

1998

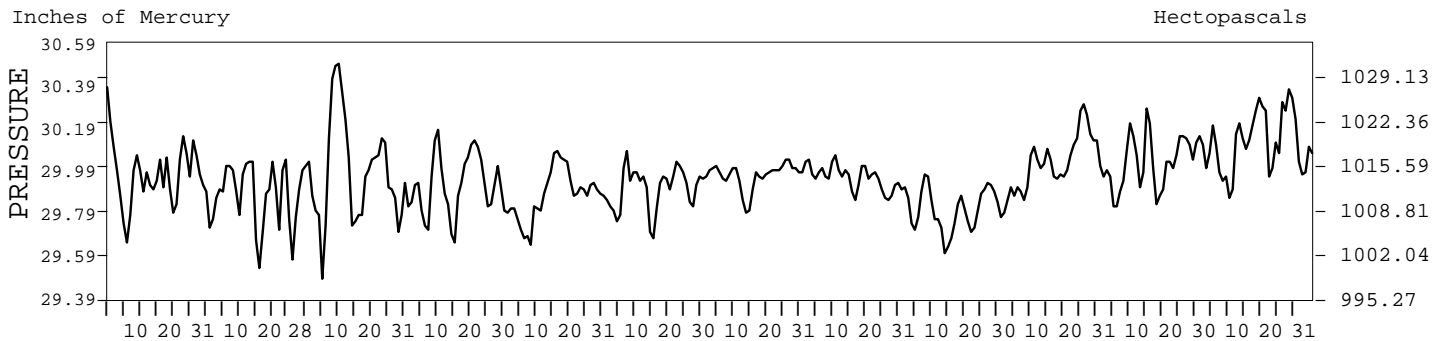
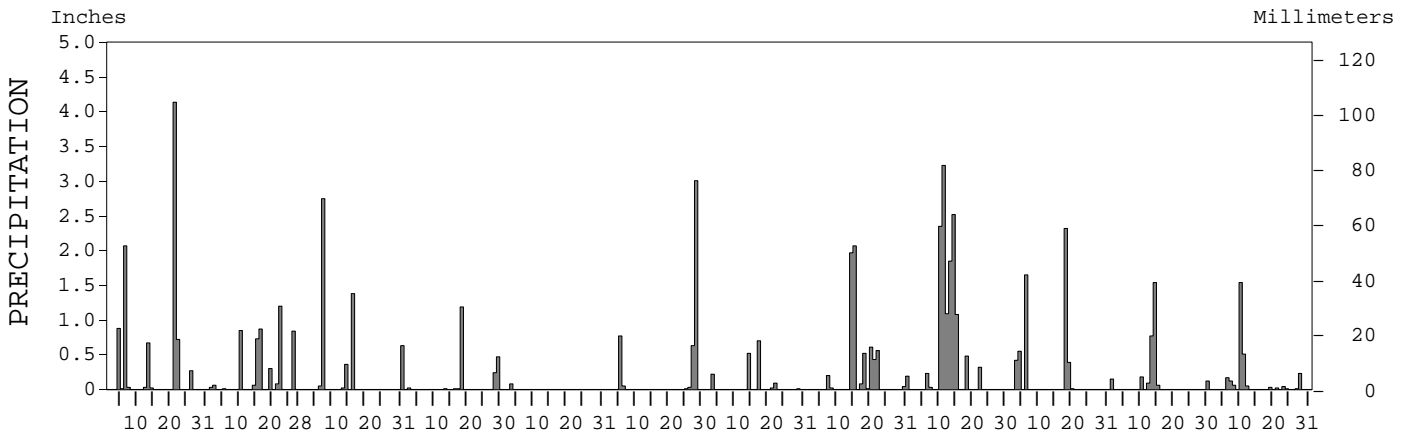
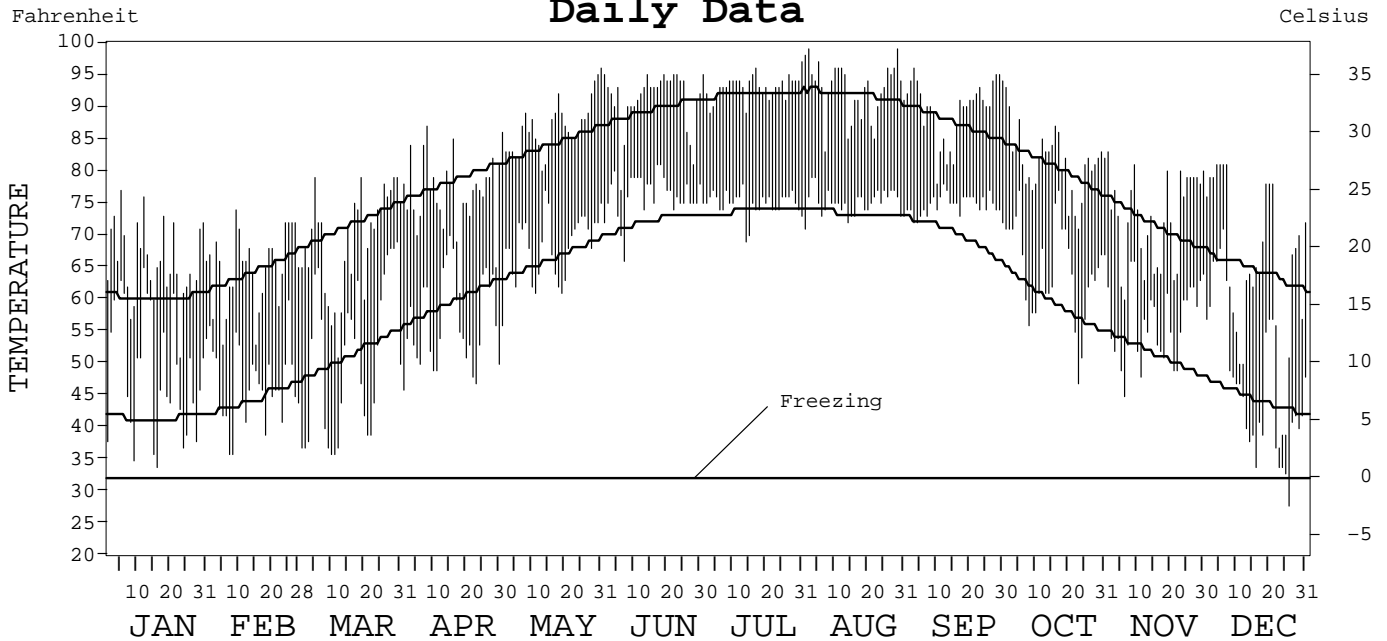
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-5159

