

1999

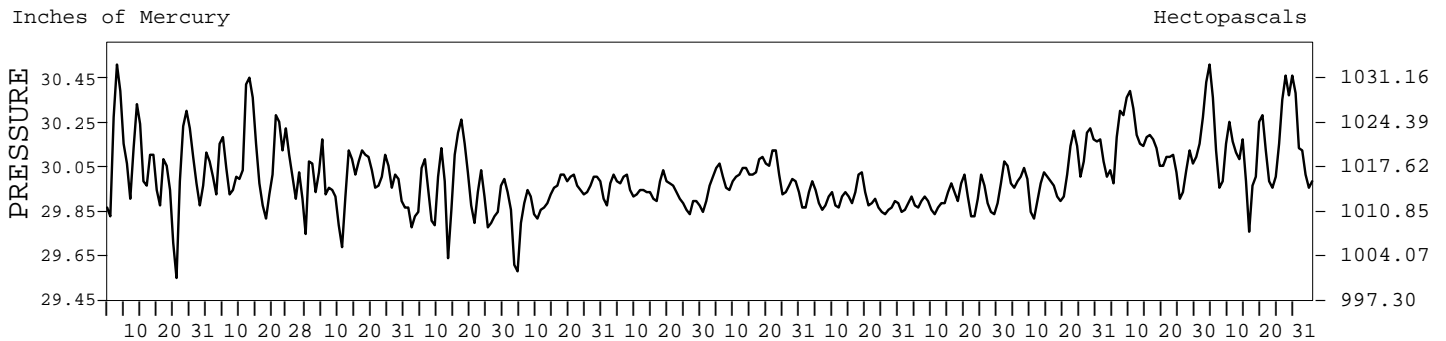
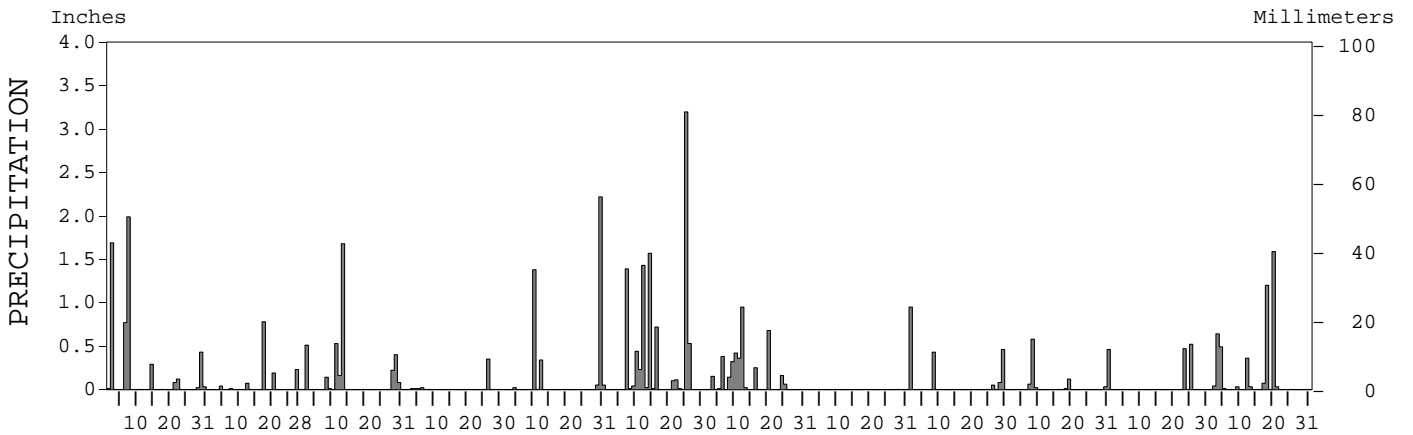
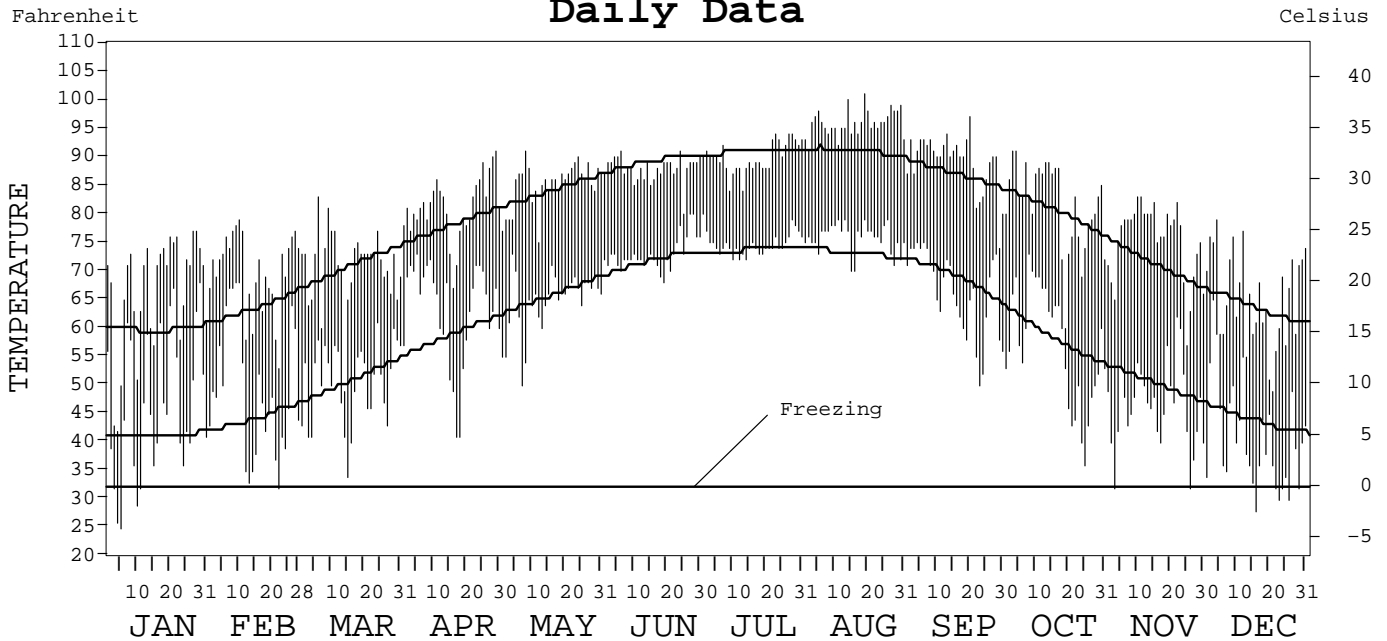
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-229X

