3
1918	99.6	72.8	86.2	95.5	68.1	81.8	97.0	65.8	81.4	86.5	53.4	70.0	70.4	42.1	56.2	61.7	36.3	49.0	82.6	51.9	67.3
1919	95.4	70.8	83.1	96.3	70.0	83.2	89.5	64.3	76.9	79.7	48.4	64.0	72.9	42.1	57.5	68.0	37.5	52.8	81.0	50.3	65.6
1920	103.6	71.2	87.4	96.1	69.1	82.6	93.5	60.9	77.2	82.5	47.6	65.0	75.1	38.6	56.8	65.6	29.0	47.3	82.1	49.3	65.7
1911-1920 Average	97.9	71.4	84.6	97.4	69.7	83.6	93.8	64.1	78.9	84.1	51.2	67.3	73.1	41.2	57.1	64.4	33.1	48.6	81.9	50.5	66.2
1921	95.9	72.3	84.1	94.4	69.1	81.8	94.2	63.1	78.6	89.2	52.0	70.6	78.1	38.5	58.3	69.4	39.4	54.4	83.6	50.8	67.0
1922	99.5	71.8	85.6	97.8	70.6	84.2	95.6	65.6	80.6	86.3	52.6	69.4	70.7	35.4	53.0	70.5	36.7	53.6	83.1	50.3	66.7
1923	97.5	71.5	84.5	92.5	69.1	80.8	92.8	60.6	76.7	84.8	46.0	65.4	68.0	43.2	56.0	59.6	40.0	49.8	81.4	50.8	66.2
1924	100.8	72.5	86.6	100.7	71.5	86.1	97.4	66.2	81.8	87.3	47.4	67.4	78.2	40.8	59.5	63.2	37.6	50.4	83.8	50.7	67.6
1925	100.8	75.6	88.2	96.8	70.5	83.6	94.2	62.3	78.2	81.7	54.5	68.1	71.4	41.3	56.2	63.5	37.1	50.3	83.4	51.6	67.5
1926	99.8	71.2	85.5	99.9	72.0	86.0	93.4	68.4	80.9	86.3	56.1	71.2	76.0	40.2	59.0	61.1	39.8	50.6	82.5	52.9	67.8
1927	100.8	73.2	87.0	96.3	71.6	84.0	92.7	65.1	79.9	87.3	50.9	69.1	79.1	44.3	61.7	61.9	34.7	48.3	83.3	52.4	68.0
1928	101.8	72.7	87.2	96.1	71.0	83.5	96.7	65.4	81.0	87.1	54.0	70.6	72.7	43.6	57.9	64.3	35.4	49.8	83.6	52.0	67.8
1929	98.1	74.5	86.2	96.7	71.7	84.2	92.8	66.6	79.7	85.6	53.8	69.7	71.6	36.4	54.0	71.5	34.1	52.8	82.0	50.8	66.4
1930	97.6	74.2	85.9	99.0	71.6	85.3	95.2	61.3	78.2	85.1	49.5	67.3	70.4	45.2	57.8	65.0	35.6	50.3	82.2	52.4	67.3
1921-1930 Average	99.2	73.0	86.1	97.0	70.9	84.0	94.5	64.5	78.6	86.1	51.7	68.9	73.6	40.9	57.3	65.0	37.0	51.0	82.9	51.5	67.2
1931	102.0	75.1	88.6	94.0	70.5	82.2	93.6	67.4	80.5	86.0	51.7	68.8	66.3	41.7	54.0	61.9	35.0	48.4	81.2	53.1	67.2
1932	97.5	73.5	85.5	98.0	72.5	85.2	96.0	65.3	80.6	83.0	52.7	67.8	79.3	40.6	60.0	59.8	34.5	47.2	81.7	51.1	66.4
1933	101.1	73.8	87.4	99.1	72.5	85.8	95.6	67.6	81.6	88.1	55.8	72.0	77.8	40.9	59.4	70.3	34.2	52.2	82.9	50.6	66.8
1934	101.0	74.6	87.8	95.0	72.4	83.6	95.5	63.7	79.6	89.5	51.7	70.6	72.7	40.7	56.7	65.1	38.9	52.3	84.9	53.0	69.0
1935	99.8	71.6	85.7	93.9	70.7	82.3	92.1	64.5	78.3	87.9	49.8	68.8	71.6	37.5	54.6	66.3	36.7	51.5	81.3	51.6	66.5
1936	100.8	72.7	86.8	96.8	70.8	83.8	91.9	63.3	77.6	84.7	52.5	68.6	73.0	46.8	59.9	65.6	35.9	50.8	83.5	52.2	67.9
1937	100.6	72.0	86.3	99.4	72.5	86.0	95.5	68.2	81.8	89.0	53.1	71.0	79.6	41.2	59.4	67.4	41.2	54.3	82.9	51.6	67.2
1938	98.6	70.3	84.4	97.6	69.0	83.3	95.9	66.6	81.2	86.9	53.1	70.0	70.2	37.3	53.8	68.4	37.3	53.0	82.8	51.9	67.4
1939	100.4	74.0	87.2	97.7	71.4	84.6	93.2	65.7	79.4	84.1	50.9	67.5	75.2	49.2	62.2	73.1	39.4	56.2	83.1	52.9	68.0
1940	101.6	71.3	86.4	98.0	69.8	83.9	93.6	66.1	79.8	84.8	54.1	69.4	71.1	40.8	56.0	68.3	44.0	56.2	83.5	53.2	68.4
1931-1940 Average	100.2	72.9	86.6	96.4	71.2	84.1	94.3	65.8	80.0	86.4	52.5	69.4	73.7	41.7	57.6	66.6	37.7	52.2	82.8	52.1	67.5
1941	100.1	71.5	85.8	96.6	69.7	83.2	94.5	63.0	78.8	83.6	50.3	67.0	75.1	43.4	59.2	63.8	39.0	51.4	81.7	52.4	67.1
1942	103.1	74.3	88.7	98.1	70.6	84.4	95.5	63.7	79.6	82.9	51.3	67.1	77.3	41.8	59.6	67.8	34.7	51.2	83.6	50.7	67.2
1943	102.1	70.5	86.3	96.9	68.7	82.8	96.6	62.8	79.7	85.5	53.6	69.6	76.3	41.1	58.7	65.3	38.1	51.7	84.5	51.6	68.1
1944	102.7	72.5	87.6	101.3	73.8	87.2	94.1	65.4	79.9	87.0	56.2	71.5	68.1	41.3	54.6	64.3	36.5	50.4	82.4	51.9	67.1
1945	100.3	73.6	87.0	97.9	71.9	84.9	95.1	63.8	79.4	84.0	53.5	68.8	74.8	36.1	55.4	64.3	32.0	48.2	82.5	50.5	66.5
1946	99.5	71.5	85.5	96.5	70.6	83.6	94.2	66.9	80.6	79.1	47.5	63.3	68.6	36.6	52.6	67.8	36.7	52.2	82.8	51.0	66.9
1947	103.1	73.2	88.2	96.6	72.4	84.5	97.4	67.8	82.6	86.4	53.4	69.9	66.9	40.5	53.7	60.9	34.6	47.8	83.0	51.8	67.4
1948	102.5	74.6	88.6	100.7	73.7	87.2	98.5	70.0	84.2	86.9	60.0	73.4	71.4	36.2	53.8	65.0	39.7	52.4	83.8	53.2	68.5
1949	98.4	74.0	86.5	101.2	70.0	85.6	97.6	70.0	83.8	81.5	51.7	66.6	81.5	46.0	63.8	64.8	37.1	51.0	82.9	53.3	68.1
1950	95.3	72.5	83.9	101.1	69.7	85.4	94.2	61.7	78.0	95.7	57.3	76.5	82.5	44.1	63.3	76.2	38.9	57.6	86.5	52.9	69.7
1941-1950 Average	100.8	72.8	86.8	98.7	71.1	84.9	95.8	65.5	80.6	85.3	53.5	69.4	74.2	40.7	57.4	66.0	36.7	51.4	83.4	51.9	67.6
1951	103.7	75.9	89.8	98.9	72.1	85.5	101.1	64.9	83.0	87.7	56.4	72.1	73.5	45.8	59.7	64.6	39.4	52.2	84.7	53.5	69.1
1952	101.8	72.2	87.0	100.2	73.7	87.0	100.0	67.8	83.9	95.8	55.4	75.6	72.0	41.6	56.8	64.7	37.1	50.9	84.4	53.6	69.0
1953	100.3	75.7	88.0	102.1	73.4	87.8	101.9	63.2	82.6	88.5	53.1	70.8	79.4	44.0	61.7	66.3	32.3	49.3	85.8	52.4	69.1
1954	99.3	73.5	86.4	95.8	70.6	83.2	96.8	65.3	81.1	89.1	54.6	71.8	78.0	42.7	60.4	68.4	36.4	52.4	86.0	53.6	69.8
1891-1954 Average	99.6	72.6	86.1	97.2	70.9	84.1	94.9	64.8	79.8	85.7	52.2	69.0	74.1	41.4	57.8	65.3	35.8	50.6	82.8	51.5	67.2
1921-1950 Average	100.1	72.9	86.5	97.5	71.1	84.3	94.8	65.3	80.1	85.9	52.6	69.2	73.8	41.1	57.4	65.9	37.1	51.5	83.0	51.8	67.4

TABLE 12 — MONTHLY MEAN MAXIMUM, MEAN MINIMUM, AND MEAN TEMPERATURES. PHOENIX, ARIZONA. 1896-1953.

YEAR	January Mean Max.	January Mean Min.	January Mean	February Mean Max.	February Mean Min.	February Mean	March Mean Max.	March Mean Min.	March Mean	April Mean Max.	April Mean Min.	April Mean	May Mean Max.	May Mean Min.	May Mean	June Mean Max.	June Mean Min.	June Mean
1896	68.8	39.2	54.0	70.3	41.1	55.7	75.7	48.4	62.0	78.7	48.7	63.7	89.6	59.1	74.4	105.1	71.7	88.4
1897	61.9	40.5	51.2	63.3	39.4	51.4	67.3	41.3	54.3	84.8	51.6	68.2	93.8	61.2	77.5	98.6	66.6	82.6
1898	57.9	36.5	47.2	73.7	43.8	58.8	70.9	43.2	57.0	86.6	56.8	71.7	87.8	58.9	73.4	100.2	69.3	84.8
1899	63.3	37.4	50.4	66.9	39.0	53.0	74.4	45.5	60.0	83.8	53.7	68.8	86.4	56.1	71.2	99.1	70.3	84.7
1900	70.5	41.7	56.1	71.1	41.8	56.4	79.9	51.3	65.6	75.1	50.9	63.0	93.1	62.0	77.6	102.2	70.0	86.1
1901	66.2	40.1	53.2	67.9	44.4	56.2	74.1	45.7	59.9	81.2	50.1	65.6	90.0	59.9	75.0	99.0	66.5	82.8
1902	67.0	38.0	52.5	71.1	41.6	56.4	71.0	43.8	57.4	85.9	53.6	69.8	90.4	60.0	75.2	103.4	69.5	86.4
1903	65.3	38.4	51.8	61.4	36.3	48.8	73.9	45.6	59.8	81.0	51.6	63.3	89.9	59.8	74.8	101.4	69.4	85.4
1904	64.4	32.5	48.4	74.7	43.1	58.9	77.1	48.7	62.9	84.8	51.1	68.0	92.1	61.9	77.0	102.2	70.4	86.3
1905	67.0	43.3	55.2	65.1	47.6	56.4	70.5	49.6	60.0	76.7	52.1	64.4	85.2	55.7	70.5	100.0	67.2	83.6
1906	64.1	38.2	51.2	69.3	47.0	58.2	73.8	47.8	60.8	78.9	51.7	65.3	88.9	58.0	73.4	100.7	67.4	84.0
1907	62.5	40.9	51.7	71.9	46.5	59.2	73.3	46.2	59.8	83.7	53.6	68.6	87.3	57.5	72.4	97.0	64.6	80.8
1908	66.9	39.9	53.4	66.1	42.3	54.2	75.2	46.9	61.0	82.6	52.5	67.6	86.6	56.4	71.5	99.5	65.0	81.8
1909	67.6	43.6	55.6	66.6	40.4	53.5	69.5	44.1	56.8	82.3	51.7	67.0	88.4	57.7	73.0	100.7	69.0	84.8
1910	64.1	38.4	51.2	68.6	39.6	54.1	80.2	51.1	65.6	85.5	54.6	70.0	95.0	63.2	79.1	100.9	69.3	85.1
1901-1910 Average	65.5	39.3	52.4	69.3	42.9	55.6	73.9	47.0	60.4	82.3	52.3	67.0	89.4	59.0	74.2	100.5	67.8	84.1
1911	66.8	43.6	55.2	63.9	42.0	53.0	77.2	49.9	63.6	82.0	52.6	67.3	90.4	57.8	74.1	98.9	68.8	83.8
1912	68.7	37.2	53.0	72.0	40.3	56.2	69.4	47.7	58.6	76.0	50.2	63.1	88.4	59.2	73.8	101.1	71.0	86.0
1913	60.4	34.1	47.2	64.6	41.6	53.1	70.6	42.8	56.7	81.3	53.2	67.2	89.4	58.1	73.8	96.6	67.2	81.9
1914	66.7	43.0	54.8	68.1	42.1	55.1	77.0	50.3	63.6	82.5	54.5	68.5	90.7	60.5	75.6	98.4	70.7	84.6
1915	61.0	39.0	50.0	64.3	43.3	53.8	71.5	45.7	58.6	79.3	53.4	66.4	84.8	56.7	70.8	98.9	67.8	83.4
1916	59.7	41.8	50.8	72.7	46.4	59.6	77.8	50.2	64.0	82.7	53.8	68.2	89.3	58.6	74.0	101.1	66.7	83.9
1917	60.3	37.7	49.0	67.7	39.8	53.8	72.1	40.3	56.2	79.6	48.7	64.2	83.7	54.2	69.0	103.4	65.4	84.4
1918	63.5	35.7	49.6	69.4	41.1	55.2	75.6	49.1	62.4	83.3	51.7	67.5	87.8	56.5	72.2	104.6	72.6	88.6
1919	66.0	35.5	50.8	63.8	38.7	51.2	71.3	43.7	57.5	85.6	52.9	69.2	92.2	61.6	76.9	103.3	67.5	85.4
1920	65.1	41.5	53.3	68.5	46.3	57.6	72.2	44.7	58.4	79.5	49.7	64.6	92.4	59.4	75.9	100.4	68.5	84.4
1911-1920 Average	63.8	38.9	51.4	67.5	42.2	54.9	73.5	46.4	60.0	81.2	52.1	66.6	88.9	58.3	73.6	100.6	68.6	84.6
1921	66.5	37.5	52.0	73.3	42.0	57.6	79.3	50.1	64.7	82.5	49.7	66.1	89.4	57.9	73.6	101.4	68.2	84.8
1922	61.7	35.5	48.6	67.6	41.1	54.4	70.3	43.6	57.0	77.9	48.6	63.2	93.3	59.4	76.4	103.3	69.2	86.2
1923	70.2	40.7	55.4	68.5	42.1	55.3	72.7	45.1	58.9	80.7	52.5	66.6	94.1	61.2	77.6	98.3	63.3	80.8
1924	65.6	35.1	50.4	74.9	42.7	58.8	70.0	43.2	56.6	79.6	50.5	65.0	95.0	62.7	78.8	104.9	70.1	87.5
1925	67.8	36.1	52.0	76.4	44.9	60.6	81.0	49.0	65.0	86.8	54.8	70.8	96.6	65.8	81.2	100.5	72.0	86.2
1926	63.9	34.8	49.4	73.5	42.7	58.1	77.1	50.7	63.9	80.3	56.8	68.6	91.1	60.4	75.8	102.8	71.1	87.0
1927	70.7	41.7	56.2	70.4	47.1	58.8	72.9	45.3	59.1	82.2	52.4	67.3	92.6	59.5	76.0	99.0	68.4	83.7
1928	69.3	37.2	53.2	69.0	41.2	55.1	78.6	49.6	64.1	83.3	52.2	67.8	93.7	65.2	79.4	101.1	70.1	85.6
1929	62.8	37.4	50.1	65.9	40.1	53.0	74.6	46.1	60.4	80.8	51.6	66.2	93.8	62.2	78.0	103.5	69.4	86.4
1930	62.4	41.6	52.0	75.6	45.1	60.4	74.0	47.3	60.6	86.6	57.7	72.2	86.0	57.4	71.7	102.3	71.3	86.8
1921-1930 Average	66.1	37.8	51.9	71.5	42.9	57.2	75.1	47.0	61.0	82.1	52.7	67.4	92.6	61.2	76.8	101.7	69.3	85.5
1931	67.9	37.9	52.9	67.8	47.9	57.8	77.5	48.0	62.8	86.0	58.7	72.4	96.2	64.8	80.5	101.3	72.6	87.0
1932	60.3	33.8	47.0	68.1	45.5	56.8	76.1	47.7	61.9	84.9	53.6	69.2	93.0	61.6	77.3	100.9	69.2	85.0
1933	61.5	35.8	48.6	63.5	35.7	49.6	77.0	46.8	61.9	79.1	50.3	64.7	87.6	57.5	72.6	102.7	72.6	87.6
1934	69.2	39.8	54.5	74.6	47.1	60.8	85.6	54.3	70.0	90.0	59.6	74.8	98.9	67.6	83.2	98.9	68.6	83.8
1935	65.5	42.2	53.8	69.6	46.2	57.9	69.9	45.3	57.6	82.9	56.0	69.4	88.0	60.2	74.1	105.5	72.8	89.2
1936	67.2	38.5	52.8	68.3	44.5	56.4	79.3	44.9	64.6	88.7	57.5	73.1	98.2	65.2	81.7	105.6	75.0	90.3
1937	54.4	31.9	43.2	68.0	41.4	54.7	72.9	46.9	59.9	83.2	52.1	67.6	94.8	62.3	78.6	100.9	69.7	85.3
1938	68.8	41.2	55.0	67.9	44.8	56.4	71.9	46.8	59.4	84.4	53.6	69.0	91.5	60.7	76.1	101.4	70.2	85.8
1939	64.6	40.3	52.4	60.5	36.6	48.6	77.2	47.5	62.4	86.7	55.8	71.2	94.7	62.8	78.8	101.9	69.9	85.9
1940	68.8	42.5	55.6	69.6	44.0	56.8	79.2	50.5	64.8	84.0	56.0	70.0	97.0	66.0	81.5	103.8	74.0	88.9
1931-1940 Average	64.8	38.4	51.6	67.8	43.4	55.6	76.7	47.9	62.3	84.5	55.3	69.9	94.0	62.9	78.4	102.3	71.5	86.9
1941	65.6	44.1	54.8	69.1	48.4	58.8	71.9	47.8	59.8	75.6	50.3	63.0	90.9	62.0	76.4	98.4	67.2	82.8
1942	67.7	41.3	54.5	66.4	39.2	52.8	74.2	44.0	59.1	80.0	52.6	66.3	91.5	58.8	75.2	100.8	68.1	85.0
1943	65.7	41.3	53.5	73.9	45.0	59.4	77.7	50.1	63.9	87.5	56.1	71.8	94.3	63.6	79.0	98.8	69.9	84.4
1944	65.3	38.3	51.8	63.7	41.7	52.7	71.5	44.4	58.0	78.2	51.4	64.8	90.3	61.0	75.6	97.2	65.3	81.2
1945	64.1	39.7	51.9	69.2	43.3	56.2	69.6	44.7	57.2	82.0	50.8	66.4	91.1	60.9	76.0	98.6	66.3	82.4
1946	63.1	39.5	51.3	69.5	38.6	54.0	77.1	46.9	62.2	88.7	58.4	73.6	91.5	61.9	76.7	104.1	71.4	87.8
1947	64.0	37.0	50.5	75.2	45.0	60.1	77.7	49.5	63.6	83.8	54.6	69.2	94.4	65.0	79.7	99.3	70.0	84.6
1948	68.9	38.2	53.6	66.3	41.4	53.8	69.1	44.7	56.9	85.0	54.6	69.8	92.9	61.2	77.0	100.4	69.6	85.0
1949	53.5	35.8	44.6	66.1	39.5	52.8	74.2	46.7	60.4	86.3	57.1	71.7	91.4	62.1	76.8	100.6	72.1	86.4
1950	64.1	38.4	51.3	74.1	46.0	60.1	77.8	48.7	63.3	88.1	57.6	72.9	91.2	60.5	75.9	100.8	69.1	85.0
1941-1950 Average	64.2	39.4	51.8	69.4	42.8	56.1	74.1	46.8	60.4	83.5	54.4	69.0	92.0	61.7	76.8	99.8	68.7	84.2
1951	66.2	39.5	52.9	69.1	44.6	56.9	74.6	48.2	61.4	81.7	54.6	68.2	92.3	62.6	77.5	99.8	68.1	84.0
1952	64.2	39.7	52.0	68.4	41.8	55.1	67.6	44.1	59.9	80.5	55.2	67.9	96.0	65.4	80.7	101.2	70.0	85.6
1953	70.9	42.2	56.6	69.3	41.1	55.2	77.1	49.3	63.2	81.3	54.4	67.9	86.0	57.6	71.8	101.8	70.9	86.4
Average 1896-1953	65.1	38.9	52.0	69.0	42.6	55.8	74.5	46.9	60.7	82.6	53.3	68.0	91.2	60.6	75.9	101.0	69.2	85.1
1921-1950	65.0	38.5	51.8	69.4	43.0	56.2	75.2	47.2	61.2	83.5	54.1	68.8	92.8	61.9	77.4	101.3	69.8	85.6

YEAR	July Mean Max.	July Mean Min.	July Mean	August Mean Max.	August Mean Min.	August Mean	September Mean Max.	September Mean Min.	September Mean	October Mean Max.	October Mean Min.	October Mean	November Mean Max.	November Mean Min.	November Mean	December Mean Max.	December Mean Min.	December Mean	ANNUAL Mean Max.	ANNUAL Mean Min.	ANNUAL Mean
1896	100.2	75.8	88.0	100.7	76.5	86.6	95.5	70.3	82.9	83.3	58.8	71.0	73.4	45.8	59.6	68.8	39.7	54.2	84.2	56.3	70.
1897	103.1	76.2	89.6	102.0	76.5	89.2	95.8	71.0	83.4	82.1	54.1	68.1	76.7	44.0	60.4	64.0	33.6	48.8	82.8	54.7	68.
1898	104.1	80.4	92.2	101.2	78.4	89.8	99.2	69.2	84.2	88.6	54.4	71.5	72.8	42.1	57.4	60.6	37.0	48.8	83.6	55.8	69.
1899	103.7	78.2	91.0	101.0	74.0	87.5	101.3	71.7	86.5	82.1	55.7	68.9	74.8	47.0	60.9	67.1	38.8	53.0	83.7	55.6	69.
1900	104.6	77.5	91.0	101.1	71.3	86.2	93.6	64.2	78.9	85.3	57.3	71.3	76.7	49.0	62.8	68.5	38.9	53.7	85.1	56.3	70.7
1901	106.2	79.6	92.9	103.2	76.5	89.8	98.4	66.4	82.4	88.4	58.1	73.2	79.1	48.7	63.9	68.4	36.1	52.2	85.2	56.0	70.6
1902	103.0	74.2	88.6	102.3	76.8	89.6	97.7	69.4	83.6	89.6	58.3	74.0	70.7	45.4	58.0	64.2	39.5	51.8	84.7	55.8	70.3
1903	103.7	76.2	90.0	103.3	78.2	90.8	94.9	68.5	81.7	87.5	54.5	71.0	78.8	45.9	62.4	68.6	38.1	53.4	84.1	55.2	69.7
1904	102.7	74.0	88.4	99.8	76.2	88.0	93.8	67.2	80.5	85.7	56.0	70.8	79.6	44.8	62.2	65.9	39.5	52.7	85.2	55.4	70.3
1905	104.9	74.3	89.6	103.0	77.0	90.0	97.5	70.8	84.2	87.3	56.0	71.6	69.1	47.9	58.5	62.0	37.9	50.0	82.4	56.6	69.5
1906	104.7	78.2	91.4	97.8	73.6	85.7	97.3	66.1	81.7	87.6	55.7	71.6	72.8	44.4	58.6	65.4	43.2	54.3	83.4	55.9	69.7
1907	102.6	76.3	89.4	99.8	75.5	87.7	97.4	68.3	82.8	82.7	58.7	70.7	72.6	46.9	59.8	67.2	38.2	52.7	83.2	56.1	69.6
1908	101.3	75.9	88.6	99.6	76.2	87.9	96.6	66.8	81.7	82.0	51.5	66.8	74.7	48.0	61.4	64.4	41.9	53.2	82.9	55.3	69.1
1909	101.9	75.5	88.7	97.7	75.8	86.8	94.0	68.0	81.0	87.6	54.6	71.1	74.7	43.8	59.2	59.2	37.0	48.1	82.5	55.1	68.8
1910	103.3	75.8	89.6	102.0	77.3	89.6	100.6	71.8	86.2	87.3	57.3	72.3	73.5	47.0	60.2	68.0	41.2	54.6	85.8	57.2	71.5
1901-1910 Average	103.4	76.0	89.7	100.8	76.3	88.6	96.8	68.3	82.6	86.6	56.1	71.3	74.6	46.3	60.4	65.3	39.3	52.3	83.9	55.9	69.9
1911	97.9	74.2	86.0	101.4	74.0	87.7	96.0	70.6	83.3	83.1	55.0	69.0	72.2	42.9	57.6	60.5	32.8	44.6	82.5	55.4	68.9
1912	97.7	73.1	85.4	98.9	73.5	86.2	94.2	63.6	78.9	80.8	55.1	68.0	74.6	45.0	59.8	61.5	36.3	48.9	81.9	54.4	68.2
1913	99.5	73.1	86.3	98.9	74.5	86.7	95.6	67.8	81.7	85.3	53.9	69.6	72.2	50.9	61.6	61.8	39.6	50.7	81.4	54.7	68.0
1914	100.5	77.2	88.8	101.7	76.7	89.2	97.6	71.4	84.5	83.5	58.8	71.2	76.4	51.4	63.9	59.3	41.3	50.3	83.5	58.2	70.8
1915	99.7	74.9	87.3	102.5	75.7	89.1	93.7	66.1	79.9	90.3	57.3	73.8	74.1	44.4	59.2	63.4	39.7	51.6	82.0	55.3	68.7
1916	102.7	75.4	89.0	100.5	73.4	87.0	94.9	66.9	80.9	81.4	50.9	66.2	74.3	37.3	55.8	61.6	32.6	47.1	83.2	54.5	68.9
1917	102.9	77.1	90.0	102.1	72.4	87.2	97.3	69.0	83.2	91.7	53.7	72.7	79.5	42.3	60.9	72.8	36.3	54.6	84.4	53.1	68.8
1918	101.7	74.9	88.3	97.7	71.4	84.6	97.9	67.0	82.4	87.2	56.5	71.8	71.0	43.5	57.2	62.0	37.2	49.6	83.5	54.8	69.1
1919	99.8	76.5	88.2	101.3	75.9	88.6	94.0	69.0	81.5	80.7	52.7	66.7	71.3	42.7	57.0	68.8	39.6	54.2	83.2	54.7	68.9
1920	106.4	74.9	90.6	99.9	73.0	86.4	95.8	64.9	80.4	82.5	51.5	67.0	74.6	42.6	58.6	65.1	34.3	49.7	83.5	54.3	68.9
1911-1920 Average	100.9	75.1	88.0	100.5	74.1	87.3	95.7	67.6	81.7	84.6	54.5	69.6	74.0	44.3	59.2	63.7	37.0	50.1	82.9	54.9	68.9
1921	101.3	77.1	89.2	99.1	75.1	87.1	97.7	67.4	82.6	90.1	57.5	73.8	78.4	43.4	60.9	68.2	43.9	56.0	85.6	55.8	70.7
1922	104.0	77.2	90.6	102.4	76.4	89.4	99.3	70.8	85.0	88.1	55.2	71.6	70.7	39.2	55.0	67.4	42.7	55.0	83.8	54.9	69.4
1923	101.8	76.7	89.2	99.0	75.5	87.2	94.3	66.1	80.2	83.8	50.8	67.3	71.0	47.2	59.1	61.7	42.3	52.0	83.0	55.3	69.1
1924	103.0	77.5	90.2	103.4	75.5	89.4	100.6	70.5	85.6	88.2	54.1	71.2	80.1	45.4	62.8	64.5	39.5	52.0	85.8	55.6	70.7
1925	105.9	79.5	92.7	100.0	74.4	87.2	95.5	65.3	80.4	81.4	55.5	68.4	72.9	42.8	57.8	67.2	39.8	53.5	86.0	56.7	71.3
1926	103.0	76.3	89.6	102.6	75.2	88.9	97.0	69.8	83.4	89.1	57.9	73.5	77.8	45.5	61.6	62.4	40.1	51.2	85.0	56.8	70.9
1927	105.1	77.5	91.3	100.3	75.4	87.8	95.7	69.5	82.6	87.9	55.1	71.5	78.2	48.3	63.2	63.0	38.8	50.9	84.8	56.6	70.7
1928	105.4	78.2	91.8	101.4	75.4	88.4	100.0	70.5	85.2	87.1	58.0	72.6	73.8	46.6	60.2	64.8	38.0	51.4	85.6	56.8	71.2
1929	103.8	80.2	92.0	102.2	77.1	89.6	97.3	70.7	84.0	89.6	59.8	74.7	74.1	41.7	57.9	72.7	40.0	56.4	85.1	56.4	70.7
1930	103.5	79.1	91.3	102.6	76.7	89.6	96.7	67.8	82.2	86.6	54.1	70.4	73.6	46.8	60.2	66.8	37.5	52.2	84.7	56.9	70.8
1921-1930 Average	103.7	77.9	90.8	101.3	75.7	88.5	97.4	68.8	83.1	87.2	55.8	71.5	75.1	44.7	59.9	65.8	40.3	53.1	84.9	56.2	70.6
1931	107.5	82.8	95.2	101.0	77.6	89.3	98.9	72.9	85.9	88.1	57.6	72.8	68.5	45.9	57.2	61.9	37.5	49.7	85.2	58.7	72.0
1932	104.2	79.5	91.8	105.0	79.2	92.1	101.5	72.4	87.0	85.5	57.5	71.5	80.2	45.7	63.0	60.2	38.4	49.3	85.0	57.0	71.0
1933	107.5	82.5	95.0	105.3	79.5	92.4	99.9	73.7	86.8	90.8	62.9	76.8	79.4	46.0	62.7	69.0	40.3	54.6	85.3	57.0	71.1
1934	106.8	87.3	94.0	101.1	78.9	90.0	99.0	70.6	84.8	91.5	59.5	75.5	75.7	47.2	61.4	68.4	43.5	56.0	85.3	59.8	74.1
1935	105.5	78.4	92.0	100.1	76.8	88.4	97.9	71.2	84.6	88.0	57.2	72.6	71.0	43.4	57.2	67.1	41.5	54.3	84.2	57.6	70.9
1936	106.1	80.2	93.2	103.2	79.0	91.1	97.0	70.1	83.6	87.1	59.2	73.2	75.5	48.1	61.8	65.7	40.6	53.2	86.8	59.0	72.9
1937	105.0	78.5	91.8	104.8	79.6	92.2	99.9	73.9	86.9	91.1	58.6	74.8	77.9	46.7	62.3	69.7	44.1	56.9	85.2	57.1	71.2
1938	103.8	76.7	90.2	103.0	76.8	89.9	101.2	72.4	86.8	87.2	56.1	71.6	71.9	40.1	56.0	66.0	42.8	55.9	85.2	56.8	71.0
1939	105.8	79.0	92.4	102.4	77.9	90.2	94.2	70.7	82.4	86.9	54.6	70.8	77.8	50.8	64.3	72.3	43.0	57.6	85.4	57.4	71.4
1940	106.1	76.9	91.5	103.9	78.1	91.0	97.8	72.6	85.2	87.2	59.8	73.5	72.6	45.2	58.9	67.6	45.9	56.8	86.5	59.3	72.9
1931-1940 Average	105.8	79.6	92.7	103.0	78.3	90.6	98.7	72.1	85.4	88.3	58.3	73.3	75.1	45.9	60.5	66.8	41.8	54.3	85.4	58.0	71.7
1941	103.7	75.9	89.8	100.3	73.9	87.1	95.5	65.8	80.6	81.5	54.9	68.2	77.4	46.8	62.1	65.7	42.6	54.2	83.0	56.6	69.8
1942	106.5	78.9	92.7	101.4	76.3	88.8	100.2	70.2	85.2	86.2	58.4	72.3	78.9	48.1	63.5	69.9	42.0	56.0	85.4	56.5	71.0
1943	105.4	78.5	92.0	99.3	77.4	88.4	100.2	70.9	85.6	87.1	58.7	72.9	78.1	45.5	61.8	65.1	42.4	53.8	86.1	58.3	72.2
1944	104.4	75.4	89.9	104.8	77.2	91.0	96.9	70.9	83.9	89.9	59.9	74.9	70.1	45.8	58.0	67.5	40.5	54.0	83.3	56.0	69.6
1945	103.9	77.9	90.9	102.0	77.6	89.8	99.1	71.0	85.0	88.5	61.4	75.0	75.4	43.1	59.2	64.7	37.8	51.2	84.0	56.2	70.1
1946	102.9	77.8	90.4	101.9	77.7	89.8	97.5	71.8	84.6	81.0	54.3	67.6	69.1	42.8	56.0	69.1	42.4	55.8	84.6	57.0	70.8
1947	106.6	79.5	93.0	100.8	76.1	88.4	101.4	73.4	87.4	88.3	59.6	74.0	69.1	44.1	56.6	63.4	38.8	51.1	83.5	57.7	71.5
1948	104.6	77.6	91.1	104.4	78.4	91.4	100.3	72.0	86.2	87.7	61.5	74.6	72.3	41.6	57.0	63.9	40.2	52.0	84.6	56.8	70.7
1949	103.0	79.0	91.0	103.7	73.6	88.6	99.6	74.4	87.0	83.9	56.1	70.0	82.3	50.0	66.0	66.1	39.7	52.9	84.2	57.1	70.7
1950	100.5	78.3	89.4	104.9	74.8	89.9	95.8	67.9	81.9	95.1	62.0	78.6	80.9	49.6	65.3	74.5	43.3	58.9	87.3	58.0	72.7
1941-1950 Average	104.2	77.7	90.1	102.4	76.3	89.4	98.6	70.8	84.7	86.9	58.7	72.8	75.4	45.7	60.6	67.0	41.0	54.0	84.6	57.0	70.8
1951	106.0	79.3	92.7	99.4	76.3	87.9	100.1	69.5	84.8	88.1	58.5	73.3	72.9	47.3	60.1	63.9	41.3	52.6	84.5	57.5	71.0
1952	103.5	76.5	90.0	103.1	79.0	91.1	100.7	73.1	86.9	95.8	61.3	78.6	69.8	46.0	57.9	64.4	40.9	52.7	84.6	57.8	71.2
1953	102.9	80.0	91.5	103.8	77.1	90.5	102.8	69.1	86.0	87.0	56.2	71.6	76.6	46.3	61.5	64.4	34.2	49.3	78.8	56.5	71.0
Average 1896-1953	103.6	77.4	90.5	101.6	76.1	88.8	97.6	69.6	83.6	86.7	56.7	71.7	74.7	45.5	60.1	65.6	39.6	52.6	84.2	56.3	70.8
1921-1950	104.5	78.5	91.5	102.2	76.8	89.5	98.3	70.6	84.5	87.5	57.6	72.6	75.1	45.4	60.2	66.5	41.0	53.6	85.0	57.0	71.0

TABLE 13 – MONTHLY MEAN MAXIMUM, MEAN MINIMUM, AND MEAN TEMPERATURES.

MESA EXPERIMENT FARM. 1917-1954.

YEAR	January Mean Max.	January Mean Min.	January Mean	February Mean Max.	February Mean Min.	February Mean	March Mean Max.	March Mean Min.	March Mean	April Mean Max.	April Mean Min.	April Mean	May Mean Max.	May Mean Min.	May Mean	June Mean Max.	June Mean Min.	June Mean	July Mean Max.	July Mean Min.	July Mean	August Mean Max.	August Mean Min.	August Mean	September Mean Max.	September Mean Min.	September Mean	October Mean Max.	October Mean Min.	October Mean	November Mean Max.	November Mean Min.	November Mean	December Mean Max.	December Mean Min.	December Mean	ANNUAL Mean Max.	ANNUAL Mean Min.	ANNUAL Mean
1917	59.5	35.8	47.6	68.1	36.5	52.3	69.8	35.7	52.7	77.9	44.6	61.2	81.6	48.7	65.1	98.4	60.4	79.2	98.5	73.7	86.1	99.1	69.0	84.1	94.1	66.5	80.3	88.8	50.5	69.6	78.7	39.0	58.8	72.9	31.4	52.2	82.3	49.3	65.8
1918	63.6	32.0	47.8	68.5	37.7	52.9	74.5	46.7	60.6	82.4	46.4	64.4	87.9	51.1	69.5	104.1	69.2	86.7	100.6	72.3	86.7	95.7	67.4	81.6	94.9	60.8	77.4	87.4	50.4	68.9	70.6	39.0	54.8	62.1	34.0	48.1	82.7	50.6	66.6
1919	67.3	32.3	49.8	62.8	34.8	48.8	72.3	38.4	55.3	85.8	47.6	66.7	91.8	55.4	73.6	102.2	62.0	82.1	97.2	73.9	85.6	97.3	70.3	83.8	92.9	63.7	78.3	81.2	48.0	64.6	72.0	40.5	56.2	69.4	38.8	54.1	82.7	50.5	66.6
1920	64.9	37.1	51.0	68.2	42.8	55.5	71.7	40.7	56.2	79.4	43.9	61.7	90.4	54.5	72.4	99.5	62.2	81.1	104.1	69.2	86.7	97.4	69.1	83.2	94.1	58.9	76.4	82.7	46.1	64.4	75.4	38.0	56.7	65.6	27.6	46.6	82.8	49.2	66.0
1921	66.8	30.8	48.8	73.3	37.8	55.6	80.1	46.4	63.2	79.5	45.1	62.3	88.4	51.4	69.9	101.0	62.7	81.8	98.6	71.8	85.2	97.4	71.6	84.5	95.6	59.6	77.6	89.4	51.0	70.2	79.1	36.0	57.6	67.2	38.7	53.0	84.7	50.2	67.4
1922	62.2	31.8	47.0	66.9	38.2	52.6	68.8	41.6	55.2	76.9	45.2	61.1	93.2	55.0	74.1	102.4	65.4	83.9	101.5	73.3	87.4	98.8	71.7	85.2	97.0	63.8	80.4	88.5	47.1	67.8	70.1	33.3	51.7	68.6	37.8	53.2	82.9	50.4	66.6
1923	70.0	37.1	53.6	67.9	39.9	53.9	71.6	40.3	56.0	79.5	47.1	63.3	93.4	54.9	74.1	97.0	57.8	77.4	99.3	72.6	86.0	96.3	70.7	83.5	92.2	59.2	75.7	84.5	44.6	64.6	72.3	----	----	62.3	37.6	50.0	82.2	----	----
1924	65.6	30.8	48.2	74.4	36.8	55.6	69.5	38.1	53.8	79.4	46.1	62.8	91.5	56.7	74.1	103.9	66.2	85.1	95.7	73.6	86.2	100.0	70.9	85.4	97.4	68.6	83.0	85.8	57.1	71.4	73.8	38.9	56.4	60.4	34.5	47.4	83.4	51.6	67.5
1925	63.5	30.5	47.0	71.7	38.6	55.2	75.3	43.4	59.4	81.3	46.0	63.6	94.3	57.0	75.6	98.3	64.7	81.5	104.2	74.6	89.4	98.7	70.3	84.5	94.2	57.9	76.1	81.7	53.7	67.7	72.9	46.2	59.6	66.7	36.8	51.8	83.6	51.7	67.6
1926	63.8	30.0	46.9	72.2	37.8	55.0	76.5	47.1	61.8	74.7	50.4	62.6	91.7	54.5	73.1	104.6	65.2	84.9	102.9	71.7	87.3	101.2	68.5	84.8	95.4	63.4	79.4	88.7	50.6	69.6	77.0	39.8	58.4	60.8	36.3	48.6	84.1	51.3	67.7
1927	70.3	35.3	52.8	68.9	41.3	55.1	71.2	38.0	54.6	81.3	45.9	63.6	93.1	51.5	72.3	99.2	63.8	81.5	102.7	73.9	88.3	97.7	70.2	84.0	----	62.7	----	88.2	48.7	68.4	78.5	42.8	60.6	62.8	35.8	49.3	----	50.8	----
1928	68.6	32.8	50.7	67.3	38.9	53.1	77.9	45.1	61.5	83.1	45.7	64.4	93.2	59.1	76.1	99.9	63.2	81.2	103.8	72.3	88.1	100.0	70.3	85.2	97.9	63.1	80.5	86.2	52.4	69.3	73.3	41.7	57.5	64.4	35.9	50.1	84.6	51.7	68.2
1929	62.7	32.9	47.8	64.9	35.1	50.0	73.3	40.6	56.9	79.3	46.2	62.8	91.9	55.0	73.4	101.7	61.1	81.4	100.7	74.0	87.4	100.2	72.1	86.2	95.4	64.8	80.1	88.4	52.5	70.4	73.5	36.6	55.1	72.7	33.9	53.3	83.7	50.4	67.1
1930	61.1	37.2	49.2	64.1	40.0	57.1	73.3	43.3	58.3	86.2	50.7	68.4	86.5	50.2	68.3	100.1	62.7	81.4	100.7	72.5	86.6	100.1	70.3	85.2	95.4	60.1	77.8	86.4	48.4	67.4	72.5	43.3	57.9	67.2	32.2	49.7	83.6	50.9	67.2
1921-1930 Average	65.5	33.0	49.2	70.2	38.4	54.3	73.8	42.4	58.1	80.1	46.8	63.5	91.7	54.5	73.1	100.8	63.3	82.1	101.3	73.0	87.2	99.0	70.7	84.8	95.6	62.3	79.0	86.8	50.6	68.7	74.3	39.8	57.1	65.3	36.0	50.6	83.6	51.0	67.3
1931	67.9	32.4	50.2	66.6	42.3	55.0	75.8	39.8	57.8	83.4	50.9	67.1	93.0	56.4	74.7	97.6	63.1	80.3	101.7	75.3	88.5	98.6	71.7	85.2	96.5	65.8	81.2	87.4	50.7	69.1	67.7	41.0	54.4	61.8	32.0	46.9	83.2	51.8	67.5
1932	59.2	27.6	43.4	66.6	40.4	53.4	73.7	40.1	56.9	82.1	45.7	63.9	89.9	52.1	71.0	97.3	60.4	78.8	99.5	72.0	85.8	100.8	70.9	85.8	98.1	64.8	81.4	83.0	51.8	67.4	77.8	40.2	59.0	58.5	32.3	45.4	82.2	49.9	66.1
1933	60.2	31.9	46.1	62.6	31.1	46.8	75.2	39.0	57.1	74.6	42.7	58.7	84.0	49.1	66.6	97.8	63.2	80.5	103.0	75.4	89.2	104.2	72.1	88.2	96.6	67.4	82.0	89.0	57.2	73.1	78.1	41.5	59.8	68.6	33.9	51.2	82.8	50.4	66.6
1934	69.1	33.1	51.1	74.3	41.7	58.0	84.5	47.6	66.0	88.3	51.6	70.0	96.9	60.1	78.5	96.3	60.2	78.2	104.3	74.3	89.3	100.9	73.5	87.2	97.3	63.3	80.3	90.3	52.1	71.2	76.0	40.5	58.2	68.7	37.1	52.9	87.2	52.9	70.1
1935	65.7	38.3	52.0	69.7	40.8	55.2	69.2	40.7	55.0	82.4	48.5	65.4	86.8	51.6	69.2	103.5	64.0	83.8	103.2	71.1	87.2	98.0	71.1	84.6	94.6	65.1	79.8	85.8	49.8	67.8	72.4	37.1	54.8	67.8	35.9	51.8	75.9	51.2	63.6
1936	67.3	30.9	49.1	68.6	39.0	53.8	79.0	44.2	61.6	87.3	49.1	68.1	97.6	56.9	77.2	105.2	68.2	86.7	104.7	73.9	89.3	101.8	73.7	87.7	96.9	64.5	80.8	87.6	52.6	70.1	76.0	44.6	60.3	66.6	36.2	51.4	86.6	52.8	69.7
1937	54.4	29.0	41.7	67.7	37.6	52.6	73.0	41.7	57.3	83.8	46.4	65.1	95.5	56.7	76.1	101.9	63.7	82.8	102.4	73.8	88.1	101.2	74.0	87.6	100.0	68.3	84.2	91.3	51.9	71.6	78.9	39.6	59.2	69.5	40.0	54.8	85.0	51.9	68.4
1938	68.5	35.5	52.0	68.0	39.4	53.7	71.8	40.5	56.1	84.3	48.1	66.2	92.9	54.0	73.4	101.8	62.6	82.2	102.9	69.8	86.4	101.7	70.0	85.8	101.2	64.1	82.6	87.9	47.9	67.9	72.7	31.6	52.2	69.5	35.3	52.4	85.3	49.9	67.6
1939	65.3	34.0	49.6	60.4	31.1	45.8	78.0	42.1	60.1	87.3	48.6	68.0	94.9	54.0	74.4	102.3	61.5	81.9	105.3	71.5	88.4	102.4	70.8	86.6	94.5	64.6	79.6	87.0	47.9	67.4	77.6	45.9	61.8	72.5	35.4	54.0	85.6	50.6	68.1
1940	69.4	35.6	52.5	69.1	36.6	52.8	79.4	41.4	60.4	84.8	47.6	66.2	97.6	56.6	77.1	104.1	64.9	84.5	106.4	69.2	87.8	103.3	70.6	87.0	96.9	65.2	81.1	87.1	56.5	71.8	72.4	42.1	57.2	67.5	43.3	55.4	86.5	52.5	69.5
1931-1940 Average	64.7	32.8	48.8	67.4	38.0	52.7	76.0	41.7	58.8	83.8	47.9	65.9	92.1	54.8	73.8	100.8	63.2	82.0	103.3	72.6	88.0	101.3	71.8	86.6	97.3	65.3	81.3	87.6	51.8	69.7	75.0	40.4	57.7	67.1	36.2	51.6	84.0	51.4	67.7
1941	64.9	41.5	53.2	68.6	44.8	56.7	71.4	44.2	57.8	75.8	47.4	61.6	90.3	57.7	74.0	98.1	61.5	79.8	102.0	71.7	86.9	99.4	69.4	84.4	95.3	60.7	78.0	81.2	50.3	65.8	76.7	43.3	60.0	65.6	37.5	51.6	82.4	52.5	67.4
1942	66.6	36.1	51.4	66.5	33.9	50.2	73.6	38.4	56.0	80.0	47.5	63.8	90.9	52.9	71.9	101.5	61.6	81.6	105.1	73.7	89.4	99.7	70.8	85.2	98.8	64.4	81.6	86.1	52.8	69.4	79.0	42.7	60.8	69.7	35.8	52.8	84.8	50.9	67.8
1943	65.0	35.7	50.4	74.2	39.0	56.6	77.7	43.6	60.6	88.4	50.3	69.4	94.7	56.9	75.8	100.4	63.7	82.0	105.2	72.2	88.7	98.4	72.8	85.6	100.0	65.0	82.5	87.2	52.5	69.8	78.4	38.3	58.4	65.1	37.2	51.2	86.2	52.3	69.2
1944	64.7	32.5	48.6	64.6	36.0	50.3	71.2	39.3	55.2	79.0	44.2	61.6	90.6	54.5	72.6	97.8	57.6	77.7	103.7	68.5	86.3	105.1	70.8	88.0	96.9	64.4	80.6	90.1	54.2	72.2	69.8	40.3	55.0	66.5	34.6	50.6	83.3	49.7	66.6
1945	63.4	32.7	48.0	68.5	37.2	52.8	68.5	40.7	54.6	81.2	46.4	63.8	92.1	54.8	73.4	99.6	60.0	79.8	104.9	73.9	89.4	103.2	74.1	88.6	99.7	65.5	82.6	88.8	56.7	72.8	75.9	37.8	56.8	64.0	33.7	48.8	84.2	51.3	67.6
1946	62.3	34.9	48.6	68.9	33.3	51.1	76.2	42.3	59.2	88.8	52.9	70.8	92.2	55.3	73.8	104.8	63.9	84.4	104.4	74.0	89.2	101.7	74.0	87.8	97.2	67.2	82.2	80.4	48.6	64.5	68.7	36.7	52.7	68.2	36.6	52.4	84.5	51.6	68.1
1947	63.1	31.1	47.1	74.3	38.1	56.2	76.7	43.6	60.2	82.8	47.2	65.0	94.7	58.3	76.5	99.5	62.6	81.0	107.7	75.2	91.4	101.6	73.5	87.6	101.1	68.4	84.8	88.5	53.8	71.2	69.4	39.1	54.2	62.9	33.9	48.4	85.2	52.1	68.6
1948	67.9	32.0	50.0	65.2	36.4	50.8	68.1	39.0	53.6	84.6	46.3	65.4	93.4	53.5	73.4	101.0	63.5	82.2	105.4	73.4	89.4	103.8	74.0	88.9	100.7	66.0	83.4	89.5	56.5	73.0	72.4	36.6	54.5	64.2	35.2	49.7	84.7	51.0	67.9
1949	53.4	33.1	43.3	65.8	35.7	50.8	74.1	41.7	57.9	84.1	50.1	67.1	91.8	54.7	73.3	100.1	65.6	82.9	102.9	72.7	87.8	103.1	67.6	85.4	100.0	68.7	84.4	84.1	50.1	67.1	82.4	44.0	63.2	65.9	36.5	51.2	84.0	51.7	67.9
1950	64.8	32.4	48.6	72.5	41.5	57.0	76.4	44.1	60.3	87.5	51.7	69.6	91.2	54.2	72.7	100.4	62.2	81.3	101.2	73.2	87.2	103.5	68.3	85.9	96.6	61.9	79.3	95.1	55.7	75.4	80.8	45.0	62.9	74.8	37.6	56.2	87.1	52.3	69.7
1941-1950 Average	63.6	34.2	48.9	68.9	37.6	53.2	73.4	41.7	57.5	83.2	48.4	65.8	92.2	55.3	73.7	100.3	62.2	81.3	104.2	72.8	88.6	102.0	71.5	86.7	98.6	65.2	81.9	87.2	53.1	70.1	75.4	40.4	57.8	66.7	35.9	51.3	84.6	51.5	68.1
1951	66.2	34.0	50.1	67.9	39.5	53.7	74.5	43.3	58.9	81.1	51.2	66.2	91.4	57.5	74.5	100.4	61.1	80.8	107.2	74.1	90.7	101.1	71.5	86.3	99.6	63.8	81.7	89.5	54.6	72.1	72.9	43.3	58.1	64.4	36.7	50.6	84.7	52.6	68.7
1952	65.2	35.4	49.3	68.2	35.6	51.9	67.1	39.7	53.4	80.9	50.6	65.8	96.0	59.6	77.8	100.9	63.7	82.3	103.8	70.8	87.3	103.5	73.5	88.5	100.3	65.8	83.1	95.6	54.5	75.1	71.3	40.4	55.9	63.9	34.7	49.3	84.7	52.0	68.3
1953	70.1	34.4	52.3	68.9	33.3	51.1	76.1	44.5	60.3	83.9	48.4	66.2	86.9	51.6	69.3	103.2	64.7	84.0	105.3	75.6	90.5	105.5	72.1	88.8	103.8	62.1	83.0	91.6	52.2	71.9	80.2	43.0	61.6	67.6	30.9	49.3	86.9	51.1	69.0
1954	65.1	35.7	50.4	79.8	43.7	61.8	74.5	43.2	58.9	91.2	52.5	71.6	93.4	58.4	75.9	99.5	63.6	81.6	103.1	75.0	89.1	99.5	70.5	85.0	99.2	67.4	83.3	90.7	55.0	72.8	80.8	42.2	61.5	67.8	35.1	51.5	87.1	53.5	70.3
Average 1917-1954	64.6	33.6	49.1	68.8	38.0	53.4	74.0	41.8	57.9	82.5	47.8	65.2	91.8	54.8	73.3	100.7	62.9	81.8	102.8	72.9	87.8	100.6	71.1	85.9	97.2	64.1	80.6	87.4	51.8	69.6	75.0	40.3	57.6	66.4	35.5	51.0	84.3	51.2	67.8
1921-1950	64.6	33.3	49.0	68.8	38.0	53.4	74.4	41.9	58.2	82.4	47.7	65.1	92.2	54.8	73.5	100.6	62.9	81.8	102.9	72.8	87.8	100.8	71.3	86.1	97.1	64.3	80.7	87.2	51.8	69.5	74.9	40.2	57.6	66.4	36.0	51.2	84.4	51.2	67.8
SAFFORD EXPERIMENT FARM. 1948-1954.																																							
1948	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	97.7	65.9	81.8	94.4	60.1	77.2	81.0	46.8	63.9	65.7	26.3	46.0	59.7	29.9	44.8	----	----	----
1949	48.6	29.4	39.0	61.6	29.2	45.4	70.8	35.5	53.2	80.2	43.4	61.8	89.7	48.5	69.1	97.5	59.9	78.7	97.0	68.2	82.6	97.3	60.6	79.0	94.0	61.1	77.6	81.1	42.3	61.7	76.2	35.1	55.7	59.4	29.7	44.6	79.4	45.2	62.3
1950	60.2	26.6	43.4	68.9	31.9	50.4	74.0	35.5	54.8	85.1	43.4	64.3	88.3	47.1	67.7	99.0	55.8	77.4	95.0	67.9	81.5	97.4	60.6	79.0	92.3	52.6	72.4	91.3	49.0	70.2	75.3	34.1	54.7	68.4	29.3	48.9	82.9	44.5	63.7
1951	61.4	27.2	44.3	64.0	30.4	47.2	70.3	35.2	52.8	76.5	43.7	60.1	88.2	48.7	68.5	97.2	51.8	74.5	102.0	68.3	85.2	95.6	64.8	80.2	94.3	54.2	74.2	82.8	46.4	64.6	66.1	34.1	50.1	59.0	29.6	44.3	79.8	44.5	62.2
1952	61.1	29.7	45.4	62.6	26.5	44.6	63.2	33.1	48.2	78.2	43.9	61.1	90.0	51.4	70.7	97.4	60.3	78.9	98.7	67.6	83.2	96.0	66.5	81.3	94.6	55.8	75.2	86.9	43.6	65.3	65.4	32.7	49.1	59.0	26.7	42.9	79.4	44.8	62.1
1953	64.9	26.4	45.6	64.3	26.8	45.6	71.4	37.7	54.6	78.9	41.8	60.4	83.1	43.7	63.4	99.8	58.4	79.1	98.2	69.1	83.7	97.3	63.1	80.2	96.2	52.2	74.2	84.9	42.3	63.6	73.3	34.5	53.9	58.5	22.4	40.4	80.9	43.2	62.1
1954	62.9	26.5	44.7	72.7	31.3	52.0	68.9	37.4	53.2	85.4	44.8	65.1	89.7	52.0	70.9	97.8	57.2	77.5	99.2	58.8	79.0	91.8	64.0	77.9	93.3	59.4	76.4	85.9	47.6	66.8	75.3	33.6	54.5	63.3	26.9	45.1	82.2	45.0	63.6
1948-1954 Average	59.8	27.6	43.7	65.7	29.4	47.5	69.8	35.7	52.8	80.7	43.5	62.1	87.2	48.6	68.4	98.1	57.2	77.7	98.4	66.6	82.5	96.2	63.6	79.9	94.2	56.5	75.3	84.8	45.4	65.2	71.0	32.9	52.0	61.0	27.8	44.4	80.6	44.6	62.6
SALT RIVER VALLEY CITRUS EXPERIMENT FARM. 1943-1954. (TEMPE)																																							
1943	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	101.0	71.1	86.1	99.4	61.9	80.6	87.7	53.2	70.4	78.8	38.9	58.8	64.9	38.7	51.8	----	----	----
1944	64.8	33.3	49.0	64.1	37.3	50.7	71.3	38.3	54.8	78.8	43.4	61.1	90.2	51.8	71.0	97.1	54.4	75.8	102.5	66.4	84.4	103.8	67.6	85.7	96.2	61.0	78.6	88.7	52.8	70.8	67.8	40.7	54.2	66.5	34.6	50.6	82.7	48.5	65.6
1945	63.3	35.1	49.2	68.0	37.8	52.9	69.7	38.6	54.2	81.7	42.8	62.2	91.8	50.9	71.4	99.2	55.2	77.2	104.0	68.7	86.4	99.8	69.2	84.5	99.4	59.2	79.3	87.6	51.3	69.4	75.2	36.1	55.6	63.9	32.2	48.0	83.6	48.1	65.9
1946	62.4	33.7	48.0	69.1	32.0	50.6	76.2	40.0	58.1	88.5	50.1	69.3	92.5	51.6	72.0	104.6	58.5	81.6	103.0	71.0	87.0	100.7	71.6	86.2	96.9	67.0	82.0	81.2	48.7	65.0	69.5	38.2	53.8	68.1	37.4	52.8	84.4	50.0	67.2
1947	63.6	30.7	47.2	74.8	36.6	55.7	77.2	41.1	59.2	83.4	45.0	64.2	95.0	54.8	74.9	100.1	59.8	80.0	107.2	70.8	89.0	100.5	71.0	85.8	100.7	66.2	83.4	88.3	52.6	70.4	68.6	37.4	53.0	62.6	31.3	47.0	85.2	49.8	67.5
1948	68.7	30.4	49.6	64.8	34.5	49.6	69.0	40.4	54.7	85.3	47.4	66.4	94.0	52.1	73.0	102.0	60.7	81.4	105.9	70.6	88.2	104.5	71.8	88.2	101.7	66.5	84.1	89.5	57.0	73.2	72.7	35.7	54.2	63.9	35.6	49.8	85.2	50.2	67.7
1949	52.8	31.7	42.3	65.6	34.1	49.8	74.4	40.1	57.3	84.8	48.7	66.8	92.3	54.3	73.3	100.8	63.6	82.2	103.7	73.3	88.5	103.7	66.9	85.3	100.7	69.4	85.1	84.4	51.0	67.7	82.3	46.4	64.4	65.8	36.4	51.1	84.3	51.3	67.8
1950	63.8	33.7	48.8	72.6	40.6	56.6	76.8	41.7	59.3	88.2	48.8	68.5	92.3	52.0	72.2	101.7	60.6	81.2	102.1	73.8	88.0	104.0	68.5	86.2	96.8	61.7	79.3	95.5	55.8	75.7	81.5	43.9	62.7	75.0	38.0	56.5	87.5	37.6	69.6
1951	66.4	33.6	50.0	68.4	38.9	53.6	75.2	42.0	58.6	81.4	49.5	65.5	91.9	56.4	74.2	100.5	60.0	80.3	106.3	73.6	90.0	100.2	71.5	85.8	99.7	63.1	81.4	89.2	53.3	71.3	72.6	42.9	57.8	64.4	36.5	50.5	84.7	51.8	68.3
1952	63.3	35.1	49.2	68.3	35.5	51.9	67.5	39.5	53.5	80.5	50.7	65.6	95.5	58.4	77.0	101.2	61.9	81.6	103.1	69.2	86.2	102.1	72.5	87.3	100.2	64.7	82.4	95.6	54.0	74.8	70.6	40.2	55.4	73.4	34.7	49.1	84.3	51.4	67.9
1953	69.6	36.2	52.9	70.1	35.5	52.8	76.0	43.9	60.0	82.3	47.0	64.6	86.1	49.2	67.7	101.5	61.4	81.4	103.0	75.1	89.1	103.6	70.5	87.1	102.9	60.4	81.7	89.6	50.2	69.9	78.8	41.5	60.2	66.6	29.8	48.2	85.8	50.1	68.0
1954	67.6	35.0	51.3	78.9	41.3	60.1	73.8	41.9	57.9	90.5	49.9	70.2	94.8	55.7	75.3	100.5	60.6	80.6	101.2	73.7	87.4	101.4	70.2	85.8	101.0	65.3	83.2	92.2	52.4	72.3	81.8	41.8	61.8	69.2	34.8	52.0	87.7	51.9	69.8
1943-1954 Average	64.2	33.5	48.8	69.1	36.7	53.1	73.4	40.7	57.1	84.1	47.6	65.8	92.4	53.4	72.9	100.8	59.7	80.2	103.8	71.5	87.6	102.1	70.1	86.1	99.6	63.9	81.8	89.1	52.7	70.9	75.0	40.3	57.6	67.0	35.0	50.6	85.1	50.4	67.8
CAMPBELL AVENUE FARM. 1949-1954. (TUCSON)																																							
1949	----	----	----	----	----	----	74.4	37.7	56.1	83.4	46.3	64.9	90.5	49.2	69.9	98.1	61.9	80.0	97.5	68.3	82.9	99.4	63.3	81.4	96.8	63.8	80.3	82.7	45.0	63.9	82.6	36.5	59.6	66.6	29.7	48.2	----	----	----
1950	66.2	27.3	46.8	71.6	34.6	53.6	77.0	38.3	57.7	86.1	46.8	66.5	88.4	48.5	68.5	98.8	59.0	78.9	94.7	69.6	82.2	99.8	65.5	82.7	94.1	57.9	76.0	94.7	52.7	73.7	81.8	37.6	59.7	75.7	31.5	53.6	85.8	47.4	66.6
1951	65.5	31.6	48.6	69.0	34.1	51.6	74.9	36.7	55.8	81.0	45.6	63.3	91.4	51.1	71.3	98.6	55.4	77.0	103.3	72.0	87.7	98.0	67.6	82.8	100.3	59.4	79.9	88.2	51.8	70.0	72.9	41.0	57.0	65.6	36.0	50.8	84.1	48.5	66.3
1952	65.9	34.5	50.2	67.5	31.1	49.3	67.0	35.7	51.4	81.5	46.3	63.9	94.0	53.3	73.7	101.0	60.3	80.7	100.8	66.5	83.7	98.9	68.0	83.5	99.1	60.9	80.0	94.6	47.2	70.9	71.5	37.7	54.6	64.6	32.1	48.4	83.9	47.8	65.9
1953	71.2	31.1	51.2	67.6	29.5	48.6	75.4	40.5	58.0	82.0	43.7	62.9	85.6	46.2	65.9	102.2	60.2	81.2	99.1	72.8	86.0	101.6	67.9	84.8	101.3	57.7	79.5	88.8	48.7	68.8	77.9	39.7	58.8	65.8	26.2	46.0	84.9	47.0	66.0
1954	69.6	32.0	50.8	77.1	38.1	57.6	73.5	41.1	57.3	88.5	47.6	68.1	93.2	53.5	73.4	99.9	59.4	79.7	99.8	70.6	85.2	97.1	66.1	81.6	97.7	61.5	79.6	90.6	50.4	70.5	80.5	38.0	59.3	71.3	32.1	51.7	86.6	49.2	67.9
1949-1954 Average	67.7	31.3	49.5	70.6	33.5	52.1	73.6	38.3	56.0	83.8	46.0	64.9	90.5	50.3	70.9	99.8	59.4	79.6	99.2	70.0	84.6	99.1	66.4	82.8	98.2	60.2	79.2	89.9	49.3	69.6	77.9	38.4	58.2	68.3	31.3	49.8	84.9	47.9	66.4

TABLE 13 — MONTHLY MEAN MAXIMUM, MEAN MINIMUM, AND MEAN TEMPERATURES.