PORT ARTHUR,
TEXAS (BPT)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 1998

PORT ARTHUR, TX (BPT)

LATITUDE: 29° 57' 02" N LONGITUDE: 94° 01' 14" W ELEVATION (FT): GRND: 16 BARO: 21 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 12917

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	65.8	64.9	69.3	76.3	86.8	91.1	93.1	92.7	89.6	81.4	72.7	64.8	79.0	
	HIGHEST DAILY MAXIMUM	77	74	79	87	96	95	97	99	96	93	83	81	99	
	DATE OF OCCURRENCE	05	09	30+	08	31	23+	31	29+	3	01	01	07+	AUG 29+	
	MEAN DAILY MINIMUM	49.1	46.6	50.9	56.4	68.1	76.2	74.9	75.1	74.7	64.5	56.2	47.3	61.7	
	LOWEST DAILY MINIMUM	34	36	36	46	56	66	69	71	72	47	45	28	28	
	DATE OF OCCURRENCE	16	08+	11+	01	01	07	14	01	30+	23	06	26	DEC 26	
	AVERAGE DRY BULB	57.5	55.8	60.1	66.4	77.5	83.7	84.0	83.9	82.2	73.0	64.5	56.1	70.4	
	MEAN WET BULB	55.1	52.1	55.6	60.9	72.1	77.9	77.7	77.7		68.1	61.0	53.0		
	MEAN DEW POINT	53.4	48.7	51.1	56.8	69.6		75.8	75.9		65.4	58.6	50.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	5	25	29	25	21	2	0	0	107	
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	
	MINIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	1	1	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	241	253	199	36	0	0	0	0	0	9	78	327	1143	
	COOLING DEGREE DAYS	16	1	56	85	393	568	597	595	523	262	72	59	3227	
RH	MEAN (PERCENT)	88	79	75	74	80	80	80	83	82	81	84	83	81	
	HOUR 06 LST	96	90	87	87	94	91	95	96	94	92	91	93	92	
	HOUR 12 LST	78	67	64	62	60	65	61	65	68	65	71	71	66	
	HOUR 18 LST	86	73	68	65	72	74	69	77	75	79	85	82	75	
	HOUR 24 LST	94	86	83	82	93	90	92	94	92	89	91	91	90	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	3	7	3	13	1	2	1	2	3	10	9	59	
	THUNDERSTORMS	6	6	3	1	1	5	7	14	3	4	2	2	54	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.98	29.87	29.99	29.93	29.88	29.91	29.98	29.96	29.81	30.04	30.05	30.13	29.96	
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	29.90	30.01	29.95	29.90	29.93	30.00	29.98	29.83	30.06	30.07	30.15	29.98	
WINDS	RESULTANT SPEED (MPH)	3.4	1.4	4.0	1.5	2.3	3.3	1.5	1.1	1.5	3.8	1.8	2.6	1.6	
	RES. DIR. (TENS OF DEGS.)	11	07	15	13	20	14	20	06	02	10	09	06	12	
	MEAN SPEED (MPH)	10.4	9.4	11.8	9.4	8.2	10.6	6.6	5.7	9.0	8.6	8.1	9.5	8.9	
	PREVAIL. DIR. (TENS OF DEGS.)	13	36	17	17	17	18	19	20	07	13	01	01	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	30	39	37	29	23	26	38	29	38	36	31	29	39	
	DIR. (TENS OF DEGS.)	13	16	13	15	14	21	01	04	08	33	32	01	16	
	DATE OF OCCURRENCE	21	10	16	26	14	14	17	30+	11	06	10	22	FEB 10	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	39	49	43	33	26	33	45	46	48	41	36	37	49	
DIR. (TENS OF DEGS.)	13	16	14	15	15	22	36	06	09	32	32	01	16		
DATE OF OCCURRENCE	21	10	16	26	14	14	17	20	11	06	10	22	FEB 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	8.84	5.03	5.19	1.95	0.08	4.50	1.56	6.70	13.18	5.34	2.91	2.79	58.07	
	GREATEST 24-HOUR (IN.)	4.81	1.28	2.80	1.19	0.08	3.01	0.70	3.84	4.35	2.68	2.31	1.54	4.81	
	DATE OF OCCURRENCE	21-22	21-22	06-07	18	03	28	17	14-15	10-11	18-19	13-14	10	JAN 21-22	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	11	6	7	1	6	6	12	10	6	7	12	94	
PRECIPITATION ≥ 0.10	6	6	4	3	0	3	3	8	9	5	5	5	57		
PRECIPITATION ≥ 1.00	2	1	2	1	0	1	0	2	6	2	1	1	19		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