LAKE CHARLES,  
LOUISIANA (LCH)

Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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# METEOROLOGICAL DATA FOR 1999

## LAKE CHARLES, LA (LCH)

LATITUDE: 30° 07' 29" N      LONGITUDE: 93° 13' 42" W      ELEVATION (FT): GRND: 11      BARO: 11      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 03937

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	66.5	69.9	70.9	81.2	85.1	87.9	89.9	95.9	89.1	81.6	75.2	65.4	79.9	
	HIGHEST DAILY MAXIMUM	77	79	83	91	91	91	94	101	97	91	83	79	101	
	DATE OF OCCURRENCE	28+	10	06	29	08	24+	28+	19	20	04+	11+	04	AUG 19	
	MEAN DAILY MINIMUM	46.4	49.0	50.5	63.0	64.6	72.9	74.7	75.8	66.2	56.8	46.4	40.6	58.9	
	LOWEST DAILY MINIMUM	25	32	34	41	50	68	72	70	50	36	32	28	25	
	DATE OF OCCURRENCE	05	22	15	18+	07	19+	14+	16+	23	25	26+	16	JAN 05	
	AVERAGE DRY BULB	56.5	59.5	60.7	72.1	74.9	80.4	82.3	85.9	77.7	69.2	60.8	53.0	69.4	
	MEAN WET BULB	53.7	55.8	57.8	66.9	69.7	75.7	76.7	77.5	69.0	62.1	54.7	49.6	64.1	
	MEAN DEW POINT	50.8	51.9	55.0	63.3	66.8	73.9	75.0	74.5	64.6	57.7	50.3	45.9	60.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	2	2	5	16	31	20	2	0	0	0	78
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MINIMUM ≤ 32°	5	1	0	0	0	0	0	0	0	0	2	6	14	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	286	194	141	25	0	0	0	0	48	141	374	1209		
	COOLING DEGREE DAYS	29	45	18	242	314	471	544	654	386	186	23	10	2922	
RH	MEAN (PERCENT)	83	80	82	78	78	84	83	75	71	74	75	80	79	
	HOUR 00 LST	91	91	93	88	92	95	94	91	86	90	90	91	91	
	HOUR 06 LST	92	93	94	93	93	96	95	93	89	90	94	93	93	
	HOUR 12 LST	69	63	66	60	62	69	67	53	49	50	49	62	60	
	HOUR 18 LST	79	72	74	71	69	77	75	65	60	66	67	78	71	
S	PERCENT POSSIBLE SUNSHINE	90	91	88	92	91	91	94	96	96	93	89			
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	3	10	3	1	3	1	0	1	8	11	6	54	
	THUNDERSTORMS	4	2	3	2	8	12	17	9	7	1	0	2	67	
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.)	30.06	30.08	29.99	29.94	29.92	29.94	30.01	29.91	29.92	30.03	30.17	30.14	30.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.14	30.05	29.99	29.97	30.00	30.06	29.96	29.97	30.09	30.20	30.17	30.06	
WINDS	RESULTANT SPEED (MPH)	2.5	1.3	3.2	1.6	0.8	3.0	0.5	0.3	2.6	3.0	1.7	1.2	1.3	
	RES. DIR. (TENS OF DEGS.)	17	15	10	15	14	16	18	17	06	06	06	07	11	
	MEAN SPEED (MPH)	9.2	7.9	8.7	9.3	6.9	6.2	4.5	4.2	5.3	6.2	5.7	8.0	6.8	
	PREVAIL. DIR. (TENS OF DEGS.)	18	17	15	17	17	20	14	07	04	05	04	13	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	30	28	29	30	35	35	24	29	28	25	25	25	35	
	DIR. (TENS OF DEGS.)	16	01	16	15	32	13	15	01	01	16	01	20	13	
	DATE OF OCCURRENCE	22	12	08	03	30	06	16	27	08	07	02	12	JUN 06	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	44	36	37	39	46	39	32	36	36	31	33	35	46	
DIR. (TENS OF DEGS.)	18	34	15	15	32	13	28	01	16	04	02	17	32		
DATE OF OCCURRENCE	21	12	08	03	30	06	12	27	28+	20	02	04	MAY 30		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.43	1.32	3.73	0.40	4.06	9.81	3.90	T	1.97	1.28	0.99	4.49	37.38	
	GREATEST 24-HOUR (IN.)	2.74	0.78	1.73	0.35	2.23	3.72	0.95	T	0.95	0.61	0.52	1.62	3.72	
	DATE OF OCCURRENCE	06-07	17	12-13	26	30-31	25-26	12	31+	01	07-08	25	20-21	JUN 25-26	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	6	9	5	6	15	13	0	5	7	2	11	89	
PRECIPITATION ≥ 0.10	6	3	7	1	3	10	10	0	3	3	2	5	53		
PRECIPITATION ≥ 1.00	2	0	1	0	2	4	0	0	0	0	0	2	11		
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

