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U. S. DEPARTMENT OF COMMERCE
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CLIMATOGRAPHY OF THE UNITED STATES NO. 81-36

DECENNIAL CENSUS OF UNITED STATES CLIMATE—

MONTHLY NORMALS OF TEMPERATURE, PRECIPITATION, AND HEATING DEGREE DAYS

TEXAS

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PREFACE

The climatological standard normals presented in this publication are based on records for the 30-year period 1931-1960 inclusive. For the first time, normals have been computed for substations and divisions using a base period identical to that used for first-order stations.

Previous normals were published in Weather Bureau Technical Paper No. 31, "Monthly Normal Temperatures, Precipitation, and Degree Days," and were based on records for the period 1921-1950. Earlier sets of normals are described in [1].

This is the first series of publications resulting from the project "The Decennial Census of United States Climate, 1960." The project is a continuation of earlier censuses of the climate of the United States that date back to the early 19th Century and are described in [2]. Future publications of this project will be listings of daily normals of temperature, and degree days; summaries of hourly observations; and listings of monthly divisional averages of temperature and precipitation.

Units used in this publication are degrees F. for temperatures, and inches for precipitation. The heating degree day normals are derived from the monthly normal temperatures, and are computed on the standard base of 65°F. Monthly normals of less than 5 degree days are shown as zero.

Standard Normals for Weather Bureau First Order Stations

A normal of a climatological element is an arithmetic mean for a specific period of record which estimates the true mean of the element at the current exposure of the meteorological instrument measuring the element. The true mean is the mean of all possible observations (population) at the current exposure. It is from this population that future observations will come, not from values in the past record. This is what makes it important to obtain an estimate of this mean. The true mean can never be known exactly but must be estimated from a sample of the past record ([3] p. 53 section 4. 3). The normals presented here are estimates of the true mean obtained from the 30-year sample record 1931-1960. They are called standard normals because they conform to the World Meteorological Organization standard for climatological normals.

If no exposure changes have occurred at a station the normal is estimated by simply averaging the 30 values from the 1931-1960 record. Since it is next to impossible to maintain a multiple purpose network of meteorological stations without having exposure changes, it is first necessary to find and evaluate these changes and then make adjustments for them if necessary.

Heterogeneities in record due to exposure changes are found in two ways: by determining them from the station histories and by use of statistical tests. The statistical test when standardized for the purpose is easy to apply and will often find heterogeneities which are not defined by the station histories as well as those which have been so determined. Two statistical tests were employed: one for temperature and the other for precipitation. These are described in [4].

After the periods of heterogeneity have been determined, adjustments are applied to remove the heterogeneities introduced into the mean. This is done by comparing the record at the base station, for which the normal is desired, to the record at a supplementary station with a homogeneous period which covers the heterogeneous period at the base station. The difference method is applied to the monthly average maximum and minimum temperatures and the ratio method to the monthly total precipitation. A weighted average of the various partial means of the adjusted and unadjusted record is then prepared to give the normal. Brief discussions of the methods of adjustment are found in [3] (p. 49, section 4. 24).

Normal heating degree days are derived by the method described in [5].

Normals for Substations and Divisions

Normals for substations were computed somewhat differently than those for first-order stations. Monthly substation normals are the simple arithmetic averages of the monthly values of temperature and precipitation for the period 1931-1960. These were computed for only those substations that were active during the entire period and no attempt was made to adjust for minor changes in location of the observing site, or for changes in the time of observation. Normals were not computed for substations that were moved a significant distance during the 1931-1960 period. Missing values in the data series were estimated by methods described in [6]. Substations whose locations were essentially unchanged during the 1931-1960 period are identified in the tables.

Monthly divisional normals are the means of the monthly divisional averages of temperature and precipitation for the period 1931-1960. In calculating the monthly divisional averages, all of the stations in the division that furnished both temperature and precipitation data during the particular month were used. The averages therefore were obtained from a variable station sample. As a result, the divisional normals often differ from the averages of the normals for stations in the division.

Annual substation and divisional normals are the averages of the 12 monthly temperature normals and the sums of the 12 monthly precipitation normals.

References

1. U. S. Weather Bureau, "History of Climatological Publications," Key to Meteorological Records Documentation No. 4. 1, Washington, D. C., 1958.

2. H. E. Landsberg, "The Decennial United States Census of Climate 1960 and Its Antecedents," Key to Meteorological Records Documentation No. 6. 2, U. S. Weather Bureau, Washington, D. C., 1960.

3. U. S. Weather Bureau, Climatology at Work, Gerald L. Barger, ed., Washington, D. C., 1960.

4. H. C. S. Thom, "Tests of Significance for Temperature and Precipitation Normals," U. S. Weather Bureau Manuscript, 1961.

5. H. C. S. Thom, "The Rational Relationship Between Heating Degree Days and Temperature," Monthly Weather Review, Vol. 82, No. 1, January 1954.

6. U. S. Weather Bureau, Administrative Manual, Vol. III, Chap. C-05, paras. C-0509 and C-0510.

NOTES

1. Station Names

In Table I, "AP" after the city name indicates "airport station" "CO" indicates "city office station." Figures and letters following the station name indicate a rural location, and refer to the distance and direction of the station from the nearest post office.

# indicates a station whose location has been essentially unchanged during the period 1931-1960.

H indicates the ground elevation of the station in feet above sea level, as of December 31, 1960.

G indicates the elevation at hygrothermometer site (where different from "H").

T indicates the height of the thermometer in feet above the ground as of December 31, 1960.

/NO TEST/ indicates that significant difference tests were not made.

2. Table Content

* indicates that the departure of the 1951-60 record from the 1921-50 normal is statistically significant, but through the adjustments for changes in location and exposure the absolute difference between old and new normals may even in these cases be very small.

T in the data tables indicates a monthly precipitation amount of only a trace.

February monthly normals are for a 28-day month.