YUMA CITRUS STATION. 1920-1954

YEAR	January Mean Max.	January Mean Min.	January Mean	February Mean Max.	February Mean Min.	February Mean	March Mean Max.	March Mean Min.	March Mean	April Mean Max.	April Mean Min.	April Mean
1920	----	----	----	----	----	----	----	----	----	----	----	----
1921	67.1	38.2	52.6	75.1	43.5	59.3	81.3	50.3	65.8	85.1	49.3	67.2
1922	62.4	37.4	49.9	69.2	----	----	74.1	44.0	59.0	80.6	47.9	64.2
1923	73.5	40.5	57.0	73.3	41.8	57.6	76.0	43.2	60.6	83.4	51.5	67.4
1924	71.3	36.4	53.8	82.2	42.6	62.4	76.8	42.7	59.8	83.9	50.9	67.4
1925	71.0	36.7	53.8	79.7	42.7	61.2	82.5	46.6	64.6	87.5	51.7	69.6
1926	69.7	35.9	52.8	77.5	43.6	60.6	81.5	50.1	65.8	87.3	57.7	72.5
1927	70.3	40.5	55.4	76.0	46.1	61.1	79.1	45.6	62.4	88.0	51.5	69.8
1928	69.4	41.5	55.4	73.8	42.8	58.3	82.6	50.6	66.6	88.9	51.7	70.3
1929	67.4	36.7	52.0	71.8	39.1	55.4	79.7	46.1	62.9	83.6	50.2	66.9
1930	67.3	40.9	54.1	78.8	46.4	62.6	78.2	49.5	63.8	89.0	56.5	72.8
1921-1930 Average	68.9	38.5	53.7	75.7	43.2	59.4	79.4	46.9	63.2	85.7	51.9	68.8
1931	69.8	38.5	54.2	70.9	46.5	58.7	81.6	47.9	64.8	88.4	56.6	72.5
1932	64.0	36.1	50.0	70.0	45.2	57.6	80.5	48.6	64.6	87.6	51.3	69.4
1933	63.4	37.0	50.2	65.9	37.4	51.6	80.8	45.2	63.0	81.4	50.2	65.8
1934	72.4	40.0	56.2	77.8	46.0	61.9	90.3	54.6	72.4	92.6	57.8	75.2
1935	67.0	42.8	54.9	72.4	47.9	60.2	75.1	45.1	60.1	84.9	53.6	69.2
1936	69.2	40.0	54.6	73.4	44.6	59.0	82.8	49.7	66.2	89.9	54.8	72.4
1937	56.8	31.2	44.0	71.3	41.5	56.4	77.7	45.5	61.6	86.0	50.9	68.4
1938	71.5	42.5	57.5	70.6	44.2	57.4	74.7	47.2	60.9	85.9	53.0	69.4
1939	66.9	41.2	54.0	64.8	37.6	51.0	79.0	46.8	62.9	----	----	----
1940	72.5	43.7	58.1	72.1	43.6	57.8	82.2	49.4	65.8	87.0	54.5	70.8
1931-1940 Average	67.4	39.4	53.4	70.9	43.4	57.2	80.5	48.0	64.2	86.7	53.6	70.2
1941	66.4	43.2	54.8	73.8	48.3	61.0	76.7	50.1	63.4	79.8	51.3	65.6
1942	69.9	42.8	56.4	69.5	40.3	56.4	76.9	45.2	61.0	82.2	51.5	66.8
1943	70.3	41.0	55.6	76.2	44.9	55.6	81.6	49.1	65.4	89.1	54.0	71.6
1944	67.5	39.2	53.4	66.9	40.1	63.4	76.4	47.2	61.8	83.0	49.9	66.4
1945	66.6	39.4	53.0	72.0	41.3	53.0	73.1	45.0	59.0	84.7	51.1	67.9
1946	68.3	38.8	53.6	73.9	35.7	53.6	79.4	44.5	62.0	90.2	54.7	72.4
1947	67.9	36.1	52.0	78.8	42.6	52.0	81.0	46.7	63.8	87.0	51.4	69.2
1948	72.6	39.1	55.8	71.5	39.8	55.8	73.9	41.0	57.4	88.5	51.5	70.0
1949	56.7	33.2	45.0	68.3	36.2	45.0	77.6	43.7	60.7	89.5	53.4	71.5
1950	66.3	35.0	50.7	76.6	42.6	59.7	81.7	47.0	64.4	90.2	54.8	72.5
1941-1950 Average	67.2	38.8	53.0	72.7	41.8	57.0	77.8	46.0	61.9	86.4	52.4	69.4
1951	68.8	37.9	53.4	70.9	41.0	53.4	77.5	44.6	61.1	84.8	52.0	68.4
1952	65.0	36.0	50.5	72.3	40.0	50.5	72.8	42.8	57.8	85.6	53.6	69.6
1953	73.6	41.5	57.6	74.0	39.6	54.6	80.0	44.0	62.0	84.2	49.9	67.1
1954	69.7	37.5	51.3	81.2	46.8	64.0	77.1	42.8	60.0	----	----	----
Average 1920-1954	68.0	38.8	53.4	73.3	42.4	57.8	78.9	46.5	62.7	86.2	52.5	69.4
Average 1921-1950	67.8	38.9	53.4	73.1	42.6	57.8	79.2	46.9	63.1	86.3	52.6	69.4

YEAR	May Mean Max.	May Mean Min.	May Mean	June Mean Max.	June Mean Min.	June Mean	July Mean Max.	July Mean Min.	July Mean	August Mean Max.	August Mean Min.	August Mean
1920	----	----	----	----	----	----	----	----	----	----	----	----
1921	89.2	57.7	73.4	102.0	69.2	85.6	104.3	80.1	92.2	102.7	77.9	90.3
1922	94.6	58.5	76.6	102.7	69.8	86.2	104.8	79.6	82.2	103.7	78.5	91.1
1923	95.8	59.7	77.8	97.4	61.6	79.5	103.4	77.2	80.3	104.0	76.3	90.2
1924	96.8	61.3	79.0	105.2	70.3	87.8	106.1	76.4	91.2	106.0	75.0	90.5
1925	95.5	61.0	78.2	100.4	68.3	84.4	107.1	78.5	92.8	104.3	76.7	90.5
1926	94.1	60.2	77.2	104.3	69.1	86.7	106.5	75.8	91.2	104.8	76.9	90.8
1927	96.4	57.9	77.2	101.2	67.1	84.2	106.5	77.4	92.0	103.9	77.8	90.8
1928	96.0	63.4	79.7	102.9	67.9	85.4	107.0	75.9	91.4	105.6	77.0	91.3
1929	97.0	61.0	79.0	102.7	66.6	84.6	107.1	80.0	93.6	106.2	80.4	93.3
1930	87.7	55.5	71.6	102.7	67.5	85.1	106.5	----	----	105.3	75.5	90.4
1921-1930 Average	94.3	59.6	77.0	102.2	67.7	85.0	105.9	77.9	91.9	104.6	77.2	90.9
1931	96.6	62.4	79.5	101.3	68.6	85.0	108.5	81.7	95.1	102.6	78.0	90.3
1932	93.7	59.6	76.6	101.3	66.6	84.0	105.4	78.0	91.7	106.2	78.1	92.2
1933	88.6	55.9	72.2	102.2	67.6	84.9	108.3	80.0	94.2	106.4	78.1	92.2
1934	99.0	63.5	81.2	98.0	64.7	81.4	107.0	79.2	93.1	104.5	79.6	92.0
1935	90.0	57.7	73.8	105.6	70.1	87.8	105.1	76.7	90.9	102.4	79.5	91.0
1936	97.7	62.2	80.0	103.8	70.6	87.2	106.0	78.0	92.0	105.8	79.6	92.7
1937	94.5	60.1	77.3	102.0	67.1	84.6	107.3	80.0	93.6	107.7	80.5	94.1
1938	95.5	58.9	76.2	101.5	68.1	84.8	105.2	76.1	90.6	105.0	77.4	91.2
1939	94.9	60.5	77.7	102.4	66.3	84.4	106.7	76.7	91.7	106.1	80.1	93.1
1940	98.4	63.8	81.8	104.4	71.5	88.0	107.6	74.7	91.2	106.5	78.2	92.4
1931-1940 Average	94.7	60.5	77.6	102.2	68.1	85.2	106.7	78.1	92.4	105.3	78.9	92.1
1941	94.9	62.3	78.6	98.8	65.0	81.9	106.2	77.7	92.0	101.4	74.3	87.8
1942	92.4	56.9	74.6	102.6	65.4	84.0	109.3	79.4	94.4	104.2	77.4	90.8
1943	96.7	61.4	79.0	99.8	65.9	82.8	108.5	77.0	92.8	104.9	78.7	91.8
1944	92.3	59.3	75.8	97.1	61.7	79.4	106.8	72.5	89.6	107.3	76.2	91.8
1945	93.1	58.8	76.0	99.8	64.6	82.2	107.6	78.0	92.8	104.5	78.9	91.7
1946	94.0	57.6	75.8	104.9	65.7	85.3	104.9	76.0	90.4	104.5	78.4	91.4
1947	95.5	61.5	78.5	99.9	64.6	82.2	107.2	73.5	90.4	103.4	74.5	89.0
1948	94.2	55.8	75.0	100.8	63.0	81.9	106.3	74.5	90.4	107.0	76.4	91.7
1949	92.9	57.5	75.2	102.3	68.9	85.6	106.3	75.7	91.0	106.0	72.6	89.3
1950	92.0	56.4	74.2	100.0	64.3	82.2	102.7	77.0	89.9	107.1	72.4	89.8
1941-1950 Average	93.8	58.8	76.3	100.6	64.9	82.8	106.6	76.1	91.4	105.0	76.0	90.5
1951	94.6	57.3	76.0	100.8	62.5	81.7	106.8	77.0	91.9	103.6	75.0	89.3
1952	99.2	62.0	80.6	99.0	63.1	81.1	106.5	74.9	90.7	107.7	77.0	92.4
1953	88.0	53.7	70.9	101.3	62.0	81.7	107.4	79.2	93.3	105.7	74.0	89.9
1954	95.9	58.4	77.2	100.6	63.7	82.2	105.6	75.9	90.8	104.1	72.7	88.4
Average 1920-1954	94.3	59.4	76.8	101.5	66.4	84.0	106.4	77.3	91.8	105.0	77.4	91.2
Average 1921-1950	94.3	59.6	77.0	101.7	66.9	84.3	106.4	77.4	91.9	105.0	77.0	91.0

YEAR	September Mean Max.	September Mean Min.	September Mean	October Mean Max.	October Mean Min.	October Mean	November Mean Max.	November Mean Min.	November Mean	December Mean Max.	December Mean Min.	December Mean	ANNUAL Mean Max.	ANNUAL Mean Min.	ANNUAL Mean
1920	96.6	65.3	81.0	85.0	53.4	69.2	76.4	43.9	60.2	68.2	35.5	51.8	----	----	----
1921	99.9	68.5	84.2	90.3	61.0	75.6	79.7	46.5	63.1	69.8	44.9	57.4	87.2	57.2	72.2
1922	102.4	73.3	87.8	90.4	57.2	73.8	74.9	41.4	58.2	71.3	42.5	56.9	85.9	----	----
1923	97.0	67.7	82.4	88.9	53.2	71.0	79.0	48.7	63.8	67.5	52.2	59.8	86.9	56.1	71.4
1924	102.5	70.2	86.4	89.1	50.7	69.9	81.5	44.7	63.1	67.4	38.2	52.8	89.1	55.0	72.1
1925	98.9	66.3	82.6	84.0	57.1	70.6	76.6	45.0	60.8	71.1	43.0	57.1	88.2	56.1	72.2
1926	98.4	71.5	85.0	92.0	58.1	75.0	82.0	46.9	64.4	64.2	40.5	52.4	88.5	57.2	72.8
1927	98.6	68.7	83.6	91.0	57.8	74.4	79.2	50.5	64.8	65.8	40.8	53.3	88.0	56.7	72.4
1928	103.5	71.2	87.4	90.8	57.4	74.1	77.6	47.2	62.4	69.3	41.2	55.2	89.0	57.3	73.2
1929	98.6	70.2	84.4	92.6	60.0	76.3	75.9	43.8	59.8	----	43.2	----	----	----	----
1930	97.6	67.5	82.6	88.7	54.7	71.7	78.0	48.9	63.4	68.3	37.9	53.1	----	----	----
1921-1930 Average	99.7	69.5	84.6	89.8	56.7	73.2	78.4	46.4	62.4	68.3	42.4	55.3	87.8	56.5	72.3
1931	98.1	67.8	83.0	88.6	56.6	72.6	72.1	44.4	58.2	64.8	40.5	52.6	86.7	57.4	72.1
1932	103.4	71.7	87.6	87.5	57.8	72.6	80.7	48.6	64.6	63.0	37.3	50.2	86.9	56.6	71.8
1933	102.0	73.4	87.7	94.5	63.1	78.8	80.7	48.1	64.4	71.4	41.3	56.4	87.1	56.4	71.8
1934	101.3	69.4	85.4	92.8	58.8	75.8	78.9	47.0	63.0	69.8	44.4	57.1	90.4	58.8	74.6
1935	101.4	74.0	87.7	88.4	56.5	72.4	74.1	43.7	58.9	69.0	42.6	55.8	86.3	57.5	71.9
1936	99.4	69.3	84.4	88.6	57.2	72.9	77.3	48.0	62.6	69.0	41.1	55.0	88.6	57.9	73.2
1937	103.5	76.9	90.2	93.1	59.4	76.2	80.9	47.6	64.2	72.6	47.7	60.2	87.8	57.4	72.6
1938	103.2	73.2	88.2	87.1	56.5	71.8	73.5	41.3	57.4	69.6	44.4	57.0	86.8	57.0	71.9
1939	95.2	71.3	83.2	86.1	56.6	72.4	79.3	50.8	65.0	74.5	44.7	59.6	----	----	----
1940	98.8	71.5	85.2	89.8	60.9	75.4	75.4	44.8	60.1	69.9	46.5	58.2	88.7	58.6	73.6
1931-1940 Average	100.6	71.8	86.3	89.8	58.3	74.1	77.3	46.4	61.8	70.4	43.1	56.2	87.7	57.5	72.6
1941	96.9	62.6	79.8	84.3	55.5	69.9	78.4	47.9	63.2	68.9	42.8	55.8	85.5	56.8	71.2
1942	102.1	66.1	84.1	90.5	58.0	74.2	81.0	47.4	64.2	72.7	41.9	57.3	87.8	56.0	71.9
1943	104.3	73.4	88.8	91.4	59.3	75.4	79.5	46.1	62.8	67.8	42.0	54.9	89.2	57.7	73.4
1944	101.1	72.1	86.6	91.7	59.1	75.4	71.3	48.3	59.8	69.3	43.0	56.2	85.9	55.7	70.8
1945	100.9	71.9	86.4	90.8	62.3	76.6	76.9	44.6	60.8	67.8	39.5	53.6	86.5	56.3	71.4
1946	101.2	70.7	86.0	85.4	51.9	68.6	73.1	42.5	57.8	70.6	41.9	56.2	87.5	54.9	71.2
1947	102.1	72.1	87.1	91.3	56.8	74.0	74.2	42.3	58.2	67.4	38.1	52.8	88.0	55.0	71.5
1948	103.0	69.7	86.4	89.9	59.8	74.8	74.8	42.5	58.6	65.3	36.7	51.0	87.3	54.1	70.7
1949	104.5	74.7	89.6	87.6	54.0	70.8	84.6	49.4	67.0	67.8	38.0	52.9	87.0	54.8	70.9
1950	99.3	65.4	82.4	95.6	58.4	77.0	82.9	48.8	65.9	76.6	42.7	59.7	89.3	55.4	72.4
1941-1950 Average	101.5	69.9	85.7	89.9	57.5	73.7	77.7	46.0	61.8	69.4	40.7	55.0	87.4	55.7	71.5
1951	104.0	69.8	86.9	90.9	57.3	74.1	76.2	47.0	61.6	66.6	39.8	53.2	87.1	55.1	71.1
1952	103.6	70.3	87.0	99.2	60.1	79.7	75.3	42.6	59.0	66.7	38.9	52.8	87.7	55.1	71.4
1953	103.7	64.3	84.0	91.6	54.3	73.0	80.4	48.5	64.5	69.6	37.3	53.5	88.3	53.9	71.1
1954	103.4	69.2	86.3	93.9	56.7	75.3	82.5	46.7	64.6	68.5	40.0	54.3	----	----	----
Average 1920-1954	100.9	69.7	85.5	89.2	57.4	73.8	77.9	46.2	62.0	69.2	41.5	55.2	87.6	56.3	72.0
Average 1921-1950	100.6	70.1	85.5	89.8	57.5	73.7	77.8	46.3	62.0	69.4	42.1	55.5	87.6	56.5	72.1

YUMA VALLEY EXPERIMENT FARM. 1930-1954.

YEAR	January Mean Max.	January Mean Min.	January Mean	February Mean Max.	February Mean Min.	February Mean	March Mean Max.	March Mean Min.	March Mean	April Mean Max.	April Mean Min.	April Mean
1930	----	----	----	----	----	----	----	----	----	----	----	----
1931	68.3	34.4	51.4	64.4	42.7	55.6	80.1	44.0	62.0	87.5	54.2	70.8
1932	62.5	31.5	47.0	67.4	41.5	54.4	78.0	44.1	61.0	84.5	46.3	65.4
1933	64.0	33.6	48.8	65.8	34.2	50.0	80.1	43.8	62.0	80.4	46.4	63.4
1934	71.2	33.7	52.4	77.1	40.4	58.8	88.5	48.2	68.4	90.5	51.6	71.0
1935	70.0	37.2	53.6	72.0	42.9	57.4	75.0	40.7	57.8	84.6	49.0	66.8
1936	69.4	34.0	51.7	73.6	40.0	56.8	83.2	44.4	63.8	90.6	49.4	70.0
1937	57.7	27.8	42.8	72.4	36.6	54.5	78.1	40.8	59.4	86.5	46.3	66.4
1938	71.7	36.7	54.2	70.2	38.7	54.4	71.2	42.7	57.0	84.1	49.6	66.9
1939	67.0	34.9	51.0	64.5	33.1	48.8	79.1	40.8	60.0	89.6	49.3	69.4
1940	71.7	39.3	55.2	71.9	38.9	55.4	81.1	43.4	62.2	85.9	49.8	67.8
1931-1940 Average	67.4	34.3	50.9	69.9	38.9	54.4	79.4	43.3	61.4	86.4	49.2	67.8
1941	66.6	38.1	52.4	73.6	44.5	59.0	76.5	47.1	61.8	79.3	48.1	63.7
1942	69.3	39.4	54.4	69.2	37.4	53.2	77.1	41.9	59.5	81.0	50.8	65.9
1943	70.2	36.0	53.1	75.9	40.0	58.0	80.7	46.4	63.6	88.0	49.7	68.8
1944	66.9	33.8	50.4	66.8	36.3	51.6	75.9	42.0	59.0	82.4	45.8	64.1
1945	66.8	35.6	51.2	71.6	39.0	55.3	72.7	43.1	57.9	83.2	48.5	65.8
1946	68.7	38.3	53.5	73.2	33.3	53.2	79.5	43.1	61.3	90.9	52.2	71.6
1947	68.0	34.1	51.0	78.5	40.0	59.2	80.5	45.3	62.9	87.2	49.0	68.1
1948	71.6	35.7	53.6	70.7	38.0	54.4	72.8	39.8	56.3	87.6	49.6	68.6
1949	56.2	31.7	44.0	67.9	35.2	51.6	76.4	42.6	59.5	87.9	52.3	70.1
1950	66.7	33.2	50.0	76.3	40.9	58.6	81.7	45.0	63.4	90.2	52.5	71.4
1941-1950 Average	67.1	35.6	51.4	72.4	38.5	55.4	77.4	43.6	60.5	85.8	49.9	67.8
1951	69.8	35.9	52.9	72.4	38.1	55.3	79.1	42.4	60.8	85.4	50.9	68.2
1952	65.7	34.0	49.9	72.2	36.5	55.4	72.9	42.7	57.8	86.0	51.9	69.0
1953	74.9	41.2	58.1	74.1	37.2	55.7	80.1	44.0	62.1	84.9	50.4	67.7
1954	71.2	37.5	53.6	81.7	44.0	62.9	77.5	41.9	59.7	----	----	----
1930-1954 Average	67.8	35.3	51.5	71.8	38.8	55.3	78.2	43.3	60.8	86.0	49.7	67.8

YEAR	May Mean Max.	May Mean Min.	May Mean	June Mean Max.	June Mean Min.	June Mean	July Mean Max.	July Mean Min.	July Mean	August Mean Max.	August Mean Min.	August Mean
1930	----	----	----	----	----	----	----	----	----	----	----	----
1931	96.1	58.7	77.4	99.4	66.0	82.7	106.3	78.7	92.5	100.0	74.5	87.2
1932	90.0	55.3	72.6	97.4	60.6	79.0	100.5	73.6	87.0	104.0	72.0	88.0
1933	86.6	52.2	69.4	99.1	61.3	80.2	104.3	74.9	89.6	104.3	73.2	88.8
1934	96.3	56.9	76.6	95.4	58.1	76.8	104.5	75.2	89.8	103.4	75.5	89.4
1935	89.6	53.4	71.5	104.7	63.1	83.9	102.3	71.4	86.8	103.3	74.8	89.0
1936	98.2	56.6	77.4	103.2	64.9	84.1	105.1	74.5	89.8	103.7	75.8	89.8
1937	93.9	55.2	74.6	101.6	63.6	82.6	105.9	75.8	90.8	104.5	76.2	90.4
1938	91.8	54.5	73.2	100.3	62.9	81.5	103.3	72.0	87.6	102.2	71.8	87.0
1939	94.8	55.0	74.9	100.9	60.3	80.6	105.7	72.0	88.9	105.2	76.1	90.6
1940	97.2	58.0	77.6	104.3	66.4	85.4	106.5	68.7	87.6	105.0	73.8	89.4
1931-1940 Average	93.4	55.6	74.5	100.6	62.7	81.6	104.4	73.7	89.1	103.6	74.4	89.0
1941	93.9	58.6	76.2	97.8	60.5	79.2	104.8	73.9	89.4	100.5	70.7	85.6
1942	91.6	52.9	72.2	100.6	59.9	80.2	107.2	74.1	90.7	103.0	73.9	88.4
1943	95.0	55.4	75.2	98.0	61.5	79.8	106.2	71.6	88.9	103.0	74.9	89.0
1944	91.9	54.2	73.0	95.2	56.9	76.0	105.0	65.4	85.2	106.0	71.1	88.6
1945	90.4	56.1	73.2	96.6	59.4	75.0	104.9	73.9	89.4	102.8	75.8	89.3
1946	93.6	56.2	74.9	105.2	62.7	84.0	106.7	75.1	90.9	106.8	78.5	92.6
1947	96.7	58.2	77.4	101.6	62.8	82.2	109.2	71.1	90.2	104.8	72.0	88.4
1948	94.4	55.0	74.7	101.2	63.4	82.3	107.4	72.8	90.1	108.8	74.6	91.7
1949	91.8	56.0	73.9	102.0	65.7	83.9	106.8	74.6	90.7	106.5	71.3	88.9
1950	93.1	55.6	74.4	101.2	63.2	82.2	103.2	75.3	89.3	107.2	70.2	88.7
1941-1950 Average	93.2	55.8	74.5	99.9	61.6	80.8	106.1	72.9	89.5	104.9	73.3	89.1
1951	94.4	56.5	75.5	100.8	60.8	80.8	107.4	75.0	91.2	104.6	72.7	88.7
1952	100.0	60.1	80.1	100.8	62.0	81.4	107.5	73.8	90.7	107.2	77.2	92.2
1953	87.4	53.0	70.2	100.9	62.1	81.5	107.5	78.3	92.9	106.3	73.8	90.1
1954	----	----	----	----	----	----	----	----	----	----	----	----
1930-1954 Average	93.4	55.8	74.6	100.0	62.3	81.1	105.6	73.6	89.6	104.5	73.9	89.2

YEAR	September Mean Max.	September Mean Min.	September Mean	October Mean Max.	October Mean Min.	October Mean	November Mean Max.	November Mean Min.	November Mean	December Mean Max.	December Mean Min.	December Mean	ANNUAL Mean Max.	ANNUAL Mean Min.	ANNUAL Mean
1930	----	----	----	----	----	----	76.2	42.9	59.6	67.2	32.5	49.8	----	----	----
1931	96.8	62.6	79.7	87.2	50.8	69.0	70.0	38.2	54.1	62.3	34.0	48.2	84.9	53.2	69.1
1932	101.6	65.1	83.4	87.1	53.7	70.4	80.3	41.9	61.1	63.4	33.9	48.6	84.7	51.6	68.2
1933	100.1	68.2	84.2	94.0	57.6	75.9	79.8	40.1	60.0	71.2	35.6	53.4	85.8	51.9	68.8
1934	101.4	62.0	81.7	92.5	51.5	72.0	79.3	40.9	60.1	70.0	38.2	54.1	89.2	52.7	70.9
1935	96.7	67.1	81.9	88.5	50.2	69.4	75.2	36.2	55.7	69.2	35.9	52.6	85.9	51.8	68.8
1936	98.4	62.8	80.6	88.3	50.9	69.6	78.4	41.9	60.1	69.6	35.3	52.4	88.4	52.5	70.4
1937	101.2	71.6	86.4	93.2	52.0	72.6	79.7	40.9	60.3	72.7	41.5	57.1	87.5	52.4	69.9
1938	101.3	67.1	84.2	67.0	49.5	68.2	73.2	34.0	53.6	69.9	38.4	54.2	85.5	51.5	68.5
1939	95.7	67.2	80.4	87.9	49.2	68.6	79.0	44.2	61.6	74.6	39.0	56.8	86.8	51.8	69.3
1940	97.9	66.7	82.3	91.4	55.9	73.6	74.8	38.9	56.8	70.0	42.3	56.2	88.1	53.5	70.8
1931-1940 Average	98.9	66.0	82.4	89.7	52.1	70.9	77.0	39.7	58.4	69.3	37.4	53.4	86.7	52.3	69.5
1941	95.8	56.8	76.3	85.6	51.1	67.4	78.4	42.7	60.6	69.1	37.9	53.5	85.0	52.5	68.9
1942	101.3	59.6	80.4	85.9	52.6	71.2	80.0	40.4	60.2	72.4	37.4	54.9	86.9	51.7	69.3
1943	103.3	68.0	85.6	90.8	53.6	72.2	78.8	39.1	59.0	67.5	37.4	52.4	86.1	52.8	70.5
1944	100.2	66.3	83.2	91.3	53.1	72.2	71.4	44.4	57.9	69.3	37.9	53.6	85.2	50.6	67.9
1945	100.0	67.9	84.0	90.3	58.3	74.3	77.0	40.2	58.6	68.1	35.1	51.6	85.4	52.7	69.0
1946	101.5	69.1	85.3	85.7	50.1	67.9	73.0	40.9	57.0	70.9	39.9	55.4	88.0	53.3	70.6
1947	103.7	69.0	86.4	91.6	52.5	72.0	71.9	37.6	54.8	66.7	36.7	51.7	88.4	52.4	70.4
1948	104.0	68.2	86.1	90.3	57.8	74.0	74.7	38.9	56.8	65.3	34.3	49.8	87.4	52.3	69.9
1949	105.2	71.8	88.5	84.9	51.6	70.2	85.0	45.6	65.3	68.5	34.9	51.7	86.9	52.8	69.9
1950	100.0	62.0	81.0	96.2	56.7	76.5	83.5	46.5	65.0	77.1	40.4	58.8	89.7	53.5	71.6
1941-1950 Average	101.5	65.9	85.7	89.6	53.7	71.6	77.4	41.6	59.5	69.2	37.2	53.2	87.1	52.5	69.8
1951	105.0	67.1	86.1	91.8	54.8	73.3	76.1	44.2	60.2	66.6	37.6	52.2	87.8	53.0	70.4
1952	103.9	69.8	86.9	99.3	58.7	79.0	75.7	42.7	59.2	67.6	38.7	53.2	88.2	54.2	71.2
1953	104.0	63.6	83.8	91.5	53.3	72.4	81.8	45.7	63.8	70.6	34.0	52.3	88.7	53.1	70.9
1954	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1930-1954 Average	100.4	66.1	83.2	90.3	53.3	71.8	77.2	41.2	59.2	69.0	37.0	53.0	87.1	52.5	69.8

TABLE 14 — MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
				Mean Max.	62.1	66.6	70.7	81.6	89.8	99.0	103.6	101.9	96.6	86.0	72.1	64.3	82.9
				Mean Min.	32.1	36.2	38.5	45.6	50.6	59.4	70.3	69.8	63.1	49.7	38.2	34.2	49.0
Aguila	Maricopa	2,280	1935-1953	Mean	47.1	51.4	54.6	63.6	70.2	79.2	87.0	85.8	79.8	67.8	55.2	49.2	65.9
				Highest Mean Max.	68.8	72.1	77.2	88.2	96.4	102.8	106.3	103.9	101.1	93.8	80.0	72.1	----
				Highest Mean Min.	44.5	47.1	49.0	58.7	57.5	66.0	75.1	83.1	75.8	64.6	49.5	45.4	----
				Lowest Mean Max.	48.4	55.9	63.1	76.3	82.9	94.5	99.8	96.0	90.6	78.6	65.9	59.7	----
				Lowest Mean Min.	23.4	28.4	34.4	39.7	46.8	54.7	66.3	64.5	54.2	41.8	30.3	30.1	----
				Mean Max.	63.9	66.6	74.1	80.4	90.8	99.8	103.0	100.9	97.4	86.8	74.3	66.1	83.7
				Mean Min.	40.3	43.8	48.3	55.1	62.3	70.7	76.6	75.2	71.6	60.5	48.9	42.6	58.0
Ajo	Pima	1,763	1915-1953	Mean	52.1	55.2	61.2	67.8	76.6	85.2	89.8	88.1	84.5	73.6	61.6	54.4	70.8
				Highest Mean Max.	69.9	76.2	84.7	91.4	96.7	104.4	106.5	104.5	102.2	97.1	83.3	74.8	----
				Highest Mean Min.	44.4	50.1	55.3	61.2	68.0	75.2	80.4	78.8	75.9	67.0	55.0	48.1	----
				Lowest Mean Max.	52.3	59.6	64.9	75.7	83.9	95.1	98.1	96.7	93.6	78.6	69.1	60.3	----
				Lowest Mean Min.	31.6	36.3	42.5	49.3	56.4	62.2	71.4	66.3	65.9	47.9	40.9	30.2	----
				Mean Max.	65.6	71.5	76.4	86.3	93.7	102.6	105.0	104.3	101.0	89.9	75.4	67.4	86.6
				Mean Min.	32.0	35.4	41.1	49.4	54.3	61.9	73.4	71.1	65.8	52.3	39.5	34.2	50.9
Alhambra	Maricopa	1,115	1946-1953	Mean	48.8	53.5	58.8	67.9	74.0	82.2	89.2	87.7	83.3	70.9	57.4	50.8	68.7
				Highest Mean Max.	71.5	76.6	80.3	90.2	96.5	104.6	108.7	106.9	103.4	96.0	83.3	76.2	----
				Highest Mean Min.	36.0	38.3	44.1	51.3	58.0	64.3	77.3	73.6	70.3	55.5	43.9	35.6	----
				Lowest Mean Max.	55.1	68.3	68.8	82.1	87.5	100.6	101.9	101.2	97.4	81.4	70.1	61.6	----
				Lowest Mean Min.	29.2	30.8	38.9	46.4	51.8	59.2	71.1	65.9	61.9	48.6	33.8	31.8	----
			1912-1918	Mean Max.	43.9	47.4	51.2	59.5	68.2	77.6	77.8	75.5	72.8	65.0	55.6	46.6	61.8
			1918	Mean Min.	8.1	13.3	18.1	23.0	27.7	35.2	43.8	42.3	34.9	25.9	15.9	10.2	24.9
Alpine	Apache	8,000	1921-1953	Mean	26.0	30.4	34.6	41.2	48.0	56.4	60.8	58.9	53.8	45.4	35.8	28.4	43.4
				Highest Mean Max.	52.6	54.1	55.7	65.9	73.4	82.7	83.0	77.7	79.3	71.9	64.5	59.4	----
			Irregular only 7 yrs.	Highest Mean Min.	18.7	21.1	24.6	28.7	33.5	41.7	48.6	46.2	41.3	31.4	24.7	16.1	----
				Lowest Mean Max.	39.2	41.2	42.3	45.5	60.9	69.2	72.7	72.6	68.4	58.4	46.4	39.2	----
				Lowest Mean Min.	-8.8	-3.3	9.3	19.5	21.6	28.5	38.9	38.0	31.1	21.1	9.2	-1.7	----
				Mean Max.	65.4	69.5	73.3	84.0	90.5	99.4	100.2	98.7	97.0	90.1	75.7	67.0	84.2
				Mean Min.	31.8	33.9	38.4	46.3	52.2	60.5	69.9	68.7	61.8	51.9	39.0	32.7	48.9
Anvil Ranch	Pima	2,750	1945-1953	Mean	48.6	51.7	55.9	65.2	71.4	80.0	85.1	83.7	79.4	71.0	57.4	49.8	66.6
				Highest Mean Max.	70.8	74.5	78.8	88.0	95.1	102.9	103.6	102.8	101.4	95.2	81.4	75.9	- -
			Interrupted (6 to 11)	Highest Mean Min.	35.5	40.9	44.3	49.3	55.1	64.6	73.0	69.8	65.9	55.4	41.4	35.7	- -
				Lowest Mean Max.	62.5	61.9	66.9	80.5	85.7	96.5	95.9	94.3	92.7	85.6	67.3	63.9	- -
				Lowest Mean Min.	27.8	28.3	34.8	40.3	51.1	55.2	67.0	66.6	59.3	49.5	35.4	28.0	- -
				Mean Max.	61.3	66.4	69.8	80.1	88.1	97.0	96.7	95.0	92.8	83.6	71.2	63.5	80.4
				Mean Min.	26.9	28.6	34.1	41.3	47.2	50.4	65.5	64.2	56.4	45.2	32.3	27.2	43.3
Apache Powder Co.	Cochise	3,690	1944-1953	Mean	44.1	47.5	52.0	60.7	67.6	73.7	81.1	79.6	74.6	64.4	51.8	45.4	61.9
				Highest Mean Max.	67.6	70.9	74.7	85.6	91.4	99.7	99.6	96.6	95.9	90.8	82.5	72.4	- -
				Highest Mean Min.	30.0	31.9	37.3	45.0	51.5	59.9	68.1	67.9	60.8	47.9	35.3	32.0	- -
				Lowest Mean Max.	49.7	62.7	63.2	75.9	87.0	95.8	90.8	93.3	89.6	78.8	65.3	59.3	- -
				Lowest Mean Min.	24.4	24.8	31.9	39.2	43.6	51.2	65.8	59.3	50.4	40.2	27.0	21.9	- -
				Mean Max.	51.3	55.0	61.0	69.3	77.8	88.1	91.8	87.3	84.7	74.4	63.1	53.9	71.5
				Mean Min.	20.8	24.0	27.4	33.5	39.9	48.1	57.1	55.9	48.7	37.6	27.4	22.8	36.9
Ashfork	Yavapai	5,140	1916-1953	Mean	36.1	39.5	44.2	51.4	58.8	68.1	74.4	71.6	66.7	56.0	45.2	38.4	54.2
				Highest Mean Max.	60.4	64.0	72.3	75.7	84.9	96.1	95.3	94.0	89.4	81.7	75.2	68.2	- -
				Highest Mean Min.	26.6	30.1	33.8	37.9	44.9	56.5	61.3	58.9	53.5	42.5	31.7	28.6	- -
				Lowest Mean Max.	36.6	44.6	51.3	60.2	68.2	83.1	85.8	84.7	78.1	64.8	53.5	43.3	- -
				Lowest Mean Min.	5.6	13.1	23.1	29.1	34.9	43.5	53.4	51.9	44.2	33.7	19.2	15.1	- -
				Mean Max.	58.7	61.3	68.0	75.7	84.0	92.7	97.8	95.6	91.9	81.1	69.5	62.0	78.2
				Mean Min.	31.0	33.8	37.8	44.8	51.6	57.2	68.6	67.2	61.0	49.5	38.2	33.9	47.9
Bagdad 2E	Yavapai	3,200 - 3,750[1]	1929-1953	Mean	44.8	47.6	52.9	60.2	67.8	75.0	83.2	81.4	76.0	65.3	53.8	48.0	63.0
				Highest Mean Max.	65.6	71.6	80.1	82.2	90.4	99.3	102.2	101.1	98.6	86.0	76.3	71.8	- -
				Highest Mean Min.	37.1	39.1	44.0	52.4	57.3	67.3	74.3	72.3	65.9	55.6	45.6	41.6	- -
				Lowest Mean Max.	43.0	52.5	55.4	66.6	76.2	88.1	92.3	89.9	87.0	73.6	60.4	53.3	- -
				Lowest Mean Min.	23.3	27.5	31.9	39.4	44.3	53.6	65.3	61.7	54.7	44.5	31.6	29.5	- -
				Mean Max.	65.9	67.9	71.6	81.7	90.8	99.6	104.8	102.7	99.4	88.2	75.1	66.2	84.3
				Mean Min.	40.2	42.2	44.8	52.0	59.1	66.6	76.3	75.5	70.6	59.9	47.8	42.2	56.4
Bartlett Dam	Maricopa	1,650	1940-1953	Mean	53.1	55.1	58.2	66.8	75.0	83.1	90.6	89.1	85.0	74.1	61.4	54.2	70.4
				Highest Mean Max.	69.5	75.5	76.6	88.4	94.4	103.4	107.8	105.3	103.3	96.7	83.6	76.1	- -
				Highest Mean Min.	44.2	47.4	48.5	58.5	64.3	73.0	79.2	78.2	73.9	66.4	52.9	47.3	- -
				Lowest Mean Max.	51.7	63.3	64.4	73.3	85.7	96.6	101.1	98.5	95.4	80.0	69.1	59.9	- -
				Lowest Mean Min.	34.5	38.6	41.0	47.8	55.1	61.7	72.7	71.5	65.9	55.1	44.0	35.7	- -
				Mean Max.	63.2	66.6	72.6	79.2	87.9	96.8	96.6	93.9	91.2	83.4	72.1	62.8	80.5
				Mean Min.	27.8	32.2	36.2	41.8	48.7	57.8	65.2	63.7	56.6	44.3	33.9	29.5	44.8
Benson	Cochise	3,585	1903-1953	Mean	45.5	49.4	54.4	60.5	68.3	77.3	80.9	78.8	73.9	63.8	53.0	46.2	62.7
				Highest Mean Max.	72.3	75.8	83.9	87.4	96.1	103.9	108.3	104.7	97.4	90.5	82.3	74.2	----
				Highest Mean Min.	35.5	39.1	42.6	46.6	55.0	63.2	70.6	69.8	63.2	60.2	43.8	41.8	----
				Lowest Mean Max.	48.5	56.1	65.9	71.9	81.8	90.5	90.7	85.7	87.5	76.9	63.1	52.7	----
				Lowest Mean Min.	19.2	24.9	27.1	33.8	43.2	45.5	52.8	50.4	43.8	31.2	22.8	22.4	----
				Mean Max.	40.4	43.0	49.6	60.5	71.2	81.5	87.3	84.2	77.9	65.7	51.9	41.5	62.9
				Mean Min.	20.1	20.5	24.2	33.2	41.4	49.6	56.4	54.7	49.3	38.7	28.3	21.5	36.5
Betatakin	Navajo	7,200	1939-1953*	Mean	30.2	31.8	36.9	46.8	56.3	65.6	71.8	69.4	63.6	52.2	40.1	31.5	49.8
				Highest Mean Max.	45.8	49.0	57.0	66.4	75.1	86.8	91.2	86.8	81.3	74.0	61.4	50.8	----
				Highest Mean Min.	24.3	24.8	29.5	38.5	46.4	55.4	59.6	57.6	53.4	43.9	34.8	26.0	----
				Lowest Mean Max.	38.1	36.8	44.0	51.4	65.0	77.1	84.0	81.6	72.3	61.4	43.6	35.0	----
				Lowest Mean Min.	16.1	11.8	17.2	28.2	34.5	44.8	53.2	52.2	44.2	34.6	21.2	18.8	----
			1895-1953	Mean Max.	57.5	60.9	66.1	73.7	81.2	90.0	87.2	86.5	84.2	76.2	65.8	58.0	73.9
			1953	Mean Min.	34.3	36.5	40.4	45.2	53.2	62.1	64.2	62.5	59.0	50.3	40.0	35.3	48.6
Bisbee	Cochise	5,350	for max. 1892-1953	Mean	45.9	48.7	53.2	59.4	67.2	76.1	75.7	74.5	71.6	63.2	52.9	46.6	61.2
				Highest Mean Max.	70.8	71.4	76.4	82.2	90.4	99.6	96.5	94.6	90.9	84.2	76.7	67.3	----
				Highest Mean Min.	39.9	43.5	45.2	52.9	58.1	69.3	66.8	65.0	62.5	56.7	46.9	40.5	----
			for min. 1890-53* for mean	Lowest Mean Max.	45.3	52.5	58.1	63.7	73.6	83.6	80.5	77.9	74.8	68.7	57.3	48.8	----
				Lowest Mean Min.	27.3	28.8	32.8	40.2	47.4	57.1	61.5	59.4	54.2	46.4	36.9	28.5	----
				Mean Max.	61.8	66.4	72.6	80.6	89.9	99.6	99.0	96.8	90.1	83.7	70.2	59.9	80.9
				Mean Min.	30.3	34.2	38.7	44.5	52.6	62.2	67.3	65.7	58.8	48.1	36.6	32.1	47.6
Bowie	Cochise	3,756	1902-1953	Mean	46.1	50.3	55.6	62.6	71.2	82.9	83.2	81.2	74.4	65.9	53.4	46.0	64.2
				Highest Mean Max.	71.3	73.8	81.3	86.4	99.5	106.5	104.3	102.2	97.0	91.0	78.4	69.0	----
				Highest Mean Min.	36.5	43.6	47.3	51.7	60.1	74.2	75.7	76.4	65.8	54.0	43.7	42.9	----
				Lowest Mean Max.	55.2	58.6	62.9	73.8	82.6	90.0	92.9	90.0	87.9	76.5	62.3	53.1	----
				Lowest Mean Min.	22.2	25.5	31.6	30.9	46.3	50.6	55.9	55.9	50.4	37.0	25.0	23.2	----

TABLE 14 — (Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Bright Angel RS	Coconino	8,400	1925-1953*	Mean Max.	36.2	38.7	43.8	52.2	62.4	73.8	77.4	74.7	69.7	58.1	46.7	39.4	56.1
				Mean Min.	14.5	17.2	20.0	27.0	33.8	39.6	44.7	45.2	39.6	30.7	22.9	19.5	29.6
				Mean	25.4	28.0	31.9	36.6	48.1	56.7	61.1	60.0	54.6	44.4	34.8	29.4	42.8
				Highest Mean Max.	45.8	46.1	54.1	58.5	69.5	80.0	81.6	79.3	74.9	66.8	57.3	47.0	----
				Highest Mean Min.	27.5	28.4	28.7	36.6	39.9	45.7	51.9	50.5	44.4	37.2	28.7	32.0	----
				Lowest Mean Max.	25.2	29.3	36.2	45.6	54.8	67.7	70.2	69.4	63.1	51.1	40.7	32.7	----
				Lowest Mean Min.	-9.1	1.8	11.0	20.7	27.8	32.5	38.6	38.1	31.1	24.3	9.2	9.9	----
Buckeye	Maricopa	888	1893-1953	Mean Max.	66.6	70.8	79.6	84.4	92.4	101.1	105.9	102.6	98.8	89.3	76.5	67.8	86.3
				Mean Min.	32.7	36.2	40.4	47.0	54.1	62.1	73.2	72.8	64.1	49.4	39.1	34.0	50.4
				Mean	49.7	53.5	60.0	65.7	73.2	81.6	89.6	87.7	81.4	69.4	57.8	50.9	68.4
				Highest Mean Max.	78.2	82.8	90.8	94.2	102.1	109.1	111.3	110.2	105.9	97.2	86.4	76.8	----
				Highest Mean Min.	41.2	46.0	51.5	56.8	60.9	70.3	78.9	78.3	70.6	59.1	47.8	42.5	----
				Lowest Mean Max.	55.5	64.6	69.4	76.4	86.0	95.9	98.7	100.3	93.4	82.1	69.8	60.6	----
				Lowest Mean Min.	26.9	28.7	34.1	37.6	46.2	55.1	61.1	64.6	55.9	45.2	31.4	23.8	----
Burrus Ranch	Coconino	6,800	1943-1953	Mean Max.	42.2	46.0	51.1	63.0	70.8	80.2	84.4	82.1	78.8	67.0	52.6	44.3	63.5
				Mean Min.	16.7	18.5	23.8	30.6	37.5	44.8	53.2	50.1	44.7	33.9	22.8	17.2	32.8
				Mean	29.4	32.2	37.4	46.8	54.2	62.5	68.8	66.1	61.8	50.4	37.7	30.8	48.2
				Highest Mean Max.	52.0	53.0	56.3	67.8	74.7	84.5	87.3	85.0	82.5	75.7	63.7	54.6	----
				Highest Mean Min.	23.1	23.6	26.9	33.8	41.3	49.4	55.7	53.1	47.4	38.7	27.0	22.8	----
				Lowest Mean Max.	29.8	39.2	43.3	56.6	64.1	76.1	81.8	79.3	74.3	60.7	45.3	38.7	----
				Lowest Mean Min.	8.3	9.3	19.1	26.6	30.7	40.8	48.8	46.1	40.5	30.4	19.0	12.0	----
Camelback	Maricopa	1,250	1920-1953	Mean Max.	64.7	71.0	76.4	84.5	90.0	101.6	104.2	102.2	98.8	89.0	76.8	67.8	85.6
				Mean Min.	36.2	37.5	44.1	50.2	56.5	64.1	74.3	73.2	67.6	55.6	44.3	37.4	53.4
				Mean	50.4	54.2	60.2	67.4	73.2	82.8	89.2	87.7	83.2	72.3	60.6	52.6	69.5
				Highest Mean Max.	74.2	78.3	85.5	92.4	98.7	106.8	109.4	106.4	105.5	95.5	83.8	76.5	----
				Highest Mean Min.	42.5	46.5	50.6	56.3	63.4	69.5	78.3	75.6	75.6	64.4	51.5	43.7	----
				Lowest Mean Max.	55.2	61.6	69.1	76.6	86.3	97.8	100.2	95.3	92.7	82.3	70.4	61.0	----
				Lowest Mean Min.	28.0	33.0	39.5	45.5	50.8	57.7	69.2	67.7	61.1	50.6	37.3	31.7	----
Canelo RS	Santa Cruz	5,000	1920-1953*	Mean Max.	57.6	61.6	66.6	74.1	81.9	90.2	88.3	84.7	84.4	77.4	66.2	58.1	74.2
				Mean Min.	23.3	26.3	26.2	35.4	41.1	50.4	58.5	57.2	51.2	39.7	29.2	24.6	38.6
				Mean	40.4	44.0	46.4	54.8	61.5	70.3	73.4	71.0	67.8	58.6	47.7	41.4	56.4
				Highest Mean Max.	67.1	67.5	76.3	81.8	87.5	95.0	93.7	91.2	91.6	84.1	74.1	69.0	----
				Highest Mean Min.	29.1	33.0	36.4	44.4	47.1	60.0	62.2	61.0	55.0	43.7	35.5	32.6	----
				Lowest Mean Max.	45.9	54.6	54.3	63.8	75.2	85.8	77.9	79.8	74.7	68.4	51.6	43.9	----
				Lowest Mean Min.	17.6	19.6	21.9	31.3	36.6	42.3	51.3	53.8	46.5	34.9	21.4	17.5	----
Casa Grande	Pinal	1,390	1903-1912 1917-1922 1925-1953*	Mean Max.	66.3	70.9	77.8	86.8	95.5	104.6	104.4	104.4	100.7	90.0	76.5	68.0	87.2
				Mean Min.	32.7	37.6	42.3	48.6	55.8	65.1	75.5	73.8	66.4	52.1	36.5	34.7	51.8
				Mean	49.5	54.2	60.1	67.7	75.6	84.8	90.0	89.1	83.6	71.1	56.5	51.4	69.5
				Highest Mean Max.	76.1	83.5	88.2	95.5	101.3	109.1	114.7	112.7	106.4	98.7	84.0	84.0	----
				Highest Mean Min.	38.1	44.9	55.7	54.6	61.4	74.4	81.2	81.9	74.5	58.7	47.0	39.8	----
				Lowest Mean Max.	54.1	56.4	68.8	76.8	86.4	97.6	100.9	95.7	94.4	79.8	68.8	59.4	----
				Lowest Mean Min.	26.7	28.1	36.0	37.7	49.9	53.2	66.7	67.5	59.2	39.4	31.9	24.7	----
Casa Grande Ruins	Pinal	1,419	1908-1953	Mean Max.	65.9	70.4	77.0	86.0	94.6	103.5	105.8	104.0	100.6	91.9	76.0	67.0	86.9
				Mean Min.	33.2	36.1	40.8	46.9	53.2	62.3	73.8	72.9	65.4	51.5	39.6	34.4	50.8
				Mean	49.6	53.2	58.9	66.4	73.9	82.9	89.8	88.4	83.0	71.2	57.8	50.7	68.8
				Highest Mean Max.	72.6	78.0	84.9	91.8	101.0	107.4	110.9	107.3	106.5	97.9	83.0	77.8	----
				Highest Mean Min.	40.7	44.3	47.7	54.0	59.3	67.7	79.4	75.5	70.3	56.2	48.2	42.0	----
				Lowest Mean Max.	53.9	62.0	70.7	79.2	84.6	100.4	99.1	99.5	96.6	81.9	67.4	60.1	----
				Lowest Mean Min.	24.7	28.6	34.8	40.8	47.9	57.9	70.3	67.5	58.2	47.1	31.1	28.3	----
Castle Hot Springs 4N	Yavapai	2,800	1949-1953	Mean Max.	63.2	66.7	69.4	78.7	87.0	94.5	100.4	99.6	96.2	86.8	74.6	64.2	81.8
				Mean Min.	36.0	37.5	40.2	47.7	53.0	61.8	70.9	68.4	64.4	55.1	45.0	36.8	51.4
				Mean	49.6	52.1	54.8	63.2	70.0	78.2	85.6	84.0	80.3	71.0	59.8	50.5	66.6
Cave Creek	Maricopa	2,050	1950-1953	Mean	50.6	51.1	56.0	64.4	71.8	80.8	88.0	86.5	81.2	72.8	58.6	51.3	67.8
Chandler Heights	Maricopa	1,445	1941-1953	Mean Max.	64.8	69.3	73.9	84.9	93.5	104.7	102.3	91.1	98.9	87.3	76.8	79.0	85.5
				Mean Min.	36.5	39.4	43.3	51.4	58.9	66.1	75.7	77.9	74.0	68.2	42.9	36.6	55.9
				Mean	50.6	54.4	58.6	68.2	76.2	85.4	89.0	84.5	86.4	77.8	59.8	57.8	70.7
				Highest Mean Max.	69.1	75.0	77.9	91.5	96.1	105.4	107.3	105.0	101.0	90.4	82.2	70.1	----
				Highest Mean Min.	42.1	47.0	48.9	57.1	62.3	69.2	78.1	76.9	72.3	60.4	48.4	38.9	----
				Lowest Mean Max.	54.9	64.4	68.7	75.4	90.5	98.5	101.8	99.9	95.7	81.8	70.1	64.0	----
				Lowest Mean Min.	32.5	33.1	38.2	46.7	55.2	63.9	72.1	70.1	63.2	50.9	38.6	32.1	----
Childs	Yavapai	2,650	1915-1953	Mean Max.	59.6	64.3	70.5	78.6	85.9	97.8	101.1	98.1	94.0	81.8	68.6	61.2	80.1
				Mean Min.	31.0	34.3	37.9	44.5	51.3	59.1	67.3	64.9	59.0	46.1	36.6	32.5	47.0
				Mean	45.3	49.3	54.2	61.6	68.6	78.4	84.2	81.5	76.5	64.0	52.6	46.8	63.6
				Highest Mean Max.	65.4	71.6	79.8	86.6	94.9	103.2	104.9	104.0	99.9	93.8	77.8	71.7	----
				Highest Mean Min.	39.0	42.1	48.7	50.3	60.2	74.0	73.8	75.2	73.7	57.3	45.9	40.9	----
				Lowest Mean Max.	46.5	55.1	60.6	62.5	78.8	92.5	86.5	90.6	90.0	75.8	55.0	52.0	----
				Lowest Mean Min.	15.7	22.6	32.4	36.9	45.8	51.5	59.2	57.9	51.1	39.3	27.1	27.6	----
Chinle	Apache	5,538	1908-1928 1935-1953	Mean Max.	42.3	48.6	57.3	64.8	77.2	87.6	91.1	88.7	81.7	70.5	56.2	43.9	67.5
				Mean Min.	13.8	20.7	25.7	32.8	40.2	49.3	58.2	56.6	47.6	34.8	22.7	16.7	34.9
				Mean	28.1	34.6	41.5	48.8	58.7	68.4	74.6	72.6	64.6	52.6	39.4	30.3	51.2
				Highest Mean Max.	53.4	56.9	64.9	74.3	85.3	93.0	94.9	92.2	88.5	80.2	64.0	56.0	----
				Highest Mean Min.	26.7	27.2	31.9	39.0	49.2	55.6	62.7	61.2	53.3	39.8	30.1	25.5	----
				Lowest Mean Max.	28.3	39.0	51.0	57.8	68.2	82.5	83.6	85.2	68.3	62.5	50.0	33.1	----
				Lowest Mean Min.	-12.6	13.5	18.6	26.7	35.7	42.9	53.2	50.6	40.5	27.5	17.0	8.2	----
Chino Valley	Yavapai	4,673	1942-1953	Mean Max.	52.2	56.2	62.1	71.1	79.3	88.0	92.9	90.2	87.5	75.7	63.3	54.2	72.6
				Mean Min.	19.3	21.8	26.1	32.8	38.8	45.6	56.5	54.9	47.0	36.0	24.1	20.3	35.3
				Mean	35.8	39.0	43.6	52.0	59.1	66.8	74.7	72.6	67.2	55.8	43.7	37.2	54.0
				Highest Mean Max.	61.9	63.9	65.9	76.1	83.5	92.4	95.9	93.9	90.3	84.5	72.6	64.9	----
				Highest Mean Min.	23.6	27.1	31.4	36.3	44.4	49.8	59.8	59.9	51.6	40.3	28.6	23.9	----
				Lowest Mean Max.	36.5	43.6	53.0	65.0	71.8	84.4	88.4	86.7	83.5	70.7	56.9	48.6	----
				Lowest Mean Min.	15.0	14.1	23.5	29.1	35.9	41.8	50.1	50.8	42.8	31.6	20.8	13.7	----
Chiricahua	Cochise	5,300	1948-1953	Mean	41.4	43.9	47.9	55.5	63.4	72.3	74.0	72.4	70.4	62.4	49.4	42.5	57.1
Cibecue	Navajo	5,300	1927-1953	Mean Max.	52.2	56.1	62.2	70.6	77.8	88.8	91.3	89.2	85.1	75.7	63.3	55.1	72.3
				Mean Min.	21.8	24.8	27.8	33.1	38.2	45.5	56.2	55.1	47.4	37.5	26.6	23.0	36.4
				Mean	37.0	40.4	45.0	51.8	58.0	67.2	73.8	72.2	66.2	56.1	45.0	39.1	54.4
				Highest Mean Max.	60.7	69.1	73.2	77.3	85.5	98.1	102.9	92.7	90.0	84.9	71.3	71.9	----
				Highest Mean Min.	31.0	34.1	32.9	38.9	45.2	53.8	60.2	59.4	53.4	42.5	33.7	31.0	----
				Lowest Mean Max.	39.9	46.9	52.8	60.4	63.5	83.1	87.5	84.6	79.5	67.7	55.8	47.2	----
				Lowest Mean Min.	5.7	17.7	20.4	27.2	32.1	39.9	47.2	49.7	37.9	29.7	16.0	15.0	----