PORT ARTHUR, TX (BPT)

LATITUDE: 29° 57' 02" N LONGITUDE: 94° 01' 14" W ELEVATION (FT): GRND: 16 BARO: 21 TIME ZONE: CENTRAL (UTC+ 6) WBAN: 12917

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	60.3	64.3	71.5	78.3	84.1	89.4	91.9	91.7	87.3	80.2	71.3	64.2	77.9
	MEAN DAILY MAXIMUM	51	61.4	64.9	71.3	77.9	84.4	89.8	91.7	91.7	88.0	80.7	70.9	64.1	78.1
	HIGHEST DAILY MAXIMUM	45	81	85	87	94	97	100	103	107	100	95	88	84	107
	YEAR OF OCCURRENCE		1989	1986	1974	1987	1977	1954	1980	1962	1980	1977	1989	1978	AUG 1962
	MEAN OF EXTREME MAXS.	51	76.6	78.5	82.4	86.4	91.2	95.0	96.6	96.9	94.4	89.7	83.6	78.5	87.5
	NORMAL DAILY MINIMUM	30	41.5	44.4	51.3	59.5	66.3	72.0	73.7	73.3	69.7	59.2	51.2	44.3	58.9
	MEAN DAILY MINIMUM	51	42.6	45.5	51.4	59.0	66.6	72.2	73.9	73.4	69.6	59.5	50.6	44.9	59.1
	LOWEST DAILY MINIMUM	45	14	20	23	32	46	56	61	60	45	30	22	12	12
	YEAR OF OCCURRENCE		1962	1981	1989	1987	1954	1984	1990	1989	1967	1993	1976	1989	DEC 1989
	MEAN OF EXTREME MINS.	51	24.9	28.9	33.8	43.3	54.4	63.8	69.2	68.1	56.8	43.3	33.2	27.1	45.6
	NORMAL DRY BULB	30	50.9	54.4	61.4	68.9	75.2	80.7	82.8	82.6	78.6	69.7	61.2	54.3	68.4
	MEAN DRY BULB	51	52.0	55.1	61.4	68.6	75.4	81.1	82.8	82.6	78.9	70.1	60.7	54.6	68.6
	MEAN WET BULB	15	48.7	52.1	57.2	62.8	70.8	75.3	77.1	71.0	72.5	65.0	57.3	47.8	63.1
	MEAN DEW POINT	15	44.8	48.0	53.2	59.0	68.4	73.1	75.0	69.0	69.8	61.7	53.5	44.5	60.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	2.7	17.1	24.1	23.5	12.7	1.7	0.0	0.0	82.1	
MAXIMUM ≤ 32°	30	0.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	
MINIMUM ≤ 32°	30	6.5	3.7	1.0	*	0.0	0.0	0.0	0.0	0.0	*	0.8	4.4	16.4	
MINIMUM ≤ 0°	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	450	307	155	32	0	0	0	0	0	26	177	352	1499
	NORMAL COOLING DEG. DAYS	30	13	10	43	149	316	471	552	546	408	172	63	21	2764
RH	NORMAL (PERCENT)	30	79	77	76	77	79	79	81	80	79	77	78	80	78
	HOUR 06 LST	30	85	84	86	87	90	91	92	92	90	88	87	86	88
	HOUR 12 LST	30	87	87	88	90	92	93	94	92	91	89	89	89	90
	HOUR 18 LST	30	68	63	62	62	64	64	65	65	64	58	62	67	64
	HOUR 24 LST	30	75	70	68	69	70	70	71	72	73	73	76	77	72
S	PERCENT POSSIBLE SUNSHINE	26	42	52	52	52	64	69	65	63	62	67	57	47	58
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	46	6.8	5.4	5.8	3.0	1.8	0.3	0.2	0.2	0.7	2.9	4.3	6.1	37.5
	THUNDERSTORMS	46	2.9	2.7	3.4	3.9	6.2	8.2	13.6	12.3	7.2	3.1	2.7	2.3	68.5
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1						4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1	3.0	1.0	9.0		9.0	8.0								
