

1998

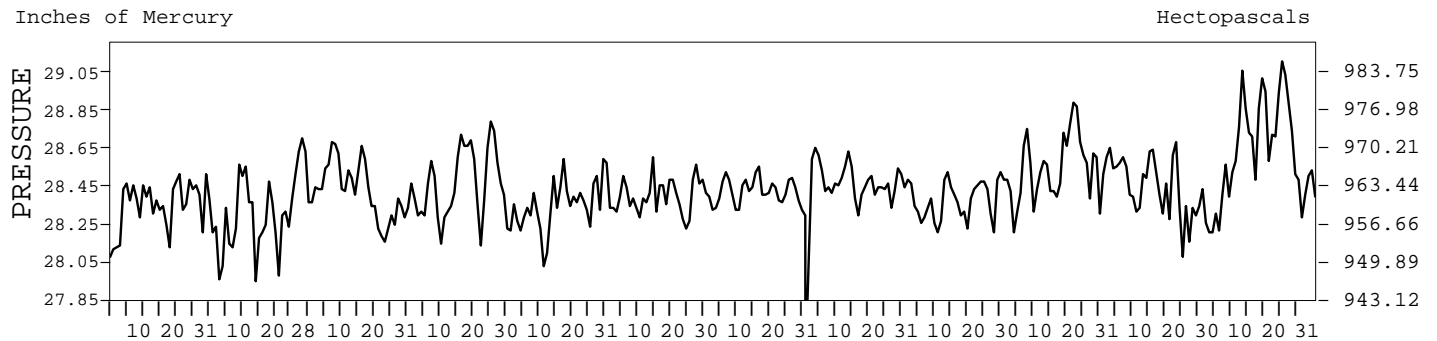
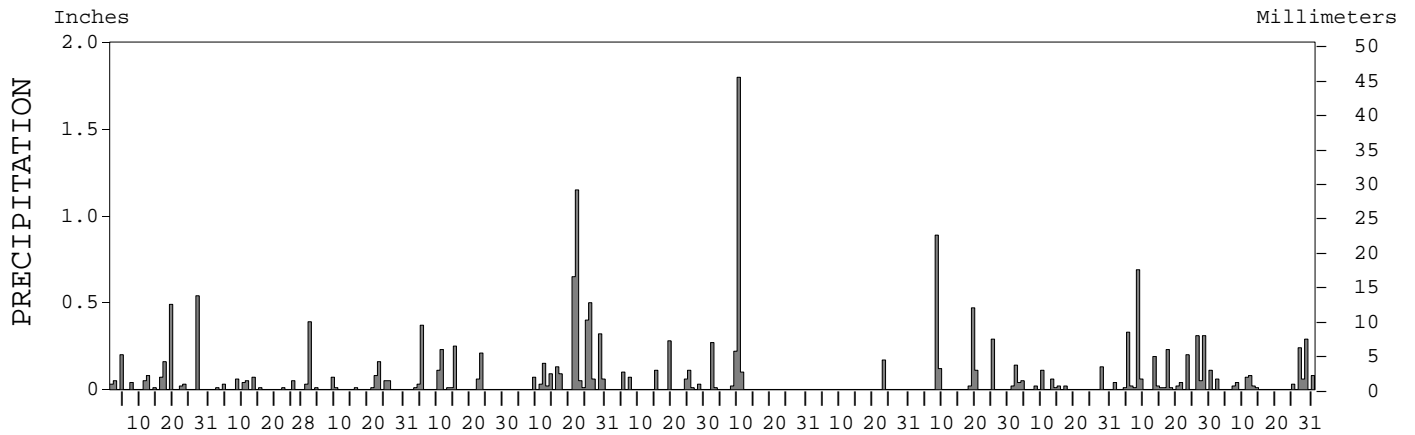
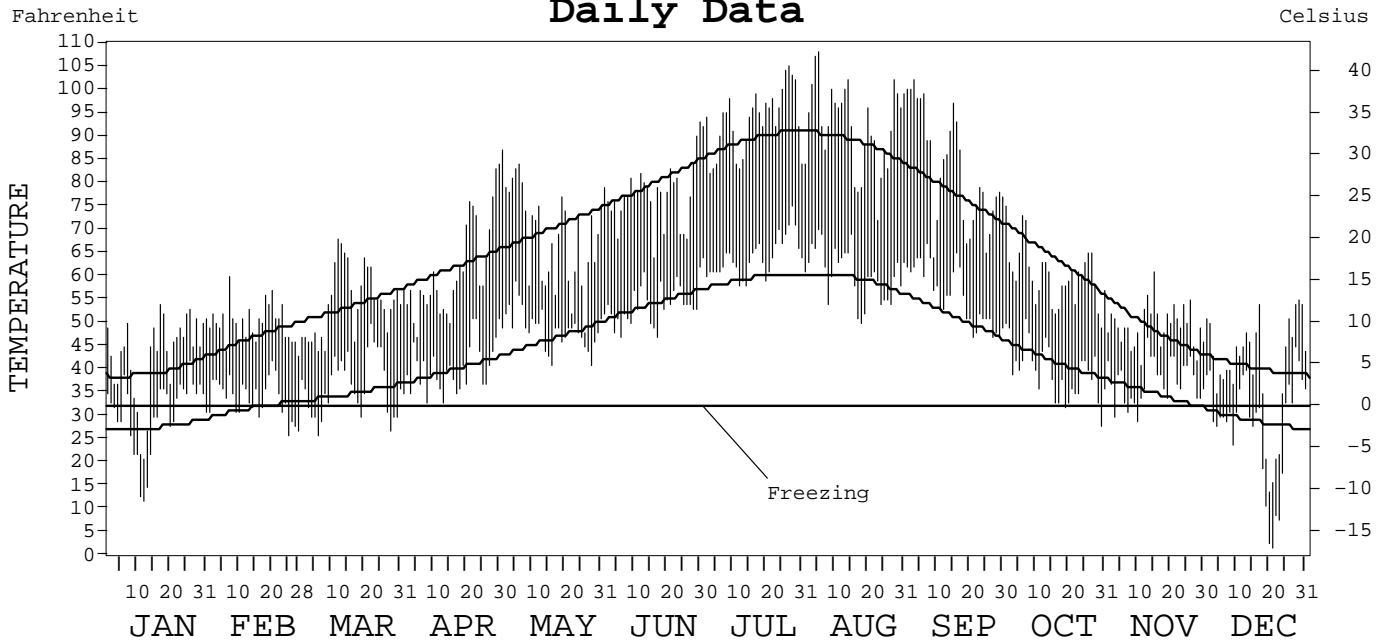
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-179X