TABLE 14 --(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Clemenceau Cottonwood	Yavapai	3,320	1920-1936	Mean Max.	57.1	62.1	68.6	76.1	84.3	94.2	98.2	94.8	90.6	80.0	67.3	57.5	77.6
				Mean Min.	30.6	34.8	39.2	46.0	53.1	61.8	68.9	66.3	60.4	49.3	38.6	31.9	48.4
				Mean	43.8	48.4	53.9	61.1	68.7	78.0	83.6	80.6	75.5	64.6	53.0	44.7	63.0
			1949	Highest Mean Max.	64.4	67.5	78.6	81.6	88.9	97.6	105.0	97.4	96.9	88.5	73.3	66.4	----
			1953	Highest Mean Min.	35.2	39.1	46.3	50.9	58.6	67.2	71.1	69.6	63.8	53.9	43.3	37.8	----
				Lowest Mean Max.	51.3	55.9	58.2	68.3	75.9	89.9	94.2	92.0	84.8	72.5	59.8	51.8	----
				Lowest Mean Min.	25.7	26.8	34.3	40.2	44.5	55.7	63.4	61.0	54.2	43.3	32.6	26.3	----
Clifton	Greenlee	3,465	1908-1953	Mean Max.	58.4	65.7	72.7	81.1	89.9	99.2	100.1	98.0	93.5	83.5	68.7	58.8	80.8
				Mean Min.	33.3	37.8	43.4	49.9	57.0	67.9	72.0	71.1	66.1	54.9	41.6	34.2	52.4
				Mean	45.8	51.8	58.1	65.0	73.4	83.6	86.1	84.6	79.8	69.2	55.2	46.5	66.6
				Highest Mean Max.	67.7	73.8	82.5	88.1	97.8	104.7	105.4	104.7	101.1	91.0	77.8	68.4	----
				Highest Mean Min.	39.6	44.2	52.3	56.9	65.7	75.6	76.3	75.4	70.8	60.4	47.7	41.3	----
				Lowest Mean Max.	49.4	57.4	65.3	73.2	81.6	87.1	93.3	92.2	88.5	77.5	59.2	49.6	----
				Lowest Mean Min.	28.4	30.1	35.4	42.1	49.0	59.1	57.0	58.7	54.9	50.2	34.8	26.5	----
Copper Mining TP	Cochise	6,380	1939-1953	Mean Max.	43.2	49.3	56.4	66.4	75.5	84.8	91.9	88.4	82.2	68.5	53.6	45.2	67.1
				Mean Min.	19.8	23.4	28.8	37.0	44.6	52.7	63.6	58.1	50.7	39.7	27.5	21.9	39.0
				Mean	31.5	36.4	42.6	51.7	60.1	68.8	77.8	73.2	66.4	54.1	40.6	33.6	53.1
				Highest Mean Max.	50.6	59.9	66.8	77.8	83.3	93.2	95.9	91.8	86.2	76.9	67.2	49.6	----
				Highest Mean Min.	26.5	27.8	34.6	40.6	49.3	57.3	62.3	60.5	54.9	43.5	33.5	26.5	----
				Lowest Mean Max.	32.7	40.1	48.6	55.4	69.8	79.2	87.3	84.8	75.0	60.0	48.1	40.5	----
				Lowest Mean Min.	9.5	11.8	22.1	31.9	41.3	47.9	43.0	55.6	38.2	35.3	23.3	18.4	----
Cordes	Yavapai	3,773	1932-1953	Mean Max.	54.8	57.8	64.0	72.4	81.1	90.2	95.1	92.6	88.3	77.3	66.1	58.0	74.8
				Mean Min.	30.9	32.9	36.6	42.8	49.2	56.5	65.4	65.0	59.5	49.1	38.9	33.9	46.7
				Mean	42.8	45.4	50.3	57.6	65.2	73.4	80.2	78.8	73.9	63.2	52.5	46.0	60.8
				Highest Mean Max.	63.4	68.1	75.5	79.1	86.6	94.5	98.7	96.5	93.0	86.2	75.1	67.2	----
				Highest Mean Min.	35.6	39.1	45.8	48.8	56.1	63.4	69.5	68.1	63.1	55.1	44.3	39.1	----
				Lowest Mean Max.	38.6	47.6	55.0	62.5	73.7	85.7	90.4	89.3	81.9	69.4	55.4	49.9	----
				Lowest Mean Min.	19.8	25.3	32.1	38.7	43.9	52.8	60.0	61.4	54.5	42.4	33.7	29.5	----
Cortaro 3SW	Pima	2,283	1945-1953	Mean Max.	65.5	70.8	74.4	85.6	94.0	101.9	102.7	100.9	99.6	88.0	75.4	68.2	85.6
				Mean Min.	32.8	34.9	39.8	47.8	54.4	64.9	72.7	70.0	65.1	52.9	40.0	34.1	50.8
				Mean	49.2	52.8	57.1	66.7	74.2	83.4	87.7	85.4	82.4	70.4	57.7	51.2	68.2
				Highest Mean Max.	70.4	76.2	80.0	89.9	97.9	106.3	106.8	103.4	103.9	95.7	83.6	71.8	----
				Highest Mean Min.	34.7	38.9	42.1	52.0	58.2	67.2	77.1	72.0	68.8	58.7	46.2	37.1	----
				Lowest Mean Max.	54.6	66.7	67.5	82.1	88.4	99.5	97.6	98.3	86.0	82.7	68.3	64.1	----
				Lowest Mean Min.	29.4	30.9	34.4	44.8	49.9	63.2	70.5	68.3	60.3	47.5	34.9	29.0	----
Davis Dam	Mohave	628	1948-1953	Mean	49.6	54.8	59.6	69.7	75.2	82.3	90.0	87.8	83.1	72.5	60.9	52.4	69.8
Douglas Smelter	Cochise	3,977	1903-1953	Mean Max.	61.4	65.9	71.5	79.1	86.9	95.7	94.1	91.8	89.5	81.5	70.1	61.9	79.1
				Mean Min.	29.4	32.1	37.3	43.1	49.8	59.3	66.3	64.9	60.2	47.3	35.6	30.8	46.3
				Mean	45.4	49.0	54.4	61.1	68.4	77.5	80.2	78.4	74.8	64.4	52.8	46.3	62.7
				Highest Mean Max.	70.1	73.2	80.2	85.2	92.2	100.3	98.7	97.7	94.6	90.4	78.6	72.3	----
				Highest Mean Min.	37.2	39.9	42.0	47.7	54.5	64.2	68.9	68.2	63.8	51.5	42.2	37.9	----
				Lowest Mean Max.	49.4	57.4	61.4	71.3	79.5	88.7	86.8	82.1	81.9	75.2	63.2	53.8	----
				Lowest Mean Min.	19.8	25.3	32.2	36.9	44.4	52.6	59.4	58.4	54.5	40.5	29.6	21.9	----
Duncan	Greenlee	3,642	1901-1907 1948-1953	Mean Max.	59.3	63.5	73.7	78.1	85.2	94.9	96.0	94.2	89.9	81.5	69.2	59.0	78.7
				Mean Min.	21.6	25.0	31.0	37.5	42.8	51.6	61.3	60.2	51.7	39.1	27.8	23.4	39.4
				Mean	40.4	44.2	52.4	57.3	64.0	73.2	78.6	77.2	70.8	60.3	48.5	41.2	59.1
				Highest Mean Max.	64.3	72.6	77.3	82.8	88.5	98.8	99.4	98.6	93.3	87.3	75.8	67.9	----
				Highest Mean Min.	27.1	36.3	37.9	40.2	47.5	56.7	66.7	64.2	53.6	44.8	34.4	33.2	----
				Lowest Mean Max.	47.0	56.8	62.8	69.9	81.1	90.9	91.2	89.5	85.9	75.6	62.4	50.8	----
				Lowest Mean Min.	11.9	19.9	26.7	33.4	39.8	48.3	53.3	54.0	48.9	32.4	21.3	16.3	----
Douglas BD Apt.	Cochise	3,973	1948-1953	Mean	44.6	47.1	52.7	60.8	67.8	77.1	79.2	77.8	74.5	65.1	52.1	45.1	62.0
Ehrenberg	Yuma	323	1941-1953	Mean Max.	68.3	73.8	77.8	89.1	96.5	102.6	108.5	106.6	102.7	91.4	85.4	74.8	89.8
				Mean Min.	35.8	39.7	45.0	53.7	59.7	66.3	74.3	74.5	67.6	54.8	42.5	37.8	54.3
				Mean	52.1	56.8	61.4	71.4	78.1	84.4	91.4	90.6	85.2	73.1	64.0	56.3	72.1
				Highest Mean Max.	72.6	79.2	83.0	93.6	100.8	106.5	111.8	109.5	106.3	97.1	84.9	75.9	----
				Highest Mean Min.	42.0	46.0	51.1	57.5	63.0	72.2	82.4	79.4	72.4	59.2	50.6	43.2	----
				Lowest Mean Max.	57.2	69.0	73.4	84.8	93.4	100.2	105.0	103.9	100.0	86.9	72.0	62.7	----
				Lowest Mean Min.	30.8	31.6	40.2	48.2	57.6	61.6	68.0	69.8	63.0	46.8	35.3	29.7	----
Falcon Field	Maricopa	1,320	1942-1944 1947-1953	Mean Max.	64.6	69.4	73.6	83.0	91.1	99.1	102.1	100.2	97.8	87.3	74.8	65.8	84.1
				Mean Min.	35.6	39.0	43.2	50.7	57.1	64.1	74.4	72.4	66.4	55.4	43.5	37.0	53.2
				Mean	50.1	54.2	58.4	66.8	74.1	81.6	88.2	86.3	82.1	71.3	59.2	51.4	68.6
				Highest Mean Max.	71.5	77.1	78.4	87.2	94.9	102.6	105.9	102.2	101.4	94.4	80.6	72.0	----
				Highest Mean Min.	39.2	44.1	47.9	53.3	61.7	67.5	78.2	75.7	70.9	59.5	48.4	41.8	----
				Lowest Mean Max.	52.6	63.8	66.7	79.6	86.4	96.8	98.9	96.3	92.9	81.9	66.7	61.5	----
				Lowest Mean Min.	33.1	32.4	40.1	42.1	45.5	57.2	72.4	68.7	56.7	48.5	38.6	29.4	----
Flagstaff	Coconino	6,993	1898-1953	Mean Max.	41.6	43.7	49.2	57.7	66.3	77.0	81.7	78.2	73.1	62.7	51.8	43.0	60.5
				Mean Min.	14.6	17.9	23.0	28.5	34.0	41.3	50.6	49.3	41.8	31.8	22.1	16.0	30.9
				Mean	28.1	30.8	36.1	43.1	50.2	59.2	66.2	63.8	57.4	47.2	37.0	29.5	45.7
				Highest Mean Max.	49.7	53.2	62.1	65.2	72.4	82.7	85.4	84.5	79.6	75.0	62.2	55.1	----
				Highest Mean Min.	23.3	25.6	28.6	33.7	38.7	47.6	54.4	52.9	46.6	35.9	27.5	24.2	----
				Lowest Mean Max.	28.2	33.6	39.5	49.4	57.5	71.1	74.3	73.6	68.0	54.4	43.8	35.5	----
				Lowest Mean Min.	-2.9	4.6	13.5	24.4	29.6	36.2	46.4	44.6	35.1	25.9	16.6	6.2	----
Florence	Pinal	1,500	1908-1919* 1923-1953	Mean Max.	66.1	71.0	77.0	85.6	94.5	103.6	105.8	103.3	100.1	89.2	78.8	67.2	86.7
				Mean Min.	36.2	39.1	41.1	49.0	54.5	63.4	74.3	72.5	66.1	53.2	42.3	37.0	52.4
				Mean	51.2	55.1	59.1	67.3	74.5	83.5	90.1	87.9	83.1	71.2	59.6	52.1	69.6
				Highest Mean Max.	75.3	79.0	87.5	92.6	101.0	108.0	110.3	107.4	105.7	99.5	85.0	78.7	----
				Highest Mean Min.	47.2	52.0	49.6	55.4	62.5	69.5	80.3	76.0	72.5	64.2	53.2	44.1	----
				Lowest Mean Max.	55.1	62.0	68.9	76.9	86.7	96.6	101.4	98.6	95.2	82.1	70.6	54.4	----
				Lowest Mean Min.	26.5	30.8	38.2	43.8	48.9	56.5	68.5	66.4	58.1	44.9	32.7	30.6	----
Flying H Ranch	Cochise	5,475	1948-1953	Mean	44.7	46.6	50.5	59.4	66.0	75.2	75.5	74.9	72.9	63.5	53.7	46.4	60.8
Forestdale	Navajo	6,100	1947-1953	Mean	32.2	33.7	37.8	46.7	52.7	61.1	68.9	66.3	60.8	50.7	38.7	32.0	48.4
Fort Grant	Graham	4,851	1877-1890 1900-1905 1916-1953	Mean Max.	56.1	59.6	64.8	72.9	81.1	90.1	90.8	89.4	84.5	76.1	65.0	58.0	74.0
				Mean Min.	33.3	36.4	40.8	46.4	54.5	63.1	67.1	65.3	61.0	50.8	40.5	34.7	49.5
				Mean	44.7	48.0	52.8	59.6	67.8	76.6	79.0	77.4	72.8	63.4	52.7	46.4	61.8
				Highest Mean Max.	67.0	70.3	74.8	84.5	87.9	97.2	97.5	94.1	91.6	84.8	80.5	68.3	----
				Highest Mean Min.	38.3	40.4	47.6	51.7	60.6	66.7	75.3	75.9	68.9	55.2	51.1	44.0	----
				Lowest Mean Max.	43.2	52.8	58.2	63.6	75.1	85.7	83.3	79.0	76.3	69.7	57.0	50.8	----
				Lowest Mean Min.	25.8	31.7	35.3	38.5	46.3	54.2	59.1	60.4	54.9	45.6	33.0	26.4	----

TABLE 14 -(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Fort Valley	Coconino	7,347	1909-1953	Mean Max.	40.0	42.1	47.2	55.7	65.0	75.7	78.8	76.4	71.7	61.5	50.8	42.3	58.9
				Mean Min.	9.5	13.0	18.1	24.7	29.3	36.3	46.0	45.4	37.9	27.2	18.4	12.1	26.5
				Mean	24.8	27.6	32.6	40.2	47.2	56.0	62.4	60.9	54.8	44.4	34.6	27.2	42.7
				Highest Mean Max.	48.0	50.5	59.7	63.7	72.0	79.9	85.0	81.4	77.9	73.3	60.4	54.3	----
				Highest Mean Min.	17.6	24.5	24.5	36.3	34.5	49.3	50.7	57.2	43.1	32.5	24.9	20.7	----
				Lowest Mean Max.	27.7	33.5	39.4	46.7	54.3	70.6	72.6	72.2	65.8	51.6	43.0	35.5	----
				Lowest Mean Min.	-2.3	0.8	8.0	20.8	24.2	29.9	40.9	38.8	26.8	22.5	11.9	-.6	----
Fredonia	Coconino	5,000	1937-1953	Mean Max.	46.2	49.3	58.1	68.6	77.0	85.7	92.4	89.9	84.4	72.1	58.4	47.6	69.1
				Mean Min.	19.5	21.3	26.8	33.2	39.2	46.2	55.2	54.4	45.8	35.3	24.9	20.9	35.2
				Mean	32.8	35.3	42.4	50.9	58.1	66.0	73.8	72.2	65.1	53.7	41.6	34.2	52.2
				Highest Mean Max.	54.5	59.4	65.1	73.0	82.7	93.3	95.0	93.9	88.3	80.2	67.0	57.5	----
				Highest Mean Min.	25.3	32.1	30.4	37.9	46.7	65.6	61.8	63.2	54.4	42.2	31.1	26.6	----
				Lowest Mean Max.	32.7	37.2	49.2	59.1	70.9	81.5	89.7	86.4	77.6	65.0	51.7	42.6	----
				Lowest Mean Min.	9.2	8.4	21.9	29.4	33.4	41.7	51.0	48.4	40.6	30.7	18.6	11.7	----
Ganado	Apache	6,350	1929-1953	Mean Max.	41.0	47.1	51.5	64.7	73.6	83.6	87.8	85.4	79.1	68.5	54.4	44.0	65.1
				Mean Min.	12.6	19.2	22.9	30.3	37.1	44.6	53.6	52.6	44.9	34.1	21.4	14.6	32.3
				Mean	26.8	33.2	37.2	47.5	55.4	64.1	70.7	69.0	62.0	51.3	37.9	29.3	48.7
				Highest Mean Max.	47.3	55.0	63.2	70.3	80.8	87.6	91.5	89.9	83.8	75.1	68.2	57.2	----
				Highest Mean Min.	21.3	27.2	28.2	36.2	44.8	50.4	57.9	57.2	51.7	39.3	25.1	20.6	----
				Lowest Mean Max.	29.7	36.5	45.6	54.5	65.5	78.5	83.3	82.1	73.6	62.4	44.7	31.7	----
				Lowest Mean Min.	-1.1	6.2	17.8	24.9	32.3	38.2	49.8	48.8	39.9	28.9	13.6	4.0	----
Oila Bend	Maricopa	737	1903-1953	Mean Max.	68.6	72.0	80.4	88.8	96.7	106.2	109.0	107.7	105.8	92.4	79.2	69.6	89.7
				Mean Min.	36.4	40.5	44.0	50.3	57.3	66.1	76.2	74.7	68.1	55.1	43.4	37.6	54.1
				Mean	52.5	56.2	62.2	69.6	77.0	86.6	92.6	91.2	87.0	73.8	61.3	53.6	71.9
				Highest Mean Max.	77.2	81.2	93.6	98.0	105.1	115.2	113.8	112.8	107.9	100.5	87.3	78.3	----
				Highest Mean Min.	42.9	48.8	65.0	56.7	65.5	74.5	81.6	80.3	74.1	62.3	50.7	45.1	----
				Lowest Mean Max.	57.2	64.4	70.5	81.4	87.9	99.4	103.0	102.9	95.0	85.2	72.6	60.4	----
				Lowest Mean Min.	28.8	32.8	37.7	39.4	51.3	53.1	64.7	67.2	58.1	42.4	32.0	29.0	----
Globe	Gila	3,540	1905-1953	Mean Max.	56.6	61.8	68.2	76.3	85.3	95.2	97.1	94.7	90.5	79.8	66.5	56.8	77.4
				Mean Min.	30.7	33.9	37.9	43.8	49.5	58.4	67.4	65.9	59.8	47.8	36.4	31.6	47.2
				Mean	43.6	47.8	53.1	60.1	67.4	76.8	82.2	80.3	75.2	63.8	51.4	44.2	62.3
				Highest Mean Max.	64.9	69.3	77.7	83.4	92.0	100.5	102.6	99.5	97.0	88.7	75.7	68.2	----
				Highest Mean Min.	38.1	40.1	44.0	49.7	57.4	70.7	73.3	69.3	65.0	52.8	45.1	37.5	----
				Lowest Mean Max.	45.1	51.5	60.2	66.7	77.5	89.9	90.6	90.7	85.8	73.5	59.5	50.3	----
				Lowest Mean Min.	23.6	24.8	32.1	37.8	43.3	51.8	63.1	60.4	54.5	42.0	29.3	25.3	----
Gould's Ranch	Maricopa	1,195	1915-1953	Mean Max.	66.2	70.9	74.6	85.0	94.1	102.6	105.0	102.9	99.4	89.0	73.8	67.8	85.9
				Mean Min.	35.5	39.6	40.2	49.3	56.4	65.0	74.7	73.4	66.6	53.9	42.3	37.2	52.8
				Mean	50.8	55.2	57.4	67.2	75.2	83.8	89.8	88.2	83.0	71.4	58.1	52.5	69.4
				Highest Mean Max.	72.8	77.8	87.5	92.3	99.5	106.5	109.2	107.6	105.1	97.0	82.7	75.7	----
				Highest Mean Min.	42.5	47.4	50.3	56.3	62.1	70.0	78.1	76.1	72.1	60.8	50.5	44.9	----
				Lowest Mean Max.	55.3	61.5	69.8	77.8	86.3	98.8	100.0	96.8	87.9	75.1	63.6	58.2	----
				Lowest Mean Min.	28.6	33.5	36.8	40.5	49.9	60.3	71.9	68.5	60.9	49.4	35.3	31.2	----
Grand Canyon Hdqs.	Coconino	6,890	1903-1953	Mean Max.	41.0	44.7	51.0	60.1	69.8	80.7	84.5	81.4	73.9	64.3	52.1	43.1	62.2
				Mean Min.	17.6	20.6	25.0	31.6	39.0	46.2	53.8	52.5	46.3	35.8	26.4	19.5	34.5
				Mean	29.3	32.6	38.0	45.8	54.4	63.4	69.2	67.0	60.1	50.1	39.2	31.3	48.4
				Highest Mean Max.	48.0	55.0	62.0	69.2	78.2	87.9	90.7	89.6	82.3	78.2	68.5	59.3	----
				Highest Mean Min.	30.8	35.0	34.0	38.3	47.6	53.4	58.5	57.1	51.9	42.1	37.5	28.7	----
				Lowest Mean Max.	26.6	34.0	41.7	50.3	60.2	71.6	74.5	72.0	69.5	51.6	38.8	32.9	----
				Lowest Mean Min.	7.2	9.5	13.7	19.0	31.8	36.6	44.7	42.8	35.8	26.9	20.0	5.2	----
Granite Reef Dam	Maricopa	1,325	1909-1953	Mean Max.	65.9	69.9	74.1	84.5	90.4	101.8	105.2	102.9	99.1	88.0	75.8	66.9	85.4
				Mean Min.	39.0	40.9	44.4	49.9	56.1	63.7	74.2	73.5	67.5	55.3	45.3	39.4	54.1
				Mean	52.4	55.4	59.2	67.2	73.2	82.8	89.7	88.2	83.3	71.6	60.6	53.1	69.8
				Highest Mean Max.	73.2	78.1	87.2	92.1	100.9	106.0	109.4	108.2	103.6	96.8	83.9	76.3	----
				Highest Mean Min.	45.0	47.9	50.4	55.7	62.8	70.7	78.9	82.6	72.1	60.0	55.6	45.3	----
				Lowest Mean Max.	55.0	60.5	65.1	76.8	84.5	92.9	98.8	97.1	93.3	82.0	71.2	58.9	----
				Lowest Mean Min.	25.0	30.5	34.1	39.0	42.3	53.5	68.0	66.5	60.5	48.4	36.5	26.6	----
Groom Creek	Yavapai	6,100	1943-1953	Mean Max.	48.5	55.0	57.7	65.7	72.8	82.4	85.1	82.3	80.6	69.9	59.3	51.7	67.6
				Mean Min.	19.4	21.9	24.2	27.7	36.6	44.5	43.5	50.9	46.1	36.4	26.0	20.4	32.9
				Mean	34.0	38.4	41.0	46.7	54.7	62.0	64.3	66.6	63.4	53.2	42.6	36.1	50.2
				Highest Mean Max.	55.5	66.4	70.2	77.4	85.8	91.2	87.1	89.9	83.1	78.3	65.9	59.2	----
				Highest Mean Min.	23.5	25.8	29.9	35.3	39.7	45.6	58.9	62.9	57.6	40.7	31.2	25.8	----
				Lowest Mean Max.	36.4	47.1	46.0	61.4	65.5	79.4	79.8	77.7	77.8	62.8	51.0	47.7	----
				Lowest Mean Min.	13.4	16.9	20.8	26.9	31.9	37.5	46.6	43.0	37.4	31.6	22.1	15.8	----
Heber RS	Navajo	6,600	1916-1936* 1948-1953	Mean Max.	45.4	49.5	53.2	62.0	70.3	82.1	83.6	81.8	78.8	70.3	55.6	46.6	64.9
				Mean Min.	13.3	16.5	20.2	27.9	33.8	41.9	51.8	49.1	41.9	32.6	20.0	13.7	30.2
				Mean	29.4	33.0	36.7	45.0	52.1	62.0	67.7	65.4	60.4	51.4	37.8	30.2	47.6
				Highest Mean Max.	55.0	59.6	57.7	69.2	76.8	86.4	87.6	87.5	81.8	76.5	63.2	57.6	----
				Highest Mean Min.	20.6	24.4	24.3	31.7	37.6	49.4	55.3	54.0	45.4	35.4	25.6	20.3	----
				Lowest Mean Max.	33.0	41.5	49.6	55.7	63.1	74.1	80.6	77.9	74.5	62.5	44.7	42.7	----
				Lowest Mean Min.	3.5	9.0	17.4	21.1	30.6	37.3	48.4	43.8	38.0	23.7	11.2	6.9	----
Holbrook	Navajo	5,069	1903-1953	Mean Max.	48.0	55.6	63.1	71.6	80.6	90.9	94.0	91.6	85.6	74.3	60.9	48.8	72.1
				Mean Min.	18.2	21.0	29.1	36.1	42.5	51.1	59.7	58.6	50.9	37.6	25.7	20.0	37.8
				Mean	33.1	39.8	46.1	53.8	61.6	71.0	76.8	75.1	68.2	56.0	43.3	34.4	55.0
				Highest Mean Max.	57.1	64.5	72.9	80.6	88.0	94.8	99.4	96.5	91.7	83.3	72.0	65.2	----
				Highest Mean Min.	27.7	31.2	36.1	51.9	50.0	56.9	67.1	64.1	58.2	43.9	34.1	27.2	----
				Lowest Mean Max.	28.9	44.6	53.9	62.3	73.6	86.6	86.4	86.8	76.0	64.2	49.3	35.9	----
				Lowest Mean Min.	0.1	13.8	18.3	27.6	36.7	45.1	48.3	47.5	45.7	28.9	17.1	10.7	----
Inner Canyon	Coconino	2,490	1935-1953	Mean Max.	55.5	61.2	70.3	81.4	91.1	100.7	105.5	102.3	96.8	83.2	67.4	56.9	81.0
				Mean Min.	36.5	40.4	46.4	49.0	63.5	71.8	77.3	75.4	69.2	57.5	44.3	38.2	55.8
				Mean	46.0	50.8	58.4	65.2	77.3	86.2	91.4	88.8	83.0	70.4	55.8	47.6	68.4
				Highest Mean Max.	61.8	67.2	76.8	86.2	95.2	104.2	109.0	106.3	100.4	90.5	75.9	65.5	----
				Highest Mean Min.	39.4	44.9	50.6	58.3	67.5	75.3	80.4	81.5	74.7	64.1	48.3	43.2	----
				Lowest Mean Max.	41.9	52.1	63.9	72.9	84.3	96.7	103.0	98.7	90.4	77.2	62.1	51.7	----
				Lowest Mean Min.	28.7	34.9	40.9	48.9	57.1	69.1	74.5	71.4	65.3	54.0	39.5	34.3	----
Jeddito	Navajo	6,700	1931-1953	Mean Max.	45.1	49.7	56.7	66.5	76.0	86.4	91.8	89.1	83.2	71.3	57.7	47.8	68.4
				Mean Min.	16.3	21.2	24.3	31.0	37.6	46.9	55.4	54.5	48.1	37.8	25.6	19.2	34.8
				Mean	30.7	35.4	40.5	48.8	56.8	66.6	73.6	71.8	65.6	54.6	41.6	33.5	51.6
				Highest Mean Max.	54.6	55.5	65.7	71.8	81.6	91.3	95.8	93.2	87.1	81.5	67.1	58.9	----
				Highest Mean Min.	22.3	27.0	36.0	39.4	44.3	51.3	58.2	57.1	51.8	42.0	29.7	24.8	----
				Lowest Mean Max.	34.6	42.2	47.5	58.9	68.8	82.9	86.8	85.6	79.7	65.8	49.7	36.5	----
				Lowest Mean Min.	0.5	9.5	19.1	27.4	33.0	41.6	50.6	50.1	43.2	32.0	17.8	9.3	----
Jerome	Yavapai	5,245	1897-1953	Mean Max.	51.1	54.8	61.0	69.5	77.3	87.6	90.6	87.8	83.7	73.0	61.7	52.6	70.9
				Mean Min.	32.5	34.8	38.2	45.6	53.5	63.1	66.1	65.3	61.2	51.1	41.2	34.2	48.9
				Mean	41.8	44.8	49.6	57.6	65.4	75.4	78.4	76.6	72.4	62.4	51.4	43.4	59.9
				Highest Mean Max.	57.9	65.7	72.9	82.0	85.1	92.7	96.5	92.8	90.1	81.4	70.9	62.2	----
				Highest Mean Min.	40.5	41.6	48.7	53.9	60.5	69.5	72.3	69.2	66.7	57.8	50.1	43.7	----
				Lowest Mean Max.	37.3	42.0	50.1	57.7	67.5	81.9	85.5	82.9	77.3	63.1	53.0	43.8	----
				Lowest Mean Min.	21.0	25.6	31.9	37.6	45.2	56.0	57.1	61.4	56.0	46.2	34.3	27.3	----

TABLE 14 —(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Junipine	Coconino	5,124	1935-1953	Mean Max.	48.9	50.6	57.4	68.4	76.5	86.4	90.0	87.1	82.7	71.4	61.0	52.8	69.4
				Mean Min.	26.9	26.7	30.4	37.8	43.9	50.5	58.2	57.4	52.0	41.8	34.4	29.2	40.8
				Mean	37.9	38.8	43.9	53.1	60.2	68.4	74.1	72.2	67.4	56.6	47.7	41.0	55.1
				Highest Mean Max.	53.2	60.9	63.8	74.7	80.2	90.1	94.8	90.0	88.4	74.6	71.1	62.8	----
				Highest Mean Min.	47.5	32.7	34.3	41.3	47.9	54.7	61.2	60.0	56.4	47.1	43.8	33.3	----
				Lowest Mean Max.	37.4	42.8	50.2	58.9	71.6	81.2	86.0	84.1	76.8	64.3	53.0	48.6	----
				Lowest Mean Min.	13.9	18.9	26.4	31.8	40.0	46.3	55.1	54.9	48.3	37.9	29.0	24.6	----
Kayenta	Navajo	5,675	1915-1953	Mean Max.	42.7	48.9	57.4	68.1	77.8	88.4	92.3	89.5	83.0	70.0	54.6	43.8	68.0
				Mean Min.	15.6	22.4	29.3	36.2	44.6	52.4	59.7	57.9	50.0	38.7	26.1	18.8	37.6
				Mean	29.2	35.6	43.4	52.2	61.2	70.4	76.0	73.7	66.5	54.4	40.4	31.3	52.8
				Highest Mean Max.	49.6	56.4	67.9	74.6	84.3	93.4	96.4	95.4	87.7	79.4	65.0	60.7	----
				Highest Mean Min.	26.2	31.5	36.2	42.1	49.4	57.6	65.3	68.1	61.9	47.3	37.4	26.0	----
				Lowest Mean Max.	29.4	37.4	49.1	61.2	71.8	83.3	86.7	84.4	78.1	64.7	41.5	32.4	----
				Lowest Mean Min.	3.1	9.0	22.4	30.0	38.6	45.4	49.2	48.4	41.1	32.0	17.6	9.2	----
Keams Canyon	Navajo	6,205	1894-1895 1905-1921 1928-1930*	Mean Max.	43.2	47.5	56.3	64.8	71.7	83.6	86.9	84.3	78.7	66.7	56.5	43.2	65.3
				Mean Min.	17.9	21.0	27.1	32.3	38.7	46.9	55.1	53.9	45.6	35.8	25.6	17.4	34.8
				Mean	30.6	34.2	41.7	48.6	55.2	65.2	71.0	69.1	62.2	51.2	41.1	30.3	50.1
				Highest Mean Max.	48.3	55.5	64.7	71.9	79.6	92.4	92.6	86.4	83.5	71.5	63.2	47.8	----
				Highest Mean Min.	25.4	27.6	31.7	37.8	41.9	54.0	58.2	58.3	50.8	40.7	31.9	25.7	----
				Lowest Mean Max.	38.6	41.1	49.2	58.3	65.6	77.1	82.0	80.1	75.4	62.1	50.7	34.9	----
				Lowest Mean Min.	2.3	15.5	22.2	27.1	35.6	41.3	50.4	47.0	38.0	32.5	22.0	5.2	----
Kingman	Mohave	3,333	1901-1953*	Mean Max.	55.8	60.2	66.1	74.8	82.7	93.1	97.9	95.4	90.4	78.7	66.6	56.5	76.5
				Mean Min.	30.8	33.6	36.9	42.8	49.3	56.2	66.6	63.7	58.0	46.9	37.6	31.2	46.1
				Mean	43.3	46.9	51.5	58.8	66.0	74.6	82.2	79.6	74.2	62.8	52.1	43.8	61.3
				Highest Mean Max.	64.8	67.8	79.5	83.6	91.3	101.2	105.1	107.9	96.1	87.7	78.2	68.2	----
				Highest Mean Min.	38.5	40.8	43.5	52.7	66.5	66.6	72.8	71.2	67.9	55.6	43.9	39.7	----
				Lowest Mean Max.	40.1	57.3	57.2	64.1	69.9	80.3	91.0	86.4	80.5	69.4	59.3	45.4	----
				Lowest Mean Min.	17.1	24.1	31.4	36.6	42.2	49.6	57.4	58.8	50.9	40.6	32.1	25.4	----
Lakeside RS	Navajo	6,700	1911-1933	Mean Max.	41.1	46.2	51.7	60.6	71.0	80.9	81.6	78.5	75.6	65.6	53.2	43.1	62.4
				Mean Min.	13.1	18.4	23.6	30.4	36.4	45.0	52.6	51.4	43.9	33.2	22.3	14.9	32.1
				Mean	26.9	32.3	37.6	45.0	53.7	62.9	67.1	65.1	59.7	49.4	37.8	28.8	47.2
				Highest Mean Max.	46.8	52.5	59.7	67.1	74.6	86.3	91.8	84.7	84.7	79.5	61.9	56.6	----
				Highest Mean Min.	22.7	24.3	29.5	35.0	38.6	49.4	55.9	61.5	55.2	44.7	29.5	27.2	----
				Lowest Mean Max.	34.8	38.6	43.7	54.3	64.5	72.8	73.7	72.9	70.3	58.6	47.8	35.7	----
				Lowest Mean Min.	-1.3	1.3	17.1	27.5	33.0	41.6	49.2	48.2	37.8	26.3	11.2	0.3	----
Laveen	Maricopa	1,100	1948-1953	Mean	50.7	55.2	65.3	72.0	79.0	87.8	93.4	91.4	87.5	76.1	63.6	54.8	73.1
Lee's Ferry	Coconino	3,141	1921-1938 1943-1953	Mean Max.	47.1	56.7	66.2	76.4	85.2	97.2	102.6	99.3	93.1	78.7	61.0	49.2	76.1
				Mean Min.	24.5	31.3	38.5	47.5	55.9	63.9	72.2	69.4	60.9	48.3	34.5	27.1	47.8
				Mean	35.8	44.0	52.4	62.0	71.1	80.6	87.4	84.4	77.0	63.5	47.8	38.2	62.0
				Highest Mean Max.	54.0	63.4	76.7	83.1	92.4	101.3	106.6	103.1	100.1	87.4	67.1	57.2	----
				Highest Mean Min.	30.6	35.8	43.2	53.5	60.6	67.9	74.9	73.3	64.7	53.5	39.2	33.7	----
				Lowest Mean Max.	35.2	47.7	60.5	66.3	80.4	92.3	98.0	93.5	85.4	72.1	53.5	40.8	----
				Lowest Mean Min.	15.4	21.2	34.7	42.5	50.1	60.0	68.7	62.6	56.2	43.6	29.9	19.4	----
Leupp	Coconino	4,700	1914-1926 1931-1953	Mean Max.	45.4	54.3	62.0	71.6	80.5	91.5	94.7	92.1	85.0	74.6	59.2	48.3	71.6
				Mean Min.	16.8	22.3	27.3	35.5	40.4	49.6	58.8	57.1	49.1	36.4	23.1	18.8	36.3
				Mean	31.1	38.3	44.6	53.6	60.4	70.6	76.8	74.6	67.1	55.5	41.2	33.6	54.0
				Highest Mean Max.	56.8	66.9	70.2	77.1	86.0	96.9	99.6	96.7	92.8	84.0	67.7	56.7	----
				Highest Mean Min.	26.0	32.1	32.5	38.4	46.4	58.2	63.0	65.9	57.8	46.7	28.4	27.5	----
				Lowest Mean Max.	23.8	44.4	54.7	64.5	71.1	85.0	90.4	87.7	81.1	67.6	48.9	37.9	----
				Lowest Mean Min.	0.4	13.0	19.3	31.1	28.5	44.3	51.7	47.2	40.7	28.9	14.5	9.5	----
Litchfield Park	Maricopa	1,030	1917-1953	Mean Max.	66.1	71.0	76.5	85.6	94.3	103.0	105.9	103.3	99.6	88.4	76.2	67.6	86.4
				Mean Min.	34.4	38.7	42.9	49.1	56.5	65.1	75.3	73.3	66.3	52.5	40.6	36.3	52.6
				Mean	50.2	54.8	59.7	67.4	75.4	84.1	90.6	88.3	83.0	70.4	58.4	52.0	69.5
				Highest Mean Max.	71.6	78.1	87.3	91.8	101.0	107.5	109.0	107.1	104.0	96.3	83.7	74.9	----
				Highest Mean Min.	41.8	45.9	52.8	54.5	61.9	71.2	80.7	78.6	70.8	58.6	47.5	43.3	----
				Lowest Mean Max.	55.9	64.7	68.1	77.6	86.4	99.4	102.1	98.0	94.9	74.1	69.0	61.1	----
				Lowest Mean Min.	28.2	33.0	37.8	43.8	49.8	59.0	69.9	65.1	59.5	47.2	34.9	29.2	----
Lukachukai	Apache	6,400	1917-1919* 1951-1953	Mean Max.	42.1	45.6	52.6	61.4	68.9	83.0	85.1	84.1	78.8	68.8	54.3	43.0	64.0
				Mean Min.	18.1	21.3	28.2	33.6	39.4	52.1	57.2	54.8	49.5	37.7	26.8	18.5	36.4
				Mean	30.1	33.4	40.4	47.5	54.2	67.2	71.2	69.4	64.2	53.2	40.6	30.8	50.2
				Highest Mean Max.	48.5	49.4	57.7	63.4	73.0	86.6	88.2	81.7	82.5	72.9	61.7	52.5	----
				Highest Mean Min.	23.3	24.2	31.0	36.4	41.0	55.1	61.7	56.1	52.5	41.3	37.1	22.3	----
				Lowest Mean Max.	38.7	42.0	45.4	60.0	63.6	79.4	82.7	86.5	75.8	66.5	45.6	37.0	----
				Lowest Mean Min.	11.8	20.2	23.4	31.2	37.8	48.9	53.2	53.2	48.5	33.4	20.9	16.5	----
Marinette	Maricopa	1,150	1913-1951*	Mean Max.	66.8	71.4	78.3	86.2	94.2	103.9	106.5	104.1	100.0	89.3	77.4	68.1	87.2
				Mean Min.	33.0	38.0	42.2	47.9	54.2	63.7	73.8	71.6	64.6	51.2	39.6	35.2	51.2
				Mean	49.9	54.7	60.2	67.1	74.2	83.8	90.2	87.8	82.3	70.2	58.5	51.6	69.2
				Highest Mean Max.	73.5	80.0	89.9	96.9	102.8	109.5	111.7	110.4	106.1	97.7	86.9	75.5	----
				Highest Mean Min.	39.2	43.8	47.4	56.3	60.5	68.8	81.9	75.3	71.9	59.6	48.0	50.5	----
				Lowest Mean Max.	54.3	62.6	65.9	76.6	84.5	100.5	97.4	99.8	89.2	81.3	67.1	59.6	----
				Lowest Mean Min.	27.0	29.5	35.5	41.6	45.3	58.4	68.4	62.6	58.2	43.0	33.6	28.6	----
Maverick	Apache	7,800	1948-1953	Mean	26.1	27.3	31.2	39.3	45.2	53.8	59.4	57.8	53.0	44.6	34.9	27.3	41.6
McNary	Apache	7,280	1933-1953	Mean Max.	43.8	45.2	50.2	60.4	69.4	78.5	80.9	78.3	74.7	63.4	53.5	46.5	62.1
				Mean Min.	16.3	18.8	22.6	28.0	32.8	39.0	47.9	48.3	42.1	32.7	22.8	18.7	30.8
				Mean	30.1	32.0	36.4	44.2	51.1	58.8	64.4	63.3	58.4	48.1	38.2	32.6	46.4
				Highest Mean Max.	50.6	51.4	61.8	65.5	76.2	82.0	84.8	86.5	83.3	72.5	61.7	55.1	----
				Highest Mean Min.	24.3	26.6	29.2	34.7	38.0	45.0	52.7	53.2	49.5	36.4	34.6	25.2	----
				Lowest Mean Max.	34.3	37.0	42.6	49.0	60.3	72.6	76.7	75.0	70.9	60.1	45.3	41.8	----
				Lowest Mean Min.	7.4	8.4	15.8	24.5	27.3	35.1	43.8	41.4	35.0	28.1	16.6	10.8	----
Miami	Gila	3,603	1914-1953	Mean Max.	55.2	60.0	66.4	74.7	84.2	94.5	96.4	94.0	89.7	79.4	65.3	58.0	76.5
				Mean Min.	33.3	36.7	41.2	48.2	55.9	65.0	70.3	68.5	63.5	52.6	40.9	35.1	50.9
				Mean	44.2	48.4	53.8	61.4	70.1	79.8	83.4	81.2	76.6	66.0	53.1	46.6	63.7
				Highest Mean Max.	62.2	67.0	76.0	81.7	90.5	100.2	100.7	98.5	93.8	88.0	72.4	66.3	----
				Highest Mean Min.	38.3	41.4	47.3	55.6	61.9	69.6	74.1	72.5	69.9	58.7	48.5	39.8	----
				Lowest Mean Max.	44.0	50.5	57.2	66.1	75.4	89.7	89.3	88.0	80.4	72.8	59.1	50.5	----
				Lowest Mean Min.	25.0	27.9	36.3	43.4	49.5	60.6	66.7	65.2	58.7	48.6	32.1	31.3	----

TABLE 14--(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Montezuma Castle	Yavapai	3,180	1938-1953	Mean Max.	58.6	62.8	69.5	78.6	87.6	90.5	100.7	98.2	94.1	82.4	69.1	60.2	79.4
				Mean Min.	24.9	28.4	32.8	39.9	45.4	52.2	62.7	61.4	53.9	42.1	30.3	26.4	41.7
				Mean	41.8	45.6	51.2	59.2	66.5	71.4	81.7	79.8	74.0	62.2	49.7	43.3	60.6
				Highest Mean Max.	65.4	70.2	74.6	83.6	91.2	100.0	103.7	101.9	99.0	91.2	75.0	68.7	----
				Highest Mean Min.	31.0	35.8	37.5	44.1	50.3	59.7	65.5	65.6	58.3	47.0	35.0	30.9	----
				Lowest Mean Max.	45.1	54.0	62.1	68.1	82.8	91.8	96.0	94.9	89.6	74.9	64.2	55.0	----
				Lowest Mean Min.	22.1	20.9	29.7	37.1	41.1	45.4	58.1	56.6	49.6	37.1	24.8	19.8	----
Mormon Flat	Maricopa	1,715	1923-1953	Mean Max.	60.7	67.0	71.5	83.3	92.5	101.6	105.1	101.9	98.6	86.9	73.6	64.0	83.9
				Mean Min.	42.1	44.1	47.8	54.0	63.6	71.6	79.4	77.4	73.3	62.4	51.0	44.6	59.3
				Mean	51.4	55.6	59.6	67.6	78.1	86.6	92.2	89.6	86.0	74.6	62.3	54.3	71.6
				Highest Mean Max.	69.2	76.0	86.0	91.0	100.3	107.2	109.1	106.9	101.3	95.3	79.7	70.4	----
				Highest Mean Min.	48.4	50.2	58.0	62.5	71.4	77.4	83.2	81.4	79.4	68.9	60.1	50.2	----
				Lowest Mean Max.	50.0	56.7	64.5	74.3	83.6	97.9	99.8	97.4	89.8	80.6	65.8	57.4	----
				Lowest Mean Min.	32.4	37.0	40.5	48.3	58.2	66.4	74.7	72.9	66.4	52.2	43.4	38.7	----
Mormon Lake	Coconino	7,000	1917-1953	Mean Max.	----	----	----	----	66.1	75.8	79.7	76.6	72.1	61.7	----	----	----
				Mean Min.	----	----	----	----	35.0	43.2	50.5	49.0	42.9	33.9	----	----	----
				Mean	----	----	----	----	50.6	59.5	65.1	62.8	57.5	47.8	----	----	----
				Highest Mean Max.	----	----	----	----	71.8	80.3	84.0	80.4	77.3	72.1	----	----	----
				Highest Mean Min.	----	----	----	----	47.1	50.0	52.7	53.6	49.4	40.7	----	----	----
				Lowest Mean Max.	----	----	----	----	60.3	70.8	76.1	69.6	64.4	52.6	----	----	----
				Lowest Mean Min.	----	----	----	----	32.1	35.5	43.1	38.4	38.7	26.3	----	----	----
Mount Lemmon	Pima	7,690	1950-1953	Mean Max.	47.3	45.5	47.9	55.3	65.2	75.4	74.2	74.5	73.9	67.0	54.1	47.1	60.6
				Mean Min.	27.6	25.0	26.2	32.8	40.4	49.2	53.9	52.7	50.7	44.2	33.2	26.3	38.5
				Mean	37.4	35.2	37.1	44.1	52.8	62.3	64.1	63.6	62.3	55.6	43.6	36.7	49.6
Natural Bridge	Gila	4,607	1914-1953	Mean Max.	52.2	55.8	61.4	66.9	76.3	85.9	88.7	86.2	82.1	72.2	61.5	53.9	70.2
				Mean Min.	29.4	31.8	34.1	41.5	49.2	57.7	64.0	62.4	56.2	47.7	36.9	31.4	45.2
				Mean	40.8	43.8	47.8	54.2	62.8	71.8	76.4	74.3	69.2	60.0	49.2	42.6	51.7
				Highest Mean Max.	60.9	63.2	72.4	74.9	82.3	93.0	95.1	91.0	89.5	83.0	70.1	64.4	----
				Highest Mean Min.	34.3	36.9	43.6	47.3	55.5	62.4	67.8	66.6	61.6	56.7	45.4	36.6	----
				Lowest Mean Max.	42.1	46.0	54.0	60.3	69.0	80.5	84.8	81.9	76.7	62.1	51.0	48.0	----
				Lowest Mean Min.	19.5	24.2	19.9	36.9	42.5	51.8	50.5	40.6	52.6	40.9	31.1	25.7	----
Nogales	Santa Cruz	3,800	1899-1904 1909-1910 1911-1953	Mean Max.	61.4	66.3	70.8	78.0	86.0	94.8	94.4	91.7	90.0	82.4	72.6	64.9	79.4
				Mean Min.	29.5	32.0	35.9	41.9	48.1	57.9	65.2	62.8	57.5	46.1	35.5	30.5	45.2
				Mean	45.4	49.2	53.4	60.0	67.1	76.4	79.8	77.2	73.8	64.2	54.1	47.7	62.3
				Highest Mean Max.	71.9	73.9	79.3	86.5	92.0	99.3	98.8	96.7	94.3	89.7	79.5	72.8	----
				Highest Mean Min.	36.7	39.0	44.0	51.4	58.0	63.6	68.6	66.4	61.8	52.9	43.4	39.1	----
				Lowest Mean Max.	49.9	58.7	61.8	71.8	78.1	88.3	87.2	86.5	85.8	76.5	65.8	56.5	----
				Lowest Mean Min.	21.6	23.1	28.5	35.5	37.7	47.8	60.3	57.1	49.4	37.0	24.9	18.9	----
Oracle	Pinal	4,600	1893-1953	Mean Max.	56.9	59.5	64.9	73.3	82.1	91.7	92.1	89.2	86.0	76.8	66.1	57.8	74.7
				Mean Min.	34.3	36.5	39.7	45.5	53.0	62.0	67.2	65.7	61.4	48.3	41.6	36.8	49.3
				Mean	45.6	48.0	52.3	59.4	67.6	76.8	79.6	77.4	73.7	62.6	53.8	47.3	62.0
				Highest Mean Max.	66.2	68.3	76.6	82.1	91.6	97.8	96.8	96.5	93.0	86.7	74.2	67.5	----
				Highest Mean Min.	42.3	45.2	48.4	52.0	64.1	69.8	73.1	69.7	66.5	57.8	50.2	43.1	----
				Lowest Mean Max.	46.9	50.2	56.3	66.3	74.0	86.6	84.9	81.9	80.5	63.8	57.1	47.8	----
				Lowest Mean Min.	21.6	24.1	31.9	37.4	43.2	54.0	59.8	61.5	55.1	43.7	33.7	29.3	----
Organ Pipe Cactus	Pima	1,663	1944-1953	Mean Max.	66.2	70.4	74.2	83.7	90.5	98.1	102.3	101.9	99.1	87.9	75.4	67.8	84.8
				Mean Min.	36.0	38.4	42.3	49.3	54.8	61.7	72.8	71.9	67.1	55.5	43.0	37.7	52.5
				Mean	51.1	54.4	58.2	66.5	72.6	79.9	87.6	86.9	83.1	71.7	59.2	52.8	68.6
				Highest Mean Max.	73.2	76.8	81.9	88.5	95.9	102.1	105.5	104.2	102.8	97.5	86.0	76.6	----
				Highest Mean Min.	41.0	42.3	44.7	55.1	60.2	64.5	74.2	73.9	71.2	58.9	48.5	42.4	----
				Lowest Mean Max.	55.0	64.1	66.9	80.9	85.6	94.9	98.7	98.8	95.7	79.4	69.3	63.9	----
				Lowest Mean Min.	31.5	35.0	39.3	44.6	51.1	58.0	70.7	68.3	61.4	49.8	38.3	36.1	----
Parker	Yuma	425	1893-1953	Mean Max.	66.9	73.0	79.3	87.4	95.2	103.6	108.1	106.4	101.6	90.0	77.7	67.7	88.1
				Mean Min.	32.5	37.8	43.5	50.0	56.2	65.8	75.9	74.8	65.1	48.0	39.0	33.5	51.8
				Mean	49.7	55.4	61.4	68.7	75.7	84.7	92.0	90.6	83.4	69.0	58.4	50.6	70.0
				Highest Mean Max.	74.3	80.9	88.6	96.1	102.8	111.9	112.6	112.9	110.0	98.3	85.4	76.0	----
				Highest Mean Min.	40.7	46.4	55.9	56.9	64.8	78.5	86.4	82.5	73.8	62.8	51.9	44.7	----
				Lowest Mean Max.	50.1	64.3	66.1	78.8	86.7	97.8	102.5	100.1	88.3	79.0	69.2	53.4	----
				Lowest Mean Min.	24.7	25.8	33.3	40.2	50.0	51.2	65.5	64.8	54.2	40.4	30.5	22.7	----
Payson	Gila	4,906	1909-1953	Mean Max.	52.2	55.8	60.2	68.0	77.1	87.0	89.4	87.1	83.1	73.1	61.3	53.8	70.6
				Mean Min.	19.0	22.6	26.3	31.7	36.5	44.3	53.7	55.2	47.0	34.9	25.0	20.4	34.9
				Mean	35.6	38.6	43.4	49.8	56.8	65.7	72.6	71.2	65.1	54.0	43.2	37.1	52.8
				Highest Mean Max.	62.2	63.2	71.6	74.9	83.8	92.8	94.5	91.8	90.2	82.3	72.2	63.7	----
				Highest Mean Min.	25.9	31.3	34.1	36.3	41.8	54.0	60.9	61.5	54.8	40.4	34.2	26.7	----
				Lowest Mean Max.	38.9	43.8	49.7	60.3	63.5	82.5	82.0	81.7	76.7	61.4	53.8	43.7	----
				Lowest Mean Min.	3.8	13.0	21.1	25.4	31.0	36.9	51.2	48.6	44.1	27.7	14.8	8.6	----
Pearce	Cochise	4,388	1944-1953	Mean Max.	56.6	62.1	66.9	75.4	83.0	92.6	92.9	90.5	88.1	78.3	66.4	59.5	76.0
				Mean Min.	28.0	30.6	35.8	43.6	48.8	56.9	63.9	61.9	57.1	46.9	34.3	29.6	44.3
				Mean	42.3	46.4	51.4	59.5	62.9	74.8	78.4	76.2	72.6	62.6	50.4	44.6	60.2
				Highest Mean Max.	65.8	64.0	71.5	79.4	87.6	97.0	96.4	93.7	93.9	87.5	74.3	69.9	----
				Highest Mean Min.	30.2	33.3	47.1	51.8	53.7	60.6	66.0	64.2	62.1	50.3	37.6	34.2	----
				Lowest Mean Max.	43.5	57.9	63.4	70.5	81.5	87.4	87.6	84.8	77.0	69.8	57.8	54.8	----
				Lowest Mean Min.	25.7	27.7	31.9	38.8	45.0	53.4	62.1	58.0	52.7	42.7	29.1	24.6	----
Petrified Forest	Navajo	5,460	1931-1953	Mean Max.	46.1	52.8	60.4	69.8	78.3	88.2	91.7	89.4	84.2	73.1	58.3	48.3	70.1
				Mean Min.	19.2	24.7	29.3	36.7	44.0	52.5	60.8	60.1	53.0	41.0	27.2	21.4	39.2
				Mean	32.6	38.8	44.8	53.2	61.2	70.4	76.2	74.8	68.6	57.1	42.8	34.8	54.6
				Highest Mean Max.	55.5	59.0	71.5	76.5	83.1	92.4	94.5	93.5	88.8	82.3	65.5	57.4	----
				Highest Mean Min.	25.9	31.6	38.5	40.9	48.2	58.5	63.1	62.2	56.9	46.3	32.0	26.2	----
				Lowest Mean Max.	29.3	45.4	52.4	60.8	71.6	83.3	87.7	85.4	80.3	67.3	48.3	33.2	----
				Lowest Mean Min.	6.7	16.9	24.3	32.6	39.6	47.2	58.1	56.5	49.0	36.9	18.7	10.7	----
Phoenix Airport	Maricopa	1,114	1933-1953	Mean Max.	65.7	69.2	75.2	84.6	93.6	101.8	105.8	103.2	99.3	88.6	75.5	67.5	85.8
				Mean Min.	36.6	39.5	44.2	51.6	58.4	65.9	76.3	75.2	68.4	55.4	42.2	37.8	54.3
				Mean	51.2	54.4	59.7	68.1	76.0	83.8	91.1	89.2	83.8	72.0	58.8	52.6	70.1
				Highest Mean Max.	69.7	75.8	86.5	90.5	99.5	105.9	108.6	107.3	102.6	96.8	82.2	75.5	----
				Highest Mean Min.	41.1	45.6	49.4	55.0	63.1	72.4	79.6	78.1	72.6	59.7	47.6	43.2	----
				Lowest Mean Max.	53.9	60.1	67.9	80.0	85.6	98.4	102.0	99.4	94.2	81.4	70.3	63.9	----
				Lowest Mean Min.	32.4	33.9	39.2	47.3	53.7	60.9	71.8	71.2	62.5	51.3	34.9	33.5	----
Pinedale	Navajo	6,500	1916-1953	Mean Max.	43.3	48.5	54.0	62.4	71.7	82.3	85.6	82.9	78.1	68.0	52.0	45.7	64.5
				Mean Min.	14.8	20.8	24.6	32.0	35.9	42.1	53.4	51.8	45.3	34.2	23.6	18.0	33.0
				Mean	29.1	34.6	39.3	47.2	53.8	62.2	69.5	67.3	61.7	51.1	37.8	31.8	48.8
				Highest Mean Max.	51.7	58.6	64.7	68.5	79.1	87.1	91.5	88.1	84.0	77.3	66.3	57.6	----
				Highest Mean Min.	38.6	43.3	45.0	53.1	58.4	69.1	74.8	74.4	69.2	56.4	45.0	43.8	----
				Lowest Mean Max.	33.2	39.8	47.2	54.5	62.2	77.1	78.9	77.3	71.4	60.3	47.4	35.8	----
				Lowest Mean Min.	28.3	32.4	38.1	39.2	49.8	57.9	68.0	66.8	60.4	48.2	35.8	29.9	----