PARTLY CLOUDY	1			5.0		7.0	7.0								
CLOUDY	1	3.0	2.0	5.0		2.0	3.0								
PR	MEAN STATION PRESSURE (IN)	25	30.12	30.08	29.99	29.96	29.92	29.94	30.00	29.98	29.97	30.04	30.08	30.12	30.02
	MEAN SEA-LEVEL PRES. (IN)	15	30.15	30.10	30.04	29.98	29.96	29.96	30.02	30.00	29.99	30.05	30.10	30.15	30.04
WINDS	MEAN SPEED (MPH)	34	10.7	11.1	11.4	11.4	10.0	8.7	7.3	6.9	8.0	8.9	10.2	10.3	9.6
	PREVAIL. DIR (TENS OF DEGS)	19	36	36	18	16	18	18	19	18	04	36	36	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	31	39	37	32	32	31	39	32	38	36	32	36	39
	DIR. (TENS OF DEGS)		01	16	13	16	01	05	07	07	06	33	27	30	16
	YEAR OF OCCURRENCE		1996	1998	1998	1997	1996	1996	1997	1997	1997	1998	1996	1997	FEB 1998
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	3	41	49	45	41	40	37	49	46	49	41	40	44	49
DIR. (TENS OF DEGS)		01	16	03	15	01	09	07	06	07	32	27	30	16	
YEAR OF OCCURRENCE		1996	1998	1996	1997	1996	1996	1997	1998	1997	1998	1996	1997	FEB 1998	
PRECIPITATION	NORMAL (IN)	30	4.77	3.38	3.24	3.51	5.71	5.59	5.38	5.34	6.31	4.29	4.85	4.81	57.18
	MAXIMUM MONTHLY (IN)	45	14.87	11.76	9.35	15.30	13.18	18.90	18.71	17.26	21.96	15.09	10.84	17.98	21.96
	YEAR OF OCCURRENCE		1991	1959	1979	1973	1991	1989	1959	1966	1980	1970	1977	1982	SEP 1980
	MINIMUM MONTHLY (IN)	45	0.60	0.21	0.06	0.26	0.08	0.76	0.63	0.98	0.50	0.00	0.15	1.32	0.00
	YEAR OF OCCURRENCE		1971	1989	1955	1987	1998	1980	1956	1968	1953	1963	1967	1954	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	45	4.92	5.05	6.04	10.09	9.89	10.20	10.56	8.45	17.16	8.06	7.26	9.98	17.16
	YEAR OF OCCURRENCE		1961	1965	1979	1973	1989	1961	1979	1966	1980	1970	1961	1982	SEP 1980
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.9	8.5	8.0	6.1	7.5	7.9	11.1	12.2	10.1	5.9	7.8	9.0	104.0	
PRECIPITATION ≥ 1.00	30	1.2	1.0	1.0	1.0	1.7	2.0	1.6	1.5	1.7	1.4	1.7	1.5	17.3	
SNOWFALL	NORMAL (IN)	30	0.1	0.*	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.*	0.1
	MAXIMUM MONTHLY (IN)	43	3.0	4.4	1.4	T	T	0.0	T	0.0	0.0	0.0	T	0.7	4.4
	YEAR OF OCCURRENCE		1973	1960	1968	1995	1994		1990				1976	1989	FEB 1960
	MAXIMUM IN 24 HOURS (IN)	43	3.0	4.4	1.4	T	T	0.0	T	0.0	0.0	0.0	T	0.7	4.4
	YEAR OF OCCURRENCE		1973	1960	1968	1995	1994		1990				1976	1989	FEB 1960
	MAXIMUM SNOW DEPTH (IN)	48	2	20	0	0	0	0	0	0	0	0	0	0	20
	YEAR OF OCCURRENCE		1949	1958											FEB 1958
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	0.*	0.0	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