TABLE I - NORMALS FOR FIRST ORDER STATIONS

TEXAS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
ABILENE AP	H1759 T 4													
MAX TEMP		56.4*	60.5	68.4	77.2	83.4	91.7*	94.3*	94.1*	87.4*	78.6	65.3*	58.0*	76.3
MIN TEMP		32.8	36.3*	41.6	51.3	60.0	68.9*	72.1*	71.9*	64.4	53.8	40.7	34.2	52.3
AVG TEMP		44.6*	48.4*	55.0	64.3	71.7	80.3*	83.2*	83.0*	75.9*	66.2	53.0*	46.1*	64.3
DEG DAYS		642*	470*	347	114	0	0	0	0	0	99	366*	586*	2624
PRECIP		.88	1.09	1.04*	2.27	4.33	2.67	2.28	1.47	2.07	2.85	1.11	1.26*	23.32
AMARILLO AP	H3590 T 5													
MAX TEMP		48.8*	52.9	60.4	70.0	78.1	89.0*	92.2	91.0*	83.4*	72.7	59.1	51.2*	70.7
MIN TEMP		23.5*	26.6	31.7	42.0	51.9*	61.9*	66.0*	65.0*	57.2	46.2	31.8	26.3*	44.2
AVG TEMP		36.2*	39.8	46.1	56.0	65.0*	75.5*	79.1*	78.0*	70.3*	59.5	45.5	38.8*	57.5
DEG DAYS		893*	706	586	285	78*	0	0	0	30	220	585	812*	4195
PRECIP		.65	.62	.82	1.32	3.37	2.89	2.34	2.58	1.89	1.76	.66*	.77	19.67
AUSTIN AP	H 615 T 6													
MAX TEMP		60.3*	64.0	70.6	78.0	85.2	92.0*	95.1*	95.6*	89.7	81.9	69.6*	62.8*	78.7
MIN TEMP		40.5	43.5	48.7	57.3	64.9	71.7	73.9	73.7	68.5	59.5*	47.9*	42.6	57.7
AVG TEMP		50.4*	53.8	59.7	67.7	75.1	81.9*	84.5*	84.7*	79.1	70.7*	58.8*	52.7*	68.2
DEG DAYS		468*	325	223	51	0	0	0	0	0	31*	225*	388*	1711
PRECIP		2.35*	2.58	2.13	3.55	3.71	3.22	2.18	1.94	3.44	2.83	2.12	2.53	32.58
BROWNSVILLE AP	H 16 T 5													
MAX TEMP		70.5*	73.2	76.8	82.3	87.1	90.7*	92.5	92.8*	89.8	85.1*	77.0*	72.2	82.5
MIN TEMP		52.2	54.7	59.0	65.5	70.8	74.7*	75.5	75.3*	72.6	66.6	58.2	53.5	64.9
AVG TEMP		61.4*	64.0	67.9	73.9	79.0	82.7*	84.0	84.1	81.2	75.9*	67.6*	62.9	73.7
DEG DAYS		205*	106	74	0	0	0	0	0	0	0	66*	149	600
PRECIP		1.35	1.48*	1.04	1.55	2.36*	2.96	1.68*	2.77	4.99	3.53*	1.32	1.72*	26.75
CORPUS CHRISTI AP	H 43 T 19													
MAX TEMP		67.4*	69.8	74.4	80.4	85.9	90.5*	93.5*	93.8*	90.1	84.5	73.8*	68.8	81.1
MIN TEMP		47.4	50.9	55.9	63.0	69.1	74.0*	74.6*	74.5*	71.4*	64.5	54.3	49.5	62.4
AVG TEMP		57.4*	60.4	65.2	71.7	77.5	82.3*	84.1*	84.2*	80.8*	74.5	64.1*	59.2	71.8
DEG DAYS		291*	174	109	0	0	0	0	0	0	0	120*	220	914
PRECIP		1.63	1.70	1.44*	2.14	2.99	2.39	2.32*	2.77	4.40	2.76*	1.72	2.08	28.34
DALLAS AP	G 481 T 5													
MAX TEMP		55.8	59.5	67.0	75.4	82.7	90.9*	94.5*	95.0*	88.3*	78.8	65.7	58.0	76.0
MIN TEMP		36.0	39.4	45.2	54.6*	63.1	71.7	75.3*	75.0	67.4	56.8*	44.1*	38.1	55.6
AVG TEMP		45.9	49.5	56.1	65.0*	72.9	81.3*	84.9*	85.0*	77.9*	67.8*	54.9*	48.1	65.8
DEG DAYS		601	440	319	90*	6	0	0	0	0	62*	321*	524	2363
PRECIP		2.32	2.55*	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.70	2.67	34.55
EL PASO AP	H3920 T 6													
MAX TEMP		56.3*	62.4	68.4	77.2	85.9	94.4*	93.9*	92.0*	87.5*	78.8	66.3	57.5*	76.7
MIN TEMP		31.5*	36.7	41.3	49.5*	57.9*	66.5	68.9*	67.7*	62.4	52.0	38.1	32.7	50.4
AVG TEMP		43.9*	49.6	54.9	63.4*	71.9*	80.5*	81.4*	79.9*	75.0*	65.4	52.2	45.1*	63.6
DEG DAYS		654*	431	319	105*	0	0	0	0	0	68	384	617*	2578
PRECIP		.46	.41	.35*	.29	.40	.69	1.29*	1.19	1.14	.85	.33*	.49	7.89
FORT WORTH AP-A CARTER	H 544 T 4													
MAX TEMP		56.0	59.8	67.3	75.6	82.8	91.6*	95.9*	96.2*	89.3*	79.4	66.1*	58.2	76.5
MIN TEMP		34.9	38.6	44.4	53.9*	62.6	71.3	74.9	74.6	67.5	56.4	43.5*	37.2	55.0
AVG TEMP		45.5	49.2	55.9	64.8*	72.7	81.5*	85.4*	85.4	78.4*	67.9	54.8*	47.7	65.8
DEG DAYS		614	448	319	99*	0	0	0	0	0	65	324*	536	2405
PRECIP		2.04*	2.24*	2.51	3.60	4.59	2.98	1.75	1.68*	2.54	2.59	2.46	2.35	31.33
GALVESTON CO	H 7 T122													
MAX TEMP		60.5*	62.4	66.6	73.0	80.1	85.6	87.3*	87.5	84.6	78.5	68.6	62.7	74.8
MIN TEMP		49.3	51.2	56.2	64.0	71.5	77.7	78.9*	79.0	75.5	68.4	57.4*	51.6	65.1
AVG TEMP		54.9*	56.8	61.4	68.5	75.8	81.7	83.1*	83.3	80.1	73.5	63.0*	57.2	70.0
DEG DAYS		350*	258	189	30	0	0	0	0	0	0	138*	270	1235
PRECIP		3.46*	2.88	2.86*	2.59*	2.79	2.65*	4.79	4.39*	5.09	2.86	3.56*	3.89*	41.81
GALVESTON AP	H 5 T 27													
MAX TEMP		60.4	62.6	67.1	73.7	81.1	86.9	88.6	88.5	85.3	79.0*	68.9*	62.8	75.4
MIN TEMP		48.4	50.5	55.6	63.5	70.9*	77.2*	78.6*	78.7*	75.1	67.8	56.5*	50.7	64.5
AVG TEMP		54.4	56.6	61.4	68.6	76.0*	82.1*	83.6*	83.6*	80.2	73.4*	62.7*	56.8	70.0
DEG DAYS		360	263	189	33	0	0	0	0	0	6*	147*	276	1274
PRECIP		3.76*	3.35	3.03*	2.97*	3.01	2.49	4.87	4.52*	5.76	3.19	3.84*	4.42*	45.21

TABLE I - NORMALS FOR FIRST ORDER STATIONS

STATION		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	ANNUAL
HOUSTON CO H 41 T158														
	MAX TEMP	62.6*	65.2	70.9	77.5	84.4	90.4*	92.0*	92.4	88.3	81.6*	70.4	64.6	78.4
	MIN TEMP	46.6	49.0	53.8	61.0	67.9*	73.9*	75.8*	75.7*	71.3	63.1	52.7	48.4	61.6
	AVG TEMP	54.6*	57.1	62.4	69.3	76.2*	82.2*	83.9*	84.1*	79.8	72.4*	61.6	56.5	70.0
	DEG DAYS	363*	258	174	30	0	0	0	0	0	0	165	288	1278
	PRECIP	3.72	3.21*	2.40*	3.42	4.43	3.83	5.15	3.55	3.81	3.60	4.04	4.10*	45.26
HOUSTON AP H 50 T 4														
	MAX TEMP	64.6	67.5	73.7	80.0	86.7	92.1*	93.1*	92.8	89.1	83.3	72.1	66.4	80.1
	MIN TEMP	44.6	47.0	51.8	60.0	67.2*	73.0*	74.8*	74.6*	70.3*	61.4	50.5	45.9	60.1
	AVG TEMP	54.6	57.3	62.8	70.0	77.0*	82.6*	84.0*	83.7*	79.7*	72.4	61.3	56.2	70.1
	DEG DAYS	363	252	167	24	0	0	0	0	0	0	174	298	1278
	PRECIP	3.78	3.44*	2.67	3.24	4.32	3.69	4.29	4.27*	4.26	3.77	3.86	4.36	45.95
LAREDO AP H 500 T 6														
	MAX TEMP	68.4	72.6	80.1	87.1	92.0	96.8*	99.0*	99.1	92.9	86.1*	75.6*	69.9	85.0
	MIN TEMP	47.0	50.7	56.0	63.2	69.5	74.5	76.0*	75.9*	72.4	64.9	53.9*	48.4	62.7
	AVG TEMP	57.7	61.7	68.1	75.2	80.8	85.7*	87.5*	87.5*	82.7	75.5*	64.8*	59.2	73.9
	DEG DAYS	267	134	74	0	0	0	0	0	0	0	105*	217	797
	PRECIP	1.13	.89	.62*	1.65*	2.79	1.96	1.36	1.70	2.86	1.63	.87	1.17*	18.63
LUBBOCK AP H3243 T 6														
	MAX TEMP	53.0*	57.3	64.9	74.5	82.1	91.4*	92.4*	91.7*	84.4*	74.8	62.4*	54.7*	73.6
	MIN TEMP	25.4	28.8	34.3	44.4	54.3	63.6*	66.5	65.8	58.4*	47.5	33.3*	27.3	45.8
	AVG TEMP	39.2*	43.1	49.6	59.5	68.2	77.5*	79.5*	78.8*	71.4*	61.2	47.9*	41.0*	59.7
	DEG DAYS	800*	613	484	201	31	0	0	0	18*	174	513*	744*	3578
	PRECIP	.68	.57	.73	1.15	3.18	2.53	2.01	1.68	2.36*	2.00	.54*	.65	18.08
MIDLAND AP H2854 T 30														
	MAX TEMP	57.1*	61.2	68.9	78.5	86.2	93.1	94.5	94.1*	87.7*	78.6*	66.3	59.6*	77.2
	MIN TEMP	30.9	35.4	41.5	51.2	60.6*	69.3	71.2	70.2	63.1	53.1*	38.7*	32.2	51.5
	AVG TEMP	44.0*	48.3	55.2	64.9	73.4*	81.2	82.9	82.2*	75.4*	65.9*	52.5*	45.9*	64.3
	DEG DAYS	651*	468	322	90	0	0	0	0	0	87*	381*	592*	2591
	PRECIP	.80	.60	.36*	.83*	2.08	1.63*	1.88	1.48	1.79	1.66	.47	.66*	14.24
PORT ARTHUR AP H 16 T 6														
	MAX TEMP	62.5*	64.8	70.3	77.0	83.8*	89.6*	91.0*	91.2*	87.4	80.7*	69.7	63.9	77.7
	MIN TEMP	43.7	46.2	50.8	58.3	65.6	71.5*	72.7*	72.3*	68.0*	58.8	48.6	44.6	58.4
	AVG TEMP	53.1*	55.5	60.6	67.7	74.7*	80.6*	81.9*	81.8	77.7*	69.8*	59.2	54.3	68.1
	DEG DAYS	400*	288	202	45	0	0	0	0	0	25*	222	344	1526
	PRECIP	4.23*	4.45	3.44*	3.94	4.94	4.29	6.00	5.49	4.88	2.88	3.46	5.09	53.09
SAN ANGELO AP H1903 T 6														
	MAX TEMP	59.4*	62.7	70.2	80.6	87.5	95.4	97.9	98.5	91.4*	82.3	68.6*	61.2*	79.6
	MIN TEMP	34.3	37.3	42.7*	52.6*	61.1	69.5*	71.7*	71.6	65.1	55.3*	42.9*	36.2*	53.4
	AVG TEMP	46.9*	50.0	56.5*	66.6*	74.3	82.5*	84.8*	85.1	78.3*	68.8*	55.8*	48.7*	66.5
	DEG DAYS	567*	420	298*	72*	0	0	0	0	0	65*	291*	505*	2218
	PRECIP	.97*	.90	.93	2.01	3.20	1.82	1.41	1.27*	2.66	1.83	.78	.85*	18.63
SAN ANTONIO AP H 792 T 4														
	MAX TEMP	62.3*	66.1	72.4	78.8	85.2	91.6*	94.0*	94.2*	88.5	81.5	70.4*	65.4	79.2
	MIN TEMP	41.[illegible]	44.7	49.6	57.6	65.4	72.2	73.9*	73.4*	68.7	59.6	48.5	42.0	58.1
	AVG TEMP	52.0*	55.4	61.0	68.2	75.3	81.9*	84.0*	83.8*	78.6	70.6	59.4*	53.7	68.7
	DEG DAYS	428*	286	195	39	0	0	0	0	0	31	207*	363	1549
	PRECIP	1.74*	1.65	1.67	2.82	3.45	2.95	2.09	2.36	3.49	2.50	1.37	1.75	27.84
VICTORIA AP H 104 T 5														
	MAX TEMP	64.8	67.4	72.8	78.8	84.6	89.3*	91.7*	92.3*	87.6*	82.8*	72.5*	66.9	79.3
	MIN TEMP	46.0	48.6	53.6	61.2*	67.8*	73.2*	74.6*	74.4*	70.6*	62.4*	52.2*	47.5	61.0
	AVG TEMP	55.4	58.0	63.2	70.0*	76.2*	81.3*	83.2*	83.4*	79.1*	72.6*	62.4*	57.2	70.2
	DEG DAYS	344	230	152	21*	0	0	0	0	0	6*	150*	270	1173
	PRECIP	2.34*	2.34	2.32*	2.62	4.12	3.04	3.61*	3.13	4.23	3.48*	2.36	2.61	36.20
WACO AP H 504 T 5														
	MAX TEMP	58.2*	61.9	69.1	77.4	84.7	92.4	96.0*	96.6*	90.1*	81.2	68.2*	60.8*	78.1
	MIN TEMP	37.8	41.0	46.7	55.7	63.8	71.5	74.6	74.3	67.9	57.6*	45.4*	39.7	56.3
	AVG TEMP	48.0*	51.5	57.9	66.6	74.3	82.0	85.3*	85.5	79.0*	69.4	56.8*	50.3*	67.2
	DEG DAYS	536*	389	270	66	0	0	0	0	0	43*	270*	456*	2030
	PRECIP	2.27*	2.42	2.35*	3.88	4.57	2.67*	1.99*	1.68	2.77	2.55	2.19	2.74	32.08
WICHITA FALLS AP H1002 T 5														
	MAX TEMP	52.9*	57.4	65.4	75.4	82.7*	92.2*	96.9*	97.3*	88.9*	77.8	63.9	54.9*	75.5
	MIN TEMP	30.6	34.1	40.1	50.5	59.6	69.3*	73.3*	73.1	64.9	53.9	40.0*	33.2	51.9
	AVG TEMP	41.8*	45.8	52.8	63.0	71.2*	80.8*	85.1*	85.2*	76.9*	65.9	52.0*	44.1*	63.7
	DEG DAYS	719*	538	400	135	9*	0	0	0	0	109	396*	648*	2954
	PRECIP	1.12*	1.38*	1.54	2.53	4.60*	3.20	1.97	1.79*	2.33*	2.87	1.42	1.45	26.20