TABLE 14--(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
				Mean Max.	65.5	69.6	74.8	84.0	92.7	100.5	103.8	101.6	98.8	88.5	76.2	68.4	85.4
				Mean Min.	34.4	36.5	41.0	47.0	54.2	62.4	72.6	71.5	65.6	52.4	40.5	36.3	51.2
Pisinemo	Pima	1,900	1936-	Mean	50.0	53.1	57.9	65.5	73.4	81.4	88.2	86.6	82.2	70.4	58.4	52.4	68.3
			1953	Highest Mean Max.	71.4	76.2	79.5	89.7	96.8	104.7	107.2	104.7	102.0	96.6	84.5	77.0	----
				Highest Mean Min.	38.6	43.3	45.0	53.1	58.4	69.1	74.8	74.4	69.2	56.4	45.0	43.8	----
				Lowest Mean Max.	53.5	60.4	66.8	75.9	85.3	97.6	98.6	97.5	93.3	80.9	68.5	63.4	----
				Lowest Mean Min.	28.3	32.4	38.1	39.2	51.5	57.9	68.0	66.8	60.4	48.2	35.8	29.9	----
				Mean Max.	54.5	60.6	65.7	75.5	83.3	92.3	91.2	89.0	86.8	77.4	65.0	56.7	74.8
				Mean Min.	29.1	32.0	35.9	43.6	50.3	59.4	63.7	62.3	57.9	48.2	35.9	30.3	45.7
Portal	Cochise	5,000	1945-	Mean	41.6	46.3	50.8	59.6	66.8	75.8	77.4	75.6	72.4	62.8	50.4	43.5	60.2
			1953	Highest Mean Max.	61.9	65.8	70.4	79.3	86.3	94.7	93.5	90.9	90.4	82.5	71.9	63.1	----
				Highest Mean Min.	32.5	35.7	38.7	47.7	53.0	62.6	65.9	63.3	59.7	52.9	39.8	34.5	----
				Lowest Mean Max.	43.8	57.6	60.8	71.2	78.9	89.0	87.7	86.3	83.9	73.4	60.4	53.9	----
				Lowest Mean Min.	25.8	29.9	31.7	40.4	46.1	55.6	61.9	59.7	55.4	44.2	32.2	25.2	----
				Mean Max.	50.6	53.6	59.7	67.5	75.5	85.4	89.0	83.9	82.3	72.0	61.2	50.6	69.4
				Mean Min.	19.9	22.9	27.2	33.0	38.9	46.9	56.1	54.7	46.7	35.3	25.8	20.7	35.7
Prescott	Yavapai	5,354	1898-	Mean	35.2	38.2	43.4	50.2	57.2	66.6	72.6	69.3	64.5	53.6	43.5	35.6	52.6
			1953	Highest Mean Max.	58.6	63.6	72.3	74.9	84.7	91.7	94.3	91.6	89.7	78.9	73.1	62.6	----
				Highest Mean Min.	32.6	34.5	38.0	41.8	44.2	54.2	62.2	75.2	51.5	42.8	40.6	30.5	----
				Lowest Mean Max.	36.1	42.4	48.8	58.0	65.1	80.4	81.1	80.0	77.1	63.6	52.1	41.8	----
				Lowest Mean Min.	3.8	11.6	19.7	27.5	35.0	38.5	49.0	48.6	39.2	27.2	19.6	12.0	----
				Mean Max.	59.6	63.6	70.6	79.1	87.8	98.4	100.3	98.1	93.4	82.9	69.2	59.9	80.2
				Mean Min.	30.6	34.1	38.7	44.2	50.3	60.2	69.9	68.1	59.1	48.0	37.6	31.6	47.7
Reno	Gila	2,350	1899-	Mean	45.1	48.8	54.6	61.6	69.1	79.3	85.1	83.1	76.2	65.4	53.4	45.8	64.0
Ranger			1953*	Highest Mean Max.	65.8	70.1	80.8	86.1	94.2	107.4	105.2	104.4	98.5	91.2	75.8	70.8	----
Station				Highest Mean Min.	37.5	40.1	45.4	54.6	58.8	69.6	75.6	74.5	65.1	57.6	45.7	38.0	----
				Lowest Mean Max.	47.5	50.8	65.0	70.3	78.3	90.7	91.5	91.1	85.1	74.2	63.3	54.6	----
				Lowest Mean Min.	21.8	25.5	26.1	35.7	38.9	50.9	63.3	56.6	50.1	39.4	31.0	25.2	----
				Mean Max.	58.8	63.8	70.6	79.5	89.1	99.1	101.8	99.2	94.5	83.2	70.2	60.1	80.8
				Mean Min.	34.2	39.6	44.1	51.2	59.4	68.1	75.2	73.5	67.4	55.3	44.4	37.2	54.1
Roose-	Gila	2,200	1905-	Mean	46.5	51.7	57.4	65.4	74.2	83.6	88.5	86.4	81.0	69.2	57.3	48.6	67.4
velt			1953	Highest Mean Max.	64.5	71.4	80.1	86.5	99.3	105.8	108.8	104.0	99.8	93.2	80.2	75.1	----
				Highest Mean Min.	44.0	45.7	50.0	59.2	64.3	73.7	79.1	78.0	73.7	63.5	50.7	44.8	----
				Lowest Mean Max.	49.7	55.2	62.1	71.6	79.6	94.2	94.8	92.1	87.0	74.0	63.8	53.5	----
				Lowest Mean Min.	30.2	32.1	37.6	47.1	52.9	57.3	70.3	63.8	54.4	41.8	34.6	30.3	----
				Mean Max.	65.9	69.9	73.8	83.5	92.0	100.5	103.0	99.7	97.7	87.0	70.5	67.9	84.3
				Mean Min.	36.3	38.0	42.3	50.0	56.6	64.9	72.8	70.4	65.3	55.0	42.9	37.5	52.7
Sabino	Pima	2,610	1941-	Mean	51.1	54.0	58.1	66.8	74.3	82.7	87.9	85.1	81.5	71.0	56.7	52.7	68.5
Canyon			1953	Highest Mean Max.	71.7	75.2	78.8	89.7	94.5	104.4	106.7	102.4	101.6	95.4	83.2	76.2	----
				Highest Mean Min.	40.2	42.6	45.0	54.7	61.2	68.3	74.8	72.3	69.7	60.3	47.0	39.9	----
				Lowest Mean Max.	55.4	64.4	67.1	78.0	86.4	97.7	99.5	97.6	93.9	82.5	69.3	63.5	----
				Lowest Mean Min.	33.5	34.5	39.2	46.1	52.6	60.9	70.8	63.8	57.4	48.6	36.8	32.7	----
				Mean Max.	65.0	69.5	73.6	84.1	92.9	102.6	103.4	101.3	98.0	87.5	75.3	66.1	84.9
				Mean Min.	33.3	37.6	42.3	48.6	55.2	64.1	73.7	72.3	65.6	52.0	39.9	34.4	51.6
Sacaton	Pinal	1,280	1908-	Mean	49.2	53.6	58.0	66.4	74.2	83.4	88.6	86.8	81.8	69.8	57.6	50.2	68.2
			1953	Highest Mean Max.	71.8	76.6	85.5	90.8	99.1	106.1	107.7	106.1	103.4	96.0	82.1	75.0	----
				Highest Mean Min.	41.0	44.6	49.3	54.4	61.0	70.6	76.6	74.9	71.5	58.2	48.2	41.9	----
				Lowest Mean Max.	53.1	60.2	67.8	75.6	86.7	97.9	97.5	96.5	92.9	80.1	68.2	60.1	----
				Lowest Mean Min.	27.3	30.4	36.8	44.0	50.4	58.4	69.7	68.6	58.9	45.5	32.6	27.6	----
				Mean Max.	59.2	65.4	71.6	80.1	89.1	98.5	99.1	96.0	95.4	82.2	76.4	60.1	81.1
				Mean Min.	27.7	32.3	34.6	42.4	49.5	59.1	68.2	66.4	59.1	45.8	34.6	28.8	45.7
Safford	Graham	2,900	1898-	Mean	43.4	48.8	53.1	61.2	69.3	78.8	83.6	81.1	77.2	64.0	55.0	44.4	63.4
			1953	Highest Mean Max.	68.2	74.6	79.5	86.7	94.6	104.8	104.9	101.7	97.6	92.4	76.3	70.9	----
				Highest Mean Min.	35.2	40.1	42.2	47.9	57.3	65.5	72.7	72.3	65.6	52.7	42.9	34.3	----
				Lowest Mean Max.	48.7	55.6	64.4	71.5	82.3	94.0	93.2	88.3	83.5	74.4	62.7	53.6	----
				Lowest Mean Min.	19.4	26.2	28.7	34.1	41.0	50.1	61.9	55.2	52.2	38.8	28.6	22.5	----
				Mean Max.	47.6	53.3	60.3	69.8	78.0	88.2	90.3	86.0	80.9	73.1	60.1	49.3	69.7
				Mean Min.	15.4	20.6	25.6	32.9	39.9	47.8	56.0	54.5	46.4	34.1	22.5	16.5	34.4
Saint	Apache	5,560	1901*-	Mean	31.5	36.9	43.0	51.4	59.0	68.0	73.2	70.2	63.6	53.6	41.3	32.9	52.1
John's			1953	Highest Mean Max.	56.4	63.4	66.7	78.6	83.3	94.3	94.9	92.8	88.4	82.3	68.1	58.4	----
				Highest Mean Min.	25.4	29.2	32.8	39.7	48.9	56.6	65.3	58.9	52.3	41.5	32.9	28.2	----
				Lowest Mean Max.	32.4	43.2	48.2	60.5	68.7	82.7	83.5	82.8	72.6	67.4	50.6	37.8	----
				Lowest Mean Min.	0.0	11.8	19.0	24.7	33.8	40.7	51.3	48.8	39.5	28.1	15.8	7.8	----
				Mean Max.	63.6	65.7	73.4	82.0	90.8	100.3	104.3	102.0	97.4	86.5	74.8	65.1	83.8
				Mean Min.	33.2	36.3	40.5	46.1	52.4	61.4	72.1	71.2	63.3	50.3	39.5	34.5	50.1
Salome	Yuma	1,700	1907-	Mean	48.4	51.0	57.0	64.1	71.6	80.8	88.2	87.6	80.4	68.4	57.2	49.8	67.0
			1953	Highest Mean Max.	70.2	75.2	87.2	89.9	97.2	105.9	107.7	106.2	101.7	94.5	80.6	75.5	----
				Highest Mean Min.	38.8	42.9	47.2	52.9	58.3	69.6	77.1	74.8	68.8	56.2	45.3	41.1	----
				Lowest Mean Max.	51.5	53.8	61.9	68.7	83.4	94.3	99.0	95.8	91.4	79.5	66.7	55.6	----
				Lowest Mean Min.	26.1	29.2	33.3	38.4	45.6	56.3	62.2	62.6	53.7	44.0	33.5	24.7	----
				Mean Max.	62.1	68.3	72.9	82.2	91.0	99.0	100.9	98.8	95.8	85.2	67.2	63.5	82.2
				Mean Min.	27.6	29.5	34.0	40.7	46.3	54.4	67.3	67.3	58.7	46.2	31.6	27.2	44.2
San	Gila	2,643	1941-	Mean	44.8	48.9	53.4	61.4	68.6	76.7	84.1	83.1	77.2	65.7	49.4	45.4	63.2
Carlos			1953	Highest Mean Max.	67.5	74.8	77.7	88.2	93.7	103.3	103.2	101.5	98.8	92.8	79.2	71.3	----
				Highest Mean Min.	36.6	39.5	38.3	46.0	53.5	57.1	70.1	78.3	69.2	57.1	39.3	31.8	----
				Lowest Mean Max.	52.8	63.5	66.9	75.0	84.1	96.4	97.4	95.5	90.3	79.5	67.8	58.3	----
				Lowest Mean Min.	23.1	22.3	31.5	35.9	41.4	49.6	63.3	60.7	51.5	40.6	26.3	17.5	----
				Mean Max.	58.8	63.6	70.1	79.3	88.4	97.6	100.3	98.2	94.5	83.8	65.6	60.8	80.1
				Mean Min.	32.4	35.6	40.3	48.0	56.6	65.6	73.1	71.6	65.1	52.4	39.4	33.7	51.2
San	Gila	2,532	1930-	Mean	45.6	49.6	55.2	63.6	72.5	81.6	86.7	84.9	79.8	68.1	52.5	47.2	65.6
Carlos			1953	Highest Mean Max.	65.1	72.0	81.5	85.6	95.7	104.5	104.9	103.1	98.1	91.5	75.9	68.4	----
Reservoir				Highest Mean Min.	37.2	42.7	47.6	53.4	63.5	69.5	76.3	74.4	69.4	57.9	44.0	36.7	----
				Lowest Mean Max.	48.2	59.0	61.7	70.2	81.4	93.7	94.3	91.0	89.7	77.8	61.5	57.2	----
				Lowest Mean Min.	24.1	28.3	36.4	39.7	48.1	59.2	63.9	63.6	57.9	43.4	28.8	26.8	----
Sanders	Apache	5,921	1949-	Mean	33.1	34.2	38.6	48.1	54.7	64.0	72.2	69.6	62.9	51.6	38.6	29.7	49.8
			1953														
				Mean Max.	63.1	62.5	64.8	71.7	81.7	91.4	87.6	89.0	89.7	83.3	70.2	62.9	76.5
San	Santa	4,741	1950-	Mean Min.	24.9	22.6	27.2	34.3	38.7	48.6	59.1	57.9	49.5	42.4	31.2	22.9	38.3
Rafael	Cruz		1953	Mean	44.0	42.6	46.0	53.0	60.2	70.0	73.4	73.4	69.6	62.8	50.7	42.9	57.4
Ranch																	
				Mean Max.	59.4	65.3	71.6	79.7	83.7	96.9	97.7	95.2	86.8	81.6	69.2	60.8	79.0
			1903-	Mean Min.	27.4	30.4	34.8	40.6	47.8	55.9	64.8	64.4	57.1	43.9	33.1	28.1	44.2
San	Cochise	3,608	1908	Mean	43.4	47.8	53.2	60.2	65.8	76.4	81.2	79.8	72.0	62.8	51.2	44.4	61.6
Simon			1913-	Highest Mean Max.	65.8	75.2	81.7	89.0	95.5	100.7	101.4	105.1	96.7	90.5	76.5	69.2	----
			1916	Highest Mean Min.	32.2	36.5	44.0	46.1	57.2	61.0	70.5	74.8	62.3	48.7	41.1	34.1	----
			1940-	Lowest Mean Max.	49.3	59.0	64.9	72.4	82.0	92.8	93.3	88.0	87.0	78.3	61.4	51.3	----
			1953	Lowest Mean Min.	21.0	22.5	25.1	35.9	43.2	48.1	53.7	59.8	49.0	37.1	24.8	21.2	----

TABLE 14 --(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Santa Rita Exp. Range	Pima	4,300	1916-1953	Mean Max.	58.2	61.3	66.7	74.6	83.0	92.2	91.2	88.1	86.8	79.0	68.1	60.5	75.8
				Mean Min.	36.2	38.4	42.1	48.9	56.1	64.4	67.6	66.0	63.6	55.0	44.0	38.4	51.7
				Mean	47.2	49.8	54.4	61.8	69.6	78.3	79.4	77.1	75.2	67.0	56.1	49.4	63.8
				Highest Mean Max.	67.5	70.7	74.6	80.1	87.8	96.4	97.1	93.8	92.6	87.2	80.3	73.7	----
				Highest Mean Min.	42.0	43.6	50.6	56.2	62.2	68.8	70.5	69.5	67.5	63.0	54.9	46.1	----
				Lowest Mean Max.	45.9	51.5	56.8	65.2	76.5	88.8	85.8	83.0	82.3	73.0	60.3	55.5	----
				Lowest Mean Min.	28.3	29.4	34.5	36.7	47.1	56.6	63.1	61.4	58.7	45.7	32.6	30.7	----
Sedona RS	Coconino	4,223	1943-1953	Mean Max.	53.7	57.7	61.8	71.9	80.2	89.9	94.3	92.6	89.4	77.7	64.0	55.4	74.1
				Mean Min.	29.8	32.0	35.3	43.6	50.0	58.0	65.4	64.8	60.0	50.4	37.4	31.2	46.5
				Mean	41.8	44.8	48.6	57.8	65.1	74.0	79.8	78.7	74.7	64.1	50.7	43.3	60.3
				Highest Mean Max.	61.8	64.7	67.2	75.8	83.1	94.2	98.2	95.8	92.3	85.6	74.3	65.2	----
				Highest Mean Min.	32.8	39.1	38.9	46.8	54.0	61.0	67.7	67.0	61.7	54.6	41.9	36.1	----
				Lowest Mean Max.	39.7	51.6	55.1	65.4	74.7	86.4	91.3	89.6	89.6	70.5	55.5	51.9	----
				Lowest Mean Min.	23.5	27.5	31.7	40.4	44.5	55.1	64.4	63.2	56.2	45.1	32.0	27.1	----
Seligman	Yavapai	5,219	1904-1953	Mean Max.	51.0	54.6	61.5	69.6	77.9	87.4	90.7	88.0	83.5	73.3	62.4	52.0	71.0
				Mean Min.	20.0	23.8	26.6	32.1	38.0	45.1	54.7	53.5	46.0	36.0	25.2	21.2	35.2
				Mean	35.5	39.2	44.1	50.8	58.0	66.2	72.7	70.8	64.8	54.6	43.8	36.6	53.1
				Highest Mean Max.	60.4	65.7	71.8	79.5	87.4	93.2	96.8	92.2	91.1	84.1	73.7	63.6	----
				Highest Mean Min.	27.4	31.6	39.1	44.1	56.1	54.5	66.4	63.1	56.9	45.0	34.1	27.7	----
				Lowest Mean Max.	34.4	41.9	54.1	63.4	67.1	78.2	82.3	78.8	71.7	63.1	53.0	41.4	----
				Lowest Mean Min.	10.6	9.6	20.6	25.0	30.7	39.5	47.7	48.5	38.4	29.3	18.1	8.2	----
Sells	Pima	2,369	1917-1925 1940-1953	Mean Max.	64.6	67.9	73.5	81.5	90.3	99.9	100.6	97.8	96.4	86.3	74.1	67.1	83.3
				Mean Min.	36.2	38.9	42.2	48.3	54.3	63.9	71.7	70.4	66.2	55.2	41.7	37.8	52.2
				Mean	50.4	53.4	57.8	64.9	72.3	81.9	86.2	84.1	81.3	70.8	57.9	52.4	67.8
				Highest Mean Max.	72.1	77.5	83.9	88.2	95.2	104.3	103.1	102.3	101.0	94.7	82.2	76.2	----
				Highest Mean Min.	40.8	45.2	47.6	51.6	59.1	70.5	78.0	75.5	71.8	68.8	49.1	43.8	----
				Lowest Mean Max.	51.7	62.1	63.9	74.6	83.8	97.0	95.5	94.8	92.1	79.0	67.0	59.8	----
				Lowest Mean Min.	28.2	34.4	38.4	42.5	49.1	58.9	67.7	64.8	62.2	48.5	37.8	32.1	----
Sentinel	Maricopa	690	1906-1916	Mean Max.	68.0	72.6	80.2	89.2	94.3	105.8	107.5	106.2	101.6	90.0	86.0	66.7	89.1
				Mean Min.	39.4	39.6	45.5	50.9	56.1	67.4	76.7	76.1	67.5	53.9	44.4	36.4	45.4
				Mean	53.8	57.0	62.8	70.8	77.6	88.7	94.1	92.4	85.5	72.7	62.5	53.1	72.7
Show Low	Navajo	6,412	1919-1953*	Mean Max.	47.1	49.3	52.1	63.7	70.0	82.2	83.7	83.6	82.7	72.9	54.6	41.9	65.3
				Mean Min.	23.4	21.3	25.3	34.3	38.5	48.5	56.0	54.6	47.1	36.0	24.3	17.3	35.6
				Mean	35.2	35.3	38.7	49.0	54.2	65.4	69.8	69.1	64.9	54.4	39.4	29.6	50.4
Sierra Ancha	Gila	5,100	1935-1953	Mean Max.	53.6	56.4	61.7	71.2	79.6	89.3	93.1	90.6	86.7	76.0	63.5	56.1	73.1
				Mean Min.	30.5	32.7	36.1	43.2	47.8	58.5	63.8	63.1	59.7	50.0	38.2	33.2	46.4
				Mean	42.1	44.6	48.9	57.2	63.7	73.8	78.4	76.8	73.2	63.0	50.8	44.6	59.8
				Highest Mean Max.	60.2	64.3	67.3	77.0	84.7	95.5	97.4	94.8	90.7	82.9	70.3	63.1	----
				Highest Mean Min.	34.7	38.6	40.9	47.9	55.1	62.5	66.5	65.9	62.5	57.5	45.1	*38.9	----
				Lowest Mean Max.	41.2	47.5	52.9	63.0	71.7	84.3	88.1	88.1	82.6	69.5	56.8	52.0	----
				Lowest Mean Min.	23.0	23.1	30.0	37.5	43.1	54.0	61.4	60.0	55.8	43.9	30.1	28.3	----
Snowflake	Navajo	5,644	1897-1953	Mean Max.	47.0	53.4	59.9	68.6	75.5	87.8	90.0	87.5	82.4	72.2	55.4	48.7	69.0
				Mean Min.	15.6	20.7	25.0	31.5	36.6	45.5	54.5	54.2	45.0	33.4	22.0	16.5	33.4
				Mean	31.3	37.1	42.4	50.1	56.1	66.6	72.2	70.8	63.7	52.8	38.7	32.6	51.2
				Highest Mean Max.	58.2	67.8	66.7	78.5	83.8	93.4	96.8	94.6	87.8	81.8	70.2	65.1	----
				Highest Mean Min.	25.0	28.7	32.8	38.7	45.7	52.5	61.6	65.5	53.4	40.0	29.2	26.2	----
				Lowest Mean Max.	33.9	40.2	52.6	61.6	66.9	83.4	83.9	81.2	75.6	62.0	50.9	35.9	----
				Lowest Mean Min.	0.2	13.4	16.1	24.8	30.0	39.4	44.6	43.2	35.7	25.6	9.7	4.9	----
Springerville	Apache	6,964	1911-1953	Mean Max.	48.1	51.6	56.0	64.4	72.2	81.4	81.7	79.8	76.6	69.1	58.8	50.5	65.8
				Mean Min.	14.1	17.9	22.2	30.0	36.6	44.8	51.5	49.3	42.4	32.3	21.0	15.0	31.4
				Mean	31.1	34.8	39.1	47.2	54.4	63.1	66.6	64.6	59.5	50.7	39.9	32.8	48.6
				Highest Mean Max.	59.5	59.8	64.4	70.4	77.0	87.4	88.5	85.0	83.7	77.7	69.3	65.8	----
				Highest Mean Min.	24.4	25.0	27.2	35.2	41.1	51.5	55.2	53.9	47.1	38.1	33.9	30.4	----
				Lowest Mean Max.	37.8	41.0	48.5	56.8	64.1	76.2	73.7	70.5	68.9	61.6	49.6	40.7	----
				Lowest Mean Min.	4.4	10.0	16.1	23.2	31.5	38.2	47.5	40.4	35.9	26.0	14.5	0.5	----
Stanton	Yavapai	3,480	1944-1953	Mean Max.	57.3	61.4	64.7	74.6	82.5	91.4	96.2	94.7	91.6	80.5	66.8	59.9	76.8
				Mean Min.	36.8	38.4	40.7	48.6	54.3	62.3	71.1	69.8	66.5	56.8	45.1	39.4	52.5
				Mean	47.1	49.9	52.7	61.6	68.4	76.8	83.6	82.2	79.1	68.6	56.0	49.6	64.6
				Highest Mean Max.	65.6	68.0	69.2	79.5	86.4	95.6	98.7	97.7	95.5	87.9	75.7	68.8	----
				Highest Mean Min.	42.8	45.3	44.8	51.9	59.0	64.5	79.2	71.8	72.4	61.4	53.9	46.5	----
				Lowest Mean Max.	43.8	46.3	57.6	68.4	76.6	87.6	91.0	91.3	89.2	73.7	61.1	56.1	----
				Lowest Mean Min.	29.1	35.4	36.9	44.3	48.5	59.6	67.5	66.1	62.2	51.3	40.9	36.7	----
Superior	Pinal	2,995	1950-1953	Mean Max.	63.0	63.5	67.0	75.7	85.4	96.4	98.4	98.4	96.4	88.1	71.6	62.6	80.5
				Mean Min.	42.5	41.3	45.0	51.8	60.1	68.4	75.4	75.5	71.9	64.5	51.6	43.8	57.6
				Mean	52.8	52.4	56.0	63.8	72.8	82.4	86.9	87.0	84.2	76.3	61.6	53.0	69.1
Superstition Mountain	Pinal	1,950	1946-1953	Mean Max.	64.0	69.1	72.4	83.3	91.8	100.6	103.5	102.8	100.4	89.3	74.0	66.2	84.8
				Mean Min.	42.2	45.0	48.3	56.6	63.8	72.1	78.5	77.4	74.7	63.4	58.6	44.9	60.4
				Mean	53.1	57.1	60.4	70.0	77.8	86.8	91.0	90.1	87.6	76.4	66.3	55.6	72.6
				Highest Mean Max.	69.4	73.9	77.3	87.9	94.8	102.1	106.9	103.9	103.2	95.7	82.2	75.1	----
				Highest Mean Min.	47.1	48.5	51.0	61.4	67.8	73.4	81.1	79.0	76.2	69.4	57.6	52.0	----
				Lowest Mean Max.	53.3	65.9	64.9	80.6	85.7	98.1	99.9	99.8	96.4	86.6	68.3	62.4	----
				Lowest Mean Min.	36.4	42.1	43.9	54.5	59.1	70.0	77.3	75.6	69.6	59.4	46.2	42.0	----
Tempe	Maricopa	1,159	1926-1953	Mean Max.	64.9	69.3	75.2	83.3	91.8	100.1	103.4	101.4	97.9	87.5	74.7	66.4	84.6
				Mean Min.	35.0	39.0	41.5	49.2	55.0	62.3	73.5	72.5	65.3	52.7	41.4	36.9	52.0
				Mean	50.0	54.2	58.4	66.2	73.4	81.2	88.4	87.0	81.6	70.1	58.1	51.6	68.3
				Highest Mean Max.	71.6	75.8	81.6	89.7	96.7	105.0	108.1	104.2	102.0	97.0	84.8	76.7	----
				Highest Mean Min.	41.1	45.8	50.3	57.2	61.0	66.8	82.4	75.1	69.5	57.5	50.2	42.3	----
				Lowest Mean Max.	53.5	59.9	67.2	75.1	85.2	95.9	100.1	97.6	92.8	81.4	66.2	58.6	----
				Lowest Mean Min.	29.6	32.5	38.5	44.4	49.7	56.5	68.3	67.5	59.6	48.1	33.3	31.0	----

TABLE 14 --(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Tombstone	Cochise	4,540	1897-1953	Mean Max.	59.8	63.1	68.8	77.0	84.9	94.1	92.7	90.0	87.6	79.6	68.7	59.8	77.2
				Mean Min.	33.9	36.3	40.0	46.2	53.3	61.8	65.3	63.9	60.3	51.0	40.8	34.2	48.9
				Mean	46.8	49.7	54.4	61.6	69.1	78.0	79.0	77.0	74.0	65.3	54.8	47.0	63.1
				Highest Mean Max.	71.8	71.9	77.0	83.8	90.0	100.6	98.7	98.4	93.5	90.9	79.4	76.4	----
				Highest Mean Min.	40.7	41.3	44.7	51.1	58.5	66.1	69.3	70.0	64.8	60.1	45.9	39.7	----
				Lowest Mean Max.	48.6	55.3	59.0	67.1	76.5	88.6	87.1	81.7	80.6	71.6	59.0	49.6	----
				Lowest Mean Min.	25.7	28.9	33.7	41.6	46.5	57.1	62.6	61.1	55.2	45.5	35.8	27.3	----
Truxton Canyon	Mohave	3,820	1910-1953*	Mean Max.	53.2	57.3	64.0	72.0	81.0	91.3	96.0	93.2	85.2	77.9	66.3	55.6	74.4
				Mean Min.	26.5	30.0	33.8	40.0	46.8	56.1	63.9	61.8	55.2	44.0	33.6	28.4	43.3
				Mean	39.8	43.6	48.9	56.0	63.9	73.7	80.0	77.5	70.2	61.0	50.0	42.0	58.8
				Highest Mean Max.	63.7	64.5	76.5	80.9	90.1	96.4	100.9	97.2	93.6	87.8	78.2	67.4	----
				Highest Mean Min.	32.6	35.6	40.7	45.0	53.2	62.0	67.5	64.5	60.9	51.1	45.2	36.0	----
				Lowest Mean Max.	37.3	42.2	47.3	54.6	64.0	70.0	91.9	79.2	76.8	69.9	55.7	45.5	----
				Lowest Mean Min.	12.9	20.5	27.8	35.8	41.2	47.7	56.6	56.0	50.0	36.2	25.8	17.2	----
Tuba City	Coconino	4,936	1897-1953	Mean Max.	44.8	52.3	61.1	70.2	79.5	89.6	93.7	89.4	85.4	72.7	58.0	45.6	70.2
				Mean Min.	19.9	26.2	31.5	38.5	45.5	53.5	61.5	59.5	51.7	40.9	28.4	21.1	39.8
				Mean	32.4	39.2	46.3	54.4	62.5	71.6	77.6	74.4	68.6	56.8	43.2	33.4	55.0
				Highest Mean Max.	58.8	61.3	71.8	76.7	85.3	96.7	101.2	96.5	95.4	81.7	66.4	54.8	----
				Highest Mean Min.	27.7	33.5	41.1	44.2	53.5	61.1	73.6	67.0	58.5	45.2	34.4	29.6	----
				Lowest Mean Max.	29.2	39.6	52.5	60.7	72.8	84.6	87.7	84.7	79.4	65.3	49.6	32.3	----
				Lowest Mean Min.	5.7	15.3	25.5	32.8	37.8	46.4	55.1	54.0	43.8	32.0	18.2	8.4	----
Tucson Airport	Pima	2,558	1940-1953	Mean Max.	63.6	67.6	71.9	81.2	90.2	98.6	99.8	97.3	95.3	85.4	73.4	65.4	82.5
				Mean Min.	37.4	39.5	43.1	50.4	57.8	66.0	73.8	72.0	67.7	56.6	44.1	39.0	54.0
				Mean	50.5	53.6	57.5	65.8	74.0	82.3	86.8	84.6	81.5	71.0	58.8	52.2	68.2
				Highest Mean Max.	69.8	73.2	76.3	87.2	93.3	102.2	103.7	99.3	99.0	93.1	79.9	73.0	----
				Highest Mean Min.	41.9	45.7	47.2	54.7	61.5	68.7	75.9	74.2	70.3	61.1	48.7	45.4	----
				Lowest Mean Max.	52.3	64.3	65.5	74.1	84.6	95.1	93.5	95.5	92.2	79.4	66.9	61.2	----
				Lowest Mean Min.	33.6	35.5	39.8	45.5	53.1	61.7	72.1	70.5	64.2	51.5	37.6	34.0	----
Tucson Mag. Obs.	Pima	2,526	1912-1916 1934-1953	Mean Max.	64.4	67.7	72.8	82.1	91.1	99.9	100.3	98.0	95.3	86.4	74.2	66.0	83.2
				Mean Min.	34.8	35.7	39.7	45.5	51.8	61.7	70.8	69.7	61.1	51.6	40.3	35.1	49.8
				Mean	49.6	51.7	56.2	63.8	71.4	80.8	85.6	83.8	78.2	69.0	57.2	50.6	66.5
				Highest Mean Max.	70.1	73.7	77.5	87.6	95.3	103.6	104.1	101.3	99.6	94.2	81.8	75.4	----
				Highest Mean Min.	38.7	42.5	44.3	50.6	58.5	65.7	73.5	72.2	68.3	60.4	50.0	42.8	----
				Lowest Mean Max.	53.2	58.1	65.1	75.1	85.4	97.0	94.5	94.9	92.5	80.2	67.9	59.3	----
				Lowest Mean Min.	25.4	29.0	36.0	40.3	46.5	55.7	66.4	66.6	57.7	47.1	33.8	27.7	----
Tucson Mtn. Park	Pima	2,850	1943-1953*	Mean Max.	62.6	68.0	72.4	81.9	89.3	98.8	98.7	98.6	95.5	86.4	73.6	66.6	82.7
				Mean Min.	39.6	41.7	45.2	52.8	59.8	67.9	73.6	73.2	69.7	60.2	47.9	43.2	56.2
				Mean	51.1	54.8	58.8	67.4	74.6	83.4	86.2	85.9	82.6	73.3	60.8	54.9	69.4
				Highest Mean Max.	68.0	71.7	76.9	87.4	92.6	103.3	101.4	100.9	98.7	93.7	81.1	74.0	----
				Highest Mean Min.	42.7	44.1	48.9	56.5	65.0	72.4	75.8	74.7	72.2	66.1	55.9	50.1	----
				Lowest Mean Max.	52.2	64.1	64.6	78.0	88.4	96.4	94.0	95.9	93.3	78.7	67.9	63.4	----
				Lowest Mean Min.	34.4	37.8	40.4	47.3	55.8	60.1	71.8	71.3	66.9	54.7	38.4	35.8	----
Tumacacori	Santa Cruz	3,267	1946-1953	Mean Max.	64.4	68.2	72.1	81.4	89.1	98.2	96.9	95.5	95.3	86.2	74.1	66.4	82.3
				Mean Min.	30.9	31.8	35.4	41.8	48.8	57.4	66.4	64.0	59.1	47.8	36.6	31.9	45.4
				Mean	47.6	50.0	53.8	61.6	69.4	77.8	81.6	79.8	77.2	67.0	55.4	49.2	63.8
				Highest Mean Max.	70.7	73.6	74.6	85.2	91.7	101.3	99.7	97.6	98.8	93.9	82.2	75.3	----
				Highest Mean Min.	34.5	34.6	37.9	43.5	52.1	59.8	68.3	66.9	62.6	51.1	40.5	34.9	----
				Lowest Mean Max.	52.7	64.9	64.8	77.6	83.9	96.2	91.9	92.7	91.5	79.9	68.1	62.0	----
				Lowest Mean Min.	29.4	28.6	30.9	40.0	43.3	52.5	65.3	61.4	55.2	44.5	29.0	26.0	----
Tuweep	Mohave	4,775	1941-1953*	Mean Max.	51.4	53.5	59.2	62.1	78.4	87.5	93.4	91.2	87.3	74.8	60.5	50.9	70.8
				Mean Min.	28.0	29.2	33.1	41.7	48.4	56.6	64.2	62.0	53.2	46.4	33.7	28.9	43.8
				Mean	39.7	41.4	46.2	51.9	63.4	72.1	78.8	76.6	70.2	60.6	47.1	39.9	57.3
				Highest Mean Max.	57.1	57.6	65.1	74.5	83.7	91.8	97.8	96.6	91.6	82.0	69.8	55.0	----
				Highest Mean Min.	31.8	33.3	38.4	45.0	54.2	60.2	66.3	64.4	61.7	54.7	39.2	34.9	----
				Lowest Mean Max.	45.3	45.2	50.7	66.5	72.0	83.0	90.9	88.2	81.9	66.5	53.5	45.5	----
				Lowest Mean Min.	25.3	22.0	29.3	36.9	43.1	52.0	62.2	60.0	52.8	39.7	29.4	23.3	----
Wallace RS	Coconino	7,006	1939-1953	Mean Max.	43.6	46.7	51.0	60.9	70.6	80.0	83.2	80.6	76.4	65.1	53.1	45.8	63.1
				Mean Min.	15.9	18.6	22.6	29.6	35.5	42.6	51.8	50.5	43.9	33.0	22.6	17.2	32.0
				Mean	29.8	32.6	36.8	45.2	53.1	61.3	67.5	65.6	60.2	49.1	37.8	31.5	47.6
				Highest Mean Max.	49.8	52.4	56.4	66.5	74.2	83.5	86.1	84.0	81.2	75.3	61.0	55.0	----
				Highest Mean Min.	23.4	23.8	26.1	31.7	42.0	48.3	54.7	53.2	47.7	36.5	27.4	22.5	----
				Lowest Mean Max.	31.8	42.1	42.4	53.7	61.7	77.4	79.1	78.0	72.5	58.0	43.1	40.8	----
				Lowest Mean Min.	6.4	10.7	18.7	25.9	31.5	38.2	48.3	45.7	40.0	28.9	14.9	10.3	----
Wellton	Yuma	260	1922-1953	Mean Max.	68.4	73.1	79.6	87.3	95.3	102.8	107.4	105.8	101.6	91.0	77.6	69.5	88.3
				Mean Min.	33.7	38.2	43.4	50.1	56.9	63.8	75.5	75.5	67.5	53.5	39.6	34.7	52.7
				Mean	51.1	55.6	61.5	68.7	76.1	83.3	91.4	90.6	84.6	72.2	58.6	52.1	70.5
				Highest Mean Max.	78.1	79.7	91.6	94.8	101.4	109.1	111.1	109.9	105.9	99.7	84.0	76.6	----
				Highest Mean Min.	39.9	45.1	47.7	54.6	62.8	68.6	80.7	79.4	77.0	64.7	46.6	40.6	----
				Lowest Mean Max.	56.8	65.3	72.4	80.7	83.3	98.7	102.6	102.1	95.0	82.7	71.3	64.7	----
				Lowest Mean Min.	27.6	31.3	39.1	45.7	51.8	58.9	65.4	70.9	55.9	47.1	32.4	27.2	----
Whiteriver	Navajo	5,280	1922-1934 1940-1953	Mean Max.	53.0	54.7	61.0	69.5	76.0	85.1	91.2	88.9	85.4	75.0	63.0	53.6	71.4
				Mean Min.	20.2	24.7	27.2	35.2	40.8	50.2	57.7	56.6	50.5	39.7	27.7	21.7	37.7
				Mean	36.6	39.7	44.1	52.4	58.4	67.6	74.4	72.8	68.0	57.4	45.4	37.6	54.6
				Highest Mean Max.	62.5	64.4	68.3	74.1	88.3	94.1	96.9	92.0	90.5	84.1	72.8	64.4	----
				Highest Mean Min.	27.0	30.6	35.0	40.5	49.3	54.1	61.0	59.7	54.9	44.3	31.3	28.7	----
				Lowest Mean Max.	40.4	49.5	50.5	62.0	71.5	84.9	87.0	84.0	79.0	70.8	56.9	47.3	----
				Lowest Mean Min.	13.3	17.0	24.8	28.9	37.8	46.9	53.9	52.6	45.4	33.9	23.5	15.5	----
Wickenburg	Maricopa	2,070	1908-1953	Mean Max.	61.7	65.1	72.4	78.2	89.2	96.9	102.3	99.9	95.3	84.8	75.3	64.7	82.2
				Mean Min.	29.6	32.1	37.2	42.3	48.8	57.2	69.0	67.9	59.7	46.7	37.2	31.0	46.6
				Mean	45.6	48.6	54.8	60.2	69.0	77.1	85.6	83.9	77.5	65.8	56.2	47.8	64.4
				Highest Mean Max.	73.5	73.8	82.7	85.8	95.8	105.9	107.8	104.0	101.6	92.8	87.2	74.7	----
				Highest Mean Min.	34.8	40.3	43.5	48.4	55.9	67.0	74.3	73.5	66.6	58.5	59.7	36.4	----
				Lowest Mean Max.	49.3	55.5	61.5	70.1	80.6	92.9	97.7	96.3	88.4	76.5	65.8	59.1	----
				Lowest Mean Min.	23.7	23.6	32.4	36.0	41.8	47.4	59.2	58.7	52.5	41.7	25.9	19.0	----

TABLE 14 --(Continued) MEAN TEMPERATURES FOR ALL ACTIVE WEATHER STATIONS IN ARIZONA

STATION	COUNTY	ELEVATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Wikieup	Mohave	2,125	1952-1953	Mean Max.	64.0	65.7	67.9	79.0	88.8	99.4	105.4	104.2	101.4	91.4	73.4	64.6	83.8
				Mean Min.	31.9	31.4	34.2	41.0	49.6	53.2	68.8	66.1	59.2	46.1	35.4	30.4	45.6
				Mean	48.0	48.6	51.1	60.0	69.2	76.3	87.1	85.2	80.3	68.8	54.4	47.5	64.7
Willcox	Cochise	4,200	1903-1953	Mean Max.	57.6	62.2	66.6	74.7	84.4	93.3	93.4	90.6	87.6	79.0	67.4	58.2	76.2
				Mean Min.	25.0	27.6	31.6	36.7	42.8	52.4	61.8	56.6	53.6	41.5	30.5	25.5	40.5
				Mean	41.3	44.9	49.1	55.7	63.6	72.8	77.6	73.6	70.6	60.2	49.0	41.8	58.4
				Highest Mean Max.	67.0	70.7	77.7	86.2	89.7	99.9	99.2	97.9	95.5	89.4	78.8	71.1	----
				Highest Mean Min.	31.6	36.8	40.6	42.5	48.7	64.1	65.5	70.0	57.8	46.9	38.8	33.9	----
				Lowest Mean Max.	47.9	52.6	61.0	70.1	75.2	86.8	85.8	84.2	79.6	71.7	57.4	48.3	----
				Lowest Mean Min.	17.2	19.5	23.1	31.2	30.7	39.5	52.5	51.1	46.8	31.5	23.6	17.3	----
Williams	Coconino	6,750	1906-1953	Mean Max.	43.4	46.8	55.1	64.6	70.8	79.9	84.3	81.8	77.0	67.1	56.3	47.2	64.5
				Mean Min.	16.5	18.6	23.6	30.2	36.4	43.4	51.4	49.2	43.6	32.9	23.6	18.0	32.3
				Mean	30.0	32.7	39.4	47.4	53.6	61.6	67.8	65.5	60.3	50.0	40.0	32.6	48.4
				Highest Mean Max.	52.2	54.4	65.6	69.1	79.1	88.0	89.2	88.9	83.3	78.1	64.1	58.1	----
				Highest Mean Min.	27.6	28.0	30.6	38.5	44.5	52.6	58.1	57.6	52.3	44.5	36.0	29.0	----
				Lowest Mean Max.	30.3	36.3	40.4	53.0	59.7	75.1	77.6	77.3	69.9	57.2	44.5	39.8	----
				Lowest Mean Min.	3.6	5.2	17.9	22.8	27.4	34.6	47.0	44.6	35.6	25.1	15.1	9.1	----
Willow Springs Ranch	Pinal	3,690	1943-1953*	Mean Max.	57.6	60.1	64.1	76.3	84.0	92.9	95.7	92.9	91.5	82.4	68.3	60.3	77.2
				Mean Min.	33.7	35.3	40.4	48.7	54.5	63.0	67.3	66.2	62.3	52.6	40.4	33.6	49.8
				Mean	45.6	47.7	52.2	62.5	69.2	78.0	81.5	79.6	76.9	67.5	54.4	47.0	63.0
				Highest Mean Max.	63.2	62.2	67.5	83.7	89.5	97.6	96.7	95.5	95.1	90.0	73.6	67.3	----
				Highest Mean Min.	36.3	40.5	42.2	55.1	58.0	69.8	70.1	70.2	66.1	60.0	47.4	42.5	----
				Lowest Mean Max.	52.5	58.9	57.4	68.5	78.9	87.3	94.6	89.3	89.3	72.6	63.9	56.0	----
				Lowest Mean Min.	30.3	27.9	39.5	43.9	46.8	57.7	63.0	62.8	58.1	46.6	33.9	26.6	----
Window Rock	Apache	6,750	1937-1953	Mean Max.	42.7	46.5	52.5	63.6	72.6	82.7	86.9	84.1	78.3	67.7	51.0	45.4	64.5
				Mean Min.	14.5	17.5	22.3	28.7	35.6	43.3	52.3	51.2	42.9	32.1	20.5	15.2	31.3
				Mean	28.6	32.0	37.4	46.2	54.1	63.0	69.6	67.6	60.6	49.9	35.8	30.3	47.9
				Highest Mean Max.	48.9	54.0	57.8	69.5	79.4	87.7	90.0	88.4	83.4	76.5	64.6	53.9	----
				Highest Mean Min.	19.7	24.5	25.0	33.2	38.9	47.7	55.4	54.4	47.8	34.8	24.6	22.3	----
				Lowest Mean Max.	35.1	37.6	44.8	53.4	65.7	75.9	82.5	80.6	73.5	61.8	46.7	33.8	----
				Lowest Mean Min.	5.5	7.7	17.5	21.8	31.3	36.9	46.8	46.6	39.1	29.5	14.3	8.0	----
Winslow	Navajo	4,880	1898-1953	Mean Max.	45.8	54.0	61.7	70.3	88.0	90.3	93.2	90.4	84.9	73.0	58.3	47.1	71.4
				Mean Min.	18.7	21.6	29.6	37.1	44.2	52.6	61.6	59.9	52.2	39.4	26.3	20.5	38.9
				Mean	32.2	39.3	45.6	53.7	66.1	71.4	77.4	75.2	68.6	56.2	42.3	33.8	55.2
				Highest Mean Max.	56.9	61.8	71.6	78.3	88.7	95.5	98.5	93.5	90.5	80.3	66.4	58.4	----
				Highest Mean Min.	27.9	32.2	34.3	41.7	50.9	57.9	64.8	63.9	57.1	45.4	31.8	28.0	----
				Lowest Mean Max.	25.7	42.5	53.0	60.9	72.6	84.4	90.0	85.9	79.4	67.0	46.5	32.4	----
				Lowest Mean Min.	7.8	17.9	20.9	33.1	34.6	46.7	58.2	55.1	48.6	32.9	18.9	6.5	----
Wittman	Maricopa	1,540	1930-1948	Mean Max.	59.5	63.6	69.8	82.4	91.2	100.7	105.3	102.3	92.3	86.1	73.7	65.7	82.7
				Mean Min.	33.8	39.5	40.6	50.1	57.8	66.7	76.4	75.4	68.5	55.4	42.7	38.2	53.8
				Mean	46.6	51.6	55.2	66.2	74.5	83.7	90.8	88.8	80.4	70.8	58.2	52.0	68.2
				Highest Mean Max.	68.5	76.2	85.5	89.0	97.6	104.8	108.2	105.5	101.1	91.6	79.1	71.5	----
				Highest Mean Min.	41.0	45.6	50.1	56.2	64.2	72.1	80.6	77.9	72.2	60.6	47.5	42.0	----
				Lowest Mean Max.	51.3	58.2	68.0	72.9	83.7	94.6	102.3	98.4	92.5	79.3	65.3	59.1	----
				Lowest Mean Min.	28.0	32.5	37.6	44.8	51.9	61.9	72.9	71.1	61.9	51.2	36.7	34.8	----
Wupatki	Coconino	4,908	1939-1953	Mean Max.	46.8	53.2	61.1	71.4	80.9	90.4	94.4	91.1	85.6	72.9	56.9	47.3	71.0
				Mean Min.	25.2	28.6	33.8	42.4	50.4	58.2	66.4	62.5	52.5	45.2	32.3	26.4	43.6
				Mean	36.0	40.9	47.4	56.9	65.6	74.3	80.4	76.8	69.1	59.1	44.6	36.8	57.3
				Highest Mean Max.	55.5	58.4	65.7	76.5	84.2	93.9	98.2	92.6	89.8	81.9	63.8	54.9	----
				Highest Mean Min.	31.8	35.2	37.2	46.7	54.4	62.8	69.1	66.1	59.6	50.9	36.0	30.8	----
				Lowest Mean Max.	34.0	44.2	54.5	61.2	75.4	85.4	90.9	88.6	80.5	66.0	49.2	44.1	----
				Lowest Mean Min.	16.3	19.8	29.0	38.2	43.9	54.9	62.6	58.6	51.6	42.4	26.8	21.4	----
Yuma City	Yuma	138	1878-1949	Mean Max.	66.8	71.8	78.3	86.0	93.0	101.8	105.9	104.4	100.0	88.4	76.0	67.4	86.6
				Mean Min.	42.2	45.7	49.7	54.4	60.3	67.8	76.7	76.7	69.7	58.1	48.4	43.3	57.8
				Mean	54.5	58.8	64.0	70.2	76.6	84.8	91.3	90.6	84.8	73.2	62.2	55.4	72.2
				Highest Mean Max.	74.3	78.1	90.2	92.8	99.1	106.5	110.3	108.6	104.7	94.9	83.5	74.7	----
				Highest Mean Min.	48.0	52.1	56.0	59.3	65.3	74.8	81.4	80.1	75.7	64.1	54.4	50.2	----
				Lowest Mean Max.	55.9	64.7	70.3	78.7	86.2	95.5	101.9	100.5	94.6	80.9	69.7	60.9	----
				Lowest Mean Min.	33.9	37.5	44.8	49.8	54.8	61.9	71.9	69.5	63.9	50.9	43.8	34.6	----
Yuma Airport	Yuma	199	1946-1953	Mean Max.	67.5	73.8	78.6	88.3	94.8	102.8	107.6	107.2	104.1	92.2	78.0	69.1	88.7
				Mean Min.	41.8	45.2	49.7	58.3	66.0	71.1	81.6	79.9	74.8	62.2	50.2	43.6	59.5
				Mean	54.6	59.5	64.2	73.3	75.4	87.0	94.6	93.6	89.4	77.2	64.1	56.4	74.1
				Highest Mean Max.	75.5	78.3	82.6	91.4	100.5	106.5	109.7	109.9	106.5	100.0	85.8	70.0	----
				Highest Mean Min.	47.4	49.9	53.2	61.4	67.7	74.2	82.5	83.2	79.1	65.7	55.0	47.5	----
				Lowest Mean Max.	56.5	68.6	73.1	84.6	93.2	101.4	104.7	104.8	101.2	85.1	72.6	64.8	----
				Lowest Mean Min.	37.0	41.9	47.3	55.1	58.4	68.8	78.8	77.3	70.0	58.3	47.2	41.1	----

Table 15. Comparative Weather Data — Miami, Florida, and Mohawk, Arizona

Mean Temperatures						Extreme Temperatures				Precipitation	
January Av. Degree F.		July Av. Degree F.		Annual Av. Degree F.		Maximum Degree F.		Minimum Degree F.		Inches	
Moh'wk	Miami	Moh'wk	Miami	Moh'wk	Miami	Moh'wk	Miami	Moh'wk	Miami	Moh'wk	Miami
54.3	68.0	94.6	81.7	75	74	126	96	16	27	4.03	59.18

Table 16. Comparative Daily Temperature Range of Arizona Cities Compared to Some Other Cities in the United States

CITY	STATE	JANUARY	JUNE
Clifton	Arizona	27.3	30.4
Flagstaff	Arizona	27.3	30.4
Phoenix	Arizona	25.8	32.2
Tucson (U. of A.)	Arizona	31.1	35.3
Yuma	Arizona	24.5	33.7
Boston	Massachusetts	15.8	17.5
Brawley	California	32.2	36.5
Chicago	Illinois	13.5	15.1
Denver	Colorado	25.3	27.5
El Paso	Texas	25.5	28.3
Galveston	Texas	11.2	9.0
Kansas City	Missouri	16.5	18.1
Los Angeles	California	19.5	20.8
San Francisco	California	10.2	13.9
Savannah	Georgia	17.0	16.5

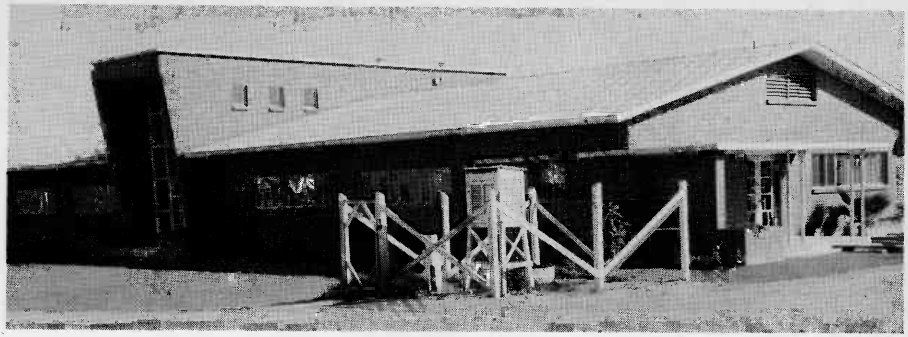
Because of the clear skies in Arizona, temperature ranges are much greater than in those parts of the country which have more clouds. This explains the wide range between daily high and low temperatures — a condition differing from that at stations in most other parts of the United States. (16)

In comparing the temperature ranges found in other U. S. cities, little difference is noted between the warmer and cooler groups during January. However, in the group of cities having mean annual temperatures above 55°, the summer daily temperature range is about 4° greater in summer than in winter. Generally speaking, the national daily temperature range is less in coastal cities than in those farther inland, since nearby large bodies of water tend to even the temperatures on adjoining land areas.

Length of Growing Season

The discrepancies in reporting the length of the growing season have already been pointed out. Even though the first 32° reading in the fall and the last 32° temperature in the spring have been used arbitrarily in this bulletin in determining length of growing seasons, it still has value in establishing length of frost-free periods at the various weather stations.

The dates of killing frosts and the duration of frost-free periods are related quite directly to altitude and latitude, although exposure of the weather station is also important. Figure 4 shows the relationship between elevation and length of growing season for representative Arizona locations. The length of the growing season is reduced by about 30 days for each increase of 1,000 feet in elevation. Locally, differences in exposure and air drainage may materially change this figure.



View of the research center at the University of Arizona's Experiment Farm at Mesa, Ariz., showing the weather station in the foreground. Note the instrument shelter — appearing as a small latticework building on stilts — and on the ground level is the evaporation tank. This weather station has been in continuous operation since it was established in 1916, a period of 40 years. David C. Aepli, branch station superintendent, is weather observer at Mesa.

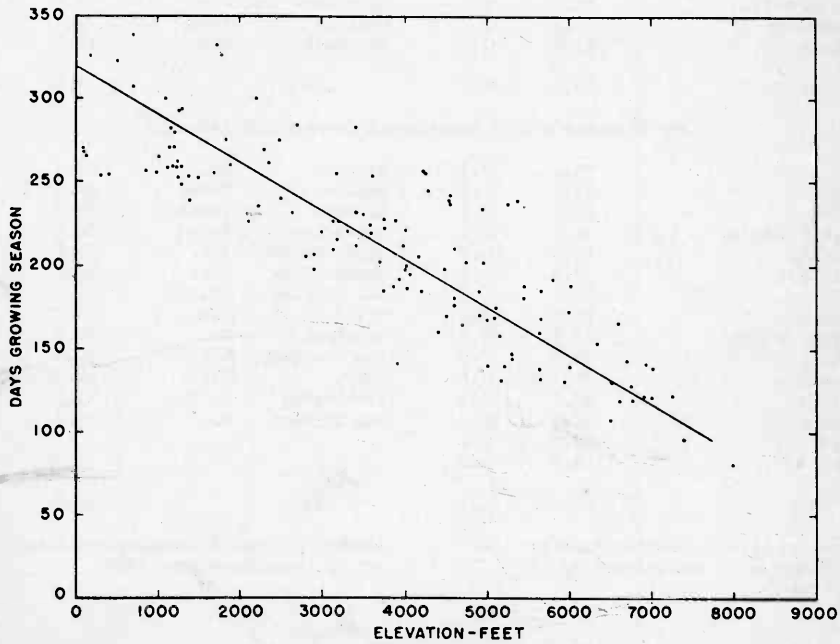


Figure 4. — Relationship between elevation and length of growing season.

Data for the University of Arizona are given in Table 18, for Phoenix in Table 19, and for the University of Arizona Agricultural Experiment Farms in Table 20.

Frost data for all active cooperative weather stations in Arizona are given in Table 21, except for Tucson and Phoenix.

TABLE 17 — COMPARATIVE DAILY TEMPERATURE RANGE AT SELECTED CITIES IN THE UNITED STATES

For Stations with a Mean Annual Temperature Below 55°

In Arizona*			In Other United States Cities*			
STATION	JAN.	JUNE	STATION	STATE	JAN.	JUNE
Alpine	35.8	42.4	Bismark	N. Dak.	22.1	24.3
Ashfork	30.5	40.0	Boise	Mont.	14.7	27.6
Flagstaff	27.0	35.7	Boston	Mass.	14.9	17.5
Grand Canyon	23.4	34.5	Buffalo	N. Y.	13.9	21.0
Heber	32.1	40.2	Chicago	Ill.	15.6	21.2
Holbrook	29.8	39.8	Denver	Col.	26.1	28.4
Mc Nary	27.5	39.5	Des Moines	Iowa	26.8	19.3
Payson	33.2	42.7	Detroit	Mich.	13.8	20.5
Pinedale	28.5	40.2	Green Bay	Wis.	17.5	19.3
Prescott	30.7	39.5	Helena	Mont.	20.2	25.6
Seligman	31.0	42.3	New York City	N. Y.	14.1	15.9
Springerville	34.0	36.6	Salt Lake City	Utah	15.5	26.5
Wickenburg	32.1	39.7	Seattle	Wash.	9.0	16.8
Winslow	27.1	37.7	St. Paul	Minn.	17.0	20.8
AVG.	30.2	39.2	AVG.		17.2	21.7

For Stations with a Mean Annual Temperature Above 55°

Ajo	23.6	29.1	Atlanta	Ga.	17.4	21.1
Bisbee	23.2	27.9	Dallas	Texas	19.3	19.2
Clifton	25.1	32.1	El Paso	Texas	24.7	27.3
Douglas Smelter	32.0	36.4	Galveston	Texas	10.6	8.2
Florence	29.9	40.2	Jacksonville	Fla.	17.2	16.2
Gila Bend	32.2	40.1	Kansas City	Kan.	18.0	14.6
Globe	25.9	36.8	Los Angeles	Calif.	19.2	18.8
Kingman	25.0	35.9	Miami	Fla.	11.8	10.2
Natural Bridge	22.8	28.2	Savannah	Ga.	20.2	19.3
Parker	34.4	37.8	San Francisco	Calif.	10.6	12.3
Phoenix	30.3	35.8	Tampa	Fla.	18.7	17.0
Sacaton	31.7	38.5	Washington	D. C.	15.1	19.6
Safford	31.5	39.4	New Orleans	La.	15.2	17.4
Tucson	29.9	35.2				
Yuma	24.6	34.0				
AVG.	26.5	35.2	AVG.		16.8	17.0

*Based on Arizona Station Records Compiled at the University of Arizona.