PRECIPITATION (inches) 1998 PORT ARTHUR, TX (BPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	1.19	4.14	3.67	5.38	5.69	2.08	10.14	3.06	1.50	1.74	1.52	8.33	48.44
1970	1.78	2.88	4.32	2.47	8.54	0.96	1.55	3.07	7.37	15.09	1.57	2.03	51.63
1971	0.60	4.31	1.15	1.76	3.47	1.86	4.31	10.56	5.07	2.16	2.64	7.53	45.42
1972	8.33	1.83	3.93	5.42	5.92	3.43	4.86	5.80	6.50	2.88	6.11	3.95	58.96
1973	4.76	3.00	7.24	15.30	5.47	5.80	8.72	7.16	11.44	5.11	2.01	2.90	78.91
1974	8.81	2.37	4.88	5.33	7.61	1.43	3.75	4.39	2.83	3.69	5.84	4.53	55.46
1975	5.46	1.60	1.75	3.77	5.30	4.97	7.56	6.86	2.80	4.68	3.26	3.60	51.61
1976	3.64	0.44	2.69	1.89	6.39	6.16	3.99	2.57	4.47	5.16	5.54	6.11	49.05
1977	4.93	1.06	2.23	4.79	3.41	3.37	2.11	7.20	2.87	4.06	10.84	2.01	48.88
1978	6.66	2.32	0.44	0.36	0.10	7.47	3.41	5.11	3.29	T	4.80	3.72	37.68
1979	5.41	4.21	9.35	7.35	4.39	3.96	15.68	4.07	9.45	6.62	3.20	2.51	76.20
1980	4.66	1.92	6.83	0.93	7.76	0.76	2.24	1.18	21.96	7.27	4.82	2.22	62.55
1981	3.33	3.26	2.09	3.16	2.78	9.14	10.75	1.63	2.72	5.68	2.16	3.85	50.55
1982	2.04	3.38	3.12	5.63	9.36	9.30	5.88	2.47	1.00	4.15	7.46	17.98	71.77
1983	5.78	3.97	4.57	0.51	11.39	8.10	6.53	14.35	11.89	0.33	4.24	6.49	78.15
1984	6.69	4.27	1.28	1.03	10.43	1.05	3.83	3.91	4.14	14.94	6.44	2.03	60.04
1985	3.44	6.85	4.74	1.13	5.15	3.17	6.91	11.25	7.39	11.60	3.85	2.74	68.22
1986	1.81	1.11	2.52	1.44	10.56	11.23	2.25	3.97	3.41	7.37	9.08	9.59	64.34
1987	8.05	7.68	0.94	0.26	4.44	12.31	3.39	3.86	11.49	0.27	6.74	6.14	65.57
1988	3.23	5.05	5.54	2.64	0.61	4.63	3.84	5.54	10.32	1.70	1.12	5.80	50.02
1989	6.76	0.21	3.40	2.75	12.69	18.90	7.74	5.03	1.20	1.17	3.14	3.21	66.20
1990	8.50	7.69	6.53	4.22	8.62	4.21	6.18	1.67	5.30	4.37	5.54	3.82	66.65
1991	14.87	4.56	2.44	6.78	13.18	7.27	3.11	3.04	7.14	3.61	3.96	11.59	81.55
1992	11.04	6.51	3.80	5.78	1.39	10.66	5.37	2.26	2.07	2.96	6.89	6.45	65.18
1993	9.92	4.09	5.56	6.38	4.62	9.32	5.41	6.19	2.39	5.99	5.31	1.94	67.12
1994	6.86	1.36	3.85	4.22	9.94	8.62	6.08	4.64	5.37	11.97	0.51	6.86	70.28
1995	4.08	3.56	5.29	4.12	4.54	9.26	6.65	4.96	0.66	5.65	4.77	11.15	64.69
1996	2.45	1.28	0.45	2.08	1.04	10.25	2.22	6.34	10.80	4.43	4.82	3.26	49.42
1997	4.90	5.73	4.39	4.92	2.36	3.60	7.67	2.01	5.43	1.95	2.85	6.62	52.43
1998	8.84	5.03	5.19	1.95	0.08	4.50	1.56	6.70	13.18	5.34	2.91	2.79	58.07
POR= 84 YRS	4.83	3.77	3.30	3.69	4.93	5.17	5.90	5.19	5.36	3.71	4.08	5.07	55.00