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

TEXAS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
HIGH PLAINS DIVISION																										
AMARILLO AP	36.2	39.8	46.1	56.0	65.0	75.5	79.1	78.0	70.3	59.5	45.5	38.8	57.5	.65	.62	.82	1.32	3.37	2.89	2.34	2.58	1.89	1.76	.66	.77	19.67
BROWNFIELD 2 E	•	•	•	•	•	•	•	•	•	•	•	•	•	.59	.70	.59	1.01	2.50	2.24	2.11	1.65	2.37	2.03	.49	.53	16.81
CROSBYTON	39.7	42.7	49.3	59.5	67.9	77.7	80.3	79.7	72.2	61.6	48.3	41.9	60.1	.92	.76	.72	1.62	3.43	2.47	2.52	2.14	2.22	2.72	.84	.96	21.32
DALHART FAA AIRPORT	•	•	•	•	•	•	•	•	•	•	•	•	•	.44	.40	.66	1.28	2.78	2.01	2.53	2.33	1.46	1.50	.48	.46	16.33
#DIMMITT 6 E	•	•	•	•	•	•	•	•	•	•	•	•	•	.53	.42	.58	1.09	2.81	2.50	2.40	1.98	1.94	1.87	.56	.68	17.36
GARDEN CITY 1 E	•	•	•	•	•	•	•	•	•	•	•	•	•	.74	.63	.56	1.27	2.37	1.76	2.14	1.65	1.87	1.67	.71	.90	16.27
LAMESA 1 SSE	41.5	45.3	51.9	61.2	69.8	79.0	80.5	79.9	73.1	62.9	50.1	43.2	61.5	.75	.61	.61	1.04	2.39	1.78	2.35	1.44	2.43	2.01	.74	.78	16.93
#LUBBOCK	41.0	44.7	51.3	60.8	68.9	77.9	79.7	78.8	71.9	62.1	49.5	42.9	60.8	.69	.58	.72	1.16	3.16	2.29	2.17	1.61	2.24	1.87	.50	.68	17.67
LUBBOCK AP	39.2	43.1	49.6	59.5	68.2	77.5	79.5	78.8	71.4	61.2	47.9	41.0	59.7	.68	.57	.73	1.15	3.18	2.53	2.01	1.68	2.36	2.00	.54	.65	18.08
MIAMI	35.2	39.0	45.8	56.4	65.1	75.3	80.0	79.2	71.0	59.9	45.5	37.9	57.5	.70	.67	.97	1.61	3.89	3.03	2.38	2.45	2.00	1.89	.67	.89	21.15
MIDLAND AP	44.0	48.3	55.2	64.9	73.4	81.2	82.9	82.2	75.4	65.9	52.5	45.9	64.3	.80	.60	.36	.83	2.08	1.63	1.88	1.48	1.79	1.66	.47	.66	14.24
#MULESHOE 1	36.7	40.2	46.6	56.6	65.7	75.6	78.1	76.9	69.6	58.6	45.0	38.7	57.4	.65	.48	.62	1.02	2.80	2.48	2.37	2.21	1.99	1.62	.55	.65	17.44
PAMPA	•	•	•	•	•	•	•	•	•	•	•	•	•	.53	.69	.79	1.50	3.62	3.00	2.48	2.39	1.91	1.83	.61	.81	20.16
PERRYTON	•	•	•	•	•	•	•	•	•	•	•	•	•	.61	.64	1.05	1.53	3.46	2.81	3.21	2.38	1.67	1.62	.73	.69	20.40
PLAINVIEW	39.6	43.1	49.2	58.8	67.3	77.0	79.4	78.4	71.5	61.3	48.4	41.8	59.7	.80	.62	.68	1.53	3.18	2.58	2.47	2.05	2.02	1.64	.59	.82	18.98
SPEARMAN	33.9	38.3	44.6	55.1	64.4	74.8	79.6	78.8	70.7	59.1	44.4	36.9	56.7	.75	.80	1.19	1.69	3.61	3.24	2.72	2.71	1.74	1.71	.90	.80	21.86
VEGA	35.9	39.5	45.6	55.2	64.2	74.2	78.2	76.9	69.4	58.5	45.1	38.4	56.8	.67	.59	.89	1.37	2.88	2.43	2.56	2.79	1.73	1.52	.68	.85	18.96
DIVISION	38.2	42.0	48.3	58.1	66.8	76.5	79.5	78.6	71.5	60.8	47.4	40.5	59.0	.65	.57	.69	1.37	3.09	2.40	2.51	2.10	1.88	1.88	.55	.69	18.38
LOW ROLLING PLAINS DIV																										
ABILENE AP	44.6	48.4	55.0	64.3	71.7	80.3	83.2	83.0	75.9	66.2	53.0	46.1	64.3	.88	1.09	1.04	2.27	4.33	2.67	2.28	1.47	2.07	2.85	1.11	1.26	23.32
ASPERMONT	•	•	•	•	•	•	•	•	•	•	•	•	•	.75	1.11	.83	2.06	3.72	2.26	2.02	2.19	2.24	2.46	1.10	.99	21.73
BALLINGER 2 N	45.2	48.6	55.4	65.4	72.8	81.1	83.9	83.9	76.9	67.1	53.6	46.7	65.1	1.30	1.06	1.03	2.46	4.07	2.15	1.49	1.68	3.00	2.22	1.06	1.11	22.63
CHILDRESS FAA AIRPORT	•	•	•	•	•	•	•	•	•	•	•	•	•	.82	.88	1.01	2.14	4.11	3.10	1.90	2.08	2.06	2.04	.65	1.02	21.81
#CHILLICOTHE 2 NE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.04	1.05	1.37	2.19	4.66	3.23	1.86	1.79	2.61	2.58	1.05	1.13	24.56
#COLEMAN	47.5	51.1	57.4	66.3	72.9	80.2	83.5	83.7	77.0	67.1	55.2	48.9	65.9	1.56	1.29	1.25	2.90	4.49	2.73	2.38	1.94	3.04	2.49	1.31	1.44	26.82
CROWELL	•	•	•	•	•	•	•	•	•	•	•	•	•	.96	1.11	1.16	2.08	4.97	2.60	1.86	1.85	2.50	2.54	1.22	1.14	23.99
HASKELL	•	•	•	•	•	•	•	•	•	•	•	•	•	.91	1.34	.92	1.93	3.99	2.84	2.38	1.92	2.04	2.27	1.33	1.33	23.20
HEMPHIS	39.1	42.8	49.5	60.1	68.8	79.1	83.5	83.0	74.6	63.0	48.8	41.4	61.1	•	•	•	•	•	•	•	•	•	•	•	•	•
MUNDAY	•	•	•	•	•	•	•	•	•	•	•	•	•	.96	1.34	1.13	2.35	3.82	2.68	2.23	1.73	2.42	2.46	1.38	1.41	23.91
POST	•	•	•	•	•	•	•	•	•	•	•	•	•	.77	.88	.58	1.51	3.10	2.17	2.22	1.56	2.23	2.04	.74	.80	18.60
QUANAH 5 SE	40.3	43.9	51.2	62.2	70.9	80.9	84.8	84.5	76.1	65.1	50.6	42.4	62.7	.86	1.00	1.28	2.70	4.19	3.02	1.84	2.07	2.71	2.61	1.14	1.28	24.70
ROTAN	•	•	•	•	•	•	•	•	•	•	•	•	•	.87	.99	.87	1.80	3.77	2.32	2.02	1.69	1.92	2.15	1.08	.95	20.43
SEYMOUR	41.2	45.0	52.3	63.0	71.8	81.1	84.9	85.3	77.0	65.5	51.0	43.1	63.4	1.11	1.40	1.39	2.13	3.94	3.07	2.33	1.73	2.56	2.60	1.35	1.34	24.95
SHAMROCK	•	•	•	•	•	•	•	•	•	•	•	•	•	.72	.91	1.08	2.20	4.55	3.01	2.13	2.26	2.09	2.38	.80	.98	23.11
SNYDER	42.2	45.5	52.4	62.8	71.3	80.5	82.7	82.3	74.9	64.6	51.1	44.1	62.9	.71	.83	.76	1.39	3.57	2.16	2.46	1.70	1.98	2.14	.92	.89	19.51
#SPUR 1 WNW	42.2	46.1	52.8	62.6	70.6	79.5	81.9	81.2	74.0	63.9	51.1	44.2	62.5	.69	.85	.71	1.52	3.03	2.60	2.22	2.12	2.53	2.22	.84	.91	20.24
STAMFORD 1	•	•	•	•	•	•	•	•	•	•	•	•	•	.90	1.28	.92	1.89	4.15	2.96	1.97	1.55	2.55	2.54	1.34	1.32	23.37
WICHITA FALLS AP	41.8	45.8	52.8	63.0	71.2	80.8	85.1	85.2	76.9	65.9	52.0	44.1	63.7	1.12	1.38	1.54	2.53	4.60	3.20	1.97	1.79	2.39	2.87	1.42	1.45	26.20