*Based on Local Climatological Data U. S. Weather Bureau 1953.

TABLE 18 — DATES OF KILLING FROST IN SPRING AND FALL AND LENGTH OF GROWING SEASONS

UNIVERSITY OF ARIZONA 1890 – 1954

YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON	YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON
1890	Mar. 12	Dec. 30	293	1922	Apr. 10	Oct. 31	204
91	Mar. 8	Dec. 7	274	23	Mar. 23	Nov. 28	250
92	-	-	-	24	Apr. 17	Nov. 7	207
93	Jan. 18	Nov. 20	306	25	Apr. 2	Nov. 7	219
94	Mar. 4	Dec. 11	281	26	Mar. 30	Nov. 15	229
95	Mar. 31	Nov. 15	228	17	Mar. 22	Dec. 1	254
96	Apr. 18	Nov. 27	223	18	Mar. 16	Nov. 1	230
97	Apr. 3	Oct. 28	208	29	Mar. 26	Oct. 30	218
98	Mar. 28	Nov. 12	229	1930	Mar. 1	Nov. 9	263
99	Mar. 19	Dec. 5	261	31	Mar. 27	Nov. 20	237
1900	Feb. 24	Oct. 30	249	32	Mar. 5	Nov. 23	263
01	Apr. 5	Dec. 8	247	33	Mar. 6	Nov. 6	245
02	Mar. 4	Nov. 28	269	34	Apr. 4	Nov. 21	231
03	Mar. 23	Dec. 4	256	35	Mar. 11	Nov. 4	238
04	Mar. 26	Dec. 13	262	36	Apr. 6	Nov. 3	211
05	Feb. 14	Nov. 29	288	37	Mar. 27	Dec. 19	267
06	Apr. 3	Oct. 22	202	38	Mar. 31	Nov. 13	227
07	Mar. 30	Nov. 22	237	39	Mar. 6	Dec. 23	292
08	Mar. 23	Oct. 19	210	1940	Mar. 13	Nov. 11	243
09	Apr. 7	Nov. 11	218	41	Jan. 21	Nov. 20	303
1910	Mar. 27	Dec. 21	269	42	Apr. 24	Nov. 21	211
11	Feb. 20	Nov. 12	265	43	Feb. 12	Nov. 28	289
12	Mar. 12	Oct. 29	231	44	Mar. 30	Nov. 25	240
13	Mar. 27	Dec. 5	253	45	Apr. 4	Nov. 9	219
14	Feb. 28	Dec. 7	282	46	Feb. 27	Nov. 3	249
15	Mar. 7	Nov. 11	249	47	Jan. 31	Nov. 7	280
16	Mar. 25	Nov. 8	228	48	Mar. 22	Nov. 9	231
17	Apr. 2	Nov. 29	241	49	Feb. 16	Dec. 12	266
18	Feb. 21	Nov. 8	260	1950	Feb. 14	Dec. 28	217
19	Mar. 10	Nov. 9	244	51	Mar. 19	Dec. 8	264
1920	Mar. 29	Nov. 26	242	52	Mar. 22	Nov. 25	248
21	Feb. 17	Nov. 19	275	53	Mar. 4	Nov. 19	260
				54	Feb. 20	Nov. 18	271
				Extremes	Jan. 18	Oct. 19	202
				1890-1954	Apr. 24	Dec. 30	306
				Average	Mar. 15	Nov. 20	250

The average date for the last spring frost at the University of Arizona is March 15, and the average date of the first fall frost is November 20. If the spring frost dates are plotted on a frequency distribution curve, the period of greatest frequency is March 25 to April 1 (Figure 5). The period in which the first fall frosts occur is less definite. First frosts in the fall have occurred with greatest frequency from November 5 to 9, with the second and third frequencies occurring during the periods November 20 to 24 and 25 to 29. Variability of dates of first fall frosts is shown in Figure 5.

As contrasted with Tucson, which has 250 frost-free days, Phoenix averages 304 frost-free days. Normally, Phoenix has a frost-free period extending from February 6 to December 7.

Frost experience for the various university farms is given in Table 21. The farm having the longest frost-free period is the Yuma Citrus station with 320 days, and the farm with the shortest growing season is Safford with 195 days. The Yuma Citrus Station is located less than a mile from the Yuma Valley Farm, yet the frost-free periods are 320 and 280 days respectively. The Citrus Station is on the mesa, 81 feet above the valley farm.

Alpine, Bright Angel Ranger Station, and Fort Valley are the only three stations in the state which have reported frost every month of the year. Their frost-free periods average 84, 94, and 101 days respectively.

The Bartlett Dam cooperative weather station has reported a frost-free period of 343 days for the relatively short period, 1941-1947. This is the longest frost-free period of any reported for the entire state and exceeds the records of Ajo and Inner Canyon by a week or more, Yuma Citrus Station by more than three weeks, and Roosevelt and Sentinel by about five weeks.

TABLE 19 — DATES OF KILLING FROST IN SPRING AND FALL AND LENGTH OF GROWING SEASON, PHOENIX 1896 - 1953

YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN THE AUTUMN	GROWING SEASON IN DAYS
1896	Feb. 9	Nov. 28	293
1897	Mar. 31	Nov. 9	223
1898	Mar. 23	Nov. 13	235
1899	Mar. 11	Dec. 11	275
1900	Feb. 9	Dec. 23	317
1901	Jan. 12	Dec. 13	335
1902	Feb. 1	Nov. 28	300
1903	Feb. 18	Dec. 23	308
1904	Jan. 31	Dec. 27	331
1905	Feb. 14	Dec. 2	291
1906	Mar. 2	Nov. 20	263
1907	Jan. 20	Dec. 19	333
1908	Feb. 15	Dec. 1	290
1909	Feb. 10	Nov. 16	279
1910	Feb. 18	Dec. 23	308
1911	Feb. 17	Nov. 26	282
1912	Jan. 29	Dec. 19	325
1913	Mar. 1	Dec. 5	279
1914	Feb. 7	Dec. 8	304
1915	Mar. 3	Nov. 13	255
1916	Feb. 2	Nov. 13	285
1917	Mar. 4	Dec. 8	279
1918	Feb. 20	Nov. 8	261
1919	Mar. 1	Nov. 29	273
1920	Jan. 12	Dec. 13	336
1921	Feb. 8	Nov. 19	284
1922	Feb. 5	Nov. 5	273
1923	Feb. 6	Dec. 12	309
1924	Jan. 20	Dec. 19	334
1925	Jan. 18	Dec. 4	320
1926	Jan. 29	Dec. 15	320
1927	Jan. 1	Dec. 8	341
1928	Jan. 26	Dec. 19	328
1929	Feb. 10	Nov. 26	289
1930	Jan. 23	Nov. 20	301
1931	Jan. 20	Nov. 23	307
1932	Feb. 4	Dec. 16	316
1933	Feb. 20	Dec. 17	300
1934	None	Nov. 30	333
1935	Jan. 22	Dec. 16	328
1936	Jan. 21	None	345
1937	Feb. 9	None	325
1938	Jan. 25	Nov. 13	292
1939	Feb. 10	Dec. 27	320
1940	Jan. 14	Dec. 15	336
1941	None	Nov. 20	323
1942	Feb. 15	None	320
1943	Jan. 19	Dec. 2	317
1944	Jan. 16	Nov. 26	315
1945	Jan. 21	Dec. 10	323
1946	Feb. 14	Dec. 29	318
1947	Jan. 30	Dec. 11	315
1948	Feb. 13	Dec. 5	296
1949	Feb. 1	Dec. 12	
1950	Jan. 7	None	
1951	Jan. 13	Dec. 8	
1952	Feb. 19	None	
1953	Feb. 21	Nov. 21	
Avg. 1896-1953	Feb. 6	Dec. 7	304

TABLE 20 - DATES OF KILLING FROST IN SPRING AND FALL AND LENGTH OF GROWING SEASON
ARIZONA EXPERIMENT STATION FARMS

SAFFORD EXPERIMENTAL FARM 1948-54

YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON
1948	Mar. 23	Nov. 5	227
49	Apr. 2	Oct. 10	191
50	May 5	Nov. 7	186
51	Apr. 12	Oct. 23	194
52	Mar. 26	Nov. 5	224
53	May 10	Oct. 21	164
54	May 2	Oct. 26	177
Extremes 1948-54	Mar. 23- May 10	Oct. 10- Nov. 7	164- 227
Avg. 1948-54	Apr. 15	Oct. 27	195

TUCSON CAMPBELL AVE. FARM 1949-54

YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON
1948			
49	Apr. 13	Nov. 19	220
50	Mar. 24	Nov. 18	239
51	Mar. 20	Nov. 26	251
52	May 5	Nov. 11	190
53	Mar. 30	Oct. 10	194
54	Mar. 14	Nov. 18	
Extremes 1949-54	Mar. 24- May 5	Oct. 10- Nov. 26	190- 251
Avg. 1949-54	Apr. 2	Nov. 12	224

YUMA VALLEY EXPERIMENTAL FARM 1930-54

1930		Nov. 20	
31	Mar. 2	Nov. 20	255
32	Feb. 5	Dec. 17	316
33	Feb. 23	Nov. 7	257
34	Feb. 10	Nov. 22	286
35	Mar. 21	Nov. 4	228
36	Mar. 27	Nov. 5	223
37	Feb. 28	Dec. 22	297
38	Jan. 30	Nov. 8	282
39	Mar. 11	Dec. 26	290
1940	Mar. 15	Nov. 11	241
41	Jan. 21	Nov. 22	305
42	Jan. 3	Dec. 10	341
43	Feb. 11	Nov. 28	290
44	Feb. 20	Nov. 26	279
45	Feb. 27	Dec. 3	279
46	Feb. 14	Dec. 9	298
47	Jan. 19	Dec. 9	324
48	Mar. 12	Nov. 28	261
49	Feb. 16	Dec. 11	298
1950	Mar. 3	Nov. 12	254
51	Mar. 4	Dec. 8	279
52	Feb. 15	Nov. 25	283
53	Feb. 24	Nov. 19	268
54	Feb. 13		
Extremes 1930-54	Jan. 3- Mar. 21	Nov. 4- Dec. 26	223- 341
Avg. 1931-54	Feb. 20	Nov. 26	280

SALT RIVER VALLEY CITRUS EXPERIMENT STATION TEMPE 1944-54

1944	Mar. 29	Nov. 14	230
45	Apr. 4	Nov. 9	219
46	Feb. 14	Dec. 20	309
47	Jan. 31	Dec. 11	314
48	Mar. 1	Nov. 9	253
49	Mar. 30	Dec. 11	256
1950	Mar. 13	Dec. 30	292
51	Mar. 5	Nov. 27	267
52	Mar. 24	Nov. 25	246
53	Mar. 4	Nov. 19	260
54	Mar. 18	Dec. 12	269
Extremes 1944-54	Jan. 31- Apr. 4	Nov. 9- Dec. 30	219- 314
Avg. 1944-54	Mar. 11	Dec. 1	265

TABLE 20 — (Continued)

DATES OF KILLING FROSTS IN SPRING AND FALL AND LENGTH OF GROWING SEASONS
UNIVERSITY OF ARIZONA EXPERIMENT FARMS

MESA EXPERIMENTAL FARM 1917-54				YUMA CITRUS EXPERIMENTAL FARM 1920-54			
YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON	YEAR	LAST KILLING FROST IN SPRING	FIRST KILLING FROST IN FALL	LENGTH OF GROWING SEASON
1917	Mar. 24	Oct. 30	220				
18	Feb. 17	Nov. 7	263				
19	Mar. 6	Nov. 9	248				
1920	Mar. 28	Nov. 26	243	1920		Dec. 13	
21	Feb. 18	Nov. 18	273	21	Jan. 12	None	354
22	Apr. 17	Nov. 4	201	22	Jan. 22	None	344
23	Apr. 23	Nov. 29	220	23	Feb. 11	None	324
24	Apr. 17	Nov. 7	204	24	Jan. 3	Dec. 18	350
25	Apr. 2	Nov. 5	217	25	Jan. 18	Nov. 16	302
26	Feb. 24	Dec. 22	301	26	Jan. 22	Dec. 25	337
27	Mar. 21	Dec. 7	261	27	Jan. 25	Dec. 9	318
28	Apr. 4	Nov. 17	227	28	Feb. 16	Dec. 15	302
29	Apr. 7	Nov. 13	220	29	Feb. 17	None	318
1930	Mar. 6	Nov. 18	257	1930	Jan. 9	Dec. 18	343
31	Mar. 26	Nov. 19	238	31	Jan. 16	Nov. 23	311
32	Mar. 5	Dec. 1	271	32	Feb. 4	Dec. 13	313
33	Apr. 29	Nov. 4	199	33	Feb. 12	Dec. 17	308
34	Jan. 25	Nov. 28	307	34	None	Dec. 3	336
35	Mar. 21	Oct. 31	224	35	Jan. 21	None	345
36	Mar. 23	Dec. 2	254	36	Jan. 2	Dec. 2	335
37	Feb. 9	Nov. 26	290	37	Feb. 27	None	308
38	Mar. 28	Nov. 6	223	38	Jan. 30	Nov. 13	280
39	Mar. 11	Dec. 21	285	39	Feb. 10	Dec. 26	319
1940	Feb. 19	Nov. 13	268	1940	None	None	366
41	None	Nov. 19	322	41	None	Dec. 25	358
42	Mar. 26	Dec. 10	259	42	Jan. 3	None	362
43	Feb. 12	Nov. 28	281	43	Jan. 20	None	345
44	Mar. 30	Nov. 25	240	44	Feb. 14	Dec. 31	320
45	Jan. 24	Dec. 8	318	45	None	Dec. 11	345
46	Feb. 9	Dec. 29	323	46	Feb. 13	Dec. 9	299
47	Jan. 31	Dec. 14	317	47	Jan. 19	Dec. 10	325
48	Mar. 26	Nov. 9	228	48	Mar. 6	Dec. 16	285
49	Mar. 30	Dec. 11	256	49	Feb. 26	Dec. 11	298
1950	Jan. 30	Dec. 5	309	1950	Feb. 2	None	333
51	Mar. 5	Dec. 6	276	51	Mar. 4	Dec. 21	292
52	Mar. 25	Nov. 25	245	52	Feb. 15	Nov. 25	284
53	Feb. 26	Nov. 19	266	53	Feb. 24	Nov. 19	268
54	Mar. 14	Dec. 11	272	54	Mar. 13	Dec. 24	286
Extremes	None-	Oct. 30-	199-	Extremes	None-	Nov. 13-	268-
1917-54	Apr. 23	Dec. 29	323	1920-54	Mar. 13	None	366
Avg. 1917-54	Mar. 12	Nov. 4	257	Avg. 1920-54	Jan. 30	Dec. 16	320

TABLE 21- DATES OF KILLING FROST IN SPRING AND AUTUMN AND LENGTH OF GROWING SEASON

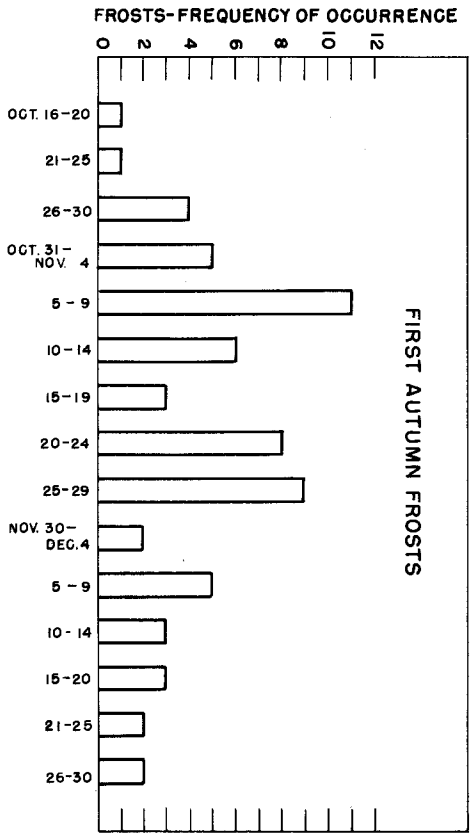
General Arizona Data

STATION	ELEVATION	YEARS OF RECORD	AVG. DATE OF LAST SPRING FROST	AVG. DATE OF FIRST AUTUMN FROST	AVG. LENGTH OF GROWING SEASON	DATE OF LAST KILLING FROST IN SPRING	DATE OF FIRST KILLING FROST IN AUTUMN
Aguila	2,280	1928-45	Mar. 19	Nov. 25	251	Apr. 29	Oct. 13
Ajo	1,763	1914-46	Jan. 19	Dec. 21	336	Mar. 13	Nov. 11
Alpine	8,000	1912-47	June 21	Sept. 13	84	July 27	Aug. 18
Anvil Ranch	2,750	1943-46	Mar. 8	Nov. 10	247	Apr. 4	Oct. 24
Apache Powder Co.	3,690	1923-40 1945-47	Apr. 13	Nov. 3	204	Apr. 11	Oct. 7
Ashfork	5,140	1902-03 1915-53	May 10	Oct. 16	159	June 17	Sept. 23
Bagdad (2NE)	3,200	1925-47	Mar. 27	Nov. 16	234	May 18	Oct. 29
Bartlett Dam	1,650	1941-47	Jan. 29	Dec. 28	343	Feb. 17	Dec. 14
Benson	3,585	1899-42	Mar. 27	Nov. 8	226	May 11	Oct. 8
Betatakin	7,200	1939-46	May 10	Oct. 8	151	June 17	Sept. 24
Bisbee	5,350	1893-47	Mar. 25	Nov. 22	242	Apr. 24	Oct. 19
Bowie	3,756	1899-29	Mar. 26	Nov. 8	227	May 11	Sept. 29
Bright Angel R.S.	8,400	1925-47	June 11	Sept. 20	101	July 12	Aug. 6
Buckeye	888	1893-47	Mar. 9	Nov. 21	257	Apr. 20	Oct. 22
Camelback	1,250	1920-47	Feb. 15	Nov. 23	281	Mar. 31	Oct. 31
Canelo R.S	5,000	1910-23* 1924-47	May 1	Oct. 18	170	June 4	Sept. 24
Casa Grande	1,390	1903-47*	Mar. 7	Nov. 19	257	Apr. 10	Oct. 8
Casa Grande Ruins	1,419	1908-16 1931-47	Mar. 16	Nov. 15	244	Apr. 20	Oct. 17
Chandler Heights	1,213	1941-45	Mar. 9	Nov. 27	263	Mar. 30	Nov. 19
Childs	2,650	1915-47	Mar. 24	Nov. 15	236	Apr. 24	Oct. 8
Chinle	6,090	1909-27 1935-47	May 19	Oct. 6	140	June 30	Sept. 9
Chino Valley	4,673	1943-47	May 11	Oct. 18	160	June 5	Oct. 7
Cibecue	5,300	1927-47	May 9	Sept. 13	127	May 29	Sept. 21
Clifton	3,465	1909-47	Feb. 25	Aug. 19	275	Apr. 20	Nov. 4
Copper Mines T.P.	6,380	1939-47	Apr. 27	Oct. 23	179	May 20	Sept. 29
Cordes	3,773	1926-47	Apr. 10	Nov. 19	223	May 9	Oct. 30
Cortaro	2,283	1946-47	Feb. 10	Nov. 5	268	Feb. 19	Nov. 3
Cottonwood	3,320	1920-36	Mar. 24	Nov. 10	231	Apr. 21	Oct. 3
Crown King	6,000	1915-24 1925-38*	Apr. 29	Oct. 19	173	June 5	Sept. 26
Drake R.S.	4,650	1915-39	Apr. 28	Oct. 19	174	June 5	Sept. 22
Eagle Creek	5,100	1928-38	Apr. 17	Oct. 22	188	May 11	Oct. 6
Elgin	4,780	1922-38	Apr. 21	Oct. 7	164	June 5	Oct. 1
Fairbank	3,862	1922-40*	Apr. 21	Oct. 8	170	May 23	Oct. 2
Douglas Smelter	3,973	1914-51	Apr. 4	Nov. 6	216	May 11	Oct. 1
Flagstaff	6,993	1898-36	May 30	Sept. 28	120	June 18	Sept. 12
Florence	1,500	1908-47*	Mar. 8	Nov. 21	258	Apr. 16	Oct. 22
Ft. Valley	7,347	1909-47	June 17	Sept. 19	94	July 26	Aug. 19
Fredonia	5,000	1937-47	May 19	Oct. 12	146	June 17	Sept. 25
Ganado	6,350	1929-47	May 13	Sept. 21	131	June 18	Sept. 19
Gila Bend	737	1904-53	Feb. 21	Dec. 2	284	Apr. 18	Nov. 2
Globe	3,540	1905-45	Mar. 30	Nov. 13	228	May 12	Oct. 5
Goulds Ranch	1,195	1915-47	Feb. 20	Nov. 14	267	Apr. 10	Oct. 31
Grand Canyon	6,890	1904-47	May 19	Oct. 6	140	June 25	Sept. 16
Granite Reef Dam	1,325	1909-47	Feb. 15	Dec. 4	292	Apr. 10	Oct. 22
Holbrook	5,069	1903	Apr. 28	Oct. 19	174	June 4	Sept. 22
Horseshoe Dam	2,020		NO RECORD				
Irving	3,762		NO RECORD				
Inner Canyon	2,490	1935-48	Feb. 1	Dec. 29	331	Feb. 21	Dec. 18
Jeddito	6,700	1935-48	May 13	Oct. 16	156	Jan. 17	Sept. 27
Jerome	5,245	1897-43	Apr. 1	Nov. 20	233	Apr. 30	Oct. 18
Junipine	5,124	1935-45	Apr. 18	Oct. 26	191	May 17	Oct. 5
Kayenta	5,675	1915-42	Apr. 28	Oct. 13	168	June 1	Sept. 21
Keams Canyon	6,205	1894-95 1906-21 1929-34	May 16	Oct. 2	138	June 4	Sept. 13
Kingman	3,333	1901-45	Apr. 10	Nov. 9	213	June 4	Sept. 24
Lakeside	6,700	1911-32	May 27	Oct. 1	127	June 17	Sept. 12
Lee's Ferry	3,141	1916-38 1944-45	Mar. 24	Nov. 8	229	Apr. 21	Oct. 18
Leslie Canyon	4,461	1916-40	Apr. 9	Nov. 1	205	May 4	Oct. 8
Leupp	4,700	1914-25 1934-42	May 8	Oct. 19	164	May 31	Sept. 10
Litchfield Park	1,030	1917-45	Feb. 28	Nov. 24	269	Apr. 17	Nov. 1
Lukachukai	6,400		NO RECORD				
Marinette	1,150	1913-44	Mar. 4	Nov. 28	269	Apr. 20	Nov. 4
McNary	7,280	1933-45	June 3	Oct. 5	123	June 18	Sept. 23

TABLE 21 -- (Continued) — DATES OF KILLING FROST IN SPRING AND AUTUMN AND LENGTH OF GROWING SEASON

STATION	ELEVATION	YEARS OF RECORD	AVE. DATE OF LAST SPRING FROST	AVE. DATE OF FIRST AUTUMN FROST	AVE. LENGTH OF GROWING SEASON	DATE OF LAST KILLING FROST IN SPRING	DATE OF FIRST KILLING FROST IN AUTUMN
Miami	3,603	1914-45	Mar. 13	Nov. 25	257	Apr. 22	Nov. 3
Montezuma Castle	3,180	1869-86 1939-53	Apr. 4	Oct. 31	210	May 13	Oct. 13
Mormon Flats	1,715	1923-45	Feb. 1	Dec. 27	329	Apr. 19	Nov. 23
Mormon Lake	7,000	1917-43	June 4	Oct. 4	122	July 9	Sept. 11
Mt. Trumbull	5,600	1919-40	Apr. 27	Oct. 10	166	July 4	Sept. 16
Natural Bridge	4,607	1893-45	Apr. 14	Nov. 10	210	May 30	Oct. 3
Nogales	3,800	1899-53	Apr. 1	Nov. 16	229	May 19	Oct. 14
Oracle	4,600	1892-44	Mar. 23	Nov. 20	242	May 1	Oct. 9
Parker	425	1894-45	Mar. 2	Nov. 26	259	Apr. 12	Oct. 6
Patagonia	4,044	1921-38	Apr. 14	Oct. 26	195	June 1	Sept. 20
Payson	4,906	1909-45	May 25	Oct. 10	138	June 18	Sept. 22
Pearce	4,388	1944-51	Apr. 14	Nov. 1	201	May 10	Oct. 9
Petrified Forest	5,460	1931-45	Apr. 26	Oct. 23	180	May 18	Oct. 9
Phoenix Indian School	1,115	1929-34	Mar. 7	Nov. 21	259	Apr. 2	Nov. 6
Phoenix Airport	1,114	1933-45	Feb. 7	Nov. 28	294	Mar. 11	Nov. 5
Pinal Ranch	4,520	1895-40	May 1	Oct. 17	169	June 19	Sept. 25
Pinedale	6,500	1916-44	June 3	Oct. 10	129	June 29	Sept. 23
Pisinemo	1,900	1936-45	Feb. 27	Nov. 20	266	Mar. 22	Nov. 6
Poland Junction			NO	RECORD			
Prescott	5,354	1899-40	May 17	Oct. 8	144	May 30	Sept. 6
Redington	2,869		NO	RECORD			
Reno R.S.	2,350	1899-40	Mar. 29	Nov. 11	227	Mar. 31	Oct. 13
Roosevelt	2,200	1905-44	Feb. 7	Dec. 11	307	Apr. 22	Oct. 15
Ruby	3,975	1930-44	Mar. 17	Nov. 30	258	Apr. 30	Nov. 11
Rucker Canyon	5,600	1920-40	Apr. 24	Oct. 25	184	June 6	Oct. 2
Sacaton	1,280	1908-45	Mar. 11	Nov. 23	257	Apr. 11	Oct. 22
Safford	2,900	1898-45	Apr. 9	Nov. 2	207	May 7	Oct. 6
St. Johns	5,560	1901-45	May 6	Oct. 10	158	June 11	Sept. 13
Salome	1,700	1908-45	Mar. 11	Nov. 22	256	Apr. 17	Oct. 19
San Carlos	2,643	1940-45	Apr. 26	Nov. 2	190	May 16	Oct. 24
San Carlos Res.	2,532	1900-45	Mar. 19	Nov. 13	239	May 1	Oct. 11
San Rafael Ranch	4,741	1923-40	Apr. 12	Nov. 2	203	May 9	Oct. 1
San Simon	3,608	1898-16 1924-45	Apr. 6	Nov. 8	216	May 6	Oct. 12
Santa Rita Exp. Range	4,300	1916-47	Mar. 19	Nov. 24	250	May 10	Oct. 31
Seligman	5,219	1905-45	May 17	Oct. 7	142	June 18	Sept. 8
Sells	2,369	1917-25 1941-45	Mar. 2	Nov. 23	266	Mar. 22	Oct. 30
Sentinel	690	1899-17	Feb. 11	Dec. 15	307	Mar. 23	Nov. 14
Showlow	6,412	1893-25	June 4	Sept. 29	117	June 27	Sept. 8
Sierra Ancha	5,100	1935-45	Apr. 15	Nov. 11	210	May 3	Oct. 17
Snowflake	5,644	1897-40	May 24	Oct. 3	132	July 3	Sept. 6
Springerville	6,964	1911-45	May 27	Oct. 2	128	June 18	Sept. 12
Stevens Ranch	4,000	1892-97 1930-37	Apr. 8	Nov. 15	221	May 10	Oct. 21
Superior		1924-37	Apr. 5	Nov. 11	220	May 12	Oct. 11
Sycamore	4,000	1924-40	Apr. 17	Oct. 31	197	May 22	Oct. 6
Tempe	1,159	1926-45	Feb. 18	Nov. 25	280	Mar. 31	Oct. 31
Tombstone	4,540	1897-45	Mar. 27	Nov. 21	239	May 12	Oct. 21
Tonto Creek F.H.			NO	RECORD			
Tonto Springs R.S.	4,750	1914-40	May 8	Oct. 16	161	June 11	Sept. 23
Truxton Canyon	3,820	1910-42	Apr. 19	Nov. 4	199	May 12	Oct. 6
Tuba City	4,936	1897-45	Apr. 21	Oct. 18	179	May 19	Sept. 19
Tucson Mag. Obs.	2,526	1912-16 1934-45	Mar. 22	Nov. 19	241	Apr. 24	Oct. 31
Tucson Airport	2,558	1940-45	Mar. 3	Nov. 23	265	Apr. 4	Nov. 9
Tumacacori	3,267	1946-53	NO	RECORD			
Wallace R.S.	7,006	1916-19 1927-44	May 27	Oct. 8	133	June 28	Sept. 11
Walnut Creek	5,090	1916-40	May 22	Sept. 30	131	June 17	Sept. 10
Walnut Grove	3,764	1906-10 1917-39	Apr. 26	Oct. 27	184	May 30	Sept. 23
Wellton	260	1924-45	Mar. 7	Nov. 17	255	Apr. 8	Oct. 28
Whiteriver	5,280	1923-33 1940-45	May 2	Oct. 18	170	May 28	Oct. 2
Wickenburg	2,070	1908-45	Apr. 2	Nov. 15	226	May 1	Oct. 6
Willcox	4,200	1899-45	Apr. 27	Oct. 28	184	May 31	Oct. 2
Wikieup	2,125	1925-40	Mar. 29	Nov. 10	226	Mar. 18	Oct. 14
Williams	6,750	1897-45	June 4	Sept. 27	116	June 28	Sept. 8
Window Rock	6,750	1937-47	May 24	Sept. 10	109	June 20	Sept. 9
Winslow	4,880	1888-45*	Apr. 30	Oct. 20	173	June 2	Sept. 27
Wittman	1,540	1923-45	Feb. 25	Dec. 8	287	Mar. 31	Nov. 4
Wupatki	4,908	1939-43	Apr. 11	Nov. 14	217	Apr. 30	Nov. 1
Young	5,577	1903-07 1918-40	May 7	Oct. 15	161	June 17	Sept. 18

* Irregular



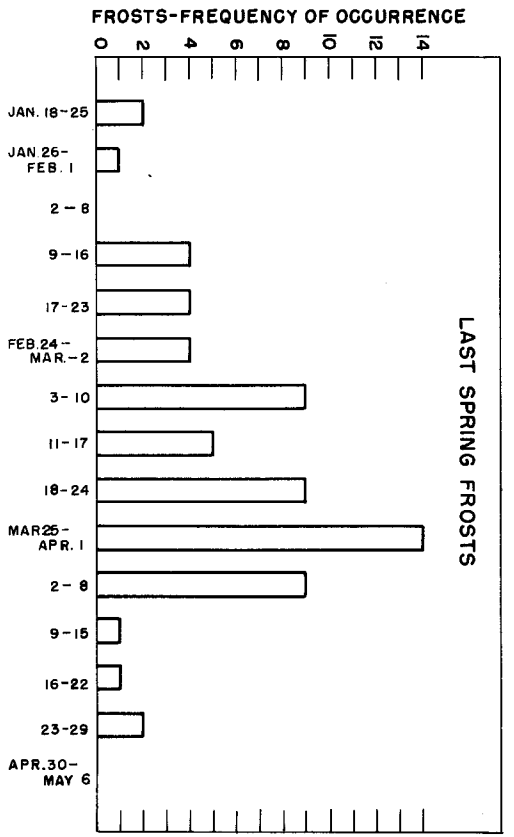


Figure 5. — Frequency of occurrence of first frosts in the autumn and last frosts in spring —University of Arizona.

At times, entire winter seasons have passed at some of these warmer stations without frost having been recorded.

Precipitation

Precipitation in Arizona varies with location and altitude, from 3 to 30 inches annually. In certain years the annual precipitation at some stations may exceed 40 inches. Precipitation in minimum areas approaches but does not quite meet records set at some other U. S. and world stations. (Table 22)

Although in a zone of low rainfall, certain high elevations frequently have more than 30 inches precipitation (Figure 6).[4] The average for the state is 12.55 inches per year. Prior to 1951 the Weather Bureau divided the state into two divisions, northern and southern. Formerly average precipitation for the state was obtained by averaging the precipitation from all stations in the state. Poor distribution of observing stations in some of the less densely populated portions of the state tended to give undue weight to the portion of the state where stations were closer together.

[4]Courtesy of Louis R. Jurwitz, U. S. Weather Bureau, Phoenix.

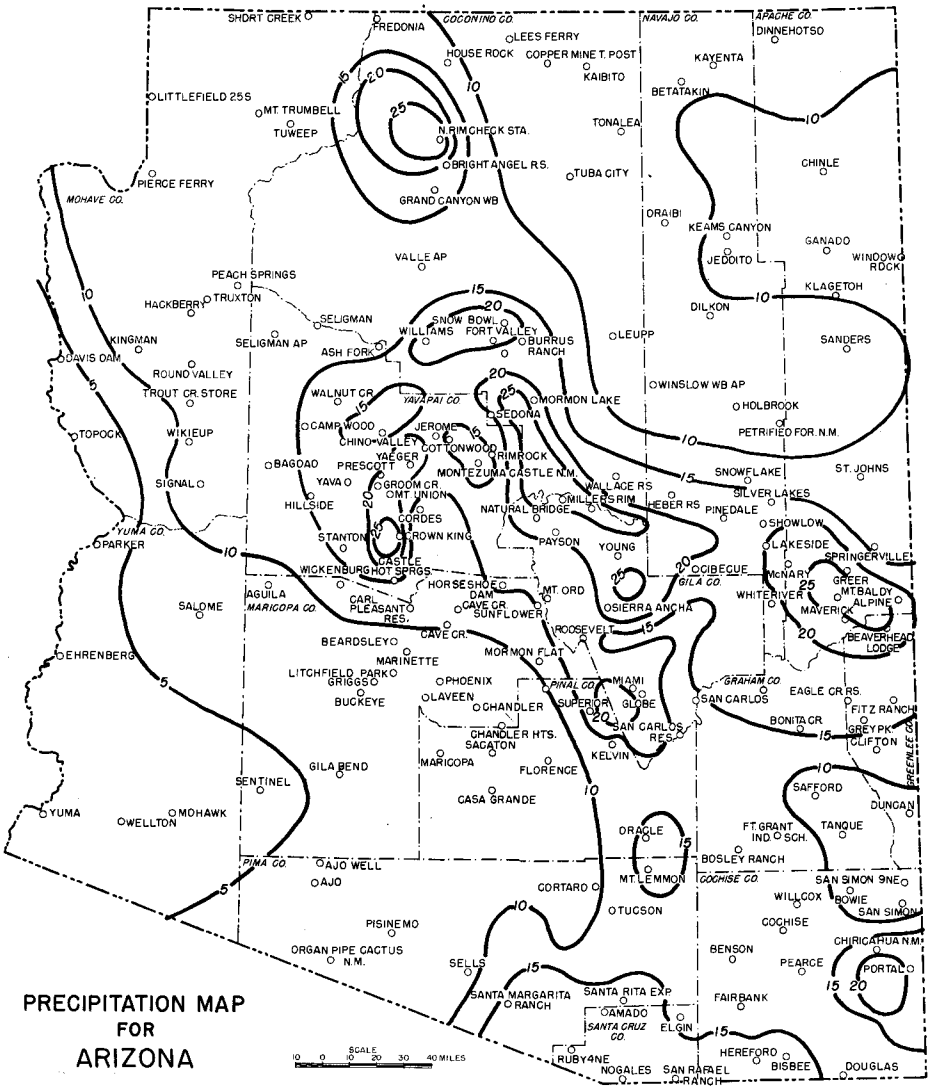


Figure 6. — Precipitation map of Arizona.

Table 22. Extreme Mean Annual Precipitation — Arizona, U. S., and World

	Lowest			Highest	
Arizona	Yuma Airport	2.16 in.	Arizona	Workman Creek I	31.84 in.
U. S.	Greenland Ranch Calif	1.73 in.	U. S.	Wynoochee, Wash.	150.73 in.
World	Kharga, Egypt	Trace	World	Waialeale, Hawaii	460.20 in.

TABLE 23 - RAINFALL RECORD FROM UNIVERSITY OF ARIZONA STATION, TUCSON, ARIZONA, 1891-1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1891	0.16	3.28	0.16	0.00	0.22	0.27	0.70	2.26	0.48	0.00	T	0.25	7.78
1892	1.52	2.63	0.98	0.18	0.17	0.10	1.00	2.14	0.37	0.27	T	0.25	9.61
1893	0.27	0.82	1.16	T	0.75	0.00	2.78	5.40	1.02	0.00	0.43	0.49	13.12
1894	0.11	1.04	1.17	T	0.05	T	1.60	1.01	T	0.46	0.00	1.70	7.14
1895	0.56	T	0.00	T	0.09	0.03	0.11	4.48	0.75	0.68	4.30	0.08	11.08
1896	0.53	0.08	0.27	0.12	T	0.19	3.45	1.25	1.13	3.31	0.30	0.76	11.39
1897	1.79	0.08	0.13	T	0.00	0.00	1.98	3.43	2.71	0.54	0.00	0.11	10.77
1898	1.10	0.00	0.63	1.05	0.00	0.20	3.22	3.94	0.10	0.00	0.85	1.63	12.72
1899	0.78	0.39	0.37	0.62	T	1.27	1.87	1.82	0.03	0.67	0.56	T	8.38
1900	0.16	0.49	0.54	1.12	T	0.17	0.65	0.95	0.85	0.41	2.45	T	7.79
1891-1900	0.70	0.88	0.54	0.31	0.13	0.22	1.74	2.67	0.74	0.63	0.89	0.53	9.98
1901	1.15	1.38	0.64	0.04	0.41	0.00	2.57	1.99	0.28	1.18	0.08	0.00	9.72
1902	0.53	T	0.45	T	T	0.19	0.42	1.31	0.58	1.64	1.34	2.15	8.61
1903	0.00	1.11	1.63	0.00	0.20	0.22	1.52	2.67	1.17	0.00	0.00	0.28	8.80
1904	0.20	0.54	0.06	0.00	0.61	0.18	1.75	2.65	0.89	0.04	T	0.93	7.85
1905	2.25	4.15	3.88	3.53	0.02	0.24	1.10	0.56	2.84	0.09	4.61	0.90	24.17
1906	0.50	0.33	0.33	0.50	T	0.00	1.82	2.53	0.43	T	0.74	4.57	11.75
1907	1.76	0.12	0.56	0.02	0.43	T	4.06	3.46	0.80	1.13	0.78	0.00	13.12
1908	0.76	1.98	0.39	0.10	0.16	T	4.77	2.18	0.55	0.26	0.17	2.62	13.94
1909	0.51	0.50	0.33	0.00	0.00	0.54	4.04	1.36	1.25	0.00	0.87	0.81	10.21
1910	1.17	T	0.10	0.08	T	0.12	4.21	2.55	0.30	0.04	1.32	0.06	9.95
1901-10	0.88	1.01	0.84	0.43	0.18	0.15	2.63	2.13	0.91	0.44	0.99	1.23	11.82
1911	1.31	0.99	0.25	0.27	0.00	0.07	1.57	2.06	2.65	1.23	T	0.85	11.25
1912	0.00	0.37	2.12	0.28	0.32	0.61	3.00	0.96	0.01	1.78	0.00	0.39	9.84
1913	0.80	1.86	0.12	0.70	T	0.08	1.32	1.21	0.14	0.22	1.98	0.89	9.32
1914	0.15	0.52	1.18	0.00	0.49	1.31	2.94	3.45	0.40	2.18	1.02	5.85	19.49
1915	1.33	1.68	0.76	0.35	0.15	0.14	2.39	1.51	0.92	0.00	0.22	2.35	11.80
1916	4.00	0.58	0.50	0.51	0.00	0.07	2.03	2.26	1.29	1.10	0.00	0.81	13.15
1917	1.92	0.44	0.15	0.28	0.82	0.00	3.90	2.31	0.88	T	0.00	0.00	10.70
1918	1.40	1.26	0.32	0.04	0.18	0.34	1.54	0.78	0.13	0.68	1.04	1.41	9.12
1919	0.26	0.87	0.63	1.10	0.82	0.32	5.53	1.82	2.54	0.35	3.13	0.64	18.01
1920	2.29	1.00	1.96	0.16	0.21	0.56	0.25	2.84	0.74	0.55	0.01	0.15	10.72
1911-20	1.35	0.96	0.80	0.37	0.30	0.35	2.45	1.92	0.97	0.81	0.74	1.33	12.35
1921	0.34	0.47	0.13	0.62	T	0.22	6.24	1.79	3.01	0.25	0.59	0.12	13.78
1922	1.20	0.20	1.36	0.76	0.15	0.44	1.73	1.18	1.73	0.22	0.32	0.10	9.39
1923	0.27	0.36	0.65	0.53	0.05	0.00	3.00	4.06	0.23	0.00	3.43	2.64	15.22
1924	0.01	T	1.65	0.50	T	0.17	1.15	0.08	0.19	0.16	0.61	0.64	5.16
1925	0.04	0.07	0.15	0.36	T	0.86	1.20	1.52	2.95	1.08	1.22	0.33	9.78
1926	0.64	0.67	1.60	1.42	0.60	0.01	0.70	0.10	2.82	1.36	0.34	1.89	12.15
1927	0.07	1.02	1.40	0.44	0.01	0.20	1.31	1.51	2.34	T	0.09	1.33	9.72
1928	0.00	0.83	0.00	0.03	0.09	0.09	1.78	2.28	0.36	0.08	0.44	0.52	6.50
1929	0.28	0.49	0.17	0.17	T	0.10	1.94	1.62	4.28	0.07	0.05	0.16	9.33

TABLE 23 --(Continued) RAINFALL RECORD FROM U. of A. STATION, TUCSON, ARIZ.,1891-1954 (INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1930	0.81	1.23	2.32	0.57	0.93	1.12	1.03	1.47	0.37	0.09	1.04	0.29	11.27
1921-30	0.37	0.53	0.94	0.54	0.18	0.32	2.01	1.56	1.83	0.33	0.81	0.80	10.22
1931	0.68	2.95	0.16	0.48	1.34	0.49	1.07	3.96	0.94	0.05	3.72	0.42	16.26
1932	0.74	1.27	0.40	0.32	T	0.16	2.58	1.61	0.23	1.62	0.00	2.01	10.94
1933	0.93	0.24	0.00	0.03	0.00	0.10	1.60	2.23	1.62	2.00	0.47	0.38	9.60
1934	0.50	0.30	0.39	0.03	0.05	0.14	1.16	2.41	1.07	T	0.50	2.04	8.59
1935	1.25	2.43	1.46	T	0.14	T	0.87	5.61	0.88	0.00	1.89	1.24	15.77
1936	0.96	0.92	0.55	0.07	T	0.06	2.82	3.03	1.51	0.34	1.13	0.85	12.24
1937	1.62	0.23	0.63	0.01	0.25	T	2.06	1.29	1.43	0.05	0.19	0.67	8.43
1938	0.65	0.88	0.43	0.08	0.11	2.07	0.78	2.37	0.50	0.00	0.09	0.93	8.89
1939	0.35	1.60	0.69	0.04	0.00	T	0.61	1.24	1.53	0.18	0.54	0.27	7.05
1940	0.45	1.42	0.04	0.21	0.52	1.14	0.84	2.84	2.72	0.13	1.62	2.82	14.75
1931-40	0.81	1.22	0.48	0.13	0.24	0.42	1.44	2.66	1.24	0.44	1.02	1.16	11.26
1941	1.64	2.00	1.01	0.98	0.61	T	1.46	3.40	1.45	0.75	0.31	2.02	15.63
1942	0.52	1.65	0.40	1.37	0.00	T	0.58	1.13	1.56	0.47	T	0.37	8.05
1943	0.45	0.33	0.82	T	0.14	0.05	1.50	2.71	3.04	0.13	0.00	0.74	9.91
1944	0.40	1.14	0.79	0.50	0.60	0.09	0.91	2.91	1.47	1.11	2.00	1.40	13.32
1945	0.65	0.41	0.62	0.08	0.00	0.00	1.22	2.95	0.12	1.42	0.00	0.16	7.63
1946	1.90	0.38	0.55	0.09	0.00	0.02	2.84	4.62	1.05	0.83	0.89	0.50	13.67
1947	0.09	0.06	0.46	T	0.02	0.02	0.50	1.31	1.26	0.83	0.73	0.44	5.72
1948	T	1.41	0.68	0.0	0.00	0.06	1.03	0.99	0.99	0.56	T	1.09	6.81
1949	1.44	0.17	0.46	0.41	0.00	0.02	1.65	0.61	0.48	0.63	0.12	1.05	7.04
1950	0.24	1.17	0.23	T	0.03	1.45	4.08	0.44	0.86	0.01	T	T	8.51
1941-50	0.73	0.87	0.60	0.34	0.14	0.17	1.58	2.11	1.23	0.67	0.40	0.78	9.63
1951	1.38	0.13	0.12	1.84	0.04	0.00	1.98	2.29	0.54	1.92	1.25	0.99	12.49
1952	0.21	0.00	2.08	1.94	T	0.22	1.19	1.66	0.11	0.00	2.53	0.62	10.62
1953	0.04	0.82	0.83	0.28	0.02	0.09	3.96	0.22	0.00	T	0.05	0.16	6.47
1954	0.62	0.43	1.58	0.00	0.25	1.42	3.07	1.44	2.38	T	0.00	0.17	11.36
AVG. 1891-54	0.79	0.88	0.73	0.39	0.19	0.28	2.01	2.12	1.13	0.55	0.82	0.94	10.83
AVG. 1921-50	0.64	0.88	0.67	0.34	0.19	0.30	1.67	2.11	1.43	0.48	0.74	0.91	10.36

TABLE 24. — RAINFALL RECORD FROM PHOENIX, ARIZONA 1896-1954 (INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
1896	0.46	0.05	0.39	0.05	T	T	4.25	1.77	1.18	1.02	0.64	0.67	10.48
1897	3.67	0.47	0.53	T	0.01	0.00	0.59	0.61	3.67	0.15	0.00	0.17	9.87
1898	1.63	T	0.03	0.18	0.01	0.08	0.24	1.03	0.04	0.00	1.01	1.70	5.95
1899	1.28	0.10	T	T	0.00	0.75	0.87	0.89	0.37	0.30	0.55	0.08	5.19
1900	0.11	0.04	0.22	1.12	0.12	0.00	1.70	0.01	0.12	0.22	1.73	0.00	5.39
1901	0.43	1.46	0.33	T	0.10	0.00	0.35	1.73	T	0.46	0.01	0.00	4.87
1902	0.79	0.10	0.46	T	T	0.12	0.32	0.56	1.46	T	2.01	1.06	6.88
1903	T	0.64	0.42	0.45	T	0.18	0.70	0.70	3.16	0.22	0.00	0.14	6.61
1904	0.11	0.26	0.12	0.00	T	T	1.89	1.61	1.23	T	0.00	0.35	5.57
1905	3.31	4.64	2.38	2.59	0.04	0.15	0.28	0.92	1.23	0.00	3.61	0.58	19.73
1906	0.35	0.99	0.67	0.48	T	T	0.20	2.07	T	T	1.20	2.59	8.55
1907	1.15	0.26	0.93	0.35	0.27	T	2.18	0.80	0.02	2.00	0.21	T	8.17
1908	0.35	1.87	0.41	0.90	0.03	0.00	2.98	0.81	0.51	0.52	0.36	1.94	10.68
1909	0.09	0.68	0.67	0.07	T	T	1.00	1.94	0.42	0.00	0.28	1.02	6.17
1910	0.50	T	0.61	0.29	T	T	0.65	0.14	T	0.18	1.61	0.34	4.32
AVG. 1910-10	0.71	1.10	0.70	0.51	0.04	0.04	1.06	1.13	0.80	0.34	0.93	0.80	8.16
1911	1.14	0.66	0.64	0.02	0.00	T	6.47	1.68	1.16	2.24	T	0.11	14.12
1912	0.00	0.00	1.96	0.52	0.58	0.01	1.29	0.72	0.14	0.82	0.00	0.83	6.87
1913	0.38	1.93	0.07	0.51	0.00	0.00	0.94	0.32	0.13	0.01	0.83	0.27	5.39
1914	0.30	0.71	0.92	0.10	T	0.05	0.21	0.30	T	2.30	1.00	3.09	8.98
1915	1.79	1.21	0.33	0.88	0.17	0.48	1.12	0.25	0.10	T	0.54	2.54	9.41
1916	2.34	0.13	0.37	0.15	T	0.00	0.77	0.30	1.66	0.63	0.00	0.39	6.76
1917	2.20	0.95	0.15	1.22	0.45	0.00	3.97	0.11	0.55	T	0.00	0.00	9.60
1918	1.14	0.45	0.93	0.02	T	0.08	1.02	3.47	0.39	0.52	1.92	1.16	11.10
1919	0.22	0.75	0.97	0.17	0.06	T	1.05	2.40	1.93	0.25	2.38	0.13	10.31
1920	1.42	1.46	1.35	0.00	0.42	T	0.25	0.75	0.10	0.46	T	T	6.21
AVG. 1911-20	1.09	0.82	0.77	0.36	0.17	0.06	1.71	1.03	0.62	0.72	0.67	0.85	8.88
1921	0.13	0.11	0.03	0.02	0.17	0.04	0.38	1.62	0.33	0.11	0.04	0.87	3.85
1922	1.29	0.42	0.99	0.24	0.26	T	0.74	0.57	0.13	T	1.04	0.28	5.96
1923	0.28	0.46	1.08	0.05	0.08	0.00	0.77	0.65	0.97	0.22	2.84	2.23	9.63
1924	0.00	T	0.99	0.22	0.01	T	0.09	0.14	0.12	0.30	T	1.16	3.03
1925	0.03	0.02	0.33	0.51	0.03	0.21	0.03	0.61	0.95	0.92	0.12	0.40	4.16
1926	1.00	0.10	1.63	3.36	0.18	T	1.31	0.11	3.52	0.07	0.01	2.68	13.97
1927	0.01	1.06	0.24	0.35	0.17	0.13	0.24	0.69	0.83	0.57	0.14	1.30	5.73
1928	T	1.33	0.13	T	0.03	0.00	0.11	1.47	0.44	1.51	0.16	1.01	6.19
1929	0.92	0.28	0.13	0.43	0.01	T	0.79	2.09	0.19	0.09	0.11	T	5.04
1930	1.69	0.19	1.77	0.20	1.31	0.16	0.68	0.86	0.51	0.16	0.51	T	8.04
AVG. 1924-30	0.54	0.40	0.73	0.54	0.22	0.05	0.51	0.88	0.80	0.40	0.50	0.99	6.56
1931	0.02	3.71	0.07	0.40	T	0.02	0.02	1.70	0.63	0.22	3.18	0.75	10.32
1932	0.10	2.12	0.05	0.05	0.00	0.23	0.11	0.10	0.34	1.73	0.00	1.84	6.67
1933	2.31	0.15	0.00	1.11	T	0.23	0.30	0.38	1.62	0.38	0.62	T	7.10
1934	0.40	0.99	0.10	0.07	0.10	0.03	0.11	1.07	0.66	0.00	0.63	1.71	5.87
1935	0.95	3.18	1.39	0.09	0.14	0.00	0.93	1.27	1.30	0.13	0.56	0.39	10.33
1936	0.80	1.01	0.50	0.14	T	T	2.49	0.32	0.43	0.13	0.35	2.12	8.29
1937	0.83	0.76	1.58	T	0.08	T	0.49	0.05	1.17	T	0.00	0.41	5.37
1938	0.52	0.55	0.89	T	T	0.28	0.25	1.11	T	T	T	1.14	4.74
1939	0.18	0.89	0.15	0.17	0.00	0.00	0.71	0.84	5.41	0.02	0.75	T	9.12
1940	0.04	0.61	T	0.09	0.01	T	0.66	0.48	1.43	1.30	0.11	3.75	8.48

TABLE 24.— (Continued) RAINFALL RECORD FROM PHOENIX, ARIZONA 1896—1954 (INCHES)

AVG. 1931-40	0.62	1.40	0.47	0.21	0.03	0.08	0.61	0.73	1.26	0.39	0.62	1.21	7.63
1941	1.04	1.78	4.82	2.12	0.76	T	1.39	0.44	1.79	0.50	1.26	1.36	17.26
1942	0.35	0.24	0.28	0.76	0.00	0.00	1.24	0.68	0.21	0.43	0.01	0.36	4.56
1943	0.73	0.07	0.73	0.14	T	0.01	0.25	4.92	0.97	0.17	0.00	1.89	9.88
1944	0.47	2.10	0.95	0.50	0.80	0.00	0.70	0.09	0.07	0.36	1.13	1.09	8.26
1945	0.99	0.12	0.82	T	0.00	0.00	0.93	0.41	T	0.69	0.00	0.31	4.27
1946	1.17	0.11	0.02	0.04	0.00	0.00	2.56	2.01	2.88	0.05	0.58	0.45	9.87
1947	0.03	0.10	T	T	0.38	0.00	0.13	1.21	0.39	0.06	0.60	0.32	3.22
1948	T	1.09	0.16	0.00	T	0.11	0.79	0.25	T	0.96	0.00	0.58	3.94
1949	1.61	0.08	0.38	0.18	0.17	0.14	0.36	0.41	0.89	0.80	0.30	0.92	6.24
1950	0.32	1.00	0.25	T	T	0.10	0.93	0.45	0.87	0.00	0.03	0.01	3.96
AVG. 1941-50	0.67	0.67	0.84	0.37	0.21	0.04	0.93	1.09	0.81	0.40	0.39	0.73	7.15
1951	1.56	0.12	0.20	1.58	0.21	T	1.30	5.33	0.33	0.80	0.84	0.55	12.82
1952	0.43	0.36	1.87	2.25	0.00	0.11	1.46	1.41	0.06	0.00	2.60	0.51	11.06
1953	0.22	0.45	0.62	0.02	0.11	0.00	0.74	0.53	0.00	T	0.04	0.12	2.85
1954	0.95	0.58	1.18	T	0.10	0.12	0.98	0.31	0.27	0.12	T	0.05	4.66
AVG. 1896-1954	0.79	0.78	0.68	0.43	0.12	0.06	1.02	1.02	0.83	0.42	0.65	0.84	7.66
1921-50	0.61	0.82	0.68	0.37	0.16	0.06	0.68	0.90	0.95	0.40	0.50	0.98	7.11

However, in 1951 the state was divided into seven divisions — northwest, northeast, north central, east central, southwest, south central, and southeast. State averages are now obtained by averaging the averages of each division. This gives a truer picture of precipitation in the entire state. (The state average figured through 1950 was 13.91 inches but when figured by the new procedure through 1951 it was 12.55 inches.) (16). The monthly distribution is as follows: January 0.99 inches, February 1.26, March 0.98, April 0.65, May 0.32, June 0.35, July 1.67, August 2.11, September 1.39, October 0.81, November 0.71, and December 1.31.

Contrary to popular opinion, true desert conditions prevail in only relatively small portions of the state. Reference to Figure 6 shows two areas which receive less than 10 inches of precipitation annually. The first and largest area is found in the western and southwestern part of the state. It is part of the Sonoran Desert. In the vicinity of Yuma, in the southwestern part of the area, the precipitation averages slightly more than three inches per year.

Further eastward precipitation increases with altitude. At Wellton it averages 4.29 inches, at Gila Bend 6.02 inches and at Phoenix 7.26 inches.

A short distance east of Phoenix the altitude increases sharply with a corresponding increase in precipitation. At Mormon Flat, for example, annual precipitation is 13.25 inches. There is thus a gradual transition from desert to semiarid in a short distance but with a sharp increase in elevation.

The second desert area is found in the northeastern part of the state. Arizona's famous "Painted Desert" occupies part of the area. Navajo and Hopi Indian Reservations cover most of the area. The northern desert area is on the Colorado Plateau. In this area the relationship between altitude and precipitation is not so direct as in other parts of the state. A good correlation exists between annual precipitation and altitude at the lower elevations but there is a less positive

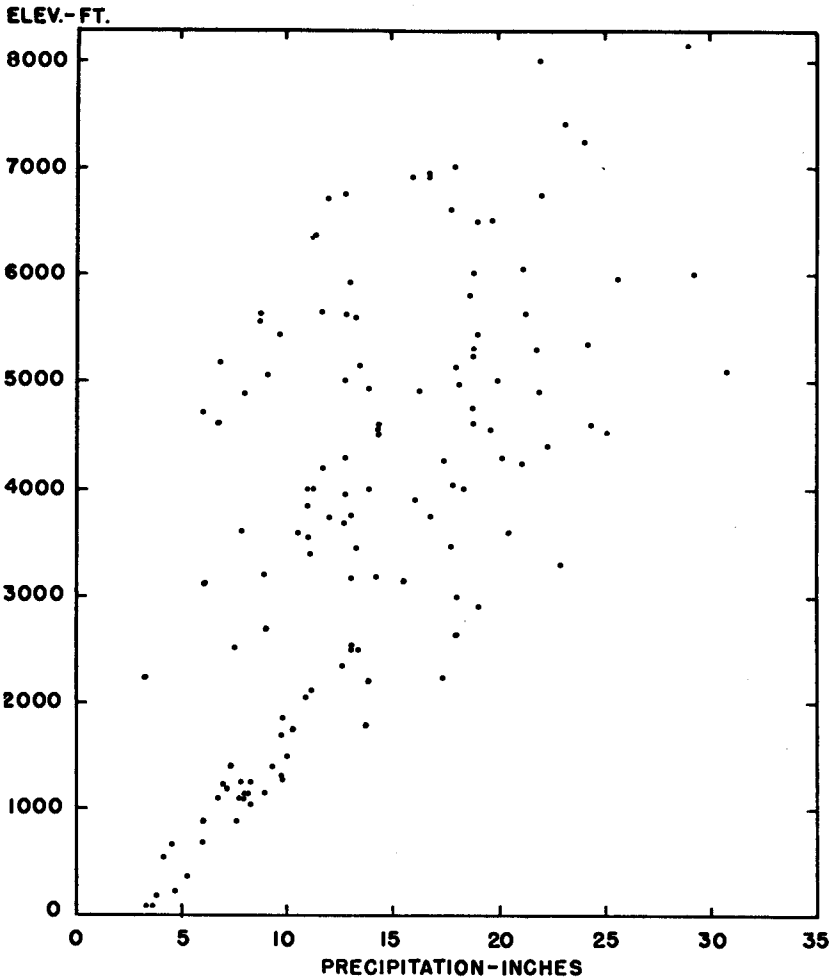


Figure 7. — Correlation between rainfall and elevation at all Arizona stations.

correlation at the higher elevations (Figure 7). In most locations distribution of precipitation depends upon exposure, characteristics of the prevailing winds and distance from mountains.