## LAKE CHARLES, LA (LCH)

LATITUDE: 30° 07' 29" N      LONGITUDE: 93° 13' 42" W      ELEVATION (FT): GRND: 11      BARO: 11      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 03937

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	59.7	63.4	70.7	77.9	84.0	89.0	90.8	90.8	86.8	80.2	70.8	63.3	77.3
	MEAN DAILY MAXIMUM	38	60.2	63.8	70.6	77.9	84.1	88.9	91.1	91.0	87.6	80.4	70.8	63.5	77.5
	HIGHEST DAILY MAXIMUM	35	82	83	86	95	96	99	102	101	100	94	87	82	102
	YEAR OF OCCURRENCE		1989	1972	1974	1987	1998	1990	1980	1999	1995	1998	1989	1978	JUL 1980
	MEAN OF EXTREME MAXS.	38	75.6	77.2	81.2	86.0	90.9	94.2	95.8	96.2	93.8	89.4	83.4	77.9	86.8
	NORMAL DAILY MINIMUM	30	41.1	44.0	50.7	58.7	65.7	71.6	73.6	73.0	68.6	57.9	50.0	43.6	58.2
	MEAN DAILY MINIMUM	38	41.7	44.4	50.9	58.7	66.1	72.0	74.0	73.3	68.8	58.4	49.9	44.2	58.5
	LOWEST DAILY MINIMUM	35	15	17	25	34	49	56	61	59	47	30	23	11	11
	YEAR OF OCCURRENCE		1985	1996	1989	1971	1996	1984	1967	1993	1967	1993	1976	1989	DEC 1989
	MEAN OF EXTREME MINS.	38	25.2	28.9	34.2	43.1	54.2	63.6	69.4	67.5	55.8	42.4	33.8	27.7	45.5
	NORMAL DRY BULB	30	50.4	53.7	60.7	68.3	74.9	80.3	82.2	81.9	77.7	69.1	60.4	53.5	67.8
	MEAN DRY BULB	38	51.0	54.0	60.8	68.2	75.1	80.5	82.5	82.3	78.2	69.5	60.4	53.9	68.0
	MEAN WET BULB	16	48.3	51.6	56.8	62.6	70.2	75.2	77.0	76.4	71.8	63.9	56.5	47.6	63.2
	MEAN DEW POINT	16	44.3	47.6	52.8	58.6	67.5	68.4	75.0	74.1	69.0	60.4	52.9	44.2	59.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.2	2.2	13.8	22.4	22.1	10.5	1.0	0.0	0.0	72.2	
MAXIMUM ≤ 32°	30	0.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	
MINIMUM ≤ 32°	30	6.3	3.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	*	0.8	4.1	15.1	
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	467	328	178	40	0	0	0	0	0	35	193	375	1616
	NORMAL COOLING DEG. DAYS	30	15	12	45	139	307	459	533	524	381	162	55	18	2650
RH	NORMAL (PERCENT)	30	79	76	76	76	77	78	80	80	79	76	77	79	78
	HOUR 00 LST	30	85	85	86	88	90	90	92	92	90	89	87	86	88
	HOUR 06 LST	30	87	87	89	90	92	93	94	94	93	91	89	88	91
	HOUR 12 LST	30	68	63	62	60	61	62	64	63	62	55	60	66	62
	HOUR 18 LST	30	75	70	68	66	67	68	71	72	73	71	75	76	71
S	PERCENT POSSIBLE SUNSHINE	18	61	65	73	75	75	82	83	81	78	75	67	58	73
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	38	7.8	5.7	6.6	3.5	2.2	0.8	0.5	0.6	2.2	5.8	5.8	6.8	48.3
	THUNDERSTORMS	38	3.6	2.8	4.1	4.5	7.2	10.2	14.0	13.0	7.9	2.9	2.8	2.8	75.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1					4.0								