WBAN : 12917

AVERAGE TEMPERATURE (°F) 1998 PORT ARTHUR, TX (BPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	54.6	54.6	54.7	69.2	74.9	81.0	84.9	83.1	78.4	72.0	59.7	55.9	68.6
1970	47.5	54.4	59.7	71.5	74.7	80.9	84.7	85.5	82.0	70.1	59.3	62.1	69.4
1971	57.5	56.6	60.7	69.0	75.2	81.9	81.7	79.3	77.8	71.8	59.3	59.8	69.2
1972	55.3	55.3	63.0	69.6	73.3	80.2	79.3	80.2	79.4	69.6	54.0	52.5	67.6
1973	47.5	51.0	63.5	63.7	72.6	79.4	81.7	79.6	78.9	72.1	66.5	52.4	67.4
1974	56.4	55.1	66.2	68.6	76.5	78.9	81.7	81.1	74.9	68.7	59.0	53.0	68.3
1975	56.2	55.2	60.9	66.9	75.9	79.9	81.4	81.2	75.9	70.3	60.2	52.0	68.0
1976	49.8	59.9	62.8	68.7	72.1	78.7	81.2	81.2	78.3	61.9	52.5	50.6	66.5
1977	44.5	55.3	63.2	68.4	77.4	83.6	85.0	84.9	83.1	71.8	63.8	55.3	69.7
1978	43.8	47.2	59.8	70.2	79.0	83.3	85.1	85.3	81.8	72.0	67.4	56.8	69.3
1979	45.8	52.5	62.5	69.5	72.9	80.3	81.8	81.7	76.5	70.6	56.4	52.8	66.9
1980	55.2	52.7	61.4	65.6	76.4	82.9	85.1	84.2	82.6	67.5	57.8	54.4	68.8
1981	50.3	53.8	61.2	72.9	73.7	82.0	83.2	82.7	76.9	71.0	63.4	55.1	68.9
1982	52.8	52.4	65.0	68.0	75.6	81.6	82.7	82.7	78.6	70.0	61.8	57.6	69.1
1983	50.4	54.0	58.9	63.8	73.3	79.1	82.4	82.4	76.7	70.3	63.7	48.7	67.0
1984	48.7	56.0	62.2	68.6	74.7	79.7	81.2	81.7	77.0	74.8	60.8	63.7	69.1
1985	48.1	53.1	67.0	72.1	76.2	81.0	81.7	83.3	78.7	72.4	66.6	50.8	69.3
1986	53.5	59.3	62.2	70.7	75.4	81.3	84.5	82.4	82.2	69.4	63.6	51.5	69.7
1987	50.3	56.2	59.5	66.7	76.6	80.6	83.3	84.2	78.1	67.2	60.3	56.9	68.3
1988	48.4	53.8	60.9	67.9	73.8	79.9	83.5	84.4	79.2	69.1	63.9	54.4	68.3
1989	57.4	52.6	60.0	67.3	76.7	79.6	82.5	81.8	77.7	70.6	63.1	45.8	67.9
1990	57.5	60.4	63.4	68.9	77.2	83.5	82.8	83.8	80.6	68.3	63.2	55.3	70.4
1991	51.1	57.8	63.7	72.2	77.8	81.6	83.7	82.5	78.1	73.0	56.9	57.4	69.7
1992	51.6	58.3	63.3	67.9	73.7	81.0	82.8	80.7	79.4	70.9	56.4	57.3	68.6
1993	54.3	56.3	60.9	66.0	74.1	81.7	84.3	85.0	80.8	70.0	58.1	55.5	68.9
1994	52.3	56.4	63.0	70.2	75.8	83.0	83.5	82.1	77.4	71.5	65.4	56.8	69.8
1995	53.4	58.4	62.6	68.2	76.9	80.3	83.0	83.7	79.9	69.4	60.8	55.2	69.3
1996	52.1	55.8	56.8	66.4	77.5	80.2	83.2	81.1	77.8	70.4	62.4	57.4	68.4
1997	51.4	55.8	65.6	64.6	74.1	79.8	83.8	82.9	80.0	69.8	57.6	51.6	68.1
1998	57.5	55.8	60.1	66.4	77.5	83.7	84.0	83.9	82.2	73.0	64.5	56.1	70.4
POR= 81 YRS	52.4	55.6	61.5	68.6	75.3	81.0	81.8	82.7	78.9	70.7	60.8	54.7	68.7