DIVISION	42.7	46.5	53.3	63.5	71.4	80.5	83.8	83.7	76.0	65.4	52.2	44.8	63.7	.96	1.00	1.02	2.13	4.12	2.72	2.12	1.84	2.29	2.45	1.03	1.12	22.80
NORTH CENTRAL DIVISION																										
ALBANY	44.3	47.7	54.2	64.4	72.0	81.0	84.4	84.8	77.1	66.7	53.3	46.6	64.7	1.07	1.54	1.23	2.40	4.60	2.41	2.60	2.14	2.60	2.65	1.34	1.37	25.95
ARTHUR CITY	•	•	•	•	•	•	•	•	•	•	•	•	•	2.89	3.24	3.66	4.81	5.21	3.58	3.62	2.46	3.45	2.99	3.14	3.03	42.08
BRECKENRIDGE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.20	1.43	1.35	2.45	4.11	2.65	2.21	1.79	2.58	2.44	1.43	1.52	25.16
BRIDGEPORT	•	•	•	•	•	•	•	•	•	•	•	•	•	1.71	1.91	2.10	3.22	4.51	2.88	2.04	1.61	2.33	2.99	1.87	2.15	29.32
BROWNWOOD	45.7	49.4	56.0	65.1	72.6	80.7	84.2	84.1	77.0	67.4	54.6	47.8	65.4	1.83	1.73	1.75	2.95	4.50	3.00	1.82	1.71	2.77	2.49	1.41	1.78	27.74
CAMERON	50.3	53.6	59.8	67.7	74.9	81.6	84.7	84.9	79.5	70.9	58.6	52.5	68.3	2.90	2.71	2.45	3.91	3.96	2.88	1.62	1.99	2.88	2.62	2.84	3.09	33.85
CARROLLTON	•	•	•	•	•	•	•	•	•	•	•	•	•	2.35	2.57	2.61	4.27	5.09	3.45	2.12	1.71	2.49	2.94	2.74	2.45	34.79
#CLEBURNE	47.2	50.6	57.5	66.1	73.1	81.3	84.8	85.1	78.3	68.4	56.0	49.3	66.5	2.04	2.64	2.35	3.79	4.46	2.92	2.17	2.25	2.78	2.94	2.28	2.58	33.20
#CLIFTON 9 E	•	•	•	•	•	•	•	•	•	•	•	•	•	2.43	2.57	2.29	4.08	4.43	3.02	2.20	1.70	2.95	2.51	2.31	2.71	33.20
COMANCHE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.90	1.83	1.68	3.12	4.45	2.93	2.09	1.44	2.74	2.73	1.74	1.80	28.45
#CORSICANA	47.0	49.9	56.4	65.2	73.2	81.6	85.3	85.4	78.7	69.2	56.1	49.2	66.4	2.86	3.00	2.88	4.32	4.98	3.12	1.90	2.19	2.67	2.96	2.97	3.21	37.06
DALLAS AP	45.9	49.5	56.1	65.0	72.9	81.3	84.9	85.0	77.9	67.8	54.9	48.1	65.8	2.32	2.55	2.85	4.00	4.83	3.24	1.94	1.93	2.82	2.70	2.70	2.67	34.55
#DENTON EXP STATION	45.4	49.0	55.6	64.5	72.0	80.6	84.3	84.9	77.9	67.8	54.7	47.5	65.4	1.90	2.42	2.51	3.69	5.03	3.16	2.05	1.73	2.37	2.46	2.05	2.19	31.56
DUBLIN	45.1	48.2	54.6	63.9	71.4	79.7	83.5	84.1	77.0	67.7	54.4	47.4	64.8	2.06	2.21	1.79	3.49	5.40	2.88	2.09	1.62	3.13	2.71	2.03	2.26	31.67
#DUNDEE 6 NNW	•	•	•	•	•	•	•	•	•	•	•	•	•	1.24	1.48	1.56	2.12	4.19	2.87	1.94	1.58	2.39	2.93	1.47	1.49	25.26
FORT WORTH AP A CARTER	45.5	49.2	55.9	64.8	72.7	81.5	85.4	85.4	78.4	67.9	54.8	47.7	65.8	2.04	2.24	2.51	3.60	4.59	2.98	1.75	1.68	2.54	2.59	2.46	2.35	31.33
GAINESVILLE	44.0	48.1	54.9	64.3	72.2	80.7	84.8	84.9	77.8	67.0	53.7	46.1	64.9	2.07	2.51	2.64	3.75	5.09	3.79	2.38	2.45	2.63	2.91	2.09	2.23	34.54
GRAHAM	43.5	47.3	54.3	63.9	71.6	80.7	84.5	84.9	77.3	66.5	52.9	45.8	64.4	1.31	1.62	1.79	2.84	4.22	3.23	1.87	1.87	2.88	2.61	1.66	1.51	27.41
#GREENVILLE 2 SW	43.6	46.9	53.9	63.5	71.5	79.9	83.3	83.7	77.1	67.0	53.4	46.2	64.2	2.89	3.31	3.56	4.75	5.72	4.20	3.18	2.27	2.92	3.21	3.54	3.26	42.81
HENRIETTA	42.3	46.1	52.9	63.6	72.2	81.8	86.4	86.7	78.6	67.0	52.6	44.7	64.6	•	•	•	•	•	•	•	•	•	•	•	•	•
#HEWITT 1 SE	•	•	•	•	•	•	•	•	•	•	•	•	•	2.07	2.52	2.21	3.90	4.36	2.43	1.94	2.00	3.07	2.45	2.34	2.58	31.87
#HONEY GROVE	•	•	•	•	•	•	•	•	•	•	•	•	•	3.34	3.41	3.69	4.84	5.24	4.28	3.19	2.52	3.47	3.52	3.32	3.18	44.00
KAUFMAN	44.7	48.2	55.0	64.0	72.0	80.6	84.5	84.9	78.3	68.0	54.2	47.2	65.1	2.94	3.07	2.96	4.47	5.30	3.67	2.29	2.01	2.89	3.18	3.18	3.32	39.28
MC GREGOR	•	•	•	•	•	•	•	•	•	•	•	•	•	2.34	2.41	2.29	4.10	4.51	2.68	2.19	1.65	2.84	2.44	2.26	2.54	32.25
#MEXIA	46.9	50.0	56.4	65.3	72.8	80.2	83.9	84.7	78.9	69.3	56.0	49.3	66.1	3.05	3.14	2.90	3.97	4.90	3.28	2.13	1.87	3.23	2.72	3.17	3.27	37.63
PARIS	42.7	46.1	52.8	62.6	70.7	79.4	83.1	83.3	76.4	66.2	52.7	45.4	63.5	3.08	3.45	3.47	5.19	5.40	4.26	3.65	2.73	3.52	3.22	3.78	3.36	45.11
PUTNAM	•	•	•	•	•	•	•	•	•	•	•	•	•	1.06	1.08	1.19	2.69	4.32	2.45	2.04	1.87	2.35	2.73	1.25	1.26	24.29
SHERMAN NO 2	42.5	46.1	53.2	63.3	71.4	80.4	84.2	84.4	77.1	66.6	52.7	45.2	63.9	2.47	3.37	2.99	4.38	5.24	3.75	2.78	2.61	2.89	3.23	2.70	2.64	39.05
TAYLOR	49.1	52.6	58.9	67.3	74.7	81.6	84.5	84.9	79.1	70.3	57.7	51.3	67.7	2.56	2.81	2.20	3.52	3.69	3.52	1.83	2.30	3.31	2.72	2.60	2.93	33.99
TEMPLE	47.9	51.5	57.9	66.4	73.9	81.3	84.6	85.1	79.3	70.0	57.0	50.2	67.1	2.44	2.65	2.24	3.81	4.63	3.10	1.94	2.03	2.83	2.70	2.80	2.77	33.94
THROCKMORTON	44.3	48.1	54.9	64.9	72.3	81.3	84.9	85.3	77.6	67.1	53.6	46.1	65.0	1.10	1.32	1.27	2.44	4.22	3.17	1.99	1.59	2.21	2.73	1.42	1.37	24.83
WACO AP	48.0	51.5	57.9	66.6	74.3	82.0	85.3	85.5	79.0	69.4	56.8	50.3	67.2	2.27	2.42	2.35	3.88	4.57	2.67	1.99	1.68	2.77	2.55	2.19	2.74	32.08
WEATHERFORD	43.6	46.7	53.3	63.0	70.9	79.8	83.8	84.3	76.6	66.0	52.7	45.8	63.9	2.14	2.46	2.16	3.58	5.39	3.00	1.89	1.67	2.70	3.04	1.82	2.12	31.97
DIVISION	45.4	49.0	55.7	64.9	72.5	80.9	84.5	84.9	77.8	67.8	54.7	47.6	65.5	2.13	2.35	2.14	3.70	4.78	3.18	2.18	1.93	2.72	2.87	2.21	2.31	32.50