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1	1.0	1.0	7.0		11.0	7.0								
PARTLY CLOUDY	1		1.0	5.0		6.0	8.0								
CLOUDY	1	1.0	1.0	3.0		1.0	3.0								
PR	MEAN STATION PRESSURE (IN)	27	30.10	30.09	30.00	30.00	29.90	29.90	30.00	30.00	30.00	30.00	30.10	30.11	30.02
	MEAN SEA-LEVEL PRES. (IN)	16	30.15	30.10	30.05	30.00	29.97	30.01	30.03	30.00	30.00	30.05	30.12	30.16	30.05
WINDS	MEAN SPEED (MPH)	27	9.9	10.1	10.0	9.8	8.4	7.5	6.4	6.0	7.0	7.8	8.9	9.4	8.4
	PREVAIL. DIR (TENS OF DEGS)	25	36	36	18	18	18	18	20	06	05	05	36	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	31	36	38	43	39	35	36	34	37	33	30	31	43
	DIR. (TENS OF DEGS)		10	16	33	03	33	13	33	02	04	15	13	03	03
	YEAR OF OCCURRENCE		1998	1998	1996	1997	1997	1999	1996	1997	1997	1998	1996	1998	APR 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	44	48	46	54	48	39	45	44	43	39	40	37	54	
DIR. (TENS OF DEGS)		18	20	32	02	33	13	32	02	04	15	32	03	02	
YEAR OF OCCURRENCE		1999	1997	1996	1997	1997	1999	1996	1997	1997	1998	1998	1998	APR 1997	
PRECIPITATION	NORMAL (IN)	30	4.52	3.59	3.29	3.33	5.67	4.96	5.20	5.33	5.69	3.95	4.26	5.05	54.84
	MAXIMUM MONTHLY (IN)	38	14.29	7.46	9.01	10.95	20.71	25.33	13.19	17.36	19.96	17.28	8.26	13.27	25.33
	YEAR OF OCCURRENCE		1991	1997	1980	1973	1980	1989	1979	1962	1973	1970	1986	1967	JUN 1989
	MINIMUM MONTHLY (IN)	38	0.78	0.62	0.27	0.40	0.04	0.84	0.48	0.77	0.43	T	0.11	2.07	T
	YEAR OF OCCURRENCE		1971	1989	1971	1999	1998	1969	1962	1999	1989	1963	1967	1975	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	38	5.80	3.40	4.91	5.50	16.88	7.09	6.59	14.10	11.20	7.50	4.02	6.88	16.88
	YEAR OF OCCURRENCE		1991	1997	1973	1973	1980	1981	1987	1962	1979	1996	1993	1971	MAY 1980
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.3	8.2	7.9	6.4	7.5	8.5	10.7	10.6	9.5	6.1	7.7	9.3	101.7	
PRECIPITATION ≥ 1.00	30	1.3	1.1	1.1	0.9	1.5	1.8	1.6	1.3	1.7	1.3	1.2	1.5	16.3	
SNOWFALL	NORMAL (IN)	30	0.2	0.1	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.*	0.3	
	MAXIMUM MONTHLY (IN)	34	4.0	1.6	T	T	T	0.0	T	0.0	0.0	T	0.2	4.0	
	YEAR OF OCCURRENCE		1973	1988	1968	1993	1992		1994			1976	1989	JAN 1973	
	MAXIMUM IN 24 HOURS (IN)	34	4.0	1.6	T	T	T	0.0	T	0.0	0.0	T	0.2	4.0	
	YEAR OF OCCURRENCE		1973	1988	1968	1993	1992		1994			1976	1989	JAN 1973	
	MAXIMUM SNOW DEPTH (IN)	34	4	0	0	0	0	0	0	0	0	0	0	4	
	YEAR OF OCCURRENCE		1973												JAN 1973
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	0.1	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	