HEATING DEGREE DAYS (base 65°F) 1998 PORT ARTHUR, TX (BPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	0	0	22	212	281	545	293	180	22	3	0	1558
1970-71	0	0	0	28	213	168	269	254	167	43	0	0	1142
1971-72	0	0	0	6	208	199	317	291	109	20	0	0	1150
1972-73	0	0	0	57	340	390	532	389	77	118	2	0	1905
1973-74	0	0	0	13	83	384	288	288	85	36	0	0	1177
1974-75	0	0	0	20	230	384	297	276	180	67	0	0	1454
1975-76	0	0	0	16	209	413	464	170	128	16	0	0	1416
1976-77	0	0	0	149	375	439	626	268	110	16	0	0	1983
1977-78	0	0	0	16	112	321	662	497	184	14	0	0	1806
1978-79	0	0	0	4	75	296	591	360	125	12	0	0	1463
1979-80	0	0	0	23	278	382	306	377	151	44	0	0	1561
1980-81	0	0	0	70	248	339	448	315	140	3	3	0	1566
1981-82	0	0	3	59	94	315	402	357	124	59	0	0	1413
1982-83	0	0	0	43	154	266	446	301	203	91	1	0	1505
1983-84	0	0	1	27	122	524	500	265	129	31	1	0	1600
1984-85	0	0	5	8	176	125	514	342	34	6	0	0	1210
1985-86	0	0	3	14	78	438	354	196	120	10	0	0	1213
1986-87	0	0	0	26	140	415	451	241	182	77	0	0	1532
1987-88	0	0	0	29	182	267	510	329	171	29	0	0	1517
1988-89	0	0	0	10	135	328	255	371	216	60	0	0	1375
1989-90	0	0	0	45	149	592	245	151	108	26	0	0	1316
1990-91	0	0	0	67	121	338	422	208	113	9	0	0	1278
1991-92	0	0	0	6	287	265	409	198	93	34	7	0	1299
1992-93	0	0	0	2	273	251	328	238	152	55	0	0	1299
1993-94	0	0	0	58	240	312	397	260	128	36	0	0	1431
1994-95	0	0	0	20	83	263	362	196	145	25	0	0	1094
1995-96	0	0	0	21	167	348	401	302	274	72	2	0	1587
1996-97	0	0	0	24	141	265	435	269	65	61	0	0	1260
1997-98	0	0	0	54	227	411	241	253	199	36	0	0	1421
1998-	0	0	0	9	78	327							

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COOLING DEGREE DAYS (base 65°F) 1998 PORT ARTHUR, TX (BPT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	17	4	5	139	316	484	621	569	408	247	60	6	2876
1970	13	2	23	225	309	484	617	644	518	194	49	85	3163
1971	42	24	42	167	325	517	527	451	388	223	42	43	2791
1972	21	18	52	164	262	461	449	479	440	209	17	9	2581
1973	0	2	38	84	244	440	524	459	426	242	137	6	2602
1974	27	15	130	153	362	423	524	505	305	143	58	20	2665
1975	28	9	61	130	344	454	516	508	335	186	71	18	2660
1976	2	29	66	133	226	418	512	512	404	61	8	0	2371
1977	0	4	62	125	391	562	627	621	551	235	82	28	3288
1978	11	8	29	177	439	555	627	635	510	227	154	49	3421
1979	4	17	54	156	250	464	529	523	352	203	27	11	2590
1980	8	27	47	69	359	546	633	603	534	152	37	15	3030
1981	0	8	28	245	278	515	570	557	367	250	53	14	2885
1982	27	9	129	155	335	504	555	554	416	205	67	46	3002
1983	0	0	20	64	264	429	547	546	361	200	88	21	2540
1984	0	9	50	147	309	449	508	524	369	317	56	94	2832
1985	0	13	104	228	354	489	527	573	422	253	134	5	3102
1986	1	44	39	185	331	495	611	546	522	169	104	4	3051
1987	2	2	16	136	367	476	574	604	402	105	48	22	2754
1988	4	11	49	121	283	452	581	606	432	148	108	6	2801
1989	28	32	69	137	370	444	548	531	387	226	99	5	2876
1990	19	29	68	151	384	563	559	591	471	173	74	42	3124
1991	0	9	77	233	406	504	584	548	401	260	49	38	3109
1992	0	9	49	126	284	486	558	495	439	188	23	17	2674
1993	3	2	32	90	290	506	605	627	482	221	38	26	2922
1994	12	25	71	199	342	549	579	535	379	230	103	18	3042
1995	9	19	78	127	377	462	565	586	453	162	48	49	2935
1996	3	41	29	122	398	459	570	507	387	199	69	36	2820
1997	22	19	90	57	293	449	593	567	455	211	14	3	2773
1998	16	1	56	85	393	568	597	595	523	262	72	59	3227