The Yuma precipitation measuring stations are located in a portion of the state having very low altitudes. The elevation above sea level is only slightly over 100 feet. It is at a group of weather stations in that vicinity that the state's lowest precipitation is measured. By contrast, the station of greatest elevation is at Greer. This station is now inactive. The precipitation at this station is 22.36 inches per year. Its elevation is 8,500 feet. While this is not the greatest mean annual precipitation reported in the state, it does show the relationship between altitude and precipitation. Several stations, such as Crown King, Bright Angel Ranger Station, Henry's Camp, Junipine, Mt. Lemmon, Natural Bridge, Pinal Ranch, Sierra Ancha, Tonto Creek Fish Hatchery and others frequently report annual precipitations of 25 to 30 inches.

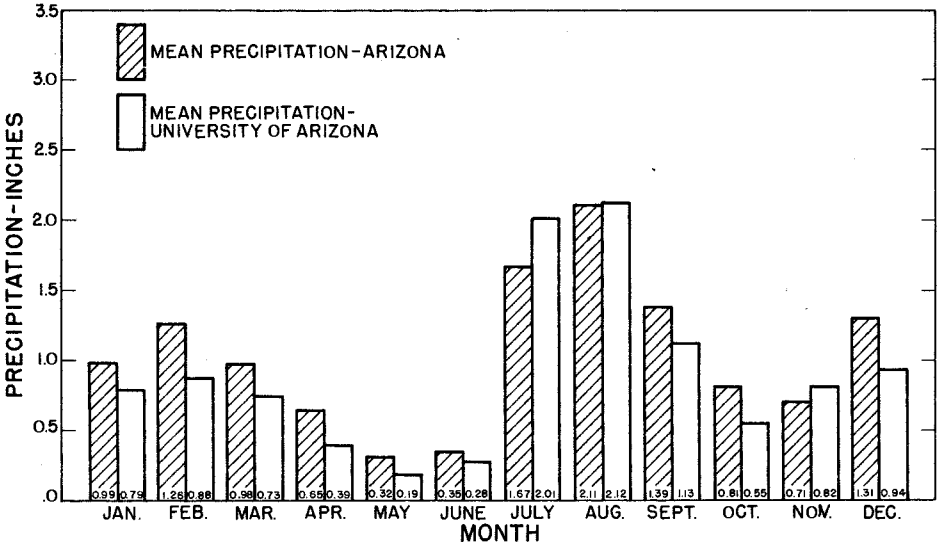


Figure 8. — Mean monthly precipitation for Arizona and University of Arizona, Tucson.

Snow and rainfall in the areas of low precipitation do not contribute a great deal to the agricultural economy of the state, but the precipitation at the higher elevations is a source of moisture for such native vegetation as grass, shrubs, and trees, all of which are important in the economy of the state. About one per cent of the precipitation is collected as surface runoff in irrigation reservoirs[5]. Another portion may find its way underground to help recharge the groundwater table.

The Salt River watershed above Roosevelt Dam receives an over all average of between 15 and 20 inches of precipitation annually. This is more than twice the amount received in the lowland portions of the Salt River Valley, which is irrigated with water stored in Roosevelt Lake. The supply of stored water in the reservoirs is not great enough to meet all demands for irrigation water so water is being pumped from the underground supply. This underground water is being pumped more rapidly than it is being recharged. (19)

Arizona has two so-called rainy seasons. One occurs during the winter months of December, January, and February, and the other during July and August. The precipitation pattern by months for the university and for the state as a whole is given in Figure 8.

Precipitation at the university parallels, month by month, that of the entire state. Summer rains of July and August, which are usually due to thunder storms, are spontaneous and local in nature and are short lived. They are sometimes accompanied by wind. These storms furnish approximately 43 per cent of the total year's precipitation. The winter rains occur as gentle showers, sometimes lasting through several days. In approximately 35 per cent of the years, precipitation occurs during December, January, February, and March. Long-time measurements at the Sierra Ancha Forest Experiment Station on the Salt River watershed have shown that summer rains contribute only a small amount of water to Roosevelt

[5]Personal communication from James McDonald, Institute of Atmospheric Physics, University of Arizona.

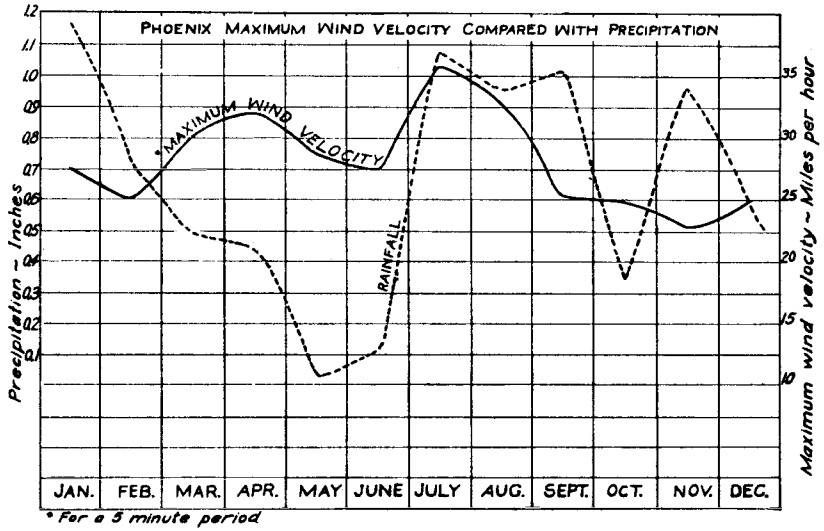


Figure 9. — Maximum wind velocity compared with quantity of precipitation, Phoenix.

Reservoir — that practically all runoff is from winter precipitation. (5) Greening (7) explains Arizona's precipitation as follows:

"Summer rains occur mostly as showers caused by solar heating and the forced flow of moisture-laden air over elevated regions. The water vapor necessary for these showers is transported by the deep southeasterly wind current forming the western part of one of the large anticyclonic eddies found aloft in summer over the southern United States and adjacent regions. The winter precipitation is less the showery type and results largely from activity on the Pacific polar front, which in winter is at times found as far south as 35°N."

Both Dorrah (6) and Holzman (8) have dealt further with climatic and hydrologic characteristics of the Southwestern region and sources of precipitation.

To illustrate the difference in the nature of summer and winter storms, the maximum wind velocity and monthly precipitation for Phoenix were plotted together (Figure 9). Maximum wind velocities for five-minute periods are much greater during the period of summer storms than during the winter rainy season.

It is quite likely that there are areas in the state receiving either more or less precipitation than occurs at any of the official weather stations, so some of the extremes of precipitation may not be measured.

Mean monthly precipitation measurements at the University of Arizona are given in Table 23. Similar data for Phoenix are given in Table 24, for the university farms in Table 25, and for the entire state in Table 26. Comparative precipitation data for selected United States cities are given in Table 27.

In Figure 10 the mean monthly precipitation for Tucson (U. of A.), with comparative data from Phoenix and Yuma, is given. The mean annual precipitation for the three stations is Phoenix 7.6 inches, Tucson 10.83 inches, and Yuma Airport, 2.16 inches. The greatest and least amounts of precipitation which

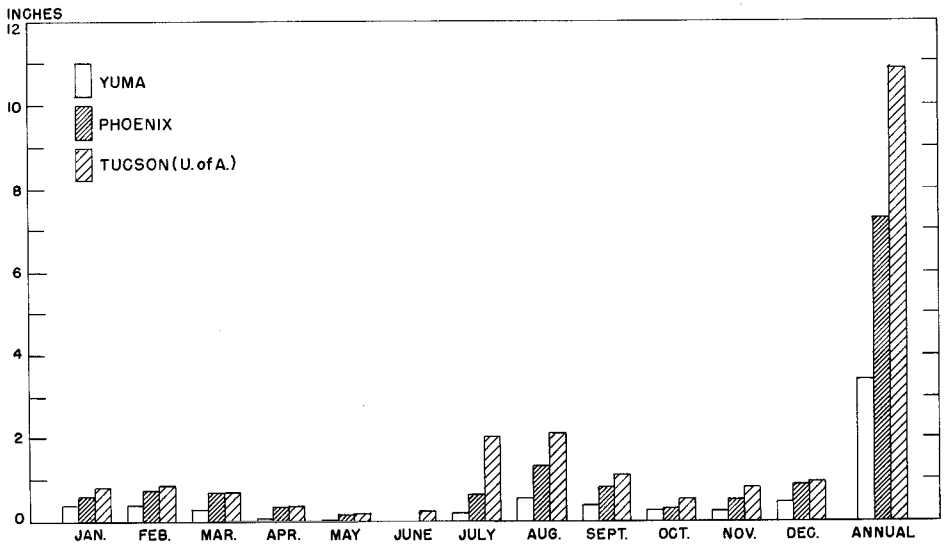


Figure 10. — Mean monthly precipitation at Tucson (U. of A.), Phoenix and Yuma.

have ever been measured at each station, together with the year of occurrence, is: Phoenix—greatest, 19.73 inches in 1905; least, 3.03 inches in 1924. University of Arizona — greatest, 24.17 inches in 1905; least, 5.16 inches in 1924. Yuma Valley Farm — greatest, 6.95 inches in 1941; least, 0.41 inches in 1953.

A precipitation station established at Tonto Creek Fish Hatchery in 1946 seems to have one of the greatest annual precipitation records for a single year of any of the cooperating stations in Arizona. In 1952, which was only slightly above average for precipitation in the entire state, the annual precipitation for Tonto Creek Fish Hatchery was 42.75 inches. The second greatest precipitation was measured at a relatively new station on Mt. Lemmon. This was 35.10 inches. Records of both stations are for too few years to give a reliable average. Actually, average values of less than 10 years' duration are of uncertain value and are subject to large changes should a series of wet or dry years occur. They are included in this publication only as a matter of interest and not with the thought that the averages will represent the normal when that figure is determined.

TABLE 25.-- MEAN MONTHLY AND MEAN ANNUAL PRECIPITATION --UNIVERSITY OF ARIZONA EXPERIMENT FARMS

RAINFALL RECORDS FROM TUCSON, CAMPBELL EXPERIMENT FARM 1949 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1949			0.28	0.18	0.00	0.18	2.88	0.25	1.20	0.59	0.08	0.93	
1950	0.24	1.13	0.16	0.00	0.02	2.63	2.45	0.44	1.06	0.00	0.00	0.00	8.31
1951	1.21	0.10	0.20	1.97	0.03	0.00	1.75	4.01	0.37	1.86	1.22	0.71	13.43
1952	0.28	0.05	2.30	2.39	0.04	0.11	1.98	1.45	0.12	0.00	2.51	0.61	11.84
1953	0.05	0.79	0.81	0.02	T	0.00	3.02	0.69	0.00	T	0.06	0.41	5.58
1954	0.63	0.57	1.71	0.00	0.23	0.93	2.02	1.43	2.85	0.06	0.00	0.11	10.54
AVG. 1949-54	0.48	0.53	0.91	0.76	0.16	0.64	2.35	1.38	0.93	0.42	0.64	0.46	9.66

RAINFALL RECORDS FROM YUMA CITRUS STATION 1920 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1920									2.31	0.01	0.00	0.00	
1921	0.88	0.00	0.00	0.00	0.06	0.00	0.42	1.58	3.48	0.00	0.00	0.89	7.31
1922	0.73	0.31	0.15	0.00	0.14	0.00	0.00	1.23	1.43	0.00	0.81	0.14	4.94
1923	0.01	0.00	0.11	0.29	0.00	0.00	0.35	0.06	1.14	0.00	0.24	1.34	3.54
1924	0.00	0.00	0.12	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.51
1925	T	0.00	0.38	0.25	0.00	0.00	0.10	0.47	0.22	1.70	0.20	0.64	3.90
1926		0.00	T	0.61	0.00	0.00	T	2.51	0.33	0.00	0.00	3.93	
1927	0.14	0.12	0.37	0.11	0.00	0.00	1.58	0.16	0.00	0.78	0.60	1.19	5.05
1928	0.00	0.27	0.09	0.00	0.00	0.00	0.08	T	0.11	T	0.00	0.00	0.55
1929	0.13	0.00	0.07	0.00	0.00	0.00	0.32	1.55	0.20	0.00	0.00	0.00	2.27
1930	0.40	0.00	1.13	0.00	0.10	0.00	0.33	T	0.00	0.20	0.00	0.00	2.16
AVG. 1921-30	0.23	0.07	0.24	0.14	0.03	T	0.32	0.76	0.69	0.27	0.18	0.84	3.36
1931	0.11	1.57	0.00	0.48	0.00	0.00	0.21	0.67	1.29	0.18	0.34	0.65	5.50
1932	0.00	1.15	0.00	0.00	0.00	0.00	0.08	0.00	T	2.08	0.00	0.45	3.76
1933	1.14	0.20	0.00	0.89	T	0.00	0.00	0.08	T	2.87	0.05	T	5.23
1934	T	T	0.16	0.00	0.00	T	T	1.19	0.00	0.00	0.30	0.62	2.27
1935	0.80	0.69	0.16	0.00	T	0.00	T	1.80	0.20	0.00	T	0.41	4.06
1936	0.49	0.20	0.00	0.00	0.00	T	0.88	0.05	0.00	T	0.10	0.07	1.79
1937	0.15	0.13	0.49	0.00	T	0.15	0.22	0.00	0.58	0.00	0.00	0.44	2.16
1938	0.00	0.71	0.60	T	0.00	0.00	0.20	0.33	0.16	0.40	0.00	1.03	3.43
1939	0.79	0.16	0.02	0.00	0.00	0.00	0.06	0.15	3.79	T	0.43	T	5.40
1940	T	0.47	0.02	0.22	0.00	0.06	0.00	0.00	1.54	0.43	0.05	1.55	4.34
AVG. 1931-40	0.35	0.53	0.14	0.16	T	0.02	0.16	0.43	0.76	0.50	0.13	0.52	3.79
1941	0.63	0.36	1.21	0.81	0.00	0.00	0.43	1.97	0.11	0.15	0.45	0.48	6.60
1942	0.17	1.02	0.25	T	0.00	0.00	0.00	0.78	0.00	0.10	0.00	0.03	2.35
1943	0.21	T	0.39	T	0.00	T	0.00	0.08	T	0.05	0.00	0.75	1.48
1944	0.22	1.56	0.19	T	0.00	0.00	0.00	0.00	0.23	0.66	0.97	0.21	4.04
1945	0.62	1.28	0.29	T	0.00	0.00	0.09	1.72	T	0.03	0.00	T	4.40
1946	0.10	T	0.00	0.01	0.00	0.00	0.13	0.30	0.40	0.04	0.26	1.02	2.26
1947	0.00	T	0.02	T	0.00	0.00	T	0.26	0.07	0.00	0.00	0.26	0.61
1948	0.00	0.02	0.18	0.00	0.00	0.15	0.32	0.00	0.02	1.27	0.00	0.34	2.30
1949	2.55	0.01	0.02	0.00	0.25	0.00	0.05	T	0.14	0.46	T	0.49	3.97
1950	0.04	0.13	T	T	0.00	0.00	1.70	0.02	0.05	0.00	0.00	0.00	1.94
AVG. 1941-50	0.45	0.44	0.26	0.08	0.02	0.02	0.27	0.51	0.10	0.28	0.17	0.36	3.00
1951	0.35	0.03	0.00	0.41	0.00	0.00	0.05	0.90	0.00	0.38	0.15	0.15	2.42
1952	0.40	0.08	0.85	0.37	0.00	0.00	0.25	0.00	0.01	0.00	0.35	0.75	3.06
1953	0.02	0.12	0.26	0.03	0.00	T	T	0.04	0.00	0.00	T	0.00	0.47
1954	0.04	0.09	0.32		0.00	0.00	0.18	0.00	0.10	0.00	0.00	T	
AVG. 1920-54	0.33	0.31	0.23	0.13	0.02	0.01	0.24	0.53	0.57	0.34	0.15	0.52	3.83

TABLE 25.--(Continued) RAINFALL RECORDS FROM MESA EXPERIMENT FARM 1917 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1917	2.16	0.90	0.21	0.92	0.96	0.00	3.28	0.49	0.49	T	0.00	0.00	9.41
1918	0.90	0.68	1.54	T	T	0.31	0.61	1.08	0.43	0.25	1.92	2.43	10.15
1919	0.05	1.36	0.69	0.32	0.06	0.00	2.60	1.38	2.85	0.48	2.15	0.57	12.51
1920	1.89	1.25	1.88	0.00	0.23	0.08	0.14	1.00	T	0.87	0.00	0.00	7.34
1921	0.30	0.10	0.02	0.05	0.10	T	0.45	1.48	0.00	0.83	0.19	1.04	4.56
1922	1.50	0.50	1.15	0.45	0.27	0.07	0.85	1.34	0.38	T	1.07	0.48	8.06
1923	0.23	0.94	0.67	0.13	0.08	0.00	2.00	0.70	0.46	0.24	2.12	2.39	9.96
1924	0.00	0.00	1.50	0.11	T	T	0.01	0.02	0.23	0.82	0.09	1.41	4.19
1925	0.09	0.02	0.28	0.55	0.00	0.06	0.55	0.87	1.36	0.44	0.06	0.46	4.74
1926	0.46	0.12	2.14	1.76	0.21	0.00	0.57	0.21	1.79	0.08	T	2.10	9.44
1927	0.08	1.99	0.42	0.55	0.13	0.30	0.25	0.68	3.53	0.24	0.24	1.01	9.42
1928	T	1.57	0.10	T	T	0.00	T	0.37	1.67	0.56	0.35	0.65	5.27
1929	0.90	0.27	0.23	0.49	T	0.09	0.79	1.14	0.57	0.04	0.00	T	4.52
1930	1.73	0.28	1.57	T	0.67	0.15	1.36	0.47	0.13	0.21	1.01	T	7.58
AVG. 1921-30	0.53	0.58	0.81	0.41	0.15	0.07	0.68	0.73	1.01	0.35	0.51	0.95	6.78
1931	0.05	4.51	0.02	0.76	0.06	T	0.63	2.02	0.51	0.61	2.90	1.06	13.13
1932	0.22	2.20	0.08	0.16	0.00	0.16	0.56	0.77	0.13	0.86	0.00	2.27	7.41
1933	1.69	0.26	T	0.89	0.04	0.06	0.16	0.59	1.17	0.74	0.75	0.06	6.41
1934	0.34	0.76	0.08	0.12	0.13	0.14	0.17	2.33	0.13	0.00	0.33	1.56	6.09
1935	0.93	1.75	1.17	0.18	0.13	0.00	0.07	3.00	1.37	T	0.57	0.26	9.43
1936	1.06	1.17	0.55	0.00	T	T	4.18	0.87	0.45	0.23	0.98	2.64	12.13
1937	0.66	0.47	1.78	0.00	0.03	0.26	0.10	0.29	1.00	0.00	T	0.71	5.30
1938	0.46	0.78	0.77	0.02	0.05	0.32	0.49	0.35	T	T	0.00	1.32	4.56
1939	0.47	0.85	0.12	0.11	0.00	0.00	T	1.04	2.05	0.17	0.50	T	5.31
1940	0.02	0.88	0.07	0.12	0.02	T	0.12	0.28	0.99	1.03	0.28	4.06	7.87
AVG. 1931-40	0.59	1.36	0.46	0.24	0.05	0.09	0.65	1.15	0.78	0.36	0.63	1.39	7.76
1941	1.48	1.89	3.39	2.11	0.87	0.02	1.24	0.80	1.70	0.53	1.30	1.31	16.64
1942	0.61	0.29	0.28	0.93	0.00	0.00	1.00	1.90	0.38	0.20	T	0.26	5.85
1943	0.73	0.01	0.68	0.12	T	T	0.15	4.18	1.37	0.06	0.00	1.40	8.70
1944	0.27	1.60	0.73	0.45	0.83	0.00	0.83	0.07	0.13	0.20	1.21	1.44	7.76
1945	1.04	0.30	1.00	0.00	0.00	0.00	0.38	0.53	T	0.28	0.00	0.48	4.01
1946	1.14	0.21	0.04	0.15	0.00	0.00	0.50	1.41	2.62	1.68	0.91	0.77	9.43
1947	0.06	0.29	0.00	0.00	0.36	0.00	T	1.18	1.58	0.07	0.82	0.55	4.91
1948	0.00	1.02	0.59	0.00	0.00	0.10	0.39	0.63	T	0.37	0.00	1.08	4.18
1949	2.17	0.09	0.25	0.28	0.05	0.53	0.03	0.97	0.84	0.38	0.27	0.91	6.77
1950	0.54	1.27	0.17	T	T	0.11	0.74	0.59	0.63	0.00	0.06	0.00	4.11
AVG. 1941-50	0.80	0.70	0.71	0.40	0.21	0.08	0.53	1.23	0.92	0.38	0.46	0.82	7.24
1951	1.53	0.07	0.35	0.94	0.25	0.00	2.19	3.63	0.12	0.76	0.67	0.57	11.08
1952	1.07	0.29	1.75	1.47	0.00	0.18	0.56	0.71	0.71	0.00	2.59	0.91	10.24
1953	0.29	0.22	1.20	0.03	0.03	T	2.20	0.69	0.00	T	0.06	0.06	4.78
1954	1.30	0.58	1.28	0.00	0.15	0.08	0.91	1.05	1.02	0.05	0.00	0.29	6.71
AVG. 1917-54	0.75	0.84	0.76	0.37	0.15	0.08	0.82	1.08	0.86	0.35	0.62	0.96	7.64
1921-50	0.64	0.88	0.66	0.35	0.13	0.08	0.62	1.04	0.90	0.36	0.53	1.05	7.24

RAINFALL RECORDS FROM SAFFORD EXPERIMENT FARM 1948 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	D EC.	TOTAL
1948								0.81	0.42	0.68	0.11	1.16	
1949	1.84	0.12	0.45	0.75	0.00	0.19	1.36	0.69	1.12	0.10	0.15	0.82	7.59
1950	0.20	0.38	0.05	0.06	0.00	0.30	1.99	T	0.65	0.01	0.00	0.00	3.64
1951	0.71	0.47	1.09	0.82	0.01	0.00	0.98	2.60	0.33	1.37	0.20	0.68	9.26
1952	0.50	0.12	0.90	0.49	0.01	0.93	1.02	1.30	0.17	0.00	0.75	0.50	6.69
1953	0.08	0.13	1.33	0.26	0.19	0.15	2.87	0.23	0.00	0.00	0.10	0.24	5.58
1954	0.52	0.25	1.78	0.00	0.16	0.07	2.27	2.22	1.60	T	0.00	0.08	8.95
AVG. 1948-54	0.64	0.24	0.93	0.40	0.06	0.27	1.74	1.31	0.61	0.31	0.19	0.50	7.20

TABLE 25.--(Continued) RAINFALL RECORD FROM YUMA VALLEY FARM 1931 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1931	0.10	1.35	0.00	0.68	0.00	0.00	0.21	0.55	1.26	0.14	0.16	0.62	5.07
1932	0.00	1.29	0.00	0.00	0.00	T	0.11	0.00	T	2.16	0.00	0.45	4.01
1933	1.25	0.12	0.00	0.90	T	0.00	T	0.06	T	1.45	T	T	3.78
1934	T	0.08	0.14	0.00	0.00	0.00	T	0.88	0.00	0.00	0.20	0.57	1.87
1935	0.78	0.88	0.13	0.00	T	0.00	T	1.58	0.20	0.00	0.00	0.41	3.98
1936	0.46	0.17	0.00	0.00	0.00	0.00	0.98	T	0.00	T	T	T	1.61
1937	0.12	0.12	0.51	0.00	T	0.08	0.18	0.00	0.69	0.00	0.00	0.39	2.09
1938	T	0.63	0.52	0.00	T	0.00	0.16	0.25	0.39	0.21	0.00	0.75	2.91
1939	0.79	0.24	0.06	0.00	0.00	0.00	T	0.09	4.16	0.00	0.38	T	5.72
1940	0.00	0.32	T	0.24	0.00	0.05	0.00	0.03	1.16	0.40	0.03	1.17	3.40
AVG. 1931-40	0.35	0.52	0.14	0.18	T	0.01	0.16	0.34	0.79	0.44	0.08	0.44	3.44
1941	0.66	0.29	1.23	0.66	0.00	0.00	0.50	2.50	0.17	0.15	0.39	0.40	6.95
1942	0.16	1.02	0.22	0.04	0.00	0.00	0.00	0.77	0.00	0.08	0.00	0.03	2.32
1943	0.18	0.02	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	1.39
1944	0.11	0.82	0.16	T	0.00	0.00	0.00	0.00	0.24	0.84	1.04	0.33	3.54
1945	0.62	1.10	0.26	T	0.00	0.00	0.11	1.14	T	0.08	0.00	0.02	3.33
1946	0.08	0.00	0.00	T	0.00	0.00	0.17	0.22	0.24	0.03	0.19	0.93	1.86
1947	0.00	T	0.07	T	0.00	0.00	T	0.21	T	0.00	T	0.25	0.53
1948	0.00	0.02	0.15	0.00	0.00	0.15	0.32	0.00	0.02	1.27	0.00	0.34	2.30
1949	2.45	T	0.02	0.00	0.47	0.00	0.04	T	0.04	0.53	0.02	0.37	3.94
1950	0.05	0.10	T	0.00	0.00	0.00	2.27	0.02	0.04	0.00	T	0.00	2.48
AVG. 1941-50	0.43	0.34	0.26	0.07	0.05	0.02	0.34	0.49	0.08	0.30	0.16	0.34	2.86
1951	0.36	0.02	0.00	0.32	0.00	0.00	0.06	1.03	T	0.29	0.12	0.13	2.33
1952	0.33	0.08	0.63	0.19	0.00	T	0.18	0.00	0.04	0.00	0.29	0.70	2.44
1953	0.02	0.05	0.05	0.22	0.00	0.00	0.03	0.04	0.00	0.00	0.00	0.00	0.41
1954	0.01	0.07	0.30		DISCONTINUED		STATION	-	-	-	-	-	-
AVG. 1931-53	0.36	0.37	0.21	0.14	0.02	0.01	0.23	0.41	0.38	0.33	0.12	0.37	2.95

RAINFALL RECORDS FROM TEMPE, UNIVERSITY OF ARIZONA CITRUS EXPERIMENT FARM 1944 - 1954
(INCHES)

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	TOTAL
1944	0.33	1.80	0.91	0.40	0.80	0.00	0.43	0.14	0.39	0.27	1.25	1.43	8.15
1945	1.00	0.17	0.87	0.00	0.00	0.00	0.13	0.50	0.00	1.56	0.00	0.49	4.72
1946	1.13	0.18	0.18	0.08	0.00	0.00	0.78	2.04	2.40	0.53	0.65	0.67	8.64
1947	0.12	0.18	0.00	0.01	0.24	0.00	0.00	1.56	0.00	0.09	0.75	0.40	3.35
1948	0.00	0.90	0.41	0.00	0.00	0.07	0.28	0.65	T	0.34	0.00	0.87	3.52
1949	2.14	0.13	0.07	0.35	0.08	0.38	0.50	1.35	0.60	0.38	0.37	0.87	7.22
1950	0.42	1.62	0.22	T	0.00	T	0.78	0.12	0.31	0.00	0.05	0.00	3.52
1951	1.43	0.32	0.32	0.59	0.18	0.00	1.01	5.04	0.24	0.63	0.59	0.64	10.99
1952	1.06	0.48	2.25	1.89	0.00	0.00	0.78	2.98	0.48	0.00	2.57	1.04	13.53
1953	0.27	0.15	1.06	0.07	0.02	T	1.97	1.10	0.00	T	0.11	0.05	4.80
1954	0.83	0.50	1.14	0.00	0.36	0.01	0.57	0.53	1.46	0.10	T	0.10	5.60
AVG. 1944-54	0.79	0.58	0.68	0.31	0.15	0.04	0.66	1.46	0.53	0.35	0.58	0.60	6.73

TABLE 26 -- MEAN MONTHLY AND ANNUAL PRECIPITATION RECORDS FOR ARIZONA STATIONS (INCHES)

STATION	COUNTY	ELEVATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Aguila	Maricopa	2,280	1924-53	0.86	1.17	0.95	0.67	0.08	0.10	0.87	1.70	0.85	0.49	0.59	1.23	8.70
Ajo	Pima	1,763	1913-53	0.81	0.68	0.76	0.36	0.08	0.08	1.42	2.03	0.90	0.50	0.58	0.94	9.14
Ajo Well	Pima	1,401	1940-53	0.54	0.50	0.73	0.39	0.06	T	1.35	1.91	0.92	0.58	0.48	0.74	8.20
Alhambra	Maricopa	1,115	1946-53	0.81	0.48	0.43	0.40	0.15	0.06	0.76	1.44	0.73	0.33	0.60	0.51	6.70
Alpine	Apache	8,000	1904-53	1.49	1.61	1.52	0.93	0.59	0.81	3.72	3.58	2.44	1.73	2.35	1.50	22.27
Amado	Santa Cruz	2,880	1941-53	0.71	0.62	0.49	0.38	0.06	0.22	2.77	2.77	1.36	0.63	0.44	0.73	11.18
Anvil Ranch	Pima	2,750	1943-53	0.42	0.56	0.52	0.50	0.21	2.02	2.08	1.37	0.77	0.81	0.48	0.52	10.26
Apache Powder Co.	Cochise	3,690	1923-53	0.58	0.79	0.41	0.32	0.13	0.70	2.73	2.70	1.56	0.57	0.58	0.88	11.95
Ashfork	Yavapai	5,140	1909-53	1.05	1.21	1.05	1.01	0.39	0.47	1.82	2.39	1.29	0.80	0.60	1.27	13.25
Bagdad (2E)	Yavapai	(3,750) (3,200)***	1925-53	1.46	1.95	1.24	0.90	0.24	0.36	1.26	2.12	1.37	0.82	0.69	1.68	14.09
Bartlett Dam	Maricopa	1,650	1939-53	1.30	1.08	1.08	0.80	0.22	0.14	1.00	1.72	1.26	0.62	0.87	1.62	11.71
Beach Ranch	Pima	4,000	1940-53	1.19	0.97	0.96	0.67	0.15	0.43	3.19	3.20	1.20	0.84	0.77	1.18	14.75
Bear Valley	Santa Cruz	4,025	1943-53	1.27	1.16	1.36	0.59	0.04	0.25	3.93	4.25	1.67	0.89	0.96	2.84	19.21
Beaverhead Lodge	Greenlee	8,000	1938-53	2.66	1.46	1.87	0.99	0.72	0.74	3.90	5.00	2.49	1.71	1.12	2.04	24.70
Benson	Cochise	3,585	1880-53	0.55	0.76	0.50	0.19	0.12	0.34	2.28	2.61	1.26	0.60	0.52	0.69	10.42
Betatakin	Navajo	7,200	1939-53**	0.99	1.04	0.83	1.03	0.40	0.38	1.50	1.06	1.20	1.26	0.70	1.33	11.72
Bisbee	Cochise	5,350	1889-53	1.20	1.28	0.70	0.51	0.22	0.64	3.96	4.41	2.00	1.00	0.85	1.33	18.00
Black River Pumps	Graham	6,040	1947-53	1.84	0.92	1.83	0.91	0.21	0.39	2.74	2.75	1.36	1.03	0.76	1.44	16.18
Bosley's Ranch	Graham	4,800	1941-53	1.21	0.65	0.98	0.48	0.12	0.46	2.70	2.83	1.46	0.83	0.69	1.20	13.61
Bowie	Cochise	3,756	1899-53	0.70	0.84	0.61	0.25	0.16	0.32	2.04	2.02	0.97	0.64	0.61	0.88	10.04
RD5 on W5			1939- *													
Bowie Junction	Graham	4,720	1941-53	0.84	0.64	0.60	0.36	0.07	0.56	1.81	1.97	1.93	0.76	0.39	0.96	10.89
Bright Angel RS	Coconino	8,400	1925-53**	3.00	3.39	2.94	1.76	0.98	0.69	1.76	2.59	2.27	1.40	1.38	2.97	25.13
Buckeye	Maricopa	888	1889-53	0.82	0.74	0.70	0.31	0.10	0.07	1.00	1.08	0.64	0.42	0.63	0.93	7.44
Burrus Ranch	Coconino	6,800	1943-53	1.96	1.42	1.14	0.98	0.51	0.36	2.27	2.65	1.17	1.25	1.00	1.92	16.63
Calabasas	Santa Cruz	3,440	(1889-99 (1939-54	1.02	0.65	0.56	0.33	0.33	0.11	3.45	3.52	1.42	0.68	0.42	0.81	13.30
Camelback	Maricopa	1,250	1927-53	0.78	1.01	0.72	0.44	0.16	0.07	0.81	1.10	0.85	0.43	0.59	0.96	7.92
Camp Wood	Yavapai	5,708	1942-53	2.20	1.60	2.23	1.43	0.24	0.20	2.61	3.55	1.21	1.25	1.24	2.66	20.42
Canelo RS	Santa Cruz	5,000	1910-53	1.20	1.34	0.90	0.49	0.21	0.85	4.76	4.20	1.67	0.77	0.90	1.41	18.70
Casa Grande	Pinal	1,390	(1880-14 (1917-53	0.71	0.75	0.62	0.27	0.08	0.14	1.10	1.15	0.81	0.31	0.67	0.88	7.49
Casa Grande Ruins	Pinal	1,419	(1906-16 (1931-53	0.92	0.83	1.19	0.36	0.11	0.17	1.18	1.28	0.82	0.53	0.86	1.19	9.44
Castle Hot Springs MN	Yavapai	2,800	1949-53	1.51	1.04	1.28	1.13	0.15	0.21	2.63	3.49	0.51	0.76	1.05	1.27	15.03
Cave Creek	Maricopa	2,050	1950-53	1.37	0.57	1.18	1.30	0.38	0.03	1.01	2.86	1.01	0.12	1.38	0.77	11.98
Chandler Hts.	Maricopa	1,445	1941-53	0.76	0.93	0.80	0.53	0.18	0.12	0.78	1.53	1.33	0.42	0.60	0.77	8.75
Childs	Yavapai	2,650	1915-53	1.83	1.75	1.48	1.11	0.38	0.34	2.02	2.65	1.67	0.89	1.14	2.11	17.03
Chinle	Apache	5,538	1908-28 1935-53	0.59	0.56	0.60	0.57	0.41	0.38	1.58	1.08	1.05	0.90	0.48	0.70	8.90
Chino Valley	Yavapai	4,673	1941-53	0.95	0.71	0.78	0.78	0.15	0.08	1.79	2.26	0.83	0.68	0.60	1.23	10.84
Chiricahua	Cochise	5,300	1948-53	1.69	1.05	1.63	0.81	0.07	1.13	3.86	3.21	0.86	0.85	0.69	1.13	16.98
Cibecue TP	Navajo	5,300	1927-53	1.52	1.85	1.66	1.04	0.48	0.52	2.44	3.27	2.03	1.36	1.44	1.58	19.19
Copper Mines	Coconino	6,380	1939-53	0.55	0.49	0.61	0.60	0.17	0.31	1.16	1.51	0.97	0.82	0.43	0.58	8.20
Clifton	Graham	3,465	1908-53	0.85	0.90	0.75	0.38	0.29	0.41	2.33	2.47	1.55	0.84	0.48	1.04	12.29
Cordes	Yavapai	3,773	1925-53	1.06	1.59	1.00	0.87	0.23	0.18	1.40	1.97	1.43	0.70	0.74	1.56	12.73
Cortaro	Pima	2,283	1945-53	0.57	0.57	0.64	0.47	0.11	0.23	2.88	1.76	0.93	0.80	0.83	0.60	10.39
Cottonwood[1]	Yavapai	3,320	1920-36 1949-53	0.92	1.00	0.69	0.72	0.27	0.22	1.74	0.80	1.50	0.62	0.69	0.95	11.12
Crown King	Yavapai	6,000	1915-53	3.05	2.87	2.38	1.92	0.57	0.39	4.60	4.64	2.04	1.63	2.06	3.90	30.05
Davis Dam BD Apt	Mohave	628	1948-53	1.04	0.18	0.56	0.20	0.26	0.04	0.31	0.92	0.16	0.21	0.25	0.69	4.82
Douglas	Cochise	4,098	1948-53	0.81	0.58	0.50	0.45	0.02	0.74	4.60	2.17	1.10	0.39	0.26	0.58	12.20
Douglas Smelter	Cochise	3,973	1903-53	0.66	0.69	0.49	0.27	0.19	0.50	3.11	2.82	1.25	0.74	0.66	0.84	12.22
Drake R.S.	Yavapai	4,650	1915-53	1.26	1.40	0.97	0.86	0.42	0.32	1.55	2.43	1.35	0.96	0.67	1.65	13.84
Duncan	Greenlee	3,642	1901- 7 1911-53	0.70	0.70	0.62	0.30	0.15	0.32	1.32	1.77	1.37	0.68	0.50	0.97	9.40
Eagle Creek	Greenlee	5,100	1928-53	1.22	1.23	0.95	0.54	0.33	0.59	2.44	3.00	1.94	0.66	0.98	1.24	15.12
Ehrenberg	Yuma	323	1941-53	0.54	0.25	0.50	0.12	0.26	0.08	0.25	1.08	0.19	0.17	0.27	0.48	4.19
Elgin	Santa Cruz	4,780	1912-53	1.04	1.02	0.60	0.34	0.17	0.64	3.47	3.20	1.59	0.64	0.72	1.04	14.47
Fairbank	Cochise	3,862	1909-53	0.60	0.66	0.38	0.25	0.12	0.57	3.29	2.70	1.23	0.45	0.58	0.64	11.47
Falcon Field	Maricopa	1,320	1942-44 1947-53	0.88	0.52	0.66	0.56	0.11	0.13	0.87	1.45	0.74	0.20	0.59	0.47	7.18
Flagstaff	Coconino	6,993	1898-53	1.92	1.91	1.86	1.28	0.65	0.47	2.85	2.91	1.67	1.48	1.24	1.72	19.96
Florence	Pinal	1,500	1908-22* 1923-53	0.96	0.91	0.93	0.48	0.16	0.12	1.23	1.48	0.90	0.44	0.86	1.28	9.75
Flying H Ranch	Cochise	5,075	1948-53	1.87	1.46	1.41	0.76	0.03	0.88	5.71	2.50	1.48	0.85	0.65	2.37	19.97
Forestdale	Navajo	6,100	1947-53	2.34	1.39	1.56	1.10	0.15	0.59	2.91	2.86	1.48	1.81	1.34	1.96	19.49
Fort Grant	Graham	4,851	1873-05 1918-53	0.95	1.12	0.97	0.43	0.28	0.45	2.66	2.66	1.64	0.84	0.92	1.18	14.10
Fort Valley	Coconino	7,347	1909-53	2.25	2.22	2.09	1.52	0.75	0.56	3.07	3.38	1.86	1.58	1.20	2.17	22.65
Fossil Springs	Yavapai	4,269	1934-53	2.01	2.18	2.29	1.23	0.37	0.65	2.34	3.07	1.59	1.09	1.13	2.29	20.24
Fredonia	Coconino	5,000	1937-53	1.02	0.84	1.14	0.75	0.42	0.33	0.71	1.34	1.13	0.85	0.48	1.15	10.16
Fritz Ranch	Greenlee	4,321	1940-53	1.56	0.72	1.18	0.61	0.40	0.70	2.17	2.55	1.82	0.94	0.84	1.17	14.66
Ganado	Apache	6,350	1929-53	0.71	0.88	0.81	0.82	0.50	0.42	1.56	1.85	1.33	1.02	0.72	0.86	11.48
Gila Bend	Maricopa	737	1903-53	0.58	0.56	0.65	0.23	0.11	0.05	0.75	1.04	0.53	0.32	0.50	0.70	6.02
Gisela	Gila	2,900	1916-53	1.86	1.84	1.56	1.01	0.41	0.33	2.09	2.33	1.80	0.96	1.56	1.87	17.62
Globe	Gila	3,540	1905-53	1.57	1.48	1.29	0.73	0.32	0.39	2.69	2.54	1.32	0.92	1.14	1.71	16.10
Goulds Ranch Hdqs.	Maricopa	1,195	1915-53	0.72	0.81	0.72	0.38	0.14	0.06	0.79	1.16	0.80	0.34	0.63	1.02	7.57
Grand Canyon	Coconino	6,890	1903-53	1.42	1.69	1.37	0.90	0.63	0.34	1.90	2.36	1.62	1.19	0.96	1.70	16.08

TABLE 26 — (Continued) MEAN MONTHLY AND ANNUAL PRECIPITATION RECORDS FOR ARIZONA STATIONS (INCHES)

STATION	COUNTY	ELEVATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Granite Reef Dam	Maricopa	1,325	1909-53	1.08	0.99	0.95	0.50	0.17	0.15	0.96	1.17	0.84	0.46	0.80	1.20	9.27
Groom Creek	Yavapai	6,100	1942-53	2.12	2.14	1.95	1.74	0.49	0.23	3.91	3.54	1.24	1.18	1.08	2.10	22.02
Hackberry	Mohave	3,575	1942-53	1.10	1.01	0.95	0.78	0.16	0.15	1.13	1.71	0.58	0.53	0.75	1.20	10.05
Heber	Navajo	6,600	1915-36** 1948-53	1.71	1.21	1.34	1.10	0.51	0.67	3.44	2.75	1.64	0.92	1.10	1.36	17.75
Holbrook	Navajo	5,069	1903-53	0.55	0.61	0.56	0.55	0.27	0.41	1.66	1.45	1.03	0.62	0.58	0.56	8.85
Horseshoe Dam	Maricopa	2,020	1948-53	1.98	0.86	1.11	0.69	0.13	0.35	1.93	2.85	0.81	0.76	0.94	1.73	12.14
Inner Canyon	Coconino	2,490	1935-53	0.76	0.99	0.93	0.55	0.26	0.18	0.96	1.47	1.15	0.81	0.36	1.03	9.45
Irving	Yavapai	3,762	1934-53	1.72	1.86	1.81	1.08	0.33	0.35	1.57	2.71	1.46	0.98	1.11	2.35	17.03
Jeddito	Navajo	6,700	1931-53	0.95	0.93	0.92	0.77	0.54	0.30	1.30	1.79	1.20	0.91	0.61	1.04	9.38
Jerome	Yavapai	5,245	1897-53	1.81	1.87	1.57	1.18	0.48	0.34	2.49	2.93	1.42	1.16	1.18	1.73	18.16
Junipine	Coconino	5,124	1935-53	2.37	3.43	2.64	2.17	0.63	0.39	1.50	3.08	1.85	1.75	1.59	3.11	24.51
Kayenta	Navajo	5,675	1915-53	0.58	0.52	0.65	0.46	0.39	0.35	1.29	1.49	0.79	0.77	0.53	0.58	8.40
Keams Canyon	Navajo	6,205	1894-05 1906-21 1928-30* 1942-53	1.17	0.92	0.88	0.74	0.39	0.35	1.94	1.69	0.72	1.08	0.63	1.05	11.56
Kelvin	Pinal	1,814	1938-53	1.38	1.26	1.40	0.78	0.22	0.18	1.62	2.41	1.20	0.78	1.03	1.73	13.99
Kingman	Mohave	3,333	1901-53	1.13	1.40	1.10	0.64	0.27	0.14	0.91	1.50	0.97	0.66	0.69	1.27	10.68
Lakeside RS	Navajo	6,700	1911-33 1946-53	2.07	1.81	1.76	1.34	0.56	0.56	3.95	3.13	1.86	1.75	1.53	1.76	22.08
Laveen	Maricopa	1,100	1948-53	0.78	0.33	0.69	0.42	0.06	0.08	1.40	1.60	0.31	0.24	0.62	0.41	7.00
Lee's Ferry	Coconino	3,141	1916-38 1943-53	0.38	0.54	0.49	0.40	0.28	0.19	0.72	1.23	0.45	0.42	0.39	0.48	5.97
Leslie Canyon	Cochise	4,461	1916-53	0.72	0.71	0.59	0.33	0.23	0.61	3.01	2.85	1.39	0.70	0.69	0.76	12.59
Leupp	Coconino	4,700	1914-53	0.47	0.36	0.32	0.48	0.23	0.15	1.07	1.03	0.93	0.54	0.30	0.49	6.37
Litchfield Park	Maricopa	1,030	1917-53	0.79	0.86	0.73	0.38	0.16	0.09	0.75	1.48	0.77	0.34	0.69	1.06	8.10
Lukachukai	Apache	6,400	1914-19* 1938-53	8.08	1.01	1.13	1.19	0.75	0.51	1.41	1.81	1.10	0.87	0.66	1.18	12.70
Marinette	Maricopa	1,150	1913-53*	0.86	0.90	0.74	0.61	0.15	0.12	0.50	1.11	0.65	0.40	0.60	0.56	7.20
Maverick	Apache	7,800	1948-53	3.86	1.12	2.88	1.70	0.23	0.68	4.56	3.80	1.58	1.33	1.16	2.70	25.60
McNary	Apache	7,280	1933-53	2.15	2.29	2.39	1.36	0.68	0.48	2.80	3.96	2.54	1.86	1.39	2.51	24.41
Miami	Gila	3,603	1914-53	2.18	1.92	1.66	0.92	0.42	0.38	2.74	2.97	1.62	0.97	1.35	2.29	19.42
Montezuma Castle	Yavapai	3,180	1938-53	0.91	0.94	0.86	0.94	0.24	0.12	1.31	1.94	1.52	0.82	0.66	1.39	11.65
Mormon Flats	Maricopa	1,715	1923-53	1.25	1.61	1.37	0.79	0.23	0.30	1.08	2.04	1.28	0.55	1.07	1.68	13.25
Mormon Lake	Coconino	7,000	1916-53					0.69	0.54	2.37	3.02	2.14	1.80			
Mt. Lemmon	Pima	7,690	1950-53	2.71	0.93	3.85	2.19	0.37	0.89	7.22	2.78	0.91	1.25	2.68	2.14	27.92
Mt. Trumbull	Mohave	5,600	1919-53	0.94	1.21	1.09	0.82	0.55	0.39	1.70	2.21	1.01	1.15	0.63	1.15	12.85
Natural Bridge	Gila	4,607	1890-53	2.45	2.80	2.38	1.44	0.54	0.39	2.69	3.37	2.09	1.53	1.81	2.40	23.89
N Lazy H Ranch	Pima	3,000	1941-53	0.94	0.82	0.97	0.52	1.02	1.53	2.29	2.53	1.12	0.69	0.66	0.98	14.07
Nogales	Santa Cruz	3,800	1897-04 1909-10 1914-53	1.01	0.95	0.72	0.35	0.14	0.45	3.82	3.97	1.67	0.61	0.75	1.10	15.54
Oracle	Pinal	4,600	1893-53	1.96	1.65	1.60	0.84	0.31	0.42	2.82	3.21	1.56	0.92	1.61	2.11	19.01
Organ Pipe Cactus NM	Pima	1,663	1944-53 1937-49	0.61	0.46	0.66	0.31	0.01	0.01	0.76	1.33	1.28	0.43	0.76	0.78	7.40
Painted Canyon Ranch	Cochise	5,400	1951-53	1.11	1.26	1.17	0.73	0.25	0.95	3.39	3.45	2.25	0.96	0.94	1.85	18.31
Parker	Yuma	425	1893-53	0.72	0.60	0.48	0.22	0.07	0.04	0.41	0.68	0.48	0.29	0.38	0.67	5.04
Upper Parker Creek	Gila	5,500	1940-53	3.10	2.42	2.92	1.58	0.42	0.45	2.26	3.84	2.50	1.56	1.66	3.94	26.65
Patagonia	Santa Cruz	4,044	1921-53	0.98	1.09	0.84	0.45	0.18	0.57	4.26	3.99	1.87	0.70	0.82	1.28	17.03
Payson	Gila	4,906	1889-98 1909-53	2.36	2.38	2.03	1.13	0.37	0.43	2.41	3.12	1.96	1.42	1.57	2.20	21.38
Peach Springs	Mohave	4,810	1940-53	1.00	1.10	1.08	0.63	0.25	0.07	1.40	2.63	0.73	0.61	0.70	1.15	11.35
Pearce	Cochise	4,388	1944-53	0.88	0.76	0.53	0.33	0.14	0.97	3.64	2.60	0.77	0.78	0.52	0.83	12.75
Petrified Forest	Navajo	5,460	1931-53	0.52	0.72	0.54	0.57	0.35	0.25	1.46	1.64	1.07	0.63	0.57	0.55	8.87
Phoenix Indian School	Maricopa	1,115	1928-53*	0.77	0.94	0.65	0.41	0.19	0.06	0.69	1.16	0.90	0.39	0.59	0.80	7.55
Phoenix Airport	Maricopa	1,114	1933-53	0.63	0.75	0.72	0.38	0.18	0.06	0.66	1.34	0.83	0.30	0.52	0.89	7.26
Pima Rl on W2	Graham	3,766	1939-53	0.77	0.56	0.77	0.52	0.11	0.40	1.93	2.37	1.26	0.56	0.54	0.96	10.75
Pinal Ranch	Pinal	4,520	1893-19	3.00	2.89	2.53	1.08	0.41	0.39	2.71	3.34	2.06	1.32	1.98	3.12	24.83
Pinedale	Navajo	6,500	1912-53	1.57	1.55	1.31	1.16	0.51	0.63	3.11	2.85	1.71	1.75	1.45	1.72	19.32
Pinetop	Navajo	7,500	1943-53	2.11	1.50	2.06	1.14	0.34	0.46	3.28	3.55	1.87	1.77	1.40	2.07	21.55
Pisinemo	Pima	1,900	1936-53	0.67	0.70	0.55	0.31	0.14	0.20	1.59	1.93	1.18	0.43	0.63	0.90	9.23
Poland Junction	Yavapai	4,900	1942-52	1.48	0.99	0.92	0.78	0.26	0.08	1.88	3.58	1.15	0.81	0.79	2.07	14.79
Portal	Cochise	5,000	1914-38 1945-53	1.09	1.12	0.86	0.57	0.30	0.67	3.35	3.54	1.88	1.18	1.26	1.34	17.16
Prescott	Yavapai	5,389	1865-53	1.78	1.89	1.72	1.01	0.48	0.28	2.90	3.16	1.40	0.92	1.12	1.81	18.47
Redington	Pima	2,869	1941-53	0.92	0.47	0.97	0.48	0.11	0.19	2.04	2.33	1.20	0.70	0.60	1.01	11.02
Red Rock	Pinal	1,867	1889-35 1951-53	0.76	0.77	0.80	0.33	0.13	0.20	1.56	1.69	1.06	0.40	0.92	1.10	9.72
Reno R.S.	Gila	2,350	1899-53	1.90	2.06	1.99	1.05	0.36	0.30	1.89	2.37	1.44	0.90	1.47	2.37	18.10
Rimrock	Yavapai	3,600	1942-53	1.24	0.93	0.83	0.80	0.29	0.06	1.32	1.83	1.22	0.72	0.88	1.41	11.53
Roosevelt	Gila	2,200	1905-53	1.97	2.07	1.80	0.94	0.30	0.37	1.60	2.00	1.25	0.94	1.26	2.06	16.56
Ruby	Santa Cruz	3,975	1916-18 1930-53	1.62	1.41	0.93	0.42	0.14	0.60	4.32	4.50	1.33	0.76	1.08	1.42	18.53
Ruby Star Ranch	Pima	3,800	1948-53	0.78	0.86	0.53	0.42	T	0.35	3.84	1.71	1.24	0.78	0.44	0.69	11.64
Rucker Canyon	Cochise	5,600	1917-53	1.24	1.38	1.16	0.67	0.38	0.89	4.38	3.82	1.96	1.24	1.10	1.46	19.68
Sabino Canyon	Pima	2,610	1941-53	0.80	0.79	0.80	0.56	0.09	0.30	1.75	2.39	1.10	0.83	0.62	0.75	10.78
Sacaton	Pinal	1,280	1908-53	0.85	0.79	0.84	0.39	0.18	0.14	1.58	1.55	0.97	0.38	0.76	1.09	9.52
Safford	Graham	2,900	1898-53	0.64	0.72	0.63	0.32	0.17	0.29	1.70	1.72	1.05	0.58	0.64	0.77	9.23
St. John's	Apache	5,560	1889-92* 1901-53	0.70	0.67	0.77	0.58	0.50	0.53	2.18	2.12	1.37	0.66	0.52	0.74	11.34

TABLE 26 — (Continued) MEAN MONTHLY AND ANNUAL PRECIPITATION RECORDS FOR ARIZONA STATIONS (INCHES)