PRECIPITATION (inches) 1999 LAKE CHARLES, LA (LCH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	2.16	2.68	5.25	1.81	7.11	4.28	0.97	3.56	4.13	17.28	1.87	4.10	55.20
1971	0.78	3.45	0.27	0.93	5.78	2.23	4.45	6.31	5.38	2.64	1.64	9.90	43.76
1972	7.73	2.24	2.23	1.58	4.53	0.93	7.75	6.64	5.82	6.44	4.30	5.47	55.66
1973	4.14	2.94	7.40	10.95	7.48	3.98	2.96	3.29	19.96	4.12	3.01	4.80	75.03
1974	12.69	3.89	3.37	2.95	11.01	2.89	1.28	5.54	3.60	4.15	7.30	7.77	66.44
1975	6.06	1.08	2.41	7.22	7.04	5.43	6.96	5.15	5.37	2.50	4.22	2.07	55.51
1976	2.06	1.52	2.53	1.22	2.43	7.50	2.72	0.77	3.26	4.51	5.16	6.72	40.40
1977	4.88	1.52	2.67	6.17	1.51	6.16	3.20	11.52	3.95	5.62	6.98	3.19	57.37
1978	6.63	2.10	1.48	0.52	0.34	6.00	5.04	7.22	6.04	0.18	4.14	2.37	42.06
1979	4.82	6.47	6.00	6.32	7.35	2.60	13.19	3.81	14.10	3.17	4.74	3.22	75.79
1980	5.43	2.21	9.01	1.59	20.71	1.30	8.24	1.55	5.76	3.78	3.27	2.33	65.18
1981	2.06	3.13	1.70	1.26	5.88	14.42	7.65	3.51	2.56	3.72	1.50	2.53	49.92
1982	2.12	2.39	2.73	4.04	5.61	4.90	3.03	7.13	8.51	3.00	6.41	10.76	60.63
1983	5.85	4.36	2.63	1.73	10.19	4.13	1.87	8.74	8.64	0.23	3.56	3.03	54.96
1984	4.54	5.42	1.89	1.86	8.24	3.84	5.36	4.86	6.81	12.22	2.80	4.09	61.93
1985	3.41	6.78	3.56	1.25	3.74	1.48	4.22	6.81	2.09	12.75	3.00	3.75	52.84
1986	2.72	0.93	1.91	2.80	6.02	5.84	4.14	4.96	6.22	5.01	8.26	9.84	58.65
1987	6.76	5.75	4.49	0.47	3.44	10.95	9.15	3.10	3.80	3.13	6.58	4.92	62.54
1988	2.75	5.52	6.30	3.32	2.95	5.66	6.02	7.66	7.76	2.37	4.02	4.80	59.13
1989	4.58	0.62	4.98	2.24	7.56	25.33	5.26	2.72	0.43	0.75	3.94	2.15	60.56
1990	8.91	5.13	5.31	3.55	3.79	3.83	3.51	0.94	9.55	1.48	3.64	4.04	53.68
1991	14.29	2.61	2.35	6.66	14.76	7.65	2.30	7.36	3.65	3.37	3.16	2.16	70.32
1992	11.08	3.87	4.10	7.16	2.68	8.19	6.07	2.46	3.56	2.26	7.42	3.84	62.69
1993	6.83	4.26	4.69	8.19	6.62	9.85	1.69	2.71	1.27	3.83	6.90	2.49	59.33
1994	3.81	1.50	1.95	3.00	2.96	4.01	6.78	4.95	3.46	3.16	1.60	6.97	44.15
1995	5.29	2.45	6.36	4.04	6.40	3.83	9.81	5.96	4.75	3.01	7.01	6.45	65.36
1996	2.48	1.65	0.80	1.93	1.92	7.22	5.49	9.44	7.38	9.57	3.36	2.55	53.79
1997	5.93	7.46	3.43	8.04	8.19	1.90	5.15	5.35	7.22	2.79	4.52	5.72	65.70
1998	10.01	5.13	3.75	2.44	0.04	5.05	1.93	3.70	12.58	5.41	2.92	3.62	56.58
1999	5.43	1.32	3.73	0.40	4.06	9.81	3.90	T	1.97	1.28	0.99	4.49	37.38
POR= 61 YRS	4.74	3.93	3.65	4.11	5.38	5.55	5.78	4.98	4.96	3.58	4.21	5.12	55.99