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
EAST TEXAS DIVISION																										
ANDERSON	•	•	•	•	•	•	•	•	•	•	•	•	•	3.73	3.29	2.77	4.27	4.49	3.26	3.01	2.91	3.00	2.85	3.48	3.70	40.76
BON WIER 2 E	•	•	•	•	•	•	•	•	•	•	•	•	•	4.97	4.85	4.44	5.44	5.82	4.52	5.31	4.28	3.40	2.90	4.92	5.97	56.82
#HENDERSON	•	•	•	•	•	•	•	•	•	•	•	•	•	4.24	4.01	4.01	4.42	5.44	3.41	3.00	2.95	3.11	3.31	4.02	4.86	46.78
HUNTSVILLE	50.8	53.5	59.4	67.2	74.5	81.2	83.5	83.6	78.3	70.2	58.2	52.5	67.7	3.90	3.97	3.28	4.40	4.71	4.26	3.67	2.81	3.25	3.27	4.34	4.29	46.15
#JEFFERSON	•	•	•	•	•	•	•	•	•	•	•	•	•	4.20	4.03	3.93	4.62	5.28	3.02	3.26	2.67	3.08	2.78	4.39	4.74	46.00
KIRBYVILLE FOREST SER	51.9	54.9	59.7	66.9	73.4	79.5	81.6	81.5	77.2	68.3	57.5	52.7	67.1	4.73	4.57	4.05	4.66	5.55	4.31	5.87	3.78	3.24	2.86	4.58	5.96	54.16
#LINDALE 5 SE	47.0	50.3	56.5	64.9	72.3	79.7	82.7	82.8	77.1	67.8	55.6	49.3	65.5	3.88	3.67	3.91	4.89	5.45	3.27	3.26	2.91	2.74	3.23	4.21	4.77	46.19
LONGVIEW	47.7	50.8	57.0	65.7	73.6	81.2	84.2	84.3	78.3	68.3	55.7	49.2	66.3	4.27	3.76	3.84	4.79	5.67	3.36	3.52	2.56	2.62	3.07	4.12	4.58	46.16
LUFKIN FAA AIRPORT	49.9	52.8	58.6	66.6	74.1	81.0	83.4	83.4	78.2	69.0	56.9	51.3	67.1	•	•	•	•	•	•	•	•	•	•	•	•	•
MARSHALL	47.1	50.5	56.7	65.5	73.3	80.8	83.8	83.8	78.1	68.3	55.3	49.0	66.0	4.75	4.01	4.40	4.43	5.25	3.18	3.28	2.53	2.70	3.01	4.41	5.01	46.96
MOUNT PLEASANT	45.0	47.8	54.2	63.4	71.4	79.7	82.9	82.9	76.3	66.3	53.1	46.5	64.1	•	•	•	•	•	•	•	•	•	•	•	•	•
NACOGDOCHES	48.4	51.7	57.4	65.2	72.4	79.4	82.3	82.4	77.0	67.9	55.7	50.0	65.8	4.46	4.21	3.73	4.68	5.33	3.31	3.57	2.69	2.95	3.15	4.71	5.25	48.04
NAPLES 5 NE	•	•	•	•	•	•	•	•	•	•	•	•	•	4.20	3.80	4.29	5.16	5.11	3.35	3.23	2.98	2.46	3.11	4.16	4.41	46.26
PALESTINE	48.6	51.7	57.7	65.9	73.1	80.3	83.1	83.3	77.7	69.0	56.8	50.6	66.5	3.52	3.21	3.40	3.81	4.79	2.88	2.64	2.45	2.96	2.96	3.93	4.10	40.65
#RIVERSIDE	•	•	•	•	•	•	•	•	•	•	•	•	•	3.98	3.84	3.38	4.48	4.78	3.94	3.02	2.41	3.08	2.66	4.51	4.18	44.26
ROCKLAND 1 N	•	•	•	•	•	•	•	•	•	•	•	•	•	5.39	4.25	3.48	4.59	5.40	3.84	4.10	2.88	2.97	3.24	4.63	5.08	49.85
TRINIDAD 1 SW	•	•	•	•	•	•	•	•	•	•	•	•	•	2.99	2.94	3.10	4.16	5.21	3.11	1.84	2.28	2.69	3.03	3.16	3.50	38.01
VALLEY JUNCTION	•	•	•	•	•	•	•	•	•	•	•	•	•	2.85	2.94	2.48	3.88	3.96	3.02	2.51	2.16	2.62	3.03	3.16	3.19	35.80
DIVISION	48.8	51.9	57.9	65.9	73.2	80.2	83.0	83.1	77.5	68.2	56.3	50.3	66.4	4.13	3.79	3.53	4.66	5.27	3.31	3.36	2.90	2.95	3.29	4.09	4.36	45.64
TRANS PECOS DIVISION																										
ALPINE	46.7	50.7	55.7	63.3	70.8	77.6	77.4	77.0	71.9	65.0	53.9	48.5	63.2	.81	.45	.28	.51	1.45	2.30	2.78	2.29	2.25	1.21	.42	.67	15.42
#BALMORHEA EXP PAN	47.3	51.5	57.6	65.9	73.2	80.9	81.1	80.1	74.9	66.3	54.4	48.5	65.1	.75	.58	.36	.71	1.41	1.47	1.55	1.35	1.95	1.42	.51	.62	12.68
EL PASO AP	43.9	49.6	54.9	63.4	71.9	80.5	81.4	79.9	75.0	65.4	52.2	45.1	63.6	.46	.41	.35	.29	.40	.69	1.29	1.19	1.14	.85	.33	.49	7.89
PRESIDIO	49.8	55.9	62.1	70.3	79.0	86.9	86.5	85.5	80.1	70.8	57.0	50.3	69.5	.49	.20	.16	.34	.74	.97	1.28	1.21	1.37	.81	.34	.40	8.31
DIVISION	46.1	50.4	56.3	64.4	72.2	79.8	80.3	79.5	73.9	65.3	53.0	46.9	64.0	.65	.37	.45	.56	1.22	1.31	1.83	1.61	1.56	1.20	.38	.50	11.64
EDWARDS PLATEAU DIVISION																										
BLANCO	48.7	51.7	57.7	65.7	73.3	80.5	83.1	83.1	77.4	68.5	56.4	50.6	66.4	2.36	2.54	2.19	3.52	3.77	2.94	2.74	2.28	4.00	3.15	2.16	2.61	34.26
BOERNE	49.9	53.1	58.8	65.9	72.5	78.8	81.1	81.3	76.4	68.4	57.0	51.5	66.2	2.22	2.35	1.88	2.72	4.19	2.90	2.50	2.31	4.04	2.75	1.58	2.23	31.67
#CARR RANCH	•	•	•	•	•	•	•	•	•	•	•	•	•	1.77	1.88	1.71	2.65	3.62	3.12	2.08	2.15	3.51	2.96	1.61	1.79	28.85
DEL RIO WB CITY	52.1	56.7	63.2	70.9	77.5	83.5	85.5	85.4	80.1	71.8	59.4	53.2	69.9	.89	.88	.82	1.36	2.73	2.29	1.31	1.52	2.61	1.98	.62	.82	17.83
KERRVILLE	46.8	50.1	56.2	64.0	71.3	78.3	80.8	80.9	75.2	66.1	54.2	48.3	64.4	1.86	2.07	2.02	3.07	4.19	2.99	2.32	1.85	4.22	3.14	1.52	2.25	31.50
LAMPASAS	47.3	50.5	56.9	65.2	72.5	80.2	83.4	83.6	77.1	67.8	55.4	49.2	65.8	1.90	2.20	1.89	3.36	4.58	2.99	1.90	2.00	3.15	2.52	2.17	2.35	31.01
LLANO	47.2	50.8	57.8	66.6	74.3	82.5	85.3	85.3	78.6	68.7	55.5	48.8	66.8	1.62	1.91	1.45	2.95	3.99	2.58	2.02	1.72	3.44	2.38	1.73	1.80	27.59
#MENARD	•	•	•	•	•	•	•	•	•	•	•	•	•	1.18	1.17	.95	2.28	3.29	2.20	2.22	1.92	3.30	1.99	1.01	1.13	22.64
#PAINT ROCK	•	•	•	•	•	•	•	•	•	•	•	•	•	1.29	1.04	1.09	2.36	3.73	1.89	1.89	1.74	3.01	2.20	1.10	1.12	22.46
SAN ANGELO AP	46.9	50.0	56.5	66.6	74.3	82.5	84.8	85.1	78.3	68.8	55.8	48.7	66.5	.97	.90	.93	2.01	3.20	1.82	1.41	1.27	2.66	1.83	.78	.85	18.63
#STERLING CITY	•	•	•	•	•	•	•	•	•	•	•	•	•	.87	.94	1.02	1.66	2.77	2.03	2.26	1.77	2.22	2.03	.77	1.18	19.52
DIVISION	48.7	52.4	58.5	66.7	73.9	80.7	83.1	83.1	77.3	68.5	56.3	50.3	66.6	1.53	1.56	1.44	2.41	3.46	2.63	2.12	1.98	3.00	2.34	1.25	1.58	25.30
SOUTH CENTRAL DIVISION																										
AUSTIN AP	50.4	53.8	59.7	67.7	75.1	81.9	84.5	84.7	79.1	70.7	58.8	52.7	68.2	2.35	2.58	2.13	3.55	3.71	3.22	2.18	1.94	3.44	2.83	2.12	2.53	32.58
BEEVILLE 5 NE	55.7	58.5	64.3	71.2	76.9	82.1	84.3	84.1	80.2	73.2	63.0	57.3	70.9	2.08	1.76	1.78	2.44	3.24	2.99	2.87	2.20	3.64	2.48	1.90	2.23	29.61