LEWISTON,
IDAHO (LWS)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1998

LEWISTON, ID (LWS)

LATITUDE: 46° 22' 29" N LONGITUDE: 117° 00' 52" W ELEVATION (FT): GRND: 1413 BARO: 1441 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 24149

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.3	50.0	54.6	61.4	69.0	77.2	93.2	92.2	82.7	60.2	49.5	40.5	64.5	
	HIGHEST DAILY MAXIMUM	54	60	68	84	87	93	105	108	102	75	61	55	108	
	DATE OF OCCURRENCE	17	07	12	30	01	30	27	05	03	01	15	29	AUG 05	
	MEAN DAILY MINIMUM	30.5	34.0	36.5	40.5	48.7	53.8	64.1	60.5	55.8	39.7	37.5	28.4	44.2	
	LOWEST DAILY MINIMUM	12	26	26	33	41	47	58	50	47	28	29	2	2	
	DATE OF OCCURRENCE	12	25	06	13+	28+	17	14+	18	29+	30	10	21	DEC 21	
	AVERAGE DRY BULB	36.9	42.0	45.6	51.0	58.9	65.5	78.7	76.4	69.3	50.0	43.5	34.5	54.4	
	MEAN WET BULB	34.3	38.0		44.7	51.6			59.2	57.3	44.3		31.4		
	MEAN DEW POINT	30.2	33.0		37.8	45.8			45.8	49.1	38.9		24.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	2	23	20	9	0	0	0	54	
	MAXIMUM ≤ 32°	4	0	0	0	0	0	0	0	0	0	0	5	9	
	MINIMUM ≤ 32°	15	11	10	0	0	0	0	0	0	2	3	19	60	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	863	638	595	419	201	39	0	0	46	458	637	941	4837	
	COOLING DEGREE DAYS	0	0	0	3	18	64	432	361	181	0	0	0	1059	
RH	MEAN (PERCENT)	77	72	67	63	67	57	48	37	56	70	73	68	63	
	HOUR 04 LST	84	82	76	79	81	76	70	55	71	85	78	69	76	
	HOUR 10 LST	79	74	65	62	61	52	44	38	55	69	72	68	62	
	HOUR 16 LST	72	60	52	45	52	40	29	22	37	51	67	65	49	
	HOUR 22 LST	76	74	71	65	73	60	50	34	58	73	74	68	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	7	3	1	1	0	1	1	0	1	1	5	2	23	
	THUNDERSTORMS	0	0	0	1	1	1	4	0	4	0	0	0	11	
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.)	28.36	28.30	28.44	28.47	28.35	28.40		28.48	28.38	28.56	28.41	28.66		
	MEAN SEA-LEVEL PRESS. (IN.)	29.90	29.84		30.00	29.87			29.97	29.88	30.10	29.95	30.23		
WINDS	RESULTANT SPEED (MPH)	2.8	2.8		0.7	0.8			0.3	0.5	1.7	2.7	3.7		
	RES. DIR. (TENS OF DEGS.)	13	11		18	27			27	15	11	15	16		
	MEAN SPEED (MPH)	6.5	5.2		5.1	5.2	5.3	5.0	5.2	3.8	4.1	5.7	8.2		
	PREVAIL. DIR. (TENS OF DEGS.)	07	08		09	30	16	14	30	15	07	18	17		
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	32	23	33	23	33	29	51	28	33	28	33	41	51	
	DIR. (TENS OF DEGS.)	26	28	29	27	17	27	26	29	16	29	19	25	26	
	DATE OF OCCURRENCE	07	24	16	11	12	15	10	05	08	02	21	26	JUL 10	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	38	28	41	29	38	36	63	33	45	33	38	52	63	
DIR. (TENS OF DEGS.)	26	29	27	29	17	30	25	29	17	28	19	25	25		
DATE OF OCCURRENCE	07	24	16	11	12	15	10	05	08	02	21+	26	JUL 10		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.77	0.33	0.87	1.29	3.78	0.77	2.42	0.17	1.90	0.62	2.67	1.00	17.59	
	GREATEST 24-HOUR (IN.)	0.54	0.09	0.39	0.37	1.26	0.28	1.90	0.17	1.01	0.14	0.74	0.35	1.90	
	DATE OF OCCURRENCE	27	10-11	02	05	21-22	19	10-11	23	08-09	02	08-09	28-29	JUL 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	13	9	11	10	16	8	6	1	6	11	20	12	123	
PRECIPITATION ≥ 0.10	4	0	2	5	7	4	4	1	5	3	8	2	45		
PRECIPITATION ≥ 1.00	0	0	0	0	1	0	1	0	0	0	0	0	2		
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

LEWISTON, ID (LWS)

LATITUDE: 46° 22' 29" N LONGITUDE: 117° 00' 52" W ELEVATION (FT): GRND: 1413 BARO: 1441 TIME ZONE: PACIFIC (UTC+ 8) WBAN: 24149