WBAN : 03937

AVERAGE TEMPERATURE (°F) 1999 LAKE CHARLES, LA (LCH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	46.1	52.2	56.9	70.5	74.1	80.2	82.2	83.7	80.2	68.1	56.7	59.6	67.5
1971	55.6	55.6	59.1	66.5	74.3	82.1	83.0	81.7	80.1	74.8	60.2	61.8	69.6
1972	55.8	56.3	63.1	69.8	74.1	81.3	80.3	80.9	79.6	69.0	54.7	53.0	68.2
1973	48.8	51.5	64.4	64.5	72.7	79.9	82.7	79.6	78.7	72.6	66.7	52.4	67.9
1974	58.0	55.6	66.3	68.2	76.0	78.7	82.0	80.8	75.2	68.9	59.9	54.5	68.7
1975	56.7	56.9	61.1	66.6	75.8	79.8	81.4	80.9	75.1	69.4	60.3	51.8	68.0
1976	49.9	59.9	63.1	68.8	72.3	78.1	80.6	81.0	77.5	61.9	52.3	51.3	66.4
1977	43.1	54.2	62.1	68.3	76.0	81.3	82.1	81.3	80.0	69.0	61.8	53.3	67.7
1978	42.9	45.6	57.8	68.2	76.8	80.8	82.9	81.8	78.4	68.7	64.4	53.5	66.8
1979	44.4	50.3	61.0	68.8	72.8	79.6	81.6	81.3	76.0	69.8	55.9	51.9	66.1
1980	54.1	52.2	59.5	65.0	75.7	81.6	84.4	82.7	80.9	65.6	56.0	52.2	67.5
1981	47.8	52.5	59.3	71.6	73.2	81.2	82.5	82.0	76.5	69.7	61.9	52.7	67.6
1982	52.3	51.7	63.5	66.4	74.2	80.4	82.0	82.0	76.4	69.0	61.6	57.2	68.1
1983	49.3	52.6	57.8	63.5	73.4	78.5	83.5	83.5	76.9	70.3	62.5	48.2	66.7
1984	48.1	56.0	62.5	69.7	75.6	79.5	80.9	80.9	75.9	73.7	58.1	62.5	68.6
1985	45.1	49.9	64.7	69.9	75.4	81.1	81.9	83.2	77.5	71.9	66.2	49.4	68.0
1986	51.9	57.5	60.0	68.6	75.5	81.5	84.1	82.0	81.7	69.3	63.8	51.4	68.9
1987	49.3	55.3	58.7	66.1	76.6	80.3	82.6	84.4	78.0	66.2	60.4	57.1	67.9
1988	47.5	53.1	60.3	68.1	73.7	79.2	82.2	83.2	78.9	68.2	64.1	55.0	67.8
1989	57.7	53.1	61.1	67.2	77.3	80.0	82.3	82.4	77.1	69.4	62.1	45.0	67.9
1990	56.0	59.3	61.5	66.8	75.2	82.3	81.3	82.7	78.7	67.1	61.7	55.0	69.0
1991	50.3	56.7	62.0	70.5	76.3	80.5	82.5	81.0	77.3	71.4	55.6	57.0	68.4
1992	51.3	58.6	63.2	68.0	73.9	81.6	83.0	79.7	78.4	69.8	56.2	56.8	68.4
1993	53.5	54.7	59.5	64.8	73.4	80.5	83.3	84.2	79.6	68.9	57.2	53.7	67.8
1994	50.6	55.3	61.6	69.3	74.8	82.4	83.0	82.4	78.2	71.5	65.3	56.9	69.3
1995	53.6	57.9	63.2	69.3	77.8	81.2	84.8	85.7	81.0	70.5	61.1	55.0	70.1
1996	51.4	54.5	56.6	65.8	77.1	80.0	83.1	81.1	77.4	69.4	61.0	56.5	67.8
1997	51.2	55.3	65.3	63.7	74.1	80.5	83.6	82.5	79.5	69.2	57.3	50.9	67.8
1998	56.3	54.8	59.6	66.2	77.8	83.3	84.9	84.5	82.1	72.1	64.1	56.0	70.1
1999	56.5	59.5	60.7	72.1	74.9	80.4	82.3	85.9	77.7	69.2	60.8	53.0	69.4
POR= 61 YRS	51.5	54.6	60.7	68.2	75.1	80.7	82.5	82.3	78.3	69.7	60.1	54.1	68.1