SNOWFALL (inches) 1998 PORT ARTHUR, TX (BPT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1971-72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1972-73	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.4	0.0	0.0	0.0	0.0	3.4
1973-74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1974-75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1975-76	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1976-77	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T
1977-78	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1978-79	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1979-80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.2
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1983-84	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	0.4	T	0.0	0.0	0.0	0.0	0.4
1985-86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2
1988-89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1989-90	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1990-91	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1993-94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	T
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1996-97													
1997-98													
1998-													
POR= 42 YRS	T	0.0	0.0	0.0	T	0.0	0.1	0.2	0.0	T	T	0.0	0.3

WBAN : 12917

REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1998
PORT ARTHUR,
TEXAS (BPT)

Port Arthur is located on the flat Coastal Plain in the extreme southeast corner of Texas. The climate is a mixture of tropical and temperate zone conditions.

Sea breezes prevent extremely high temperatures in the summer, except on rare occasions. The area lies far enough south so that cold air masses modify in severity but still provide freezing temperatures up to six times a year.

High humidity is the result of fairly evenly distributed high normal rainfall and prevailing southerly winds from the Gulf of Mexico.

Cloudy, rainy weather is most common in the winter. Only slightly more than half the winters record even a trace of sleet or snow. Heavy rainfall in summer occurs in short duration thunderstorms and in infrequent tropical storms.

Slow moving systems in the spring and fall often result in three to five days of stormy weather and heavy rain. The lightest precipitation usually occurs in March and October. Funnel clouds and waterspouts are common near the coast. The area enjoys approximately 60 percent of possible sunshine.

Fog, most frequent in midwinter and early spring, is rare in summer. It usually dissipates before noon, but occasionally under stagnant conditions lasts a day or two. Along the immediate coast, fog usually does not form until daybreak, but inland it may form before midnight.

The average wind movement is near 11 mph. Except for severe storms and tropical disturbances, wind seldom exceeds 45 mph. It exceeds 30 mph on only about 40 days in any one year.

The climate is favorable for outdoor activities throughout the year. The abundant rainfall, moderate temperatures, and the short period of temperatures below freezing are particularly favorable for farming and livestock production. Heaviest rain usually falls in the summer when needed for rice. The comparatively dry harvest season simplifies the gathering of rice and feed crops. Cattle on the open range of the coastal marshes need little supplemental feeding or protection. Improved pastures are easily provided because of the moderate temperatures and abundant rainfall.

STATION LOCATION

PORT ARTHUR, TEXAS

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUCOMPAHCHG	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND												
							G	W	E	P	S	T	R	W	8				H
CITY																			
Griffing Brothers Nursery, Twin City Hiway & Ias Palmas	3/1911	9/1913	NA																
738 Fifth Street	6/1914	1/31/17	3 mi. S	29°52'	93°56'	5											Change of observer.		
501 Fifth Street, Post Office & Custom House	2/1/17	11/12/36	900 ft. SW	29°52'	93°56'	5	67	60	59			52					First Order station established.		
500 Fifth Street Adams Building	11/12/36	11/5/37	100 ft. SE	29°52'	93°56'	5	106	99	98			91					Remodeling of Post Office & Custom House Building.		
501 Fifth Street, Post Office & Custom House	11/5/37	3/1/53	100 ft. NW	29°52'	93°56'	5	134	60	59			52							
AIRPORT																			
Beaumont Municipal AP 6 miles W of Beaumont	5/29/40	3/8/44	NA	30°05'	94°13'	32	38	5	4										
Jefferson County AP 7.5 mi. NW Port Arthur	3/8/44	5/27/53	15 mi. SE	29°57'	94°01'	16	38	6	5			a30					a - Added 3/1/53.		
Terminal Building Jefferson County AP	5/27/53	7/15/82	100 ft. NW	29°57'	94°01'	16	57 c20 133	29 g	27 f18	Unk e50 h26 k	25 b3	NA m3	25 b3	d6 j6	NA		b - Moved to field site 7/17/54. c - Effective 1/1/61. d - Commissioned 1200' SE of thermometer site 1/1/61. e - Effective 3/12/62. f - Effective 5/18/64. g - Effective 5/18/64. h - Removed 5/31/64. i - Effective 11/18/76. j - Moved 50' S 1/9/79. k - Moved 50' S 1/18/79. l - Removed 2/20/80. Equipment transferred to Lake Charles, Louisiana. m - Added 9/1/80.		
Hangar Number 1 Jefferson County AP	7/15/82	Present	660 ft. N	29°57'	94°01'	16	n33	NA	18	NA	3	3	3	n6 p6	NA		n - Not relocated 7/15/82. p - Type change 6/14/85. S ASOS Commissioned 07/01/95		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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