BRENHAM	50.8	53.9	59.8	67.7	75.1	81.5	84.1	84.4	79.2	70.9	59.0	52.9	68.3	3.22	3.11	2.74	3.58	4.18	3.29	2.88	2.88	2.88	2.86	3.81	3.69	39.12
COLUMBUS	•	•	•	•	•	•	•	•	•	•	•	•	•	3.01	3.41	2.78	4.29	4.35	3.34	2.93	3.01	3.77	3.11	3.29	3.69	40.98
CORPUS CHRISTI AP	57.4	60.4	65.2	71.7	77.5	82.3	84.1	84.2	80.8	74.5	64.1	59.2	71.8	1.63	1.70	1.44	2.14	2.99	2.39	2.32	2.77	4.40	2.76	1.72	2.08	28.34
FLATONIA	53.1	56.3	62.2	69.2	76.0	81.9	84.3	84.6	79.4	72.0	60.6	55.0	69.6	2.36	2.78	2.19	4.05	4.26	3.64	2.84	2.38	3.82	2.80	2.57	2.83	36.52
GOLIAD	•	•	•	•	•	•	•	•	•	•	•	•	•	2.24	2.43	2.07	2.60	4.05	3.29	2.97	2.58	3.67	3.25	2.05	2.43	33.63
#GONZALES 1	•	•	•	•	•	•	•	•	•	•	•	•	•	2.15	2.32	1.96	3.55	3.71	2.91	2.79	2.43	3.54	2.42	2.42	2.53	32.73
HALLETTSVILLE 1 N	53.5	56.7	62.3	69.2	75.7	81.5	84.3	84.5	79.5	72.0	61.0	55.5	69.6	•	•	•	•	•	•	•	•	•	•	•	•	•
HONDO	52.3	55.9	61.9	69.4	76.1	82.6	84.9	85.0	79.7	71.2	59.4	53.6	69.3	1.93	1.85	1.59	2.56	4.27	3.03	2.36	2.22	3.66	2.59	1.44	1.70	29.20
KARNES CITY	•	•	•	•	•	•	•	•	•	•	•	•	•	2.05	1.89	1.58	2.50	4.07	2.99	2.39	3.11	4.32	2.82	2.01	2.20	31.93
LULING	51.1	54.4	60.8	68.5	76.1	82.7	85.0	85.3	79.7	71.2	59.2	53.1	68.9	2.26	2.41	1.96	3.59	3.78	3.30	2.83	1.92	3.40	2.50	2.35	2.33	32.63
NEW BRAUNFELS	53.1	56.6	62.9	69.9	76.6	82.8	85.1	85.3	80.1	72.1	60.7	55.0	70.0	2.41	2.42	2.17	3.15	3.82	3.41	2.23	2.08	3.45	3.05	2.08	2.27	32.54
#RIONEDINA 2 N	•	•	•	•	•	•	•	•	•	•	•	•	•	1.59	1.81	1.53	2.44	3.58	3.07	2.24	2.15	3.34	2.27	1.21	1.71	26.94
RUNGE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.78	1.75	1.65	2.48	3.90	3.21	2.27	2.55	3.42	2.61	2.07	2.09	29.78
SAN ANTONIO AP	52.0	55.4	61.0	68.2	75.3	81.9	84.0	83.8	78.6	70.6	59.4	53.7	68.7	1.74	1.65	1.67	2.82	3.45	2.95	2.09	2.36	3.49	2.50	1.37	1.75	27.84
SAN MARCOS	50.5	53.4	59.8	67.5	74.9	81.5	83.8	83.8	78.7	70.2	58.3	52.2	67.9	2.39	2.72	2.14	3.31	3.57	3.53	2.53	2.13	3.95	3.25	2.07	2.29	33.88
SEALY	53.9	56.7	62.2	69.6	76.2	82.1	84.2	84.4	79.5	72.1	61.4	55.8	69.8	3.34	3.12	2.80	3.87	4.45	3.54	3.77	3.24	3.71	3.38	3.22	4.20	42.64
SEGUIN	52.5	55.6	62.0	69.1	76.0	82.0	84.1	84.3	79.2	71.4	59.9	54.2	69.2	2.03	2.24	1.93	3.17	3.55	3.18	2.20	2.02	3.60	3.05	1.71	2.17	30.85
SMITHVILLE	51.8	55.0	61.0	68.6	75.9	82.2	85.1	85.4	79.9	71.9	59.7	53.7	69.2	2.83	2.76	2.32	3.88	3.94	3.87	2.69	2.44	3.29	2.40	2.97	2.83	36.22
WOODSBORO	•	•	•	•	•	•	•	•	•	•	•	•	•	2.03	2.06	1.79	2.97	3.77	2.75	2.95	3.50	4.83	2.91	1.83	2.37	33.76
DIVISION	53.8	56.8	62.4	69.7	76.4	82.3	84.6	84.8	80.0	72.2	61.0	55.4	70.0	2.18	2.36	1.98	3.05	3.69	3.09	2.49	2.57	3.63	2.86	2.15	2.42	32.47
UPPER COAST DIVISION																										
ANGLETON 4 NE	54.7	57.6	61.8	68.5	75.0	80.5	82.3	82.3	78.8	71.5	61.7	57.1	69.3	3.63	3.84	3.18	3.20	3.90	3.51	5.53	4.82	5.44	3.80	3.70	4.61	49.16
BAYTOWN	•	•	•	•	•	•	•	•	•	•	•	•	•	4.43	4.22	3.25	3.20	4.72	3.75	5.53	4.21	4.83	3.73	4.48	4.76	51.71
#BEAUMONT	54.3	56.9	61.8	69.3	76.5	82.7	84.4	84.0	79.8	71.8	60.6	55.6	69.8	4.43	4.50	3.23	4.44	5.05	4.35	5.95	5.43	4.67	3.17	4.04	5.03	54.29
BEAUMONT EXP FARM	53.8	56.3	61.0	68.0	75.0	80.9	82.7	82.8	78.7	70.6	60.2	55.3	68.8	•	•	•	•	•	•	•	•	•	•	•	•	•
DANEVANG	55.5	58.0	63.1	69.8	76.2	81.4	83.3	83.4	79.5	72.5	62.5	57.3	70.2	2.76	3.02	2.63	3.13	3.48	3.41	3.74	4.51	4.00	3.91	2.62	3.29	40.50
EDNA 3 SW	•	•	•	•	•	•	•	•	•	•	•	•	•	2.65	2.79	2.41	3.18	3.88	3.38	3.45	3.18	4.10	3.49	2.65	2.72	37.88
GALVESTON CO	54.9	56.8	61.4	68.5	75.8	81.7	83.1	83.3	80.1	73.5	63.0	57.2	70.0	3.46	2.88	2.86	2.59	2.79	2.65	4.79	4.39	5.09	2.86	3.56	3.89	41.81
GALVESTON AP	54.4	56.6	61.4	68.6	76.0	82.1	83.6	83.6	80.2	73.4	62.7	56.8	70.0	3.76	3.35	3.03	2.97	3.01	2.49	4.87	4.52	5.76	3.19	3.84	4.42	45.21
HOUSTON CO	54.6	57.1	62.4	69.3	76.2	82.2	83.9	84.1	79.8	72.4	61.6	56.5	70.0	3.72	3.21	2.40	3.42	4.43	3.83	5.15	3.55	3.81	3.60	4.04	4.10	45.26
HOUSTON AP	54.6	57.3	62.8	70.0	77.0	82.6	84.0	83.7	79.7	72.4	61.3	56.2	70.1	3.78	3.44	2.67	3.24	4.32	3.69	4.29	4.27	4.26	3.77	3.86	4.36	45.95
LIBERTY	53.9	56.5	61.6	68.3	75.2	81.1	83.2	83.0	78.7	70.8	60.2	55.2	69.0	4.78	4.21	3.13	4.33	4.49	4.18	5.05	4.01	4.00	3.74	4.08	5.16	51.16
MATAGORDA NO 2	56.3	58.7	63.0	69.5	76.3	81.9	83.7	83.8	80.0	73.2	63.3	58.2	70.7	3.03	3.06	2.37	3.22	3.29	2.70	3.53	4.24	5.03	3.51	2.95	3.65	40.58
#PIERCE	53.2	55.9	61.1	68.4	75.5	81.1	83.0	82.9	78.9	71.5	60.7	55.2	69.0	3.17	3.16	2.61	2.84	3.92	3.51	3.80	3.66	3.87	3.93	3.34	3.38	41.19
PORT ARTHUR	53.9	56.3	61.3	68.8	76.1	82.2	83.5	83.6	79.7	72.0	61.0	55.4	69.5	4.36	4.18	3.79	4.27	4.64	4.46	6.96	5.06	5.49	3.43	3.77	4.94	55.35
PORT ARTHUR AP	53.1	55.5	60.6	67.7	74.7	80.6	81.9	81.8	77.7	69.8	59.2	54.3	68.1	4.23	4.45	3.44	3.94	4.94	4.29	6.00	5.49	4.88	2.88	3.46	5.09	53.09
SUGAR LAND	53.3	55.9	61.4	68.8	75.9	81.6	83.5	83.6	79.6	72.2	60.8	55.2	69.3	3.56	3.55	2.55	3.67	4.53	3.28	4.23	3.77	3.85	3.82	4.16	4.14	45.11
VICTORIA AP	55.4	58.0	63.2	70.0	76.2	81.3	83.2	83.4	79.1	72.6	62.4	57.2	70.2	2.34	2.34	2.32	2.62	4.12	3.04	3.61	3.13	4.23	3.48	2.36	2.61	36.20
DIVISION	54.7	57.2	62.0	69.0	75.8	81.6	83.4	83.4	79.4	71.9	61.3	56.2	69.7	3.41	3.60	2.67	3.39	4.16	3.55	4.29	4.51	4.40	3.64	3.43	3.89	44.94