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HEATING DEGREE DAYS (base 65°F) 1999 LAKE CHARLES, LA (LCH)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	0	37	255	216	311	271	204	67	0	0	1361
1971-72	0	0	0	3	191	159	297	267	102	22	0	0	1041
1972-73	0	0	1	56	319	377	498	370	74	99	1	0	1795
1973-74	0	0	0	11	78	385	245	272	81	32	0	0	1104
1974-75	0	0	0	16	206	348	282	242	179	66	0	0	1339
1975-76	0	0	0	19	212	414	458	167	122	9	0	0	1401
1976-77	0	0	0	137	376	419	671	300	134	11	0	0	2048
1977-78	0	0	0	36	136	367	682	539	236	22	2	0	2020
1978-79	0	0	0	26	98	377	636	406	151	19	0	0	1713
1979-80	0	0	0	25	284	400	336	376	194	48	0	0	1663
1980-81	0	0	0	79	286	400	523	344	182	5	1	0	1820
1981-82	0	0	5	71	118	378	423	368	156	83	0	0	1602
1982-83	0	0	4	41	162	286	478	339	229	93	0	0	1632
1983-84	0	0	6	27	140	533	516	265	130	24	1	0	1642
1984-85	0	0	7	14	234	155	610	432	67	23	0	0	1542
1985-86	0	0	0	20	79	478	400	225	168	18	0	0	1388
1986-87	0	0	0	21	128	417	480	266	200	83	0	0	1595
1987-88	0	0	0	43	176	264	538	347	179	22	0	0	1569
1988-89	0	0	0	12	123	309	249	363	198	62	0	0	1316
1989-90	0	0	0	47	165	618	284	173	150	57	0	0	1494
1990-91	0	0	1	80	141	333	449	229	143	14	1	0	1391
1991-92	0	0	0	14	317	275	419	195	104	34	5	0	1363
1992-93	0	0	0	2	281	254	350	282	191	74	0	0	1434
1993-94	0	0	0	62	260	365	446	292	159	48	0	0	1632
1994-95	0	0	0	21	82	266	361	211	135	17	0	0	1093
1995-96	0	0	0	17	168	350	415	328	283	86	2	0	1649
1996-97	0	0	0	32	156	281	444	279	72	74	0	0	1338
1997-98	0	0	0	57	236	435	273	278	217	46	0	0	1542
1998-99	0	0	0	12	87	330	286	194	141	25	0	0	1075
1999-	0	0	0	48	141	374							

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COOLING DEGREE DAYS (base 65°F) 1999 LAKE CHARLES, LA (LCH)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	7	0	6	206	292	464	538	582	463	142	12	51	2763
1971	25	15	28	120	295	521	563	524	457	313	53	63	2977
1972	20	22	53	172	289	499	479	503	445	184	18	11	2695
1973	0	1	65	92	248	453	555	461	418	257	136	2	2688
1974	34	17	126	133	349	418	534	496	310	143	61	29	2650
1975	32	22	63	120	341	452	510	501	311	166	79	12	2609
1976	0	23	70	127	234	400	490	503	383	47	4	0	2281
1977	0	4	49	118	343	499	539	514	456	167	48	13	2750
1978	5	2	20	126	374	480	561	528	407	151	87	26	2767
1979	2	2	36	140	248	444	521	514	336	183	17	1	2444
1980	6	12	31	52	337	505	608	555	483	108	24	9	2730
1981	0	4	13	211	264	495	551	535	356	224	35	6	2694
1982	33	5	115	129	292	470	534	535	350	174	68	52	2757
1983	0	0	15	53	268	410	580	582	368	199	69	15	2559
1984	0	12	59	173	337	440	502	501	343	293	36	84	2780
1985	0	12	60	177	328	495	528	571	381	242	122	3	2919
1986	0	22	20	135	332	503	600	535	509	161	99	4	2920
1987	1	2	11	121	368	469	553	606	397	85	46	24	2683
1988	3	8	43	122	278	432	541	573	423	117	104	7	2651
1989	30	36	84	137	388	455	543	547	370	191	82	4	2867
1990	14	23	49	118	321	526	512	557	421	151	52	31	2775
1991	0	4	58	184	357	470	550	506	375	220	43	34	2801
1992	0	16	56	131	290	502	563	463	411	159	24	8	2623
1993	0	2	26	73	267	469	574	605	445	189	36	18	2704
1994	6	28	60	181	311	529	562	547	400	230	97	21	2972
1995	12	18	86	151	400	489	621	648	485	191	57	46	3204
1996	3	34	29	118	384	458	566	504	380	175	46	23	2720
1997	25	14	88	42	292	473	582	547	441	196	12	2	2714
1998	10	0	55	88	405	556	625	611	520	239	61	56	3226
1999	29	45	18	242	314	471	544	654	386	186	23	10	2922

SNOWFALL (inches) 1999 LAKE CHARLES, LA (LCH)