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.6	46.6	53.5	61.5	70.2	79.8	89.0	88.3	77.2	63.2	48.1	40.2	63.1
	MEAN DAILY MAXIMUM	51	39.0	45.3	53.6	62.0	70.8	78.8	88.7	87.8	77.8	63.0	47.8	40.6	62.9
	HIGHEST DAILY MAXIMUM	52	66	72	76	97	100	107	110	115	103	89	74	63	115
	YEAR OF OCCURRENCE		1953	1986	1991	1977	1983	1973	1967	1961	1950	1987	1975	1965	AUG 1961
	MEAN OF EXTREME MAXS.	51	54.0	58.5	67.9	78.6	88.8	94.8	102.5	102.1	94.0	79.6	62.1	55.3	78.2
	NORMAL DAILY MINIMUM	30	27.6	31.5	34.7	39.7	46.5	53.9	59.2	58.9	50.9	41.4	34.4	28.7	42.3
	MEAN DAILY MINIMUM	51	26.2	29.9	34.1	39.5	46.5	53.2	58.7	58.0	50.2	40.8	33.5	28.4	41.6
	LOWEST DAILY MINIMUM	52	-22	-15	2	20	23	34	41	41	28	16	-3	-22	-22
	YEAR OF OCCURRENCE		1950	1950	1955	1966	1954	1951	1955	1992	1965	1971	1955	1968	DEC 1968
	MEAN OF EXTREME MINS.	51	7.6	15.1	22.9	29.5	35.3	43.1	48.4	47.9	38.7	29.0	20.1	11.5	29.1
	NORMAL DRY BULB	30	33.6	39.1	44.1	50.6	58.4	66.9	74.1	73.7	64.1	52.3	41.3	34.5	52.7
	MEAN DRY BULB	51	32.6	37.6	43.8	50.8	58.6	66.1	73.7	73.0	64.1	51.9	40.7	34.5	52.3
	MEAN WET BULB	15	32.0	34.4	41.0	46.1	51.5	56.2	59.5	58.5	53.6	42.2	37.5	28.4	45.1
	MEAN DEW POINT	15	25.9	27.5	32.2	36.5	41.4	45.0	46.0	43.9	41.5	33.3	31.3	22.9	35.6
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.3	5.5	16.3	15.3	3.5	0.0	0.0	0.0	42.0	
MAXIMUM ≤ 32°	30	6.9	1.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	5.5	15.4	
MINIMUM ≤ 32°	30	20.7	15.0	10.9	3.6	0.2	0.0	0.0	0.0	0.1	2.6	10.8	20.4	84.3	
MINIMUM ≤ 0°	30	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	1.9	
H/C	NORMAL HEATING DEG. DAYS	30	973	725	648	436	210	64	6	16	141	394	711	946	5270
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	6	121	288	285	114	0	0	0	814
RH	NORMAL (PERCENT)														
	HOUR 04 LST	30	81	80	77	75	75	72	60	58	68	79	83	82	74
	HOUR 10 LST	30	76	72	63	56	52	47	38	40	50	64	75	76	59
	HOUR 16 LST	30	70	60	49	42	38	35	25	25	32	47	68	73	47
	HOUR 22 LST	30	76				57	55	49	46	35	38	54	88	74
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	22	4.4	3.4	1.4	0.2	0.5	0.1	0.0	0.0	0.1	2.0	4.1	5.3	21.5
	THUNDERSTORMS	22	0.0	0.1	0.1	0.8	2.0	3.0	3.4	2.8	1.1	0.4	0.1	0.0	13.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			7.2		7.2	4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)	1					7.2	4.0				3.2			
	MEAN NO. DAYS WITH:														