TABLE II - NORMALS BY CLIMATOLOGICAL DIVISIONS

STATIONS (By Divisions)	TEMPERATURE (°F) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	PRECIPITATION (In.) JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
SOUTHERN DIVISION																										
ALICE	•	•	•	•	•	•	•	•	•	•	•	•	•	1.53	1.37	1.30	2.03	2.96	2.98	1.86	2.39	4.48	2.69	1.46	1.65	26.70
BIG WELLS	•	•	•	•	•	•	•	•	•	•	•	•	•	1.08	1.19	.92	1.91	3.11	2.43	1.56	1.82	2.81	2.19	.92	1.28	21.22
CARRIZO SPRINGS	54.3	58.2	64.5	72.3	78.8	84.7	86.6	86.5	81.5	73.4	61.7	55.5	71.5	1.02	1.03	.80	1.68	3.58	2.54	1.83	2.31	2.82	2.29	.83	1.17	21.90
COTULLA	•	•	•	•	•	•	•	•	•	•	•	•	•	1.26	1.35	1.07	1.92	3.18	2.35	1.38	1.80	2.74	2.09	.86	1.43	21.43
DILLEY	53.6	56.9	63.4	71.2	77.8	83.5	85.6	85.8	81.0	72.8	61.2	55.1	70.7	1.33	1.47	.90	2.10	3.21	2.91	2.13	1.77	2.65	2.09	1.22	1.56	23.34
EAGLE PASS	52.4	57.1	64.2	72.8	79.5	85.8	87.6	87.3	81.4	72.9	59.9	53.2	71.2	1.09	.92	.70	1.87	3.26	2.43	2.04	2.34	2.50	1.73	.66	1.00	20.54
ENCINAL 3 NW	54.8	58.4	65.0	72.9	79.1	84.6	86.5	86.3	81.3	73.4	62.2	56.0	71.7	1.23	1.27	.94	1.63	3.46	2.38	1.57	1.90	2.81	2.18	.93	1.29	21.59
FALFURRIAS	58.5	61.6	67.2	74.1	80.0	84.7	86.5	86.3	82.1	75.1	65.2	59.7	73.4	1.52	1.23	1.02	1.93	2.79	2.43	1.49	2.69	4.54	2.03	1.00	1.46	24.13
#GEORGE WEST	•	•	•	•	•	•	•	•	•	•	•	•	•	1.59	1.59	1.48	2.15	3.13	2.80	2.04	2.33	3.51	2.59	1.46	2.10	26.77
LAREDO AP	57.7	61.7	68.1	75.2	80.8	85.7	87.5	87.5	82.7	75.5	64.8	59.2	73.9	1.13	.89	.62	1.65	2.79	1.96	1.36	1.70	2.86	1.63	.87	1.17	18.63
#SARITA 7 E	•	•	•	•	•	•	•	•	•	•	•	•	•	1.91	1.62	1.42	1.68	3.21	2.18	2.01	2.50	5.16	2.31	1.12	1.49	26.61
THREE RIVERS	•	•	•	•	•	•	•	•	•	•	•	•	•	1.51	1.59	1.30	2.22	3.32	2.93	1.96	2.30	3.41	2.30	1.49	2.02	26.35
WHITSETT 3 SW	•	•	•	•	•	•	•	•	•	•	•	•	•	1.52	1.69	1.25	2.36	3.42	2.57	1.94	2.16	3.94	1.75	1.53	2.03	26.16
DIVISION	55.6	59.3	65.5	73.0	79.1	84.5	86.5	86.5	81.6	73.8	62.6	56.6	72.1	1.19	1.17	.93	1.86	3.09	2.51	1.73	2.13	3.12	2.09	.98	1.18	21.98
LOWER VALLEY DIVISION																										
BROWNSVILLE AP	61.4	64.0	67.9	73.9	79.0	82.7	84.0	84.1	81.2	75.9	67.6	62.9	73.7	1.35	1.48	1.04	1.55	2.36	2.96	1.68	2.77	4.99	3.53	1.32	1.72	26.75
HARLINGEN	61.5	64.3	68.7	75.0	79.9	83.6	85.2	85.4	81.9	76.2	67.6	62.6	74.3	1.48	1.22	1.03	1.66	3.14	2.58	1.89	3.08	4.57	2.68	1.25	1.51	26.09
MISSION	60.2	63.2	68.6	75.4	80.5	84.0	85.5	85.8	82.2	75.9	66.5	61.2	74.1	1.35	1.00	.88	1.61	2.22	1.94	1.58	1.66	3.24	2.05	.74	1.02	19.29
#PORT ISABEL	62.2	64.3	67.7	73.2	78.5	82.4	83.7	83.7	81.9	77.3	69.6	64.3	74.1	1.66	1.35	1.15	1.69	1.98	2.49	1.21	2.19	4.97	3.05	1.75	2.31	25.80
RAYMONDVILLE	60.5	63.2	68.2	74.6	79.7	83.3	84.9	85.0	81.5	75.3	66.3	61.6	73.7	1.83	1.15	1.30	1.45	3.48	2.46	1.94	3.00	4.65	2.57	1.37	1.33	26.53
WESLACO 2 E	•	•	•	•	•	•	•	•	•	•	•	•	•	1.66	1.03	1.07	1.53	2.70	2.46	1.71	2.67	4.13	2.10	1.02	1.26	23.34
DIVISION	61.0	63.8	68.6	74.9	79.8	83.4	84.9	85.0	81.8	76.0	67.3	62.3	74.1	1.50	1.19	1.05	1.54	2.65	2.49	1.61	2.56	4.14	2.65	1.17	1.38	23.93