STATION	COUNTY	ELEVATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Sala Ranch	Cochise	5,190	1947-53	1.06	0.96	0.78	0.47	0.03	0.90	3.59	2.45	0.59	0.68	0.57	0.81	12.89
Salome	Yuma	1,700	1907-53	0.87	0.98	0.71	0.38	0.57	0.11	1.08	1.40	0.67	0.46	0.49	1.01	8.73
Jimana Inn																
Salt River	Gila	4,265	1941*-53	2.03	1.24	1.73	1.22	0.11	0.51	1.96	2.83	1.27	1.06	1.18	1.93	17.07
San Carlos	Gila	2,643	1940-53	1.38	0.86	1.10	0.48	0.24	0.33	1.47	1.82	1.18	0.63	0.73	1.35	11.57
San Carlos Resvr.	Gila	2,532	1881-53	1.33	1.42	1.15	0.52	0.25	0.26	1.70	2.08	1.04	0.77	0.96	1.50	12.98
Sanders	Apache	5,921	1949-53	0.81	0.70	0.73	0.80	0.04	0.44	1.60	1.34	0.76	0.78	0.79	0.41	9.20
San Rafael	Santa Cruz	4,741	1923-53	1.00	1.12	0.91	0.50	0.13	0.73	4.54	4.20	1.76	0.72	0.80	1.25	17.66
San Simon	Cochise	3,608	1881-16* 1921-53	0.53	0.60	0.61	0.22	0.15	0.22	1.44	1.66	0.75	0.47	0.44	0.75	7.84
Santa Rita Range	Pima	4,300	1916-53	1.60	1.64	1.20	0.66	0.24	0.65	0.41	4.07	2.02	0.68	1.19	1.47	15.83
Sedona	Coconino	4,223	1943-53	1.82	1.50	1.52	1.38	0.56	0.30	2.08	2.27	0.82	1.14	1.26	1.92	16.56
Seligman	Yavapai	5,219	1904-53	0.89	0.97	0.86	0.58	0.25	0.30	1.73	2.14	1.09	0.73	0.60	0.93	11.07
Sells	Pima	2,369	1911-13 1917-25 1940-53	0.72	0.64	0.81	0.43	0.18	0.31	2.90	2.40	0.93	0.63	0.78	0.71	11.44
Seneca Creek	Gila	5,000	1941-52	2.14	1.25	1.80	0.82	0.29	0.39	2.01	2.67	1.94	1.35	1.32	1.91	17.89
Sentinel	Maricopa	690	1899-19 1950-53	0.48	0.46	0.40	0.24	0.03	0.10	0.56	0.94	0.19	0.25	0.33	0.42	4.40
Show Low	Navajo	6,412	1889-09* 1915-25*	1.80	1.71	1.96	0.88	0.44	0.48	2.72	2.40	1.82	1.15	1.32	1.72	18.40
Sierra Ancha	Gila	5,100	1935-53	2.71	2.74	2.84	1.41	0.40	0.36	2.50	3.66	2.30	1.29	1.84	3.12	25.17
Silver Creek Ranch	Navajo	6,200	1939-53	1.21	0.72	1.00	0.74	0.34	0.23	2.18	3.35	1.67	1.18	0.95	1.34	14.91
Snowflake	Navajo	5,644	1897-53	0.77	0.72	0.75	0.69	0.46	0.54	2.18	2.49	1.42	0.87	0.64	0.70	12.23
Springerville	Apache	6,964	1911-53	0.60	0.55	0.58	0.42	0.43	0.50	2.82	3.00	1.59	0.70	0.48	0.56	12.23
Stanton	Yavapai	3,480	1944-53	1.15	0.81	1.29	0.76	0.18	0.07	1.46	2.60	1.01	0.66	1.05	1.35	12.39
Stevens Ranch	Cochise	4,000	1928-53	0.92	0.89	0.58	0.28	0.10	0.56	2.76	2.81	1.39	0.61	0.62	1.03	12.55
Stewart Mt.	Maricopa	1,422	1939-53	1.25	0.96	1.28	0.74	0.21	0.13	0.85	1.93	1.28	0.47	1.07	1.51	11.68
Sunflower	Maricopa	3,500	1945-53	1.94	1.15	2.16	1.20	0.27	0.25	0.27	3.21	2.10	0.77	1.85	2.51	17.68
Superior	Pinal	2,995	1920-53	1.81	1.94	1.76	1.00	0.29	0.23	2.02	2.54	1.41	1.02	1.33	2.10	17.45
Superstition Mountain	Pinal	1,950	1946-53	1.03	0.86	0.93	0.65	0.11	0.24	1.41	1.47	0.59	0.36	1.09	1.04	9.78
Sycamore	Yavapai	4,000	1919-53	1.30	2.08	1.48	1.11	0.25	0.26	1.90	3.03	1.64	1.08	1.07	1.74	16.94
Tanque #9 on W4	Graham	3,560	1939-53	0.65	0.45	0.44	0.17	0.06	0.49	1.39	2.10	1.26	0.44	0.42	0.68	8.55
Tempe	Maricopa	1,159	1926-53	0.77	0.90	0.79	0.48	0.17	0.08	0.74	1.27	0.78	0.32	0.57	1.02	7.89
Tombstone	Cochise	4,540	1897-53	0.81	0.88	0.61	0.32	0.19	0.48	3.61	3.43	1.62	0.63	0.65	0.89	14.12
Fish Hatchery																
Tonto Creek	Gila	6,000	1944-53	3.45	1.95	2.64	1.48	0.65	0.47	3.52	5.34	2.72	1.56	2.58	3.58	29.94
Tonto Spgs. R.S.	Yavapai	4,750	1914-53*	2.06	1.56	1.47	1.24	0.43	0.29	2.32	2.89	1.51	1.21	1.05	2.11	18.14
Topock	Mohave	4,95	1948-53	1.16	0.07	0.40	0.27	0.01	T	0.80	0.90	0.17	0.24	0.17	0.43	4.62
Truxton Canyon	Mohave	3,820	1910-53*	1.08	1.15	0.84	0.69	0.33	0.20	1.42	1.86	1.23	0.66	0.46	1.14	11.06
Tuba City	Coconino	4,936	1897-53	0.54	0.52	0.45	0.50	0.26	0.29	0.84	0.98	0.76	0.68	0.48	0.58	6.88
Tucson Mag. Obs.	Pima	2,526	1912-16 1934-53	0.94	1.01	0.86	0.37	0.20	0.33	2.06	2.15	1.05	0.53	0.80	1.24	11.54
Tucson Mt. Park	Pima	2,850	1943-53	0.68	0.47	0.56	0.45	0.14	0.39	2.42	1.89	0.81	0.87	0.66	0.50	9.84
Tucson Nursery	Pima	2,285	1940-52	0.69	0.65	0.57	0.57	0.17	0.30	1.83	1.98	1.27	0.58	0.76	0.81	10.18
Tucson Airport	Pima	2,558	1940-53	0.64	0.92	0.65	0.47	0.16	0.22	2.00	2.15	1.26	0.60	0.68	0.94	10.69
Tumacacori	Santa Cruz	3,267	1946-53	0.81	0.68	0.61	0.41	0.12	0.23	3.72	2.43	1.25	0.61	0.50	0.86	12.23
Tuweep	Mohave	4,775	1941-53	0.79	0.77	1.37	0.87	0.27	0.38	1.04	2.27	0.52	0.96	0.62	1.39	11.25
Tuweep Hydro	Mohave	4,775	1941-52	0.83	0.90	1.20	0.76	0.26	0.30	0.76	2.25	0.51	0.83	0.56	1.30	10.46
Wallace R.S.	Coconino	7,006	1925-53	1.68	1.57	1.29	1.06	0.49	0.61	2.61	3.10	1.75	1.32	1.00	1.48	17.96
Walnut Creek	Yavapai	5,094	1915-53	1.64	1.70	1.30	0.95	0.38	0.44	2.48	2.88	1.77	0.96	0.64	1.80	16.94
Walnut Grove	Yavapai	3,764	1889-53	1.66	1.90	1.40	0.86	0.25	0.24	2.21	2.61	1.38	1.06	1.21	1.87	16.65
Wellton	Yuma	260	1922-53	0.39	0.45	0.35	0.14	0.03	0.01	0.32	0.82	0.51	0.36	0.20	0.71	4.29
Whiteriver	Navajo	5,280	1922-34 1940-53	1.18	1.36	1.56	1.07	0.52	0.48	2.94	2.97	2.03	1.21	1.23	1.53	18.08
Wickenburg	Maricopa	2,070	1875-86 1908-53	1.25	1.09	0.76	0.58	0.17	0.08	1.18	2.01	0.92	0.56	0.95	1.45	11.00
Willcox	Cochise	4,200	1880-53	0.81	0.92	0.74	0.22	0.23	0.33	2.23	2.54	1.14	0.65	0.65	0.90	11.36
Wikieup	Mohave	2,125	1925-53	0.96	1.60	0.95	0.64	0.08	0.22	0.95	1.69	0.94	0.57	0.48	1.31	10.49
Williams	Coconino	6,750	1888-90 1897-99 1906-53	2.05	2.29	1.97	1.50	0.67	0.38	2.98	3.25	1.80	1.39	1.21	2.24	21.73
Willow Spring	Pinal	3,690	1943-53	1.51	0.59	1.71	0.87	0.12	0.25	2.29	0.32	1.01	0.75	1.14	0.84	11.40
Window Rock	Apache	6,750	1937-53	0.78	0.78	0.84	0.76	0.53	0.62	1.84	1.36	1.36	1.02	0.48	1.05	10.06
Winslow	Navajo	4,880	1888-1900* 1908-53	0.46	0.49	0.43	0.48	0.29	0.27	1.32	1.62	0.89	0.54	0.47	0.62	7.88
Wittman *	Maricopa	1,540	1923-48 1951-53	0.72	1.14	0.80	0.63	0.18	0.04	1.17	1.52	1.11	0.45	0.62	1.32	9.70
Workman Creek I	Gila	6,970	1940-53	4.16	2.64	3.77	1.82	0.50	0.48	2.58	4.04	2.92	1.96	2.14	4.83	31.84
Wupatki	Coconino	4,908	1939-53	0.57	0.34	0.28	0.37	0.31	0.19	1.72	1.66	0.90	0.65	0.37	0.39	7.75
Yava 6 ESE	Yavapai	3,780	1946-53	1.33	0.74	1.06	0.90	0.19	0.18	2.29	2.84	1.02	0.75	0.85	1.39	13.54
Y Lightning Ranch	Cochise	4,480	1939-53	0.78	0.74	0.45	0.29	0.07	0.81	2.44	2.80	1.24	0.44	0.35	0.90	11.31
Young	Gila	5,577	1903- 7 1915-53	2.11	2.05	2.16	1.25	0.42	0.54	3.10	3.31	1.93	1.16	1.48	2.21	21.72
Yuma City	Yuma	138	1870-53	0.41	0.40	0.31	0.10	0.03	0.01	0.22	0.56	0.39	0.26	0.22	0.47	3.38
Yuma AP	Yuma	199	1946-53	0.52	0.07	0.15	0.09	0.04	T.	0.22	0.24	0.14	0.24	0.06	0.39	2.16

* 1939-40; only July, August, and September
** irregular
*** changed station 1949
[1] plus Clemenceau

TABLE 27—MEAN MONTHLY AND ANNUAL PRECIPITATION AT SELECTED CITIES IN THE UNITED STATES FOR THE PERIOD 1921-1953* (INCHES)

STATION	STATE	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Atlanta	Georgia	4.67	4.82	5.67	4.42	3.82	4.02	4.41	3.81	2.96	2.60	3.41	4.55	49.16
Bismark	N. Dakota	0.36	0.43	0.76	1.39	1.94	3.33	2.33	1.50	1.43	1.00	0.53	0.40	15.40
Boise	Idaho	1.33	1.35	1.34	1.10	1.09	0.84	0.18	0.21	0.46	0.94	1.35	1.29	11.48
Boston	Massachusetts	3.50	2.93	3.43	3.46	2.91	3.48	3.18	3.23	2.99	2.79	3.49	3.37	38.76
Buffalo	New York	2.78	2.59	2.72	2.55	2.47	2.70	2.43	2.54	3.01	2.49	3.09	2.92	32.29
Chicago	Illinois	1.84	1.41	2.85	2.82	3.66	4.15	2.73	3.19	3.23	2.56	2.33	1.95	32.72
Dallas	Texas	2.47	2.62	2.81	3.87	4.97	3.45	1.97	1.83	2.71	2.67	2.43	2.62	34.42
Denver	Colorado	0.50	0.53	1.19	2.05	2.20	1.64	1.36	1.43	1.08	1.01	0.70	0.51	14.20
Des Moines	Iowa	1.23	1.08	2.03	2.45	3.60	4.99	2.94	3.76	3.64	2.20	1.68	1.14	30.74
Detroit	Michigan	2.08	2.02	2.53	2.91	3.61	2.90	2.91	2.62	2.78	2.29	2.18	2.20	31.03
El Paso	Texas	0.42	0.36	0.28	0.27	0.41	0.62	1.32	1.32	1.13	0.83	0.38	0.49	7.83
Flagstaff	Arizona	1.69	1.74	1.57	1.26	0.53	0.53	2.49	2.60	1.85	1.46	0.89	1.86	18.47
Galveston	Texas	4.09	2.88	3.10	3.09	3.20	3.35	4.80	3.55	5.44	3.59	3.84	4.26	45.19
Green Bay	Wisconsin	1.29	1.36	1.76	2.51	2.53	3.57	2.59	3.03	2.87	1.80	1.94	1.26	26.51
Helena	Montana	0.51	0.41	0.72	0.88	1.60	2.15	0.98	0.93	1.16	0.68	0.64	0.64	11.30
Jacksonville	Florida	2.82	2.60	3.51	3.04	3.63	6.67	7.89	6.26	6.79	5.13	1.57	2.39	52.30
Kansas City	Missouri	1.43	1.16	2.51	3.61	4.41	5.02	2.83	3.89	3.85	2.93	2.17	1.50	35.31
Los Angeles	California	2.38	3.37	2.36	1.17	0.26	0.07	T	0.02	0.27	0.50	1.03	3.11	14.54
Miami	Florida	2.15	1.73	2.15	3.44	4.27	5.55	4.36	5.06	6.72	7.88	2.16	1.73	47.20
New Orleans	Louisiana	4.78	4.18	6.56	5.47	5.43	5.57	7.09	6.41	5.82	3.66	4.01	4.58	63.54
New York City	New York	3.46	3.13	3.56	3.22	3.51	3.70	4.24	4.34	3.67	3.04	3.09	3.07	42.03
Phoenix	Arizona	0.60	0.79	0.66	0.35	0.17	0.06	0.70	0.99	1.00	0.40	0.47	0.97	7.16
Prescott	Arizona	1.10	1.33	0.98	0.80	0.30	0.23	2.71	3.70	2.16	0.68	0.62	1.37	15.98
Salt Lake City	Utah	1.34	1.40	1.74	1.91	1.70	0.97	0.59	0.95	0.74	1.51	1.56	1.40	15.81
San Francisco	California	4.03	3.91	2.78	1.49	0.59	0.15	0.01	0.01	0.13	1.07	2.27	4.07	20.51
Savannah	Georgia	2.45	2.82	3.49	2.47	2.91	5.17	7.09	6.25	6.50	2.45	1.51	2.64	45.75
Seattle	Washington	4.49	3.74	3.06	1.94	1.61	1.25	0.52	0.87	1.56	3.08	4.46	5.34	31.92
St. Paul	Minnesota	0.80	0.89	1.48	1.91	3.12	4.26	2.67	2.79	2.85	1.65	1.44	0.85	24.71
Tampa	Florida	1.99	2.50	3.12	2.51	3.29	7.77	8.11	8.06	6.45	3.14	1.04	1.96	49.94
Tucson	Arizona	0.63	0.92	0.68	0.32	0.21	0.30	1.80	2.15	1.48	0.47	0.76	0.94	10.66
Washington	D. C.	3.41	2.64	3.36	3.20	3.91	3.42	4.11	4.49	4.36	2.97	2.82	2.75	41.44
Yuma	Arizona	0.33	0.29	0.26	0.10	0.02	0.01	0.23	0.50	0.64	0.32	0.14	0.55	3.39

* Based on Local Climatological Data U. S. Weather Bureau (1953)

Table 28. Rainfall Intensity Records — Three Arizona Stations*

Station & Date	Duration	2 min.	5 min.	10 min.	15 min.	20 min	30 min.	1 hr.	2 hrs.	4 hr.	6 hrs.	12 hrs.
Walnut Gulch Station No. 36** 10/4 & 5/54	Depth (in.)	0.64	0.80	1.13	1.66	1.93	2.55	2.57	2.60	2.60	2.62	2.66
	Intensity (in. per hr.)	19.20	9.60	6.78	6.44	5.79	5.10	2.57	1.30	0.65	0.44	0.22
Page-Trowbridge Ranch*** 9/13/49	Depth (in.)	0.17	0.42	0.84	0.91	0.93	1.00	1.34	1.99	2.33	2.40	2.60
	Intensity (in. per hr.)	5.04	5.04	5.04	3.64	2.79	2.00	1.34	1.00	0.58	0.40	0.22
Soil Conservation Service Nursery, Tucson 9/23/54	Depth (in.)	0.50	0.65	0.90	1.05	1.14	1.31	1.59	1.68	1.89	2.56	2.59
	Intensity (in. per hr.)	15.00	7.80	5.40	4.20	3.42	2.62	1.59	0.84	0.47	0.43	0.22

* Furnished by the courtesy of Joel E. Fletcher, Soil Conservationist, Soil and Water Conservation Research, Agricultural Research Service, U. S. Department of Agriculture.
** Near Tombstone, Arizona.
*** Near Oracle, Arizona.

Rainfall Intensities

The rate at which rainfall occurs is of great importance to many groups of people. The construction engineer is concerned from the standpoint of determining the specifications of structures. The highway and city engineers and the Army Corps of Engineers are interested from the standpoint of runoff and flood control. Insurance companies use the data in determining rates to charge for policies covering water damage to property, and the farmer and cattleman are concerned with rainfall intensities as related to crop damage, penetration, runoff and erosion.

Few weather stations in Arizona are equipped to measure rainfall intensities, so information on this subject is limited. Storms of greater than average intensity from three hydrologic stations in south central Arizona have been recorded in Table 28. At both Tucson and Tombstone the storms were very intense, but for short intervals. The Tombstone intensity record shows that 0.64 inches of rain fell during a 2-minute interval, which is at the rate of 19.20 inches per hour. At the end of the first hour the intensity had dropped to 2.57 inches. After this the amount and intensity of rain diminished rapidly, so that at the end of a 12-hour period total rainfall was 2.66 inches and the intensity only 0.22 inches. The pattern is similar for the storms at the other stations, each record showing about 2.6 inches of rain for the 12-hour period and an intensity record of 0.22 inch per hour for the entire period.

Floods are increasing in seriousness in larger communities where improvements such as housing projects, airports, paving, etc., have reduced the infiltration rate of water into the soil, have obstructed natural drainage ways, and have caused the water to concentrate in the remaining drainage ways, and sometimes to overflow their banks.

The least amount of rain which is measured in a standard weather bureau gauge is 0.01 inch. Table 29 gives the monthly and annual days at all Arizona weather stations on which 0.01 inch or more of precipitation has been measured. Beaverhead Lodge, with 86 days of rainy weather, reports more rainy days per year than any other station in Arizona.

On an annual basis, one-third of the rainy days occur during July and August. The Yuma Valley Farm, which reports an average of 13 rainy days per year, has the distinction of having the fewest days of rain of 0.01 inch or more.

Greatest daily extremes in precipitation have been recorded at Pinal Ranch, (near Superior) and the Safford Experiment Station Farm. Maxima of 5.95 and 1.16 inches of rain were reported respectively. (Table 30.) Note that the record for the Safford Farm is for only seven years, and storms of greater intensity may have occurred outside the area covered by official rain gauges.

A storm (17) of great intensity occurred in the North Central Division during the period August 26-30, 1951. Castle Hot Springs reported 5.32 inches for a 24-hour period, 11.87 inches for that one storm and 14.89 for the month. Crown King reported 5.03 inches and 5.31 inches on two consecutive days with a total of 13.56 inches for the storm and 16.95 for the month. The storm was quite widespread in central and north central Arizona and caused considerable flood damage at Litchfield Park, Hassayampa, Buckeye, Gila Bend, and intermediate points. Flood damage was estimated at more than $750,000 but benefits were many times this amount. Total gains in water storage on the Verde and Salt Rivers alone totaled 209,000 acre feet.

TABLE 29 — AVERAGE NUMBER OF DAYS** WITH 0.01 INCH OR MORE OF PRECIPITATION-ARIZONA STATIONS

STATION	YEARS OF RECORD	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Aguila	1924-1953	3	4	3	2	**	1	4	5	2	2	2	4	32
Ajo	1914-1953	3	3	3	2	1	1	5	6	3	2	2	3	34
Ajo Well	1940-1953	2	2	2	1	**	0	4	5	2	2	2	3	25
Alhambra	1946-1953	3	3	3	2	1	1	5	4	2	2	3	4	33
Alpine	1904-1952	5	6	6	7	4	3	14	13	7	5	4	5	79
Amado	1940-1953	2	2	2	1	**	1	7	6	3	2	1	3	30
Anvil Ranch	1943-1953	3	2	3	2	**	1	7	7	4	3	2	3	37
Apache Powder Co.	1923-1953	4	4	2	2	1	2	11	10	5	3	3	4	51
Ashfork	1909-1953	5	6	4	4	2	2	8	7	4	3	3	5	53
Bagdad (2E)	1925-1953	5	6	4	4	2	1	5	7	4	3	3	5	49
Bartlett Dam	1939-1953	6	4	5	4	1	1	4	5	4	3	3	5	45
Beach Ranch	1940-1953	3	3	3	2	1	1	8	9	4	3	2	4	43
Bear Valley	1943-1953	3	3	3	2	**	1	9	8	4	2	2	3	40
Beaverhead Lodge	1948-1953	8	7	10	5	3	5	17	13	6	4	2	6	86
Benson	1898-1953	3	3	2	2	1	2	8	8	4	2	2	3	40
Betatakin	1939-1953*	5	5	5	5	3	2	8	8	4	3	3	5	56
Bisbee	1892-1953	4	5	4	2	2	3	14	14	6	4	3	4	65
Black River Pumps	1947-1953	7	5	7	4	2	2	10	10	5	3	4	5	64
Bosley's Ranch	1941-1953	4	3	4	2	1	2	8	8	4	3	3	4	46
Bowie	1899-1953	2	3	2	2	1	1	6	6	3	2	2	3	33
Bowie Jct. R15 W W5	1939-1952*	5	2	3	1	**	2	7	7	4	3	2	4	40
Bright Angel RS	1925-1953	8	8	9	5	4	3	9	10	6	4	4	7	77
Buckeye	1893-1953	3	3	2	1	1	**	3	4	2	1	2	3	25
Burrus Ranch	1943-1953	6	6	5	4	2	2	9	10	5	5	4	6	64
Camelback	1927-1953	4	4	3	2	1	**	3	5	3	2	3	3	33
Camp Wood	1950-1953	4	3	4	4	2	**	6	0	2	1	3	4	39
Canelo RS	1910-1953	5	5	4	3	1	3	13	12	6	3	3	5	63
Casa Grande	1898-1914 1917-1953	3	3	2	2	1	1	4	4	2	2	3	3	30
Casa Grande Ruins	1906-1916 1931-1953	4	4	3	2	1	1	5	6	3	2	3	4	38
Chandler Heights	1941-1953	4	4	4	2	1	1	4	5	3	3	2	5	55
Childs	1915-1953	5	8	4	4	2	1	7	8	5	3	3	5	55
Chinle	1908-1928 1935-1953	4	4	4	4	2	2	7	7	5	4	3	4	50
Chino Valley	1941-1953	5	5	5	4	1	1	9	8	4	4	4	5	55
Chiricahua	1948-1953	7	5	7	4	2	2	10	10	5	3	4	5	64
Cibecue	1927-1953	6	6	5	3	2	2	8	10	6	4	3	5	60
Clifton	1908-1953	4	4	3	2	2	2	8	8	4	3	2	4	46
Copper Mine TP	1939-1953	5	5	5	4	2	2	5	6	4	4	3	4	49
Cordes	1925-1953	5	6	4	4	2	1	6	8	5	3	3	5	52
Cortaro 3S.W.	1945-1953	2	2	3	2	**	1	8	6	4	2	2	3	35
Cottonwood*	1920-1936 1949-1953*	4	5	4	4	2	2	7	8	4	3	3	5	51
Crown King	1915-1953	2	7	4	3	2	2	9	9	4	1	4	5	52
Davis Dam	1948-1953	4	2	2	1	1	1	2	2	1	2	2	2	22
Douglas Bd Apt	1948-1953	5	3	3	2	**	2	1	15	10	4	3	4	52
Douglas Smelter	1903-1953	4	4	3	2	1	2	12	11	6	3	3	4	55
Drake R.S.	1915-1953	4	5	4	3	2	1	7	7	4	3	2	5	47
Duncan	1901-1907 1941-1953	3	3	3	2	1	1	7	7	4	3	3	4	41
Eagle Creek	1928-1935	4	4	4	3	2	2	9	8	6	2	3	3	50
Ehrenberg	1941-1953	2	1	2	1	**	**	1	2	1	1	1	2	14
Elgin	1912-1953	3	3	2	2	1	3	11	10	5	2	2	3	47
Fairbank	1909-1953	3	3	2	2	1	2	10	9	4	2	2	3	43
Falcon Field	1942-1944 1947-1953	3	3	3	2	1	1	4	4	2	2	2	3	30
Flagstaff	1898-1953	7	7	8	6	4	3	12	13	7	5	5	7	80
Florence	1908-1922* 1923-1953	4	4	3	2	1	1	4	5	3	2	3	4	36
Flying H Ranch	1948-1953	6	4	5	3	1	3	16	12	6	4	2	5	67
Forestdale	1947-1953	7	6	7	5	2	3	13	12	7	4	4	7	77
Ft. Grant	1900-1905 1918-1953	3	4	3	2	1	1	7	8	4	3	2	3	41
Ft. Valley	1909-1953	7	7	7	6	4	3	12	13	7	5	4	7	82
Fossil Springs	1934-1953	6	7	5	4	1	1	7	8	5	4	3	5	56
Fredonia	1937-1953	5	5	5	5	2	2	4	6	4	4	3	5	50
Fritz Ranch	1940-1953	5	4	5	4	2	2	9	10	6	4	3	4	58
Ganado	1929-1953	6	7	6	5	3	2	9	9	5	5	4	5	66
Gila Bend	1903-1953	2	2	2	1	1	*	3	3	1	1	2	2	17
Gilela	1916-1953	5	5	4	3	2	1	7	7	5	3	3	4	49
Globe	1901-1953	5	5	5	3	2	2	9	9	5	3	4	5	57
Gould Ranch	1915-1953	2	3	2	1	1	*	3	3	2	1	2	2	22
Grand Canyon Hdqs	1903-1953	6	6	6	5	4	2	9	11	5	4	4	6	68
Granite Reef Dam	1909-1953	4	4	3	2	1	1	4	4	2	2	2	4	33
Groom Creek	1942-1953	5	5	5	5	1	1	11	9	4	3	3	5	57
Hackberry	1942-1953	7	6	4	4	1	1	6	5	3	3	2	5	47
Heber	1915-1936* 1948-1953	5	5	4	4	3	3	10	9	5	3	2	4	57
Holbrook	1904-1953	3	4	4	3	2	2	8	7	5	2	3	4	47
Horseshoe Dam	1948-1953	6	4	6	3	1	1	6	6	3	2	3	5	46
Irving	1934-1953	8	7	5	4	2	2	1	7	8	4	3	5	56
Inner Canyon	1935-1953	5	6	6	4	2	2	6	7	4	3	2	5	52
Jeddito	1931-1953	6	7	5	4	3	2	7	8	5	4	3	5	59

TABLE 29-(Continued) AVERAGE NUMBER OF DAYS** WITH 0.01 INCH OR MORE OF PRECIPITATION -- ARIZONA STATIONS

STATION	YEARS OF RECORD	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Jerome	1897-1953	5	6	5	4	2	2	9	9	5	3	3	5	58
Junipine	1935-1953	6	7	6	4	2	1	6	8	4	3	3	5	56
Kayenta	1915-1953	4	4	5	4	3	2	7	7	5	4	3	4	52
Keams Canyon	1894-1905													
	1906-1921*													
	1928-1930													
	1942-1953	6	5	6	4	2	2	8	8	4	4	3	4	56
Kelvin	1938-1953	4	4	4	2	1	1	6	5	4	2	3	4	40
Kingman	1901-1953	4	5	4	3	1	1	4	4	3	2	2	4	37
Lakeside R.S.	1911-1933													
	1949-1953	6	5	5	5	3	3	13	9	6	3	4	5	67
Laveen	1948-1953	4	2	3	3	1	1	5	5	1	1	2	4	42
Lee's Ferry	1916-1938													
	1943-1953	3	3	3	3	2	1	4	6	3	2	2	4	36
Leslie Canyon	1916-1953	3	3	3	2	1	2	9	8	4	2	2	3	42
Leupp	1914-1926													
	1934-1953	2	3	2	3	2	1	5	5	5	2	2	3	35
Litchfield Park	1917-1953	3	4	3	2	1	1	3	4	2	2	2	4	31
Lukachukai	1914-1919*													
	1938-1953	5	6	6	5	4	2	6	6	4	3	4	5	56
Marinette	1913-1953*	3	3	2	2	1	1	3	3	2	1	1	3	25
Maverick	1948-1953	7	5	8	5	1	3	15	16	6	4	3	6	79
Mesa Experiment Farm	1917-1953	3	4	3	2	1	1	3	5	3	2	2	4	33
Miami	1914-1953	6	6	5	3	2	2	9	5	5	3	5	5	56
Montezuma Castle	1938-1953	5	5	4	4	2	1	6	8	5	4	3	6	53
Mormon Flats	1923-1953	4	5	4	2	1	1	4	6	3	2	3	4	39
Mormon Lake	1917-1953					3	2	10	10	6	4			
Mt. Lemmon	1950-1953	4	3	6	5	1	2	14	7	3	1	3	4	53
Mt. Trumbull	1919-1953	5	6	4	4	3	2	6	7	3	3	3	4	50
Natural Bridge	1893-1953	5	6	5	4	2	2	8	9	5	3	4	5	58
N Lazy H. Ranch	1941-1953	3	3	3	2	1	1	8	9	4	3	2	5	44
McNary	1933-1953	7	8	8	5	3	2	12	15	8	5	4	6	83
Nogales	1899-1904													
	1909-1910													
	1914-1953	4	4	3	2	1	2	13	12	6	3	2	4	56
Oracle	1893-1953	4	5	4	3	1	2	9	9	5	3	3	5	53
Organ Pipe Cactus	1941-1953	3	3	3	2	**	**	5	5	3	2	3	3	32
Painted Canyon Ranch	1937-1944													
	1951-1953	5	5	6	4	2	3	14	14	8	4	4	6	75
Parker	1893-1953	3	2	2	1	0	0	2	2	1	1	1	3	18
Parker Creek Upper	1944-1952	7	7	7	4	2	1	9	10	6	5	4	7	69
Patagonia	1921-1953	3	4	3	2	2	2	12	11	5	3	3	3	53
Payson RS	1893-1898													
	1909-1953	6	6	6	4	2	2	10	9	5	4	3	5	62
Peach Springs	1940-1953	4	4	4	3	1	1	5	4	2	2	3	4	37
Pearce	1944-1953	3	3	3	1	**	1	8	7	2	2	2	3	35
Petrified Forest	1931-1953	4	5	4	3	2	2	8	9	5	3	3	4	52
Phoenix Indian School	1928-1953	3	4	2	2	1	1	3	4	2	2	2	3	29
Phoenix Airport	1933-1953	4	4	3	2	1	1	4	5	3	2	2	4	35
Phoenix City	1896-1953	4	4	4	2	1	1	5	5	3	2	3	4	38
Pima Rd on W2	1939-1952	5	3	3	2	1	1	7	7	4	3	2	5	43
Pinal Ranch	1895-1953	5	5	5	3	3	2	8	8	5	3	4	5	56
Pinedale	1912-1953	5	6	5	3	2	2	9	9	5	4	4	5	59
Pinetop Fish H.	1943-1953	6	5	6	4	2	2	10	10	5	4	3	5	62
Pisinemo	1936-1953	3	3	2	1	1	1	5	6	3	2	3	3	32
Poland Junction	1942-1951	5	5	4	3	1	0	7	8	4	4	3	6	50
Portal	1914-1938													
	1945-1953	4	4	4	3	1	2	10	10	5	3	3	4	53
Prescott	1876-1953	5	5	5	4	2	2	10	11	5	3	3	5	60
Redington	1941-1953	4	3	4	2	1	1	7	7	3	3	2	4	41
Red Rock	1889-1935													
	1951-1953	3	4	3	1	1	1	5	5	2	1	2	3	31
Reno RS	1899-1953	5	5	4	3	2	1	6	7	3	3	4	5	48
Rimrock	1942-1953	3	3	2	1	1	0	4	5	2	2	2	4	29
Roosevelt	1905-1953	5	6	5	3	2	1	6	7	4	3	4	5	51
Ruby	1916-1918													
	1930-1953	4	4	3	2	1	2	13	12	6	3	3	4	57
Ruby Star Ranch	1948-1952	4	3	3	3	0	1	9	6	5	2	2	4	42
Rucker Canyon	1917-1953	4	4	4	2	2	3	13	12	5	3	3	4	59
Sabino Canyon	1941-1953	3	3	4	3	1	1	8	8	5	4	2	5	47
Sacaton	1908-1953	4	4	3	2	1	1	5	6	3	2	3	4	38
Safford	1898-1953	3	4	3	2	1	1	6	6	4	3	3	4	40
Safford Exp. Farm	1948-1954	5	2	4	3	1	1	7	6	2	2	2	4	39
St. John's	1901-1953*	5	4	5	4	3	3	10	10	5	3	3	4	59
Sala Ranch	1947-1953	5	4	5	3	1	2	13	11	3	3	2	5	58
Salt River	1941-1953*	4	4	5	4	1	1	6	5	3	2	3	4	42
Salome	1907-1953	3	4	3	2	1	1	5	5	3	2	2	3	34
San Carlos	1940-1953	5	4	3	3	1	1	6	6	4	3	3	4	43
San Carlos Rsvr.	1882-1953	5	5	4	2	1	1	7	7	4	3	3	5	47
Sanders	1949-1953	3	2	5	2	1	1	7	5	3	2	2	3	36
San Rafael Ranch	1923-1953	4	4	3	2	1	2	15	13	6	3	2	4	59
San Simon	1898-1916*													

TABLE 29-(Continued) AVERAGE NUMBER OF DAYS** WITH 0.01 INCH OR MORE OF PRECIPITATION — ARIZONA STATIONS

STATION	YEARS OF RECORD	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
	1921-1953	3	3	3	2	1	1	6	6	3	2	2	3	34
Santa Rita Range	1916-1953	4	4	4	3	1	2	12	11	5	3	3	4	56
Sedona	1943-1953	6	7	6	5	2	1	8	8	5	5	4	6	63
Seligman	1904-1953	4	4	3	3	1	1	6	6	3	2	2	3	38
Sells	1911-1913 1917-1925 1940-1953	2	3	3	2	*	1	7	7	3	2	2	4	36
Seneca Creek	1941-1951	6	6	6	3	1	2	9	8	5	5	4	6	61
Sentinel	1899-1917 1950-1953	2	2	1	1	0	0	2	3	1	1	1	1	15
Showlow	1893-1909* 1915-1925*	5	5	6	3	2	2	9	10	6	4	4	5	62
Sierra Ancha	1935-1953	7	7	7	4	2	1	9	10	6	4	4	7	68
Silver Creek Ranch	1939-1953	5	5	5	3	2	1	9	9	5	4	3	5	56
Snowflake	1897-1953	3	4	4	3	2	2	8	8	4	3	3	3	47
Springerville	1911-1953	4	3	4	3	2	4	12	12	6	3	3	3	59
Stanton	1944-1953	4	2	4	3	1	1	5	6	3	2	3	4	38
Stephen's Ranch	1928-1953	3	3	2	1	1	2	9	8	4	2	2	3	40
Stewart Mt.	1939-1953	5	4	4	3	1	0	4	5	3	2	3	5	39
Sunflower	1945-1953	3	3	5	3	1	1	5	6	5	2	3	4	41
Superior	1920-1953	5	6	5	4	2	2	7	8	6	3	3	6	57
Superstition Mt.	1946-1953	4	3	4	3	1	1	5	4	2	2	3	5	37
Sycamore RS	1919-1953	4	5	4	3	1	1	6	8	4	3	3	4	46
Tanque R9 on W4	1939-1952*	4	2	2	1	1	2	6	8	4	2	2	3	37
Tempe	1926-1953	4	4	3	3	1	1	3	5	3	2	3	4	36
Tempe U. of A. Citrus	1943-1954	4	4	3	2	1	**	4	6	2	2	3	4	38
Tombstone	1897-1953	3	4	3	2	1	3	10	11	6	2	3	3	51
Tonto Creek Fish H.	1944-1953	7	6	6	5	3	2	10	11	6	3	4	5	68
Tonto Springs RS	1944-1953*	5	5	4	3	2	1	8	8	4	3	3	4	50
Topack	1948-1953	3	1	2	2	1	**	2	2	2	1	1	2	19
Truxton Canyon	1910-1953*	4	5	3	3	2	1	6	6	3	3	2	5	43
Tuba City	1897-1953	3	3	3	3	2	1	5	5	3	3	2	3	36
Tucson Airport	1940-1953	4	4	4	3	1	1	11	9	5	4	3	5	54
Tucson Campbell Ave	1949-1954	3	2	4	5	1	1	9	6	3	1	2	4	41
Tucson Mag. Ob.	1911-1916 1934-1953	4	5	4	3	1	1	9	9	5	3	3	5	52
Tucson Mt. Park	1943-1953*	5	2	3	3	1	1	9	6	3	3	2	3	41
Tucson Nursery	1940-1952	4	3	4	2	**	0	8	6	4	3	2	4	40
Tucson U of A	1891-1954	4	4	3	2	1	1	9	9	5	3	3	4	48
Tumacacori	1946-1953	4	3	4	3	1	1	15	12	6	3	3	5	60
Tuweep	1941-1953	4	4	5	5	2	1	5	7	2	4	3	5	47
Wallace RS	1925-1953	4	5	5	4	2	2	9	11	6	3	3	6	60
Walnut Creek	1915-1953	4	5	4	4	2	1	8	9	5	3	3	5	51
Walnut Grove	1893-1953	3	4	4	3	1	1	6	7	3	2	3	4	41
Wellton	1922-1953	2	3	2	1	**	**	2	3	2	1	1	3	20
Whiteriver	1922-1934 1940-1953	5	6	6	5	3	2	13	12	6	4	5	6	73
Wickenburg	1876-1886 1908-1953	3	3	3	2	1	1	6	5	2	2	2	4	33
Willcox	1884-1953	3	4	3	2	1	2	9	8	4	3	3	4	46
Wikieup	1925-1953	3	4	3	2	1	1	3	4	2	2	2	4	31
Williams	1897-1899 1902-1953	6	6	6	5	3	2	10	10	5	4	3	5	65
Willow Springs	1943-1953*	3	3	4	3	1	1	6	7	3	2	3	2	38
Window Rock	1937-1953	7	8	8	6	3	3	10	11	7	5	3	7	78
Winslow	1893-1900* 1908-1953	3	4	4	3	2	2	7	9	4	3	3	4	48
Wittman	1923-1948 1951-1953	3	4	3	2	1	*	4	5	3	2	2	4	33
Workman Creek	1940-1952	9	7	7	4	2	1	10	9	6	6	4	6	71
Wupatki	1939-1953	3	4	3	4	2	2	6	2	4	3	3	4	40
Yava 6 ESE	1946-1953	4	3	3	3	1	**	5	6	3	3	2	4	37
Y Lightning Ranch	1939-1953	3	2	2	1	**	2	8	7	3	1	2	2	33
Young	1903-1907 1915-1953	5	6	5	4	2	2	9	9	5	3	3	5	58
Yuma City	1875-1896 1911-1953	2	2	2	1	**	**	1	2	1	1	1	2	15
Yuma Citrus Exp. Farm	1927-1953	2	2	2	1	**	**	1	2	1	1	1	2	15
Yuma Valley Farm	1930-1954	2	2	1	1	**	**	1	2	1	1	1	2	13
Yuma WB Airport	1946-1953	2	1	2	1	0	2	1	1	1	1	1	2	15

* Irregular
** Less than one

TABLE 30 — DAILY EXTREMES OF PRECIPITATION AT ARIZONA STATIONS

STATION	ALTITUDE	YEARS OF RECORD	INCHES	DATE
Aguila	2,280	1924-53	3.05	Mar. 1937
Ajo Well	1,401	1914-53	4.15	Sept.1946
Alhambra	1,115	1946-53	2.74	Oct. 1946
Alpine	8,000	1904-53	2.41	Oct. 1916
Amado	2,880	1941-53	2.58	Oct. 1951
Anvil Ranch	2,750	1943-53	2.27	Sept.1944
Apache Powder Co.	3,690	1923-53	3.35	Sept.1926
Ashfork	5,140	1929-53	2.02	Aug. 1951
Bagdad (2E)	(3,200			
	(3,750	1925-53	3.00	June 1952
Bartlett Dam	1,650	1939-53	4.00	Aug. 1951
Beach Ranch	4,000	1940-53	3.52	Aug. 1944
Bear Valley	4,025	1943-53	1.89	Aug. 1947
Beaverhead Lodge	8,000	1948-53	2.09	Aug. 1948
Benson	3,585	1894-1953	2.42	July 1919
Betatakin	7,200	1939-53	1.84	July 1945
Bisbee	5,350	1893-1953	4.25	July 1910
Black River Pump	6,040	1947-53	2.10	Aug. 1951
Bosley Ranch	4,800	1941-53	1.91	Oct. 1951
Bowie Junction	4,720	1939-52	2.30	Sept.1944
Bowie	3,756	1899-1953		
Bright Angel RS	8,400	1925-53	3.60	Jan. 1952
Buckeye	888	1893-1953	2.86	July 1907
Burrus Ranch	6,800	1943-53	3.12	Dec. 1951
Camelback	1,250	1927-53	2.73	Aug. 1951
Camp Wood	5,708	1950-53	4.07	Aug. 1951
Canelo RS	5,000	1910-53	4.30	Aug. 1929
Casa Grande	1,390	1898-1953	2.92	Sept.1946
Casa Grande Ruins	1,419	1906-16	5.40	Aug. 1906
		1931-53	2.92	Sept.1946
Castle Hot Springs (4N)	2,800	1949-53	5.32	Aug. 1951
Cave Creek	2,050	1950-53	2.35	Aug. 1951
Chandler Heights	1,445	1941-53	2.28	Sept.1946
Childs	2,650	1915-53	5.12	Sept.1927
Chinle	5,538	1908-28		
		1935-53	2.50	Jan. 1943
Chino Valley	4,673	1941-53	3.64	July 1953
Chiricahua	5,300	1948-53	1.72	Aug. 1951
Cibecue	5,300	1927-53	3.30	Sept.1929
Clifton	3,465	1908-53	1.98	Sept.1941
Copper Mine TP	6,380	1939-53	2.66	Sept.1939
Cordes	3,773	1925-53	3.28	Sept.1943
Cortaro	2,283	1945-53	4.41	July 1953
Cottonwood	3,320	1920-36		
		1949-53	3.54	Aug. 1925
Crown King	6,000	1915-53	5.05	Aug. 1918
Davis Dam	628	1948-53	2.03	Aug. 1951
Douglas Smelter	3,973	1903-53	3.58	Sept.1926
Douglas B-D Apt.	4,098	1948-53	2.50	July 1950
Drake R.S.	4,650	1915-53	2.92	Sept.1941
Duncan	3,642	1901-07		
		1941-53	2.10	Aug. 1942
Eagle Creek	5,100	1928-53	2.83	Sept.1933
Ehrenberg	323	1941-53	2.42	Aug. 1951
Elgin	4,780	1912-53	3.25	Jan. 1916
Fairbank	3,862	1909-53	2.60	July 1910
Falcon Field	1,320	1942-44		
		1947-53	2.20	Aug. 1951
Flagstaff	6,993	1893-1953	3.59	Nov. 1919
Florence	1,500	1908-22		
		1923-53	2.27	July 1921

STATION	ALTITUDE	YEARS OF RECORD	INCHES	DATE
Fort Grant	4,851	1873-1905		
		1918-53	3.04	Aug. 1918
Fort Valley	7,347	1909-53	2.46	Aug. 1929
Flying H Ranch	5,075	1948-53	2.53	Dec. 1949
Fossil Springs	4,269	1934-53	2.81	Aug. 1951
Forestdale	6,100	1947-53	2.98	Aug. 1951
Fredonia	5,000	1937-53	1.37	Aug. 1938
Fritz Ranch	4,321	1940-53	2.30	Aug. 1947
Ganado	6,350	1929-53	2.60	June 1941
Gila Bend	735	1903-53	2.61	Aug. 1951
Gisela	2,900	1916-53	4.35	Sept.1946
Globe	3,540	1905-53	3.69	Jan. 1952
Goulds Ranch	1,195	1915-53	3.15	Aug. 1951
Grand Canyon	6,890	1903-53	2.70	Sept.1937
Granite Reef Dam	1,325	1909-53	3.20	Aug. 1951
Groom Creek	6,100	1942-53	2.55	Dec. 1951
Hackberry	3,575	1942-51	1.57	Aug. 1951
Heber R.S.	6,600	1915-36		
		1948-53	4.35	Aug. 1951
Holbrook	5,069	1903-53	2.87	July 1914
Horseshoe Dam	2,020	1948-53	4.44	Aug. 1951
Inner Canyon	2,490	1935-53	2.69	Aug. 1951
Irving	3,762	1934-53	3.20	Sept.1946
Jeddito	6,700	1931-53	2.26	Aug. 1934
Jerome	5,245	1897-1953	3.73	Nov. 1919
Junipine	5,124	1935-53	5.53	Mar. 1938
Kayenta	5,675	1915-53	1.96	July 1953
Keams Canyon	6,205	1894-1921		
		1928-30		
		1942-53	2.03	July 1914
Kelvin	1,814	1938-53	2.37	Aug. 1951
Kingman	3,333	1901-53	2.78	Sept.1940
Lakeside	6,700	1911-33		
		1946-53	3.57	July 1912
Laveen	1,100	1948-53	2.52	Aug. 1951
Lee's Ferry	3,141	1916-38		
		1943-53	2.06	Aug. 1934
Leslie Canyon	4,461	1916-53	2.94	Aug. 1927
Leupp	4,700	1914-26		
		1934-53	2.86	July 1951
Litchfield Park	1,030	1917-53	2.71	Sept.1925
Lukachukai	6,400	1914-19		
		1938-53	1.93	Oct. 1941
Marinette	1,150	1914-53*	2.30	Nov. 1923
Maverick	7,800	1948-53	2.65	Jan. 1952
McNary	7,280	1933-53	2.95	Jan. 1952
Miami	3,603	1914-53	3.23	June 1922
Montezuma Castle	3,180	1938-53	3.46	Aug. 1943
Mormon Flat	1,715	1923-53	4.49	Aug. 1930
Mormon Lake	7,000	May-Oct. 1917-53	4.37	Aug. 1947
Mount Lemmon	7,690	1950-53	3.50	Oct. 1951
Mount Trumbull	5,600	1919-53	2.05	Sept.1939
Natural Bridge	4,607	1893-1953	4.90	Sept.1916
N.Lazy H Ranch	3,000	1941-53	1.81	Oct. 1951
Nogales	3,800	1899-1953	2.36	Sept.1919
Oracle	4,600	1893-1953	4.30	Dec. 1923
Organ Pipe Cactus	1,663	1944-53	3.48	Aug. 1951
Painted Canyon R.	5,400	1937-44		
		1951-53	2.80	Aug. 1942

* Irregular

TABLE 30-(Continued) DAILY EXTREMES OF PRECIPITATION AT ARIZONA STATIONS

STATION	ALTITUDE	YEARS OF RECORD	INCHES	DATE
Parker	425	1893-1953	3.43	Sept.1939
Parker Crk. Upper	5,500	1940-52	3.52	Sept.1943
Patagonia	4,044	1921-53	4.45	Sept.1946
Payson	4,906	1893-98		
		1909-53	4.01	Nov. 1919
Peach Springs	4,810	1940-53	1.86	Aug. 1951
Pearce	4,388	1944-53	3.35	July 1945
Petrified Forest	5,460	1931-53	1.98	Aug. 1949
Phoenix Indian School	1,115	1928-53	2.05	Aug. 1951
Phoenix Airport	1,114	1933-53	3.07	Aug. 1943
Phoenix City		1896-1953	4.98	July 1911
Pima R4 on W2	3,766	1939-53	2.89	Sept.1941
Pinal Ranch	4,520	1895-1953	5.95	Jan. 1905
Pinedale	6,500	1912-53	4.06	Aug. 1951
Pinetop	7,500	1943-53	2.42	Sept.1946
Pisinemo	1,900	1936-53	3.70	Sept.1946
Poland Junction	4,900	1942-51	2.73	Aug. 1948
Portal	5,000	1914-38 1945-53	2.73	Dec. 1923
Prescott	5,354	1871-1953	4.28	Nov. 1919
Redington	2,869	1941-53	1.89	Aug. 1951
Red Rock	1,867	1889-1935 1951-53	2.40	Sept.1952
Reno R. S.	2,350	1899-1953	3.99	Aug. 1951
Rimrock	3,600	1942-53	2.70	Sept.1947
Roosevelt	2,200	1905-53	3.40	Sept.1946
Ruby	3,975	1916-18 1930-53	4.43	July 1941
Ruby Star Ranch	3,800	1948-53	2.93	July 1948
Rucker Canyon	5,600	1917-53	3.74	Aug. 1943
Sabino Canyon	2,610	1941-53	2.66	July 1941
Sacaton	1,280	1908-53	2.72	Sept.1946
Safford	2,900	1898-1953	3.04	Sept.1944
Saint John's	5,560	1901*-53	2.82	July 1953
Sala Ranch	5,190	1947-53	2.25	Aug. 1951
Salt River	4,265	1941-53	2.40	Aug. 1943
Salome	1,700	1907-53	2.60	Aug. 1909
San Carlos	2,643	1940-53	3.40	Aug. 1951
San Carlos Resvr.	2,532	1882-1953	2.90	Aug. 1907
Sanders	5,921	1949-53	1.01	Oct. 1951
San Rafael Ranch	4,741	1923-53	3.50	Sept.1926
San Simon	3,608	1898-1916* 1921-53	4.00	Mar. 1905
Santa Rita Range	4,300	1916-53	3.32	July 1950
Sedona	4,223	1943-53	2.00	Apr. 1946
Seligman	5,219	1904-53	3.40	Oct. 1921
Sells	2,369	1911-13 1917-35 1940-53	2.90	July 1950
Seneca Creek	5,000	1941-52	2.33	Sept.1946
Sentinel	690	1899-1917* 1950-53	2.53	July 1911
Show Low	6,412	1889-1909 1915-25 1951-53	1.96	Mar. 1925
Sierra Ancha	5,100	1935-53	4.58	Aug. 1951
Silver Creek Ranch	6,200	1939-53	2.48	July 1944
Snowflake	5,644	1857-1953	2.74	Aug. 1951
Springerville	6,964	1911-53	2.13	July 1921
Stanton	3,480	1941-53	1.89	Aug. 1945
Stephen's Ranch	4,000	1928-53	2.70	July 1949
Stewart Mtn.	1,422	1939-53	4.30	Aug. 1951
Sunflower	3,500	1945-53	5.15	Aug. 1951
Superior	2,995	1920-53	3.06	Aug. 1930
Superstition	1,950	1946-53	2.07	Aug. 1951
Sycamore	4,000	1919-53	3.48	Sept.1919
Tanque R9 on W4	3,560	1939-52	1.75	Sept.1943
Tempe	1,159	1926-53	3.30	Aug. 1951
Tombstone	4,540	1897-1953	3.00	Jan. 1916
Tonto Crk.Fish H.	6,000	1941-53	3.06	Dec. 1948
Tonto Springs RS	4,750	1914-53*	3.51	Sept.1933
Topock	495	1948-53	2.60	Aug. 1951
Truxton Canyon	3,820	1910-53*	3.32	Sept.1940
Tuba City	4,936	1897-1953	3.40	Sept.1926
Tucson Mag. Obs.	2,526	1912-16 1934-53	2.94	Aug. 1940
Tucson Mtn. Park	2,850	1943-53*	2.40	Oct. 1945
Tucson Nursery	2,285	1940-52	2.85	June 1950
Tucson Airport	2,558	1940-53	2.73	Sept.1943
Tumacacori	3,267	1946-53	2.55	Oct. 1951
Tuweep	4,775	1941-53	2.15	Dec. 1951
Wallace R. S.	7,006	1925-53	2.51	Sept.1927
Walnut Creek	5,090	1915-53	4.57	Aug. 1931
Walnut Grove	3,764	1893-1953	4.00	July 1916
Wellton	260	1922-53	2.19	Dec. 1926
Whiteriver	5,280	1922-34 1940-53	4.02	July 1932
Wickenburg	2,070	1876-86 1908-53	3.01	Aug. 1935
Willcox	4,200	1883-91 1899-1953	3.43	Aug. 1906
Wikieup	2,125	1925-53	5.00	July 1934
Williams	6,750	1897-1906* 1907-53	3.30	Feb. 1918
Willow Springs	3,690	1943-53*	2.99	July 1945
Window Rock	6,750	1937-53	2.38	July 1945
Winslow	4,880	1888-1900* 1908-53	2.43	Aug. 1928
Wittman	1,540	1923-48 1951-53	2.69	Aug. 1931
Workman Creek I	6,970	1940-53	3.93	Dec. 1945
Wupatki	4,908	1939-53	1.25	Aug. 1946
Yava 6 ESE	3,780	1946-53	2.29	Oct. 1946
Y Lightning Rch.	4,480	1939-53	2.55	Aug. 1941
Young	5,577	1903-07 1915-53	5.27	Aug. 1951
Yuma City	138	1875-92 1940-53	4.01	Aug. 1919
Yuma W. P. A. P.	199	1946-53	1.58	Jan. 1949
Experimental Farms				
NYA	2,423	1891-1954	2.88	Aug. 1935
Tempe Citrus	1,180	1943-54	3.30	Aug. 1951
Safford Farm	2,954	1948-54	1.16	Sept.1954
Tucson Campbell A.	2,230	1949-54	2.48	June 1954
Mesa	1,225	1917-54	2.63	Aug. 1951
Yuma Valley	110	1931-53	1.67	Sept.1939
Yuma Citrus	191	1920-54	2.99	Sept.1921

* Irregular

TABLE 31 — MEAN MONTHLY AND ANNUAL SNOWFALL (INCHES) ARIZONA STATIONS

STATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Aguila	1924-53	0.3	0	T	0	0	0	0	0	0	0	0	0.1	0.4
Ajo	1914-53	T	T	0	0	0	0	0	0	0	0	0	T	T
Ajo Well	1940-53	0	0	0	0	0	0	0	0	0	0	0	0	0
Alhambra	1946-53	0	0	0	0	0	0	0	0	0	0	0	0	T
Alpine	1904-53	16.9	14.6	11.1	3.9	0.7	0.1	0	0	T	0.3	6.7	12.9	67.2
Amado	1941-53	0.5	0.4	0.4	0	0	0	0	0	0	0	0	0.3	1.6
Anvil Ranch	1943-53	0	0.4	0.3	0	0	0	0	0	0	0	0	0	0.7
Apache Powder Co.	1923-53	1.0	0.3	0.1	T	0	0	T	0	0	0	0	0.3	1.7
Ash Fork	1902-53	5.1	3.8	2.3	0.6	T	T	0	0	T	T	1.0	4.1	16.9
Bagdad (2E)	1925-53	1.6	0.5	0.1	T	0	0	0	0	0	0	T	0.7	2.9
Bartlett Dam	1940-53	T	0	0	0	0	0	0	0	0	0	0	0	T
Beach Ranch	1948-53	3.5	0.8	3.0	0.2	0	0	0	0	0	0	0	1.3	8.8
Bear Valley	1943-53	1.5	1.3	2.1	0.2	0	0	0	0	0	0	0	0.4	5.5
Benson	1894-53	0.7	7	0.0	T	0	0	T	0	0	0	T	0.2	1.6
Betatakin	1939-53	11.6	11.5	7.0	2.8	0.6	T	T	T	T	0.9	4.8	12.3	51.5
Bisbee	1893-53	3.8	2.4	1.5	0.3	T	T	T	T	0	0.1	0.6	2.2	10.9
Bosley's Ranch	1941-53	3.9	1.8	1.5	0.6	T	T	T	T	T	T	0.4	1.8	10.0
Bowie	1899-53	0.9	0.5	0.7	T	0	0	0	T	0	0	0.1	0.4	2.6
Bright Angel RS	1925-53	30.6	25.5	24.7	10.4	3.9	0.1	0	0	T	2.6	10.9	23.8	132.5
Buckeye	1915-53	T	0	0	0	0	0	0	0	0	0	T	T	T
Burrus Ranch	1943-53	19.2	10.2	12.7	2.8	1.4	T	T	T	T	0.6	5.2	7.1	59.2
Camp Wood	1950-53	5.7	3.0	11.7	1.0	T	0	0	0	0	0	0	6.4	27.8
Canelo R S	1910-53	3.5	2.7	1.6	T	T	T	0	0	0	T	0.4	2.1	10.7
Casa Grande	1898-53	0.1	0	T	T	0	T	0	0	0	0	0	0	0.1
Casa Grande Ruins	(1906-16 (1931-53	T	T	0	T	0	0	0	0	0	0	0	T	T
Chandler Heights	1941-53	0	0	0	0	0	0	0	0	0	0	0	0	0
Childs	1915-53	0.6	0.4	T	T	0	0	0	0	0	0	0.1	0.4	1.5
Chinle	(1908-28 (1935-53	3.4	2.5	1.1	0.3	T	T	T	T	T	0.2	0.9	2.8	11.2
Chino Valley	1941-53	5.3	3.5	3.3	0.3	T	0	T	T	T	0.1	0.9	2.2	15.6
Chiricahua	1948-53	9.0	2.9	4.0	0.3	T	0	T	T	T	T	0.7	2.3	19.2
Cibecue	1927-53	8.0	3.7	3.9	1.0	T	T	T	T	T	T	1.9	4.2	22.7
Clifton	1908-53	0.7	T	T	0	0	0	0	0	0	0	0.5	0.7	1.9
Copper Mine TP	1939-53	4.0	2.6	1.9	0.8	T	0	0	T	0	T	0.2	4.4	13.9
Cordes	1925-53	2.2	0.8	0.4	0.2	0	T	0	0	T	T	0.1	0.6	4.3
Cortaro 3 SW	1945-53	0.5	0	0	0	0	0	0	0	0	0	0	0.1	0.6
Cottonwood* and Clemenceau	(1920-36 (1949-53	1.2	0.1	0.4	T	T	0	0	0	0	0	T	T	1.7
Crown King	1915-53	16.1	11.4	9.2	2.4	0.2	T	T	T	T	0.2	3.1	9.8	52.4
Davis Dam	1948-53	0.6	0	T	0	0	T	0	0	0	0	T	T	0.6
Douglas B-D Apt	1948-53	2.4	0.4	0.6	T	0	0	0	T	0	0	T	0.2	3.6
Douglas Smelter	1903-53	1.1	0.5	0.3	T	T	0	T	0	0	0	0.2	0.5	2.6
Drake R. S.	1915-53	5.4	3.1	1.5	0.6	0.1	0	0	0	0	1.1	1.1	3.8	15.7
Duncan	(1901-7 (1941-53	1.0	0.3	0.1	0.1	0	0	0	0	0	0	0	0.6	2.1
Eagle Creek R. S.	1928-53	3.5	0.6	0.1	T	0	0	T	0	T	0	1.1	1.0	6.3
Ehrenberg	1941-53	0	0	0	0	0	0	0	0	0	0	0	T	T
Elgin	1912-53	2.1	1.5	0.8	0.3	T	0	0	T	0	T	0.2	0.9	5.8
Fairbank	1909-53	0.8	0.5	0.3	T	0	0	0	0	0	T	T	0.5	2.1
Falcon Field	(1942-44 (1947-53	0	0	0	0	0	0	0	T	T	0	0	T	T
Flagstaff	1897-53	20.0	14.9	14.1	5.6	1.8	T	T	T	T	1.1	6.0	13.3	76.8
Florence	1908-53*	0.1	T	T	T	0	0	0	0	0	0	T	T	0.1
Flying H Ranch	1948-53	4.4	1.5	1.2	0.7	0	T	T	T	T	0	0.3	1.8	9.9
Forestdale	1947-53	13.2	14.5	16.3	2.1	0.5	T	T	T	T	1.6	7.5	8.5	64.2
Fort Grant	(1900-1905 (1918-52	0.8	1.2	0.7	0.6	T	0	0	0	0	0	0.2	0.9	4.4
Fort Valley	1909-53	19.8	16.2	13.9	7.0	1.4	0.1	T	T	T	1.7	5.8	17.2	83.1
Fossil Spring	1951-53	T	T	T	T	T	T	0	0	0	0	T	0.5	0.5
Fredonia	1937-53	8.4	4.5	4.6	0.9	T	0	T	T	T	0.3	0.9	5.6	25.2
Fritz Ranch	1948-53	0.6	T	T	T	0	0	0	0	0	T	T	T	0.6
Ganado	1929-53	6.3	5.5	4.8	1.3	0.2	T	0	0	T	0.5	3.8	6.5	28.9
Gila Bend	1903-53	T	0	0	0	0	0	0	0	0	0	0	T	T
Gisela	1916-53	1.4	0.8	0.3	0.1	T	0	0	0	0	T	0.2	0.9	3.7
Globe	1901-53	1.7	0.8	0.9	0.1	T	0	0	T	0	T	0.1	0.4	4.0
Gould's Ranch	1915-53	T	T	0	0	0	0	0	0	0	0	T	T	T
Grand Canyon Hdqs.	1903-53	15.0	13.2	9.7	3.3	1.3	T	T	T	T	0.8	5.3	12.7	61.3
Granite Reef Dam	1909-53	0.1	0.1	T	0	0	0	0	0	0	0	0	T	0.2
Groom Creek	1942-53	9.6	15.0	13.9	4.6	0.2	T	T	T	0	0.5	3.7	7.2	54.7
Heber	(1915-36 * (1948-53	9.1	9.7	9.4	2.2	0.5	T	T	0	T	0.6	4.4	10.7	46.6
Holbrook	1903-53	2.3	2.8	1.1	0.3	T	0	0	0	0	T	1.5	2.6	10.6
Horseshoe Dam	1948-53	0	T	T	0	0	0	T	T	0	0	T	0	T
Inner Canyon	1935-53	0.2	0.6	T	0	0	0	0	0	0	0	0	T	0.8
Jeddito	1931-53	10.1	6.9	6.8	1.9	0.1	T	T	T	0	0.2	3.8	8.7	38.5