	CLEAR	1	1.0	3.0	4.0		4.0	9.0							
PARTLY CLOUDY	1		2.0	3.0		4.0	5.0								
CLOUDY	1	2.0	4.0	8.0		16.0	4.0								
PR	MEAN STATION PRESSURE (IN)	3	28.45	28.49	28.49	28.49	28.42	28.42	28.46	28.44	28.44	28.53	28.48	28.63	28.48
	MEAN SEA-LEVEL PRES. (IN)	15	30.14	30.09	30.02	29.99	29.94	29.93	29.94	29.93	29.98	30.07	30.08	30.19	30.02
WINDS	MEAN SPEED (MPH)	8	6.2	6.5	6.5	6.5	5.5	5.5	5.4	5.4	4.8	5.0	5.7	6.4	5.8
	PREVAIL. DIR (TENS OF DEGS)	4	18	08	09	30	30	30	30	30	30	30	08	09	09
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	45	30	44	38	33	29	51	34	36	32	33	41	51
	DIR. (TENS OF DEGS)		29	25	27	27	29	27	26	31	27	29	19	25	26
	YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1998	1998	1997	1997	1997	1998	1998	JUL 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	52	36	53	46	48	36	63	43	45	41	44	52	63	
DIR. (TENS OF DEGS)		29	26	27	26	28	30	25	31	17	28	19	25	25	
YEAR OF OCCURRENCE		1997	1996	1997	1997	1997	1998	1998	1997	1998	1996	1996	1998	JUL 1998	
PRECIPITATION	NORMAL (IN)	30	1.28	0.89	1.09	1.13	1.31	1.25	0.67	0.78	0.78	0.90	1.15	1.20	12.43
	MAXIMUM MONTHLY (IN)	52	3.55	2.00	2.70	3.29	4.80	4.70	2.60	2.96	2.36	2.79	2.79	3.28	4.80
	YEAR OF OCCURRENCE		1970	1996	1972	1978	1948	1950	1987	1989	1947	1950	1973	1964	MAY 1948
	MINIMUM MONTHLY (IN)	52	0.14	0.17	0.25	0.05	0.27	0.24	T	T	T	T	0.23	0.14	T
	YEAR OF OCCURRENCE		1991	1988	1969	1956	1964	1973	1953	1969	1975	1987	1976	1970	OCT 1987
	MAXIMUM IN 24 HOURS (IN)	52	1.35	0.93	0.92	1.06	1.63	1.72	1.90	1.64	1.73	1.19	1.44	1.12	1.90
	YEAR OF OCCURRENCE		1956	1959	1981	1978	1948	1950	1998	1989	1955	1950	1996	1958	JUL 1998
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.0	9.4	10.7	9.7	9.1	8.1	4.7	4.8	5.9	7.0	10.6	11.4	102.4	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.0	0.0	0.1	*	*	0.0	*	0.0	0.0	0.1	
SNOWFALL	NORMAL (IN)														
	MAXIMUM MONTHLY (IN)	49	26.1	14.9	9.7	1.1	T	0.0	T	0.0	0.0	2.5	14.4	18.7	26.1
	YEAR OF OCCURRENCE		1957	1956	1955	1972	1990		1991			1971	1961	1968	JAN 1957
	MAXIMUM IN 24 HOURS (IN)	49	12.8	7.5	6.7	1.0	T	0.0	T	0.0	0.0	1.3	8.3	8.4	12.8
	YEAR OF OCCURRENCE		1966	1956	1989	1947	1990		1991			1971	1961	1968	JAN 1966
	MAXIMUM SNOW DEPTH (IN)	48	16	9	5	0	0	0	0	0	0	1	10	7	16
YEAR OF OCCURRENCE		1957	1969	1989							1971	1961	1968	JAN 1957	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0															