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1963 REVISIONS AND ADDITIONS TO CLIMATOGRAPHY OF THE UNITED STATES NO. 81-36
TEXAS
TABLE I — NORMALS FOR FIRST ORDER STATIONS

STATION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
AMARILLO AP													
G3607 T 4													
MAX TEMP	49.8	54.9	62.4	72.0	80.1	91.0	94.2	93.0	85.4	74.7	60.1	52.2	72.5
MIN TEMP	23.5	27.6	32.7	43.0	52.9	62.9	67.0	66.0	58.2	46.2	31.8	26.3	44.8
AVG TEMP	36.7	41.3	47.6	57.5	66.5	77.0	80.6	79.5	71.8	60.5	46.0	39.3	58.7
DEG DAYS	877	664	546	252	56	0	0	0	18	205	570	797	3985
EL PASO AP													
G3918 T 5													
MAX TEMP	56.3	62.4	69.4	78.2	86.9	95.4	94.9	93.0	87.5	78.8	66.3	57.5	77.2
MIN TEMP	29.5	35.7	40.3	48.5	56.9	66.5	68.9	67.7	61.4	50.0	36.1	30.7	49.4
AVG TEMP	42.9	49.1	54.9	63.4	71.9	81.0	81.9	80.4	74.5	64.4	51.2	44.1	63.3
DEG DAYS	685	445	319	105	0	0	0	0	0	84	414	648	2700
HOUSTON AP													
G 50 T 4													
MAX TEMP	63.6	65.5	71.7	78.0	85.7	91.1	92.1	92.8	89.1	82.3	71.1	65.4	79.0
MIN TEMP	43.6	46.0	50.8	59.0	66.2	72.0	73.8	73.6	69.3	60.4	50.5	45.9	59.3
AVG TEMP	53.6	55.8	61.3	68.5	76.0	81.6	83.0	83.2	79.2	71.4	60.8	55.7	69.2
DEG DAYS	384	288	192	36	0	0	0	0	0	6	183	307	1396
PORT ARTHUR AP													
G 16 T 6													
MAX TEMP	63.5	65.8	71.3	78.0	83.8	89.6	91.0	91.2	88.4	81.7	70.7	64.9	78.3
MIN TEMP	43.7	46.2	50.8	58.3	65.6	71.5	72.7	73.3	68.0	58.8	48.6	44.6	58.5
AVG TEMP	53.6	56.0	61.1	68.2	74.7	80.6	81.9	82.3	78.2	70.3	59.7	54.8	68.5
DEG DAYS	384	274	192	39	0	0	0	0	0	22	207	329	1447
SAN ANGELO AP													
G1903 T 6													
MAX TEMP	59.4	62.7	70.2	80.6	86.5	94.4	96.9	97.5	90.4	81.3	67.6	60.2	79.0
MIN TEMP	34.3	38.3	43.7	53.6	62.1	70.5	72.7	72.6	66.1	55.3	41.9	35.2	53.9
AVG TEMP	46.9	50.5	57.0	67.1	74.3	82.5	84.8	85.1	78.3	68.3	54.8	47.7	66.4
DEG DAYS	567	412	288	66	0	0	0	0	0	68	318	536	2255
WICHITA FALLS AP													
G 994 T 4													
MAX TEMP	53.9	58.4	66.4	76.4	83.7	93.2	97.9	98.3	89.9	78.8	64.9	55.9	76.5
MIN TEMP	31.6	35.1	41.1	51.5	60.6	70.3	73.3	73.1	64.9	53.9	40.0	33.2	52.4
AVG TEMP	42.8	46.8	53.8	64.0	72.2	81.8	85.6	85.7	77.4	66.4	52.5	44.6	64.5
DEG DAYS	698	518	378	120	6	0	0	0	0	99	381	632	2832
AUSTIN AP H 615 T 6													
AVG TEMP													68.3
GALVESTON CO H 7 T122													
AVG TEMP													69.9
SAN ANTONIO AP H 792 T 4													
AVG TEMP											59.5		
DEG DAYS											204		1546

Continued

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TABLE II — NORMALS BY CLIMATOLOGICAL DIVISIONS

DIVISION	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
						TEMPERATURE (°F.)							
HIGH PLAINS DIVISION		41.9	48.4			76.4	79.7	78.7	71.4		47.3	40.4	
LOW ROLLING PLAINS DIV	42.6	46.3	53.2	63.4				83.6		65.5	52.1	44.7	63.6
NORTH CENTRAL DIVISION		48.9		64.8		80.8		84.8					65.4
EAST TEXAS DIVISION	48.7	51.7	57.8	65.8	73.1				77.6	68.4		50.4	66.3
TRANS PECOS DIVISION	46.0									65.4			
EDWARDS PLATEAU DIVISION	48.8	52.5							77.4	68.6	56.4		66.7
SOUTH CENTRAL DIVISION	53.5	56.7	62.3	69.6	76.3			84.7	79.9	72.3			69.9
UPPER COAST DIVISION	54.4	57.0	61.9	68.9	75.7	81.5	83.3	83.2	79.3				69.6
SOUTHERN DIVISION	55.5	59.2	65.4	72.8				86.4	81.5			56.7	72.0
LOWER VALLEY DIVISION		63.7	68.4	74.8	79.7		84.8						74.0
						PRECIPITATION (In.)							
HIGH PLAINS DIVISION	.66	.60	.72	1.36	3.05	2.45	2.41	2.12	1.97	1.83	.61	.73	18.51
LOW ROLLING PLAINS DIV		1.05	1.05	2.12	4.06		2.14	1.85	2.40	2.38	1.07	1.19	22.99
NORTH CENTRAL DIVISION	2.18	2.40	2.21	3.69	4.75	3.23	2.22		2.79	2.84	2.28	2.41	32.93
EAST TEXAS DIVISION	4.22	3.82	3.58	4.56	5.12	3.35	3.42	2.91		3.15	4.26	4.62	45.96
TRANS PECOS DIVISION	.68	.41	.46		1.26	1.34	1.80	1.65	1.73	1.18	.40	.56	12.03
EDWARDS PLATEAU DIVISION	1.60	1.59	1.46	2.42	3.54	2.67	2.26		3.11	2.33	1.28	1.67	25.91
SOUTH CENTRAL DIVISION	2.34	2.37	2.10	3.04	3.78	3.13	2.68		3.61		2.21	2.56	33.24
UPPER COAST DIVISION	3.62	3.57	2.83	3.35	4.09	3.61	4.70	4.48	4.57	3.65	3.55	4.17	46.19
SOUTHERN DIVISION	1.24		.95	1.90	3.12	2.55	1.79	2.14	3.13			1.27	22.33
LOWER VALLEY DIVISION	1.57		1.09	1.56	2.72	2.51	1.65		4.21	2.59	1.16	1.46	24.27

REVISIONS TO FIRST ORDER STATIONS IN TABLE I AFFECT THE SAME STATIONS IN TABLE II.

USCOMM-WB-Asheville, N. C. -3/31/64- 2500