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	T	0.0	0.0	0.0	0.0	0.0	T
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	4.0	T	0.0	0.0	0.0	0.0	4.0
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	T	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	1.0	T	0.0	0.0	0.0	0.0	1.0
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	T	0.0	0.0	0.0	0.0	T
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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984-85	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1985-86	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	1.6
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	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	T	0.0	T
1992-93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
1993-94	0.0	0.0	0.0	0.0	0.0	T	0.0	T	0.0	0.0	0.0	0.0	T
1994-95	T	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1995-96	0.0	0.0	0.0	0.0	0.0	T	T						
1996-97						T						0.0	
1997-98						0.0							
1998-99	0.0												
1999-													
POR= 35 YRS	T	0.0	0.0	0.0	T	0.0	0.2	0.1	T	T	T	0.0	0.3

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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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999  
LAKE CHARLES,  
LOUISIANA (LCH)

Lake Charles is located on the east side of the lake of the same name. The Calcasieu River enters and exits Lake Charles and several other lakes in the area on its way to the Gulf of Mexico. The terrain is flat, level coastal plain. Extensive marshes begin some 10 to 15 miles south and extend to the coast. Area elevations range from near sea level to about 25 feet above sea level. The National Weather Service Office is at the Lake Charles Municipal Airport, about 7 miles south of the downtown area. Calcasieu Lake is only 6 miles southwest of the airport.

The general classification of the Lake Charles climate is humid subtropical with a strong maritime character. The climate is influenced to a large degree by the amount of water surface in the immediate area and the proximity of the Gulf of Mexico.

Prevailing wind flow is southerly during much of the year. The flow of air from the Gulf of Mexico helps to temper extremes of summer heat, shorten the duration of winter cold spells and provide a source of abundant rain. Winds are usually rather light.

Rainfall is heavy, with the normal annual total more than 50 inches. Amounts are substantial in all seasons. Almost all rainfall occurs from brief convective showers, except occasionally during winter when nearly continuous frontal rains may persist for a few days. In spite of the large normal rainfall amounts, dry spells of two or three weeks duration are not uncommon.

The winter months are normally mild with cold spells usually of short duration. Temperatures of 20 degrees and below are extremely rare, occurring only about one year in five.

Snow is a negligible. Many years pass without measurable snowfall. However, on rare occasions, as much as 22 inches of snow have fallen at Lake Charles. Freezing rain and sleet are only a little less uncommon than snow.

The summer weather is consistently quite warm and humid but the temperature rarely reaches the 100 degree mark. The humidity is often above 90 percent at night and seldom falls below 50 percent during the afternoons.

The spring and fall seasons are very mild and pleasant with only brief rains interrupting long periods of dry sunny weather.

Severe local storms may occur during any season but are most frequent in the spring. The area weather is occasionally influenced by tropical storms or hurricanes. Some of these storms may be accompanied by tornadoes.

# STATION LOCATION

LAKE CHARLES, LOUISIANA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUTOMATED	* Type	REMARKS
						SEA LEVEL	GROUND												
							G	W	E	P	S	T	R	W	8	H			
<u>CITY</u>																			
323 Woodruff Street	7/1919	10/1930	NA	30° 13'	93° 14'	13													
Foot of North Ryan St.	11/1930	4/1037	2 mi. NNE	30° 15'	93° 13'	18													
1036 Kirkman Street	5/1937	2/12/39	1.1 mi. SSE	30° 14'	93° 13'	14	26	22 a4	22 a4									a - Effective 10/17/37.	
<u>AIRPORT</u>																			
Calcasieu Parish AP	2/12/39	1/30/42	3.3 mi. E	30° 13'	93° 09'	12	b34	55	5	5			c4	4					b - Effective 1/1/40. c - Added 1/1/40.
Lake Charles Air Force Base	1/30/42	11/13/61	0.33 mi. WSW	30° 13'	93° 09'	12	d15	39	5	6			4	4					d - Effective 6/1/60.
Administration Building Municipal Airport	U/13/61	3/22/79	7.5 mi. SW	30° 07'	93° 13'	14 h9	f22	75	5	5	NA	NA j5	4	4	g5	NA			f - Effective 3/12/62. g - Telepsychrometer (4') 11/22/48-9/1/64. Hygro. comm. 2500' WNW of previous temp. sensors 9/1/64. h - Effective 9/1/64. i - Moved about 90' SW 6/16/65. j - Added 9/16/76.
Weather Service Building Municipal AP	3/22/79	01/01/96	0.4 mi. E	30° 07'	93° 13'	9	k22 p33		4	4	NA n5	k5 m5	k5 m5	NA	k5 p5 q5	NA			k - Not moved 3/22/79. m - Moved to new site 4/12/79. n - Added 5/1/80. p - Relocated 5/4/82. q - Type change 6/4/85.
Municipal Airport	01/01/96	Present	NA	30°07'	93°14'	11													s ASOS Commissioned 01/01/96

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.  
 INQUIRIES/COMMENTS CALL: (828) 271-4800

National Climatic Data Center  
 151 Patton Avenue, Rm 120  
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