TABLE 31 -(Continued) MEAN MONTHLY AND ANNUAL SNOWFALL (INCHES) ARIZONA STATIONS

STATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
Jerome	1897-53	6.7	5.2	2.7	1.0	0.1	T	T	T	0	T	2.3	2.7	20.7
Junipine	1935-53	15.3	11.6	11.1	2.5	0	0	0	0	0	0.2	0.8	5.8	47.3
Kayenta	1915-53	5.0	3.6	2.6	1.0	0.1	T	T	T	0.1	0.1	1.6	3.4	17.5
Keams Canyon	(1894-99 (1906-21 (1928-30	8.7	7.0	3.6	0.9	0.4	0	0	0	0.1	0.3	3.8	6.2	31.0
Kelvin	1938-53	T	T	T	0	0	0	T	T	0	0	0	T	T
Kingman	1901-53	1.4	0.3	0.8	0.1	0	0	0	T	0	T	0.4	1.1	4.1
Lakeside	(1911-33 (1949-53	14.8	13.3	11.2	3.2	1.4	T	T	T	T	1.4	6.4	12.7	64.4
Laveen	1948-53	0	T	T	T	0	0	0	T	T	T	0	T	T
Lee's Ferry	(1916-38 (1943-53	1.5	0.1	T	T	0	0	0	0	0	0	0.8	1.1	3.5
Leslie Canyon	1916-53	1.4	0.5	0.3	0.1	0	T	T	0	0	0	0.2	0.9	3.4
Leupp	(1914-26 (1934-53	1.5	1.1	0.5	T	T	0	T	T	0	0.1	0.5	1.7	5.4
Litchfield Park	1917-51	T	0	T	0	0	0	0	0	0	T	T	T	T
Lukachukai	(1914-19 (1951-53	14.1	10.4	7.0	3.1	0.9	T	0	0	0	0.4	4.8	10.1	50.8
Marinette	1913-52	T	T	0	0	0	0	0	0	0	0	0	0	T
Maverick	1948-53	25.6	14.4	13.3	7.2	0.9	T	T	T	T	0.3	8.8	17.7	88.2
McNary	1933-53	22.9	22.9	20.6	7.5	1.0	0.1	T	T	T	1.2	8.9	14.8	99.9
Miami	1914-35	1.4	0.6	0.6	T	T	0	T	T	T	T	0.1	0.8	3.5
Montezuma Castle	1938-53	1.4	0.8	0.3	0.1	0	0	0	0	0	0	T	0.1	2.7
Mormon Flats	1923-53	0.3	0.1	T	T	0	0	0	0	0	0	0	T	0.4
Mormon Lake	1916-53					1.9	0	T	T	T	1.7			
Mt. Lemmon	1950-53	10.2	8.2	22.5	14.8	T	T	T	T	T	0	11.1	8.4	75.2
Mt. Trumbull	1919-53	3.7	3.8	2.3	0.5	T	0	T	T	T	0.4	1.5	5.3	17.5
Natural Bridge	1893-53	6.0	5.7	2.6	0.9	T	0	T	T	0	T	1.4	4.2	20.8
N Lazy H Ranch	1941-53	1.3	0.4	0.3	T	0	0	0	0	0	0	0	0.6	2.6
Nogales	(1899-04 (1909-10 (1914-53	0.7	0.6	0.6	0.1	0	0	T	T	T	T	0.1	0.4	2.5
Oracle	1893-53	3.1	3.4	2.4	0.5	T	T	T	0	0	T	0.8	2.1	12.3
Organ Pipe Cactus	1944-53	0	T	0	T	0	0	T	T	0	0	0	T	T
Painted Canyon Ranch	(1937-44 (1951-53	2.8	3.9	1.8	0.4	T	T	T	T	T	T	1.0	4.2	14.1
Parker	1894-53	T	T	0	0	0	0	0	0	0	0	0	0.1	0.1
Patagonia	1921-53	0.9	0.5	0.4	0.1	T	0	T	T	T	T	0.1	0.5	2.5
Payson	(1891-98 (1909-53	8.1	6.2	3.7	1.0	0.2	0	T	0	0	T	1.9	5.2	26.3
Peach Springs	1948-53	1.6	0.8	3.1	T	0	T	T	T	0	0.2	0.4	2.6	8.7
Pearce	1944-53	2.5	2.0	0.3	0.4	0	0	0	T	0	0	T	0.8	6.0
Petrified Forest	1931-53	2.1	1.4	1.7	0.4	T	0	T	T	T	0.1	2.0	2.2	9.9
Phoenix Indian School	1928-53	T	0.1	T	T	0	0	0	0	T	T	0	T	0.1
Phoenix Airport	1933-53	T	T	T	T	T	0	0	0	T	0	0	T	T
Pinal Ranch	1895-53	5.7	4.5	3.6	1.4	0.1	0	0	0	0	T	0.9	4.4	20.6
Pinedale	1912-53	13.3	10.9	5.6	2.4	0.8	T	0	0	T	0.3	4.9	11.1	49.3
Pinetop	1943-53	17.4	13.6	18.1	3.5	0.5	0.1	0	T	0	1.6	8.3	12.6	75.7
Pisinemo	1936-53	0.1	T	0	0	0	0	0	0	0	T	0	T	0.1
Portal	(1914-38 (1945-53	3.9	1.0	0.6	0.3	T	T	0	T	T	0.3	1.1	3.1	10.3
Prescott	1880-53	8.6	5.9	5.2	1.1	0.3	T	T	T	0	0.2	2.8	5.6	29.7
Redington	1941-53	0.3	T	0.2	0	0	0	0	0	0	0	0	T	0.5
Red Rock	(1894-35 (1951-53	T	0.1	0.2	T	0	0	0	0	0	0	0	T	0.3
Reno R. S.	1901-53	0.4	0.2	T	0	0	0	0	0	0	0	T	0.3	0.9
Rimrock	1942-53	2.1	0.7	1.0	T	0	0	T	0	T	0	0.2	0.3	4.3
Roosevelt	1905-53	0.1	0.1	T	0	0	0	0	0	0	0	T	0.1	0.3
Ruby	(1916-18 (1930-53	2.0	1.2	0.8	0.2	0	0	0	0	0	0	T	0.4	4.6
Ruby Star Route	1948-53	1.3	0.3	0.7	0.1	0	0	1.7	0.2	0	T	0	0.2	4.5
Rucker Canyon	1917-53	1.9	1.2	0.5	0.4	0	0	0	T	0	0	0.2	0.8	5.0
Sabino Canyon	1941-53	0.3	0.1	0.1	T	0	T	0	T	0	T	0	T	0.5
Sacaton	1908-53	T	0	T	0	0	0	0	0	0	0	T	T	T
Safford	1898-53	0.5	0.3	0.2	0	0	0	0	0	0	0	T	0.6	1.6
Saint John's	1901-53*	5.2	4.4	3.6	1.5	0.3	0	T	T	T	0.1	2.1	5.0	22.2
Sala Ranch	1947-53	6.6	3.7	4.5	1.2	T	T	0	0	0	T	0.9	3.0	19.9
Salome	1907-53	0.1	T	T	0	0	0	T	0	T	0	T	T	0.1
Salt River	1941-53*	2.0	0.2	0	0	0	0	0	0	0	0	0	T	2.2
San Carlos	1940-53	0.4	T	0	0	0	T	0	0	0	0	0	T	0.4
San Carlos Resvr.	1900-53	0.3	0.2	0.1	T	0	0	0	0	0	T	0	0.1	0.7
Sanders	1949-53	4.2	T	2.3	0.2	T	0	0	0	T	0.8	5.2	3.6	16.3

TABLE 31-(Continued) MEAN MONTHLY AND ANNUAL SNOWFALL (INCHES) ARIZONA STATIONS

STATION	LENGTH OF RECORDS	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
San Rafael Ranch	1923-53	0.9	0.7	0.4	0.2	0	T	0	0	0	0	0.1	0.2	2.5
San Simon	(1898-1916* (1921-53	0.9	0.6	0.2	T	0	0	T	T	0	0	0.1	0.7	2.5
Santa Rita Ranch	1916-53	3.3	2.2	1.1	0.2	0	T	T	T	T	T	0.2	1.3	8.3
Sedona	1943-53	7.6	2.0	2.8	0.6	T	0	T	T	0	T	0.1	1.6	14.7
Seligman	1904-53	4.6	4.5	2.3	0.6	0.4	0	0	T	0	0.1	2.0	3.0	17.5
Sells	(1911-13 (1917-25 (1940-53	0.2	T	0.2	T	0	0	0	0	0	0	0	T	0.4
Sentinel	(1899-1917 (1950-53	0	0	0	0	0	0	T	0	0	0	0	0	T
Show Low	(1893-1909* (1915-25* (1951-53	11.8	9.9	10.0	3.2	0.7	0	0	T	0	1.3	6.9	8.3	52.1
Sierra Ancha	1935-53	10.2	6.0	6.4	1.2	T	0	0	0	T	0	0.6	2.9	27.3
Silver Creek Ranch	1948-53	5.6	4.1	2.2	1.0	T	0	0	0	0	0	1.2	4.1	18.2
Snowflake	1897-53	5.7	4.4	2.6	1.1	0.5	0	T	T	0	0.3	1.8	4.3	20.7
Springerville	1911-53	6.5	5.4	4.2	1.4	0.6	0.1	0	T	0	0.2	3.2	5.1	26.7
Stanton	1944-53	2.0	0.5	2.1	0.2	0	0	T	T	T	T	0.2	0.2	5.2
Stephen's Ranch	1928-53	0.8	0.2	0.1	0	0	0	0	0	0	0	0.3	T	1.4
Stewart Mt.	1939-53	0	0	T	0	0	0	0	0	0	0	0	0	T
Sunflower	1945-53	0	1.4	0.8	T	0	0	0	0	0	T	T	T	2.2
Superior	1920-53	0.6	0.6	0.3	0.1	0	0	0	T	0	0	T	0.2	1.8
Superstition Mt.	1946-53	T	T	T	T	0	0	0	0	0	0	0	T	T
Sycamore	1919-53	1.6	2.0	0.3	0.2	0.2	0	0	0	0	T	T	0.7	5.0
Tempe	1926-53	0.1	T	0	0	0	0	0	T	0	0	0	0	0.1
Tombstone	1897-53	1.6	0.9	0.7	T	0	0	0	T	0	T	0.2	1.2	4.6
Tonto Creek F H	1944-53	21.8	15.0	17.8	3.9	0.8	T	0	T	0	1.4	10.6	8.3	79.6
Tonto Springs R S	1914-53*	5.9	4.0	2.8	0.9	0.2	0	0	0	0	T	1.3	3.6	18.7
Topock	1948-53	1.8	0	0	0	0	0	0	0	0	0	0	0	1.8
Truxton Canyon	1910-53*	1.7	1.3	0.8	0.1	T	0	0	0	0	T	0.1	2.4	6.4
Tuba City	1897-53	2.3	1.7	1.1	0.3	T	0	0	T	T	0.1	1.5	2.4	9.4
Tucson Mag. Obs.	(1911-16 (1934-53	0.5	T	T	T	0	T	0	T	T	0	0	0.1	0.6
Tucson Mt. Pk.	1943-53	T	0	T	0	T	T	T	T	0	0	0	T	T
Tucson Airport	1940-53	0.6	0.1	0.2	T	0	0	T	0	T	0	0	0.2	1.1
Tumacacori	1946-53	0.1	0.1	T	T	0	0	T	T	0	0	T	0.3	0.5
Tuweep	1941-53	1.8	2.4	3.0	0.2	T	0	T	T	0	0.2	0.8	3.1	11.5
Wallace R S	1925-53	15.7	13.7	11.8	4.1	1.2	T	T	T	T	0.4	6.4	10.8	64.1
Walnut Creek	1915-53	7.0	5.6	3.4	1.0	0.3	0	0	T	0	T	1.0	4.7	23.0
Walnut Grove	1893-53	2.7	1.9	0.6	0.2	T	0	0	0	0	0.1	0.5	2.3	8.3
Wellton	1922-53	T	0	0	0	0	0	0	0	0	0	0	0	T
White river	(1922-34 (1940-53	5.5	4.2	5.4	1.1	0.1	0	T	0	0	0.1	2.0	3.8	22.2
Wickenburg	(1880-2 (1908-53	T	T	T	T	T	T	T	T	T	T	0	0.1	0.1
Willcox	(1898-53	1.3	1.0	0.6	T	0	T	T	0	0	0	0.1	1.2	4.2
Wikieup	1925-53	0.1	0	T	0	0	0	0	0	0	T	0	0.2	0.3
Williams	(1888-9 (1897-53	15.5	13.1	9.9	4.9	1.8	T	T	T	T	0.8	5.4	8.1	59.5
Willow Springs	1943-53	2.0	0.6	T	T	T	0	T	0	0	0	T	T	2.6
Window Rock	1937-53	8.9	7.1	5.3	0.9	0.2	T	T	T	T	0.2	4.0	8.8	35.4
Winslow	(1893-1900* (1908-53	2.7	1.4	1.1	0.7	T	T	T	T	T	0.1	1.1	3.4	10.5
Wittman	(1923-48 (1951-53	T	0	0	0	0	0	0	0	0	0	0	0	T
Wupatki	1939-53	2.6	0.9	0.2	T	T	0	0	T	T	T	1.2	1.0	5.9
Yava	1946-53	3.1	0.7	0.7	0.8	0	0	0	0	0	0	0	0.5	5.8
Y Lightening Ranch	1939-53	3.3	0.5	0.3	0	0	0	0	0	0	0	0	0.3	4.4
Young	(1903-7 (1915-53	7.4	5.5	3.7	0.5	0.2	0	T	T	0	0.2	1.4	4.1	23.0
Yuma Apt	1946-53	0	0	0	0	0	0	0	0	0	0	0	0	0.0

TABLE 32 — MEAN MONTHLY AND ANNUAL SNOWFALL* AT ARIZONA AGRICULTURAL EXPERIMENT STATION FARMS (INCHES)

YEAR**	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANNUAL
Safford Experiment Farm, 1948-54													
1949	2.7		T***								T	1.2	3.9
1950				T									T
1951												2.5	2.5
1952							T						T
1953							T						T
Tucson-Campbell Ave. Farm, 1949-54													
1949			T									T	T
1950						T							T
1951	0.5											T	0.5
1952			T	0.5		T	T				T		0.5
Yuma Citrus Farm, 1920-54													
1932												1.5	1.5
1949												T	T
1953				T									T
Mesa Experiment Farm, 1917-54													
1917			T										T
1919											T		T
1937	3.0												3.0
1949	T												T
Yuma Valley Farm, 1930-53													
1949	T												T
Tempe, University of Arizona Citrus Experiment Farm, 1943-54													
1946			T										T
1949												T	T
1950		T											T
1951			T										T
1952			T					T					T
1953								T					T

*Includes hail & sleet **Years omitted indicate no snow *** — T —Indicates trace

MEAN MONTHLY & ANNUAL SNOWFALL* AT PHOENIX, 1896-1954 (INCHES)

YEAR**	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANNUAL
1911												T***	T
1915					T								T
1916												T	T
1917			0.2										0.2
1919		0.1											0.1
1930					T								T
1933	1.0												1.0
1937	1.0												1.0
1939	0.5												0.5
1948										T			T
1949	T												T
1950									0.3				0.3
1952		T	T										T
1896-1954 Average	0.4												0.5

*Includes hail & sleet **Years omitted indicate no snow *** T indicates trace

TABLE 32 -(Continued) MEAN MONTHLY AND ANNUAL SNOWFALL* AT THE UNIVERSITY OF ARIZONA, TUCSON, 1891-1954 (INCHES)

YEAR **	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANNUAL
1895			T***	T									T
1898	6.0												6.0
1899		1.2											1.2
1902			1.5										1.5
1903		4.9											4.9
1906	2.0												2.0
1907	1.0												1.0
1908		4.0											4.0
1909												T	T
1911												1.5	1.5
1913	2.0												2.0
1915												2.0	2.0
1916												4.0	4.0
1918												T	T
1919											T		T
1922			6.0										6.0
1923												T	T
1924			T										T
1926												T	T
1928		2.0											2.0
1929		1.0											1.0
1932												1.5	1.5
1933		1.0											1.0
1937	5.8												5.8
1939		T											T
1941												2.0	2.0
1945		T											T
1946	2.0	0.5	T										2.5
1947												0.2	0.2
1949	4.5		T									1.1	5.6
1951	1.2	T		T									1.2
1891-1954 Average	0.4	0.2	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.2	0.9

*Includes hail & sleet **Years omitted indicate no snow ***T - trace

Snowfall

Snowfall is important in northern Arizona and in higher elevations in all parts of Arizona. In the more southerly portion of the state there are many stations at which the average snowfall is a trace or less. In cooler regions many stations receive more than five feet annually and some stations much more. For example, Table 31 shows that Maverick averages 88.2 inches per year, Mc Nary 99.9 inches, and Williams 133.4 inches. Snowfall has occurred during each month of the year at these three stations.

Snow surveys are made annually as a means of predicting the seasonal runoff. Winter rains and melting snows contribute a great deal more water to the irrigation reservoirs than do summer rains. Ten inches of snow of average density will have a water equivalent to one inch. If weather conditions are favorable for the snow to melt there will be satisfactory runoff. If, however, the snow passes directly to the vapor state (sublimes) much of the water will be lost to the atmosphere.

Occasionally heavy snowfalls occur which block highways, maroon ranchers and cut off cattle from their feed supply. Hunters sometimes perish in unexpected storms.

Relative Humidity

Relative humidity is the ratio between the actual amount of water vapor in the air to the largest possible amount which might be held without condensation under the same conditions of temperature and atmospheric pressure. Under conditions of saturation (dew) the relative humidity is constant at 100 per cent; at other times it is subject to continual change. Assuming that the absolute humidity remains constant, the relative humidity will vary inversely with the temperature.

Normally the highest relative humidity occurs just before sunrise, which is the coldest part of the day. As the temperature rises the humidity falls rapidly until it reaches a low point shortly after noon, where it usually remains until after 6 p.m. during the summer and slightly earlier during the winter. As the temperature then drops the relative humidity again builds up to a high point just before sunrise on the following day. These diurnal fluctuations in relative humidity may be quite regular for several days of clear weather, but during periods of unsettled weather marked variations in the usual humidity curve may occur.

Relative humidity is comparatively high during the winter months, which for Arizona are cool and interspersed at intervals with "rainy" days. The relative humidity drops regularly during the warmer drier months of February, March, April, May, and June. Summer rains which occur during July and August increase the relative humidity for those months, but it is still much lower than for the December-January period.

Since less rain falls during September and October than during July and August, the average relative humidity during these months is lower than for the preceding wetter months. In November the weather is cooler and there is more rainfall than in September and October hence it is natural to find a higher relative humidity during November.

Arizona lies in a longitudinal belt characterized by low rainfall and humidity. The annual relative humidity in this zone ranges from 40 to 60 per cent. On dry summer afternoons in southern Arizona it is not unusual to measure relative humidities of 5 per cent or less. In other parts of the United States the average relative humidity during summer afternoons may range from 70 to 80 per cent. Since relative humidity varies so widely from hour to hour, readings must be made at the same time each day at each station if a direct comparison is to be made. This has been done for several U. S. cities. (Table 33.) These values are for noon only and do not represent average daily conditions.

Cities situated close to large bodies of water have relative humidities twice as great as most Arizona cities, on the basis of noontime values. Inland cities, in the humid part of the U. S., have humidities intermediate between coastal cities and those of Arizona.

Relative humidities for several Arizona stations are given in Table 34. For the sake of comparing the humidity in Tuscon, Phoenix, and a representative location in the Salt River Valley, noon readings were taken at the Mesa Agricultural Experiment Station farm, the University of Arizona, Tucson, and at Phoenix for February and July, 1933. As is to be expected, there is no significant difference between Tucson and Phoenix city readings, but the readings taken at the Mesa Farm are appreciably higher, presumably because of the proximity of the weather station to irrigated fields. (Table 35).

TABLE 33 — ANNUAL RELATIVE HUMIDITY AT SELECTED CITIES IN THE UNITED STATES FOR THE PERIOD 1921-53*

CITY	STATE	RELATIVE HUMIDITY	TIME
Atlanta	Georgia	56	1:30 PM
Bismark	North Dakota	56	Noon
Boise	Idaho	51	11:30 AM
Boston	Massachusetts	56	1:30 PM
Buffalo	New York	61	1:30 PM
Chicago	Illinois	61	Noon
Dallas	Texas	54	Noon
Denver	Colorado	37	Noon
Des Moines	Iowa	61	Noon
Detroit	Michigan	59	Noon
El Paso	Texas	32	11:30 AM
Flagstaff	Arizona	37	11:30 AM
Galveston	Texas	72	Noon
Green Bay	Wisconsin	61	Noon
Helena	Montana	52	Noon
Jacksonville	Florida	55	1:30 PM
Kansas City	Missouri	55	Noon
Los Angeles	California	49	Noon
Miami	Florida	60	1:30 PM
New Orleans	Louisiana	62	Noon
New York	New York	59	Noon
Phoenix	Arizona	30	11:30 AM
Prescott	Arizona	47	11:30 AM
Salt Lake City	Utah	46	11:30 AM
San Francisco	California	65	Noon
Savannah	Georgia	58	Noon
Seattle	Washington	72	10:30 AM
St. Paul	Minnesota	58	Noon
Tampa	Florida	58	1:30 PM
Tucson	Arizona	30	11:30 AM
Washington	D. C.	51	1:30 PM
Yuma	Arizona	27	11:30 AM

* Based on Local Climatological Data, U. S. Weather Bureau (1953).

TABLE 34 — RELATIVE HUMIDITY AT NINE ARIZONA STATIONS

CITY	HR. OF OBSERVATION	RECORD YEARS	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	AVERAGE
Ajo	7:30 AM	1919-32	57.6	60.3	50.8	45.6	34.5	19.2	47.0	55.0	50.1	46.8	52.7	58.0	48.7
	3:30 PM	1919-32	34.6	35.0	29.3	24.3	19.8	17.9	31.5	32.5	29.3	28.1	32.8	38.3	29.3
Clemenceau	6:00 AM	1921-36	61.7	62.8	52.8	46.0	40.7	38.1	51.9	57.1	56.1	54.3	56.4	65.8	56.6
	Noon	1921-36	47.2	45.3	37.3	32.7	28.5	27.5	35.9	37.6	43.3	35.5	39.3	47.6	40.2
	6:00 PM	1921-36	45.3	43.6	33.8	29.9	24.9	24.8	37.1	39.1	39.8	36.3	39.0	51.2	38.6
Flagstaff	6:00 AM	1922-54	78.0	79.8	68.4	71.0	66.5	56.2	70.0	80.0	77.0	71.9	72.2	78.0	72.4
(Changed to	11:30 AM	1944-54	50.6	47.0	43.2	32.2	26.4	22.2	35.4	38.2	30.4	35.4	38.7	46.0	37.1
Airport 1950)	6:00 PM	1922-54	59.4	55.1	43.7	36.9	26.7	20.7	37.8	44.3	38.0	38.6	47.8	54.3	41.9
Phoenix City	6:00 AM	1918-54	69.8	68.4	59.4	51.1	42.1	38.2	53.1	61.0	58.0	59.1	64.5	70.9	58.0
(Changed to	11:30 AM	1918-54	37.2	37.1	30.2	23.8	17.9	16.7	28.9	33.2	29.3	27.9	31.0	42.0	29.6
Airport 1954)	6:00 PM	1918-54	36.8	27.5	25.8	19.1	16.0	14.3	24.1	29.4	29.9	28.9	35.5	41.8	25.5
Prescott	6:00 AM	1919-30													
(Changed to		1943-54	73.6	71.8	65.8	55.8	46.7	38.7	60.7	68.5	62.0	62.7	66.4	71.5	52.0
Airport 1948)	11:30 AM	1943-54	48.3	45.1	35.4	25.6	19.8	16.7	32.1	36.3	26.6	30.0	34.1	44.2	32.8
	6:00 PM	1919-30													
		1943-54	48.7	42.8	36.7	28.5	21.4	17.1	37.5	40.6	33.4	33.5	41.7	50.4	36.0
Tucson	8:00 AM	1919-32	65.3	65.0	52.1	42.8	32.7	31.5	52.4	61.4	55.3	51.8	53.0	66.2	52.4
(University	Noon	1919-54	38.2	35.3	28.1	21.5	17.5	18.7	28.5	37.0	30.8	27.2	30.3	39.6	29.4
of Arizona)	5:00 PM	1919-54	38.0	34.0	27.1	21.3	16.5	17.3	30.3	35.6	29.1	28.3	33.4	43.4	29.5
Tucson Airport	5:30 AM	1941-54	66.0	57.9	54.8	44.5	34.5	32.1	56.1	64.4	52.1	51.0	51.4	60.1	52.1
	11:30 AM	1941-54	41.4	34.1	29.8	22.8	16.9	16.3	32.4	37.1	30.1	28.7	29.4	37.6	29.7
	5:30 PM	1941-54	37.5	27.8	24.6	18.6	13.2	15.3	30.1	33.9	26.5	26.1	28.4	36.0	26.5
Winslow	5:30 AM	1944-54	79.0	71.4	61.4	52.6	45.7	39.0	60.1	60.0	58.4	59.2	65.6	72.3	60.4
(Changed to	11:30 AM	1944-54	54.2	44.0	33.4	25.2	20.4	17.0	30.4	34.3	29.6	32.3	40.0	49.5	34.2
Airport 1949)	5:30 PM	1944-54	48.0	34.6	27.2	20.9	17.8	14.7	29.0	32.3	25.5	26.3	35.2	44.7	29.7
Yuma City	5:30 AM	1918-52	56.6	55.6	56.4	56.3	53.3	53.0	58.4	65.4	64.1	60.6	53.9	58.7	57.7
	11:30 AM	1918-52	31.8	29.9	25.0	21.9	19.1	19.0	27.5	32.2	29.5	27.8	27.0	33.6	27.2
	5:30 PM	1918-52	30.5	27.5	20.8	18.7	16.0	15.5	22.6	30.9	26.6	28.4	29.8	37.0	25.4

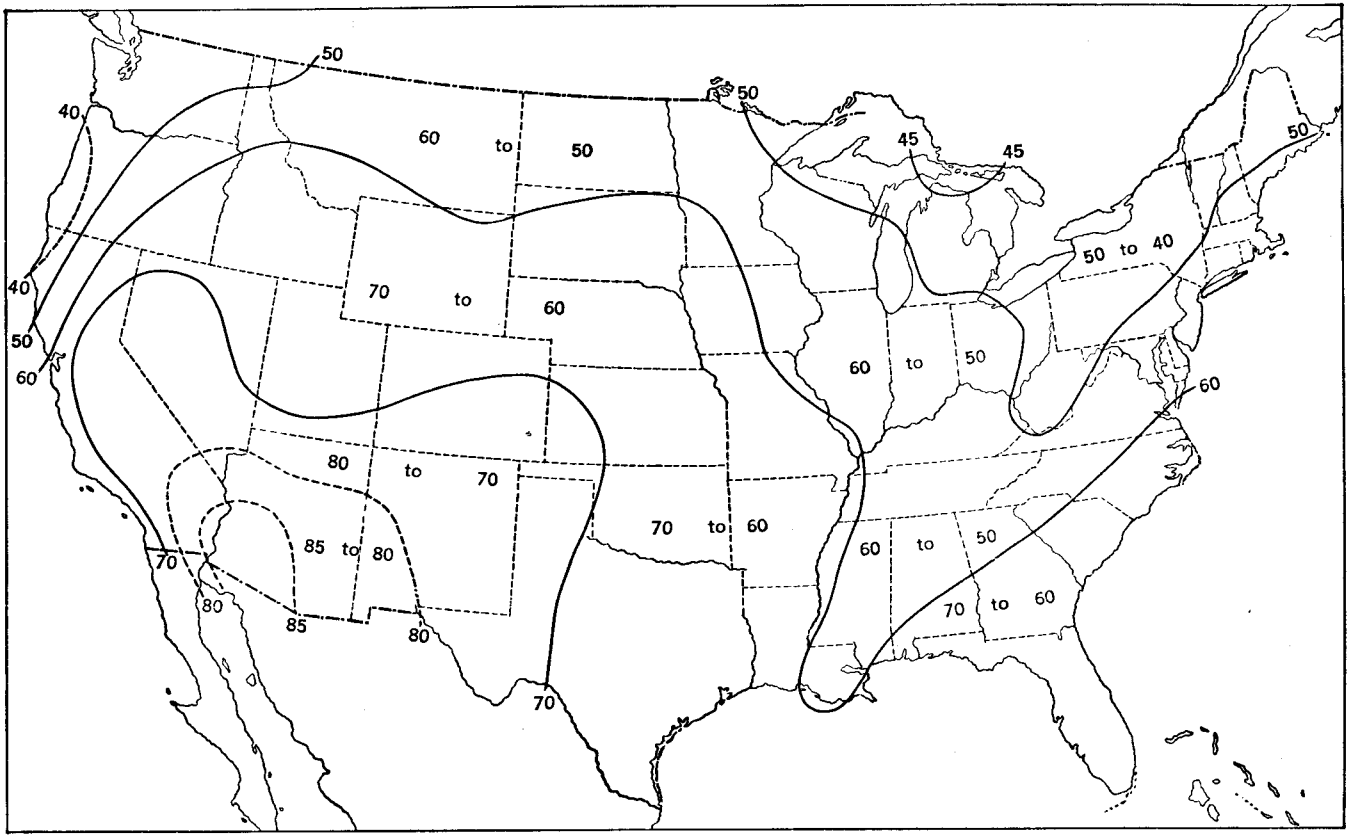


Figure 11. — Percentage of sunshine in various parts of the United States.

Table 35. Relative Humidity at Noon, at Mesa, Tucson (University of Arizona), and Phoenix

February, 1933			July, 1933		
Mesa	U. of A.	Phoenix	Mesa	U. of A.	Phoenix
47.4	30.6	26.3	39	24	25

Sunshine

The climatic zone in which Arizona lies receives more sunshine than any other part of the United States (10). Most of the state receives more than 80 per cent of possible sunshine and the extreme northern part between 70 and 80 per cent (Figure 11). Data from the few weather observing stations equipped to measure sunshine duration are given in Table 36. The percentage of sunshine reported here is much greater than is reported for other parts of the United States.

The state is visited by a few general storms, hence has a great deal of clear weather. There is a close inverse correlation between the percentage of possible sunshine and precipitation. During both winter and summer rainy seasons, Arizona receives smaller percentages of sunshine than during the drier months. Southwestern Arizona, on the average, receives twice the sunshine received by the New England states, the Northern Great Lakes region, or the Pacific Northwest.

Wind

Winds result from the movements of cyclonic storms across the state, so they are directly connected with daily weather conditions. A knowledge of average and maximum wind velocities is important to many persons. The construction engineer, for example, must know what wind velocities to expect in order to plan intelligently structures that will withstand the severest wind storms. Insurance agencies are interested in wind in order to determine fair rates based on wind damage to property. Farmers are interested in wind in connection with crop damage, and cattle ranchers in wind as a source of power for pumping water for cattle on the range.

Actually, wind damage is slight in Arizona as compared to that found in the tornado and hurricane belts in the midwest, east, and southeast portions of the United States. Few tornados have been reported in Arizona and damage from even these few was very light. Two tornado clouds were observed during July, 1951, north of Prescott. They dipped to the earth occasionally but, since they were traveling over grasslands, no damage was done.

Only a few weather observing stations in Arizona are equipped to measure wind velocity. Data from these stations are given in Table 37. Wind velocities are affected by both the general and specific location of the station. Winslow has the highest annual rate of wind movement followed closely by Prescott and Flagstaff. The stations at Phoenix and Yuma report the slowest movement of wind. The fastest mile of wind from any station occurred in Prescott in November, 1954. It was 72 miles per hour.

TABLE 36 — PERCENT OF POSSIBLE SUNSHINE AT FIVE ARIZONA STATIONS

CITY	YEARS	Jan.	Feb.	Mar.	Apr.	May.	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANNUAL
Clemenceau	1929-36	68.9	69.4	74.8	76.8	83.8	86.1	69.6	66.4	74.8	72.2	68.0	63.2	72.8
Phoenix City	1918-54	77.5	75.1	78.6	87.2	93.7	93.8	83.7	83.8	85.9	84.6	83.6	73.9	83.4
Prescott	1921-32 1948-54	69.9	72.9	73.5	76.3	84.2	87.8	66.4	74.4	84.0	85.7	79.3	66.1	76.7
Tucson Airport	1948-54	78.6	84.0	82.8	88.0	93.0	93.3	73.8	82.8	82.4	91.3	90.1	80.0	85.0
Yuma	1918-54	84.2	85.5	89.9	96.2	97.2	97.5	92.2	93.1	93.6	93.3	89.8	81.9	91.2

TABLE 37 — WIND VELOCITIES AT TEN ARIZONA STATIONS

(MILES PER HOUR)

CITY	YEARS	VELOCITY	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANNUAL
Ajo	1919-32	Average	5.2	5.7	6.5	6.9	7.4	7.5	7.2	6.3	6.3	5.2	4.9	5.1	6.2
Clemenceau	1920-36	Average	3.8	5.1	6.6	7.2	7.2	6.9	6.9	5.1	5.4	7.1	4.4	4.4	5.8
		Maximum	48	48	48	48	48	48	60	58	48	48	36	40	60
Douglas	1922-32	Average	6.5	6.9	8.1	8.4	7.9	7.8	6.9	5.8	6.4	6.7	6.5	6.9	7.1
Flagstaff	1920-40	Average	7.1	8.1	8.9	9.4	9.3	8.8	7.1	6.7	7.4	7.9	7.6	7.5	8.1
		Maximum	46	56	48	44	44	42	40	38	44	43	46	50	56
Phoenix	1946-54	Average	4.3	5.0	5.7	5.7	5.8	5.6	5.9	5.3	4.3	4.4	4.1	4.0	5.0
	1897-1954	Maximum	36	35	46	60	37	35	48	65	44	47	33	34	65
Prescott	1945-54	Average	7.3	7.9	9.9	9.7	10.1	10.6	7.8	7.8	8.0	7.8	7.1	6.8	8.4
		Maximum	45	47	65	56	45	43	50	38	45	44	72	47	72
Tucson Univ.of Ariz.	1929-44	Average	5.8	6.0	6.5	6.8	6.6	6.6	6.5	5.9	6.1	6.2	6.2	5.5	6.2
		Maximum	27	30	33	34	30	29	47	44	35	29	29	29	47
Tucson	1946-54	Average	6.9	7.0	7.4	7.4	7.3	7.2	7.0	6.7	7.0	6.9	7.0	6.9	7.1
U.S.Wea.Bur.	1948-54	Maximum	40	59	41	46	40	42	52	46	46	47	55	44	59
Winslow	1944-54	Average	7.8	9.0	11.8	11.7	11.4	11.6	9.0	8.6	8.2	7.8	7.8	6.9	9.3
Yuma	1894-1954	Average	6.1	6.3	6.7	6.6	6.4	5.7	6.1	5.7	4.9	4.8	5.5	6.1	5.9
	1911-54	Maximum	36	42	56	47	37	41	51	54	38	37	40	43	56

Reports of storm damage for the last few years as taken from annual summaries, Arizona Climatological Data, give some idea of the severity of damage that may be expected from Arizona windstorms. (18) In July, August, and September, 1949, wind, often accompanied by rain and hail, did some damage to crops and buildings in central and southern Arizona. The most severe damage was reported on September 10 in the western part of the Salt River Valley when "A severe wind, rain, and hailstorm swept from Tolleson through Glendale, downing power and telephone poles and breaking plate glass windows." (18)

The most severe storm reported for 1950 occurred in East Phoenix on September 18. Winds of hurricane force, accompanied by hail, caused damage estimated at $1,774,000. Hail covered the ground to a depth of two inches, with some hailstones three inches in diameter. "The Weather Bureau Airport Station, on the periphery of the main storm, reported a one minute velocity of 50 miles per hour and gusts to 75 miles per hour." (18) Twenty-two airplanes at Sky Harbor Airport were reported demolished and 22 badly damaged by wind and hail.

In 1951 (18) the most severe storm of the year centered in the Salt River Valley. Winds with gusts up to 55 miles per hour were recorded at Sky Harbor Airport. Damge to warehouses, power and telephone lines, and dwellings, attributed to wind and water, amounted to $159,000 and crop damage of $50,000.

In July, 1952 (18) local windstorms, often accompanied by rain, lightning, and hail occurred in many parts of the state. During such a storm on the evening of July 29 at Tucson, 300 feet of concrete and adobe wall were blown over at the rodeo grounds. A few roofs were blown off. Total damage was estimated at $4,000. On July 27 in the Salt River Valley during a series of thunder storms accompanied by high winds, trees, power and telephone lines were blown down along the highway between Buckeye and Phoenix. Damage was estimated at $13,000.

The usual summer storms — rain, hail, and wind — were reported to have caused some damage to buildings, planes, power lines, and crops in the Tucson, Marana, and Morristown-Wickenburg districts during the summer of 1953 (18). In Safford a nine-year-old girl was killed when wind caused a shack to collapse.

Hot winds were responsible for a great deal of evaporation and excessive transpiration, which aggravated the extreme drought conditions existing in the early summer.

In 1954 wind damage of $5,000 was reported at Tucson in June (18). The wind reached a peak velocity of 79 miles per hour at the airport CAA control tower. In August storms at Yuma and Safford produced losses to crops and property of $65,000. In September a radio tower in Phoenix was blown over with an estimated loss of $80,000. In estimating storm damage it is difficult to separate losses due to winds, lightning, hail, rain, floods, etc. Perhaps all of the wind losses have not been reported to the Weather Bureau, but typical losses reported here are small in comparison to those in the tornado and hurricane belts of the nation.

TABLE 38 — WIND MOVEMENT AND EVAPORATION AT FIFTEEN ARIZONA STATIONS

STATION	RECORD DATES		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL	ANNUAL PPT.*IN INCHES	RATIO PPT.* TO EVAP.
Bartlett Dam	1940-1954	Evap.	3.99	4.93	7.21	10.40	14.54	16.94	16.75	14.95	13.03	9.96	6.44	4.47	123.60	11.71	1:10.6
		W. M.	3.24	3.00	2.89	2.90	2.96	3.02	2.86	2.67	2.92	2.98	3.16	3.21	2.98		
Davis Dam	1948-1954	Evap.	3.64	5.17	7.77	9.40	12.79	13.94	14.14	13.28	10.56	7.74	6.07	4.58	109.08	4.82	1:22.6
		W. M.	1.72	1.83	1.82	1.36	1.68	1.54	1.28	1.22	1.11	1.52	2.01	2.56	1.64		
Lee's Ferry	1921-1937	Evap.	1.62	2.83	5.95	8.07	11.65	13.73	13.73	11.51	9.14	5.73	3.14	1.77	88.87	6.14	1:14.4
		W. M.	1.32	1.57	2.35	2.39	2.43	2.12	1.83	1.64	1.61	1.49	2.35	1.63	1.81		
Many Farms	1951-1954	Evap.	--	--	5.60	9.29	13.07	17.38	13.64	12.17	10.28	7.38	3.47	--	--	--	--
		W. M.	3.14	4.08	4.70	3.93	4.62	4.70	2.71	2.61	2.63	2.49	2.56	2.82	3.42		
Mesa Exper. Farm	1917-1954	Evap.	2.76	3.54	5.69	7.63	10.23	14.10	11.19	9.53	7.67	5.56	3.64	2.36	83.91	7.64	1:9.8
		W. M.	1.41	1.56	1.36	1.47	1.47	1.48	1.34	1.04	0.89	0.85	1.10	1.18	1.26		
Nogales	1952-1954	Evap.	4.31	5.34	7.31	9.75	11.86	14.21	8.14	9.77	13.28	7.42	4.94	3.59	99.92	15.54	1:6.4
		W. M.	2.30	2.29	2.77	2.41	2.58	2.27	1.28	0.74	1.00	1.21	1.20	1.76	1.82		
Pierce Ferry	1948-1952	Evap.	2.40	3.57	7.18	10.80	15.36	19.15	20.37	14.50	14.57	8.69	4.29	2.57	123.45	--	--
		W. M.	--	--	--	--	--	--	--	--	--	--	--	--	--		
Roosevelt	1916-1954	Evap.	1.94	2.78	5.09	10.90	12.98	12.64	12.63	10.55	8.43	5.77	3.04	1.89	88.64	16.56	1:5.3
		W. M.	1.28	1.52	1.98	2.06	2.09	2.04	2.31	1.93	1.62	1.36	1.27	1.27	1.73		
Sacaton	1948-1954	Evap.	3.58	4.80	7.03	9.98	13.43	14.73	13.59	12.01	9.73	7.71	4.98	3.58	105.15	9.52	1:11.0
		W. M.	1.66	2.26	2.36	2.14	2.07	1.87	1.61	1.27	1.21	1.36	1.35	1.38	1.71		
Safford	1940-1947	Evap.	1.99	3.35	5.32	7.68	9.84	10.90	9.82	8.27	6.47	4.40	2.78	1.89	72.71	9.23	1:7.9
		W. M.	0.61	0.68	0.84	0.76	0.56	0.45	0.36	0.38	0.27	0.37	0.38	0.48	0.51		
San Carlos Resvr.	1948-1953	Evap.	2.11	3.63	5.85	8.72	12.13	14.40	13.78	12.15	10.51	7.31	3.74	2.27	96.60	12.98	1:7.4
		W. M.	1.15	1.38	1.80	1.85	2.02	2.16	2.43	1.90	1.50	1.26	1.09	1.11	1.64		
Sierra Ancha	1936-1954	Evap.	2.23	2.56	4.35	6.41	9.07	10.97	10.18	9.04	7.92	5.97	3.60	2.33	74.63	25.17	1:3.0
		W. M.	1.80	1.91	2.21	2.45	2.41	2.41	1.97	2.00	2.05	1.95	1.82	1.70	2.06		
Tucson (Univ. of Ariz.)	1928-1954	Evap.	2.42	3.34	5.91	8.62	11.37	12.86	11.75	9.82	8.48	6.15	3.59	1.56	85.15	10.36	1:8.2
		W. M.	1.04	1.12	1.31	1.28	1.20	1.16	1.11	0.96	0.94	0.98	0.96	0.91	1.08		
Willcox	1917-1935	Evap.	3.81	4.65	7.13	8.28	10.53	11.21	9.74	8.14	7.32	5.98	4.52	3.28	84.59	11.62	1:7.3
		W. M.	3.40	4.21	3.81	4.05	3.17	2.50	2.13	1.52	2.04	2.13	2.83	3.14	2.91		
Winkleman	1951-1954	Evap.	2.90	4.45	6.46	9.31	12.29	14.34	11.49	9.79	9.86	7.38	4.37	3.08	95.72	12.80	1:7.5
		W. M.	1.02	1.12	1.62	1.38	1.69	1.63	1.34	1.36	1.00	0.98	0.97	1.04	1.26		
Yuma (Citrus)	1921-1954	Evap.	3.84	4.91	7.80	10.21	13.28	14.50	15.84	14.04	11.11	8.08	5.19	3.72	112.52	3.83	1:29.4
		W. M.	1.74	1.87	2.09	2.38	2.20	2.04	2.18	1.98	1.57	1.37	1.49	1.67	1.88		
Yuma Valley	1931-1940	Evap.	3.91	4.34	7.89	10.21	12.62	13.50	14.12	11.86	9.44	7.19	4.71	3.52	103.31	2.95	1:35.0
		W. M.	1.92	2.27	2.13	2.58	2.34	2.10	2.42	2.04	1.14	1.30	1.49	1.60	1.94		

* PPT. - Precipitation

Evaporation

In Arizona, where the humidity is generally low, evaporation of water from soils and free water surfaces is great[6]. Evaporation of water from storage reservoirs is a particularly serious problem, and evaporation from ranges and irrigated land reduces the amount of water available to plants to an undetermined degree. Temperature, wind movement, humidity, and barometric pressure are all factors affecting the rapidity of evaporation of water. Evaporation is more or less a continuous process, fluctuating with temperature and humidity and being at a minimum shortly before sunrise and a maximum during the warmer part of the day. On the rare occasions when fog occurs there is no evaporation.

Evaporation for most of the stations averages between 6 and 7 feet per year, but at the Yuma Citrus Station and at Bartlett Dam approaches or exceeds 10 feet per year. (Table 38.) A technical discussion of evaporation with evaporation measurements from various stations in the United States appears in several government publications. Each contains a bibliography. (11) (13)

Climate and Comfort

The climate of southern Arizona is characterized by mild winters and warm to hot summers except in the higher mountains where summers are cool and the winters cold. In northern Arizona, likewise, summers are warm to cool and the winters generally cold. The relative humidity in most parts of the state is low, as is the rainfall. The percentage of possible sunshine is relatively high in all parts of the state.

Tucson, at an elevation of about 2,400 feet above sea level, averages about 20° warmer than the Mt Lemmon station at an elevation of 7,690 feet. The two stations are 15 airline miles apart. With such wide variety of climates, Arizona has become well known as a year-around playground.

For human comfort, modern developments supplement climatic advantages. In most of the state, homes are heated mechanically in winter and cooled in summer. Natural gas is now available for heating in larger towns and cities, tank gas in the smaller towns and rural areas. Electricity is seldom used for heating.

Cooling of dwellings in southern and central Arizona in summer by evaporative coolers is almost universal. However, within recent years the refrigeration type of cooler has become very popular. Single-room coolers of the refrigeration type require motors of one half to one horsepower, while an evaporative cooler will cool an entire average size house while using one-third horsepower motor.

Many installations in commercial buildings are of the refrigeration type. While refrigeration is more dependable and more easily regulated than the evaporative system, its initial and operating costs are greater. It has the further advantage of functioning well on humid days and of being able to dehumidify the air.

During the summer buildings are generally cooled to not more than 20° below the outside temperatures because the contrast when one goes from warm outside temperatures to extremely cool ones, or vice versa, may cause discomfort.

No two individuals react in the same way to heat or cold, nor does the same

[6] Evaporation is measured by the U..S. Weather Bureau in round galvanized iron tanks 48 inches in diameter and 10 inches deep. Water is kept at an average depth of seven inches in the tank. The tank is equipped with a stilling well and a hook gage for determining the height of water in the tank. An anemometer with cups about 10 inches above the water surface measures the movement of wind over the pan.

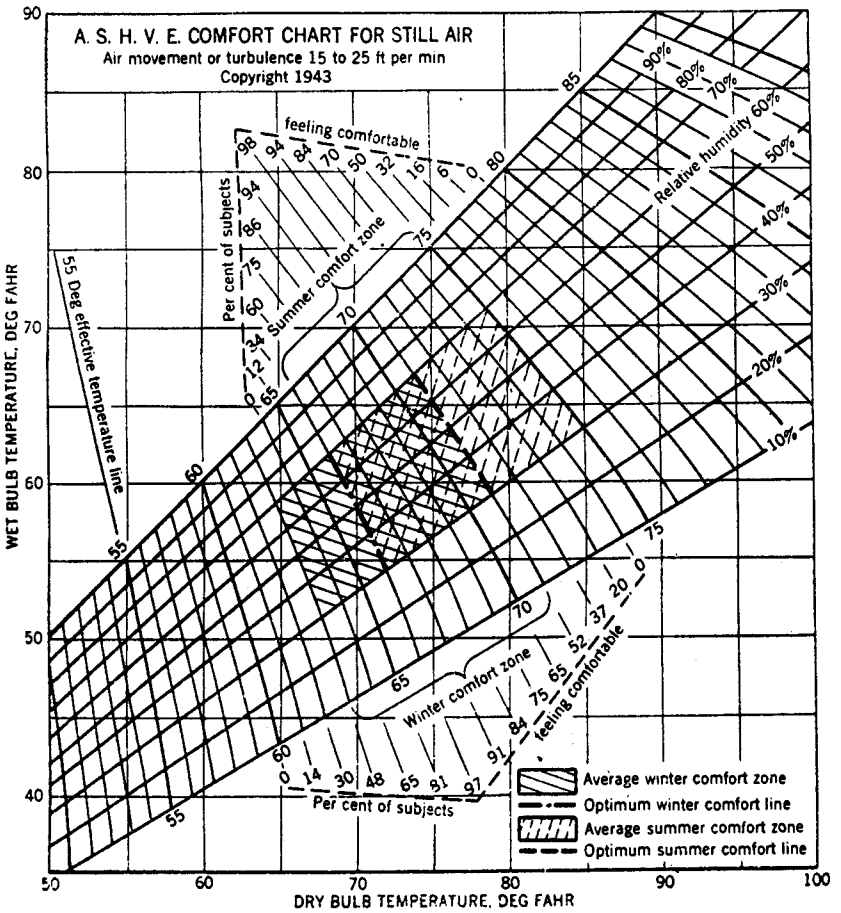


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Figure 12. — Comfort chart for varying conditions of temperature and humidity.

individual react similarly to the same heat or cold at different times. Where an attempt is made to produce a zone of comfort for all people, only a bare majority—perhaps 55 to 65 per cent — will be completely comfortable. The others will be too warm or too cool.

The American Society of Heating and Ventilating has conducted elaborate experiments in its research laboratories which show various combinations of temperature, humidity, and air movement that produce the same "effective temperature." Figure 12 is a comfort chart for varying conditions of temperature and humidity. (Reproduced by permission from the Heating, Ventilating, Air Conditioning Guide, 1944, published by the American Society of Heating and Ventilating Engineers.)

From this chart it can be seen that a dry bulb temperature of 70°F. at 20 per cent relative humidity gives an effective temperature of 64 degrees. If the temperature remains constant but the humidity is raised to 80 per cent, the effective temperature is raised to 68.5 degrees. This explains why the air seems cooler when the humidity is low, as in Arizona. It also gives a reason for humidifying air in houses during the winter heating season. The comfort zone in houses which are humidified in winter may be several degrees lower than in those not humidified.

Climate and Health

Arizona and the Southwest have become popular winter resorts because of the mild winter climate which permits outdoor activities during the entire season. The value of Arizona's climate is based on the abundance of sunshine, the warm days and cool nights, the low humidity and rainfall, the high altitude and relative freedom from destructive storms. The value of sunshine is well recognized although sunshine, too long continued, may become as monotonous as long periods of cloudy weather in other localities. However, because of Arizona's high percentage of possible sunshine, its low relative humidities and generally mild winters, thousands of people seek this climate for relief from sinus infection, pulmonary diseases, rheumatism, arthritis, etc. Others come to escape the rigors of northern or eastern winters.

Those who demand a certain climate for health or other reason should be able to find it in some section of Arizona. The state has many local climates differing one from the other, chiefly because of varying altitude and latitude. Southern Arizona has a mild winter climate, but the summers are too debilitating for many invalids. However, the low humidity, the marked diurnal variation in temperature and development of refrigeration type house coolers have tended to make the high daytime temperatures less distressing than they were formerly.

Climate and Agriculture

In Arizona, as well as in other arid-region states, climate, topography, soils and water have influenced the patterns of settlement and culture. Some important dry farming areas are found in parts of Arizona which have relatively high rainfall and cool temperatures, but irrigation farming occupies by far the most important place in Arizona's agriculture. The long growing season and relative freedom from killing frosts in parts of the Salt River Valley and Yuma districts has led to development of large acreages to citrus fruits.

Frosts in the Salt River Valley are of sufficient frequency and intensity to cause occasional large losses of frost-sensitive crops. Many growers now protect their citrus against frost damage by use of heaters and wind machines. On the Yuma Mesa, wind machines alone seem to be able to protect the sensitive lemon crop against frost damage. Cotton, which re-

quires a minimum growing season of around 200 days for economic production, can be grown in most of the irrigated valleys of the state. Other crops of extreme importance are truck crops, which go to northern and eastern markets in the winter because they can be grown in Arizona when other areas of the country are not in production.

Small grains are planted during the winter and mature in early spring. These crops are grown during the coolest part of the year, when evaporation and transpiration are low and irrigation requirements are not high.

Livestock, Forestry

Livestock production is important in Arizona. The climate in much of the state is favorable for the growth of grasses and browse upon which cattle can feed. The quality of the range is, to a large degree, based upon the seasonal precipitation.

In higher elevations, where temperatures are cooler and precipitation greater, forestry is important.

The dry farming areas of Yavapai, Coconino, and Apache counties have been rather successful in the production of small grains, beans, fruits, etc. On the other hand, the Arizona Agricultural Experiment Station abandoned its dry farms at Prescrott and Cochise because experimentation has shown that ordinary farm crops could not be grown by dry farming methods in these localities. The Hopi and Navajo Indians (1) practice dry farming in a small way in northern Arizona, but Arizona farmers (2) (3) on the whole have had only limited success with dry farming operations.

Irrigated Agriculture

The irrigated acreage in Arizona is approximately 1,200,000 acres distributed by counties as indicated in Table 39. (4)

Areas in which specialty crops are grown include the Salt River Valley, the Yuma and Middle Gila districts, and to a lesser extent many others. The soil and climate in these areas is well suited to the production of regular field crops as well as those more intensely cultivated such as citrus friuts and such truck crops as head lettuce, melons, asparagus, broccoli and cauliflower.

Temperature is undoubtedly the greatest single climatic factor which determines the kind of crop which may be grown and the seasons which are favorable to its growth. In all but one winter since the Citrus Station was established on the Yuma Mesa, temperatures of 32° or lower have been recorded. Frosts are so light, however, that temperature control is used only on lemons which are more sensitive to frosts than other varieties of citrus.

Portions of the Salt River Valley are climatically suited to the production of such cold-sensitive crops as citrus, olives, figs, dates and pomegranates. These areas are found on the higher slopes north and south of Phoenix, near Litchfield Park and on the higher alluvial fans circling the Salt River Valley and northeast of

Table 39. Distribution of Arizona's Irrigated Lands by Counties

County	Acres	County	Acres
Apache	12,000	Navajo	12,000
Cochise	100,000	Pima	55,000
Coconino	4,000	Pinal	290,000
Graham	35,000	Santa Cruz	8,000
Greenlee	6,000	Yavapai	20,000
Maricopa	485,000	Yuma	170,000
Mohave	12,000		

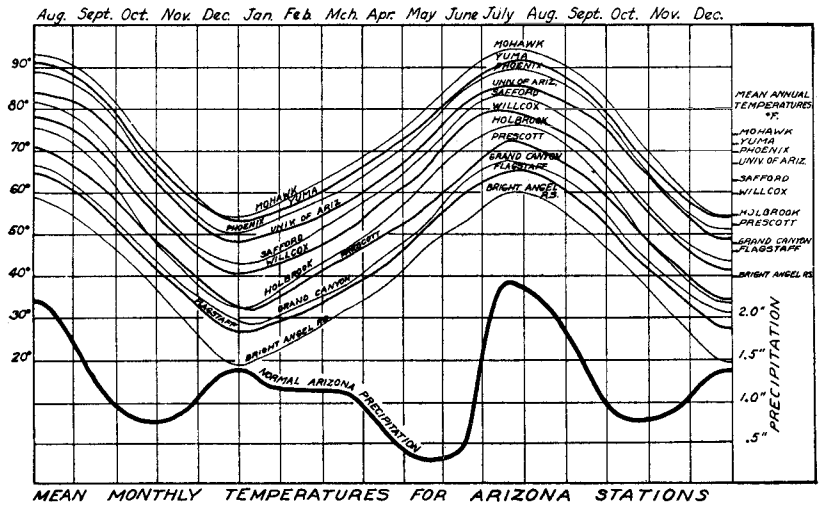

Figure 13. — Mean monthly temperatures for Arizona weather stations.

Mesa. Other smaller areas suitable for the growth of citrus occur throughout the valley, where temperatures are favorable and air drainage is good. Citrus trees bloom and set their fruit during March and April. Fruit matures the following fall, winter, or spring depending on the variety. Grapefruit is harvested from October through June or later, navel oranges during November and December, and Valencias from March to May. Lemons are usually harvested during October and November.

Some crops endure the cold weather of the winter better than they do the heat of the summer and so are planted and grown between two summers rather than between two winters. Examples are the small grains and truck crops. Such crops grow throughout the winter and are harvested in the spring. The recent introduction of new varieties of lettuce has extended the dates during which germination is successful. This makes it possible to plant during a season which will bring the harvesting date at a time which will not conflict with that of any other large lettuce producing area. Other crops, such as cotton, sorghums, and perennial field crops, grow throughout the long, hot summers.

Climatically many different portions of the state are suited to the same crop at different times of the year. If soil and water conditions are satisfctory, these crops can be grown at some location within the state throughout the year. By referring to Figure 13 one can determine the season in which different crops may be grown in various parts of the state if their climatic requirements are known.

In the Salt River Valley lettuce is planted from August to February. The earlier planted crop usually matures in 90 to 110 days and the spring crop, because of the cool weather during the greater part of its growing period, requires about 150 days.

Tomatoes are planted in the field about March 10 in the Yuma Valley and about three weeks later in the Salt River Valley. When protected by brush covers, tomatoes may be planted much earlier than when planted in the open.

Asparagus is harvested during March and until about April 15.

The root crops are planted during the autumn, winter, and spring from September 1 to March 1. Carrots require from 60 to 90 days from planting to harvest, radishes 40 to 60 days, turnips 60 to 90 days and beets 90 days. Sweet potatoes are started in a hotbed about February 15 and transplanted to the field from April 1 to 15. They are harvested during August and September, about 120 days after planting.

Strawberries produce in April and May. At Yuma cantaloupes may be planted in the field in December if protected with hot caps. If not protected, planting should be delayed until February or March. This planting matures in 90 to 120 days and is harvested during May and June. Watermelons are planted from March 15 to April 15 and harvested 80 to 120 days later.

Cotton may be planted from March 15 to April 15, usually during the first two weeks of April. Alfalfa should not be planted in the fall until maximum temperatures fall below 105° If properly irrigated, alfalfa will grow through the long hot summers and produce from 6 to 7 cuttings per year. It is a general practice to produce at least one seed crop and to withhold the water during the warmest part of the summer as a conservation measure

Small grains, which require cool weather for growth and maturity, are planted in the fall and winter months, usually between October 15 and January 1, although planting is sometimes delayed until late February. They are usually harvested in May. If they are planted early, the forage may be pastured for a time before permitting the grain to grow and make a seed crop.

The grain sorghums, while not a crop of high cash value, are of importance as a feed and seed crop. They grow under adverse conditions of temperature and moisture and usually are planted after a barley crop is removed from the field. Planting is between June 1 and July 10 and the sorghums mature in 110 to 120 days.

The increase in Arizona's irrigated acreage from 775,000 acres in 1945 to 1,250,000 acres in 1954 has been largely at the expense of depleting the underground water supply. Any further large increases in acreage should be made only if new water supplies not needed for existing irrigated acreage are developed.

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