PRECIPITATION (inches) 1998 LEWISTON, ID (LWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	2.98	0.76	0.25	2.33	1.25	2.38	0.21	T	1.38	1.10	0.29	1.50	14.43
1970	3.55	0.65	1.14	1.03	1.26	2.28	1.48	0.02	1.29	0.89	1.36	0.14	15.09
1971	1.67	0.73	1.08	0.74	1.92	2.53	0.70	0.96	1.57	1.01	1.45	1.08	15.44
1972	1.36	1.47	2.70	0.97	1.61	0.93	0.74	0.68	0.83	1.20	0.93	1.65	15.07
1973	0.70	0.66	0.50	0.12	1.58	0.24	0.01	0.02	1.12	1.64	2.79	2.99	12.37
1974	1.34	1.64	0.73	1.66	0.76	0.50	0.40	0.01	0.10	0.06	0.55	0.77	8.52
1975	2.81	1.50	0.99	1.25	1.01	1.29	0.68	1.09	T	1.92	0.56	2.09	15.19
1976	0.54	0.71	0.75	1.29	1.41	1.22	0.43	1.76	0.33	1.13	0.23	0.26	10.06
1977	0.34	0.36	0.92	0.10	1.63	0.35	0.39	1.65	2.22	0.55	1.65	2.10	12.26
1978	1.92	1.47	1.09	3.29	1.06	0.30	0.56	1.90	1.06	T	1.06	0.96	14.67
1979	0.97	1.12	0.69	2.17	1.56	0.70	0.21	0.57	0.18	1.57	1.44	0.97	12.15
1980	1.72	1.57	1.23	0.76	1.87	1.31	0.89	0.47	0.97	0.68	1.00	0.88	13.35
1981	0.89	1.22	1.93	0.92	1.11	1.94	0.92	0.01	1.01	1.41	1.54	1.31	14.21
1982	1.57	0.75	1.29	1.14	0.65	0.46	1.74	0.47	0.97	1.98	0.39	1.03	12.44
1983	0.95	1.46	1.48	1.12	1.15	1.70	0.96	0.93	0.74	0.87	1.00	1.14	13.50
1984	0.71	0.46	1.66	1.15	1.68	1.58	0.27	0.93	0.21	0.91	0.89	0.69	11.14
1985	0.24	0.66	0.67	0.93	1.29	0.92	0.57	0.91	1.82	0.60	0.62	0.36	9.59
1986	1.13	1.99	0.63	0.37	1.39	0.41	0.56	0.84	0.94	0.30	1.44	0.53	10.53
1987	0.56	0.44	0.91	0.83	0.84	1.44	2.60	0.34	0.01	T	0.31	0.81	9.09
1988	0.97	0.17	1.04	1.12	0.91	1.69	0.88	0.08	0.82	0.17	2.04	0.53	10.42
1989	1.61	0.33	1.69	0.65	2.57	1.61	0.07	2.96	0.64	0.63	0.67	0.30	13.73
1990	0.84	0.26	1.05	2.08	2.39	0.71	0.35	0.71	0.04	1.18	1.05	0.92	11.58
1991	0.14	0.32	1.11	0.79	3.74	1.86	0.53	0.03	0.24	0.15	2.00	0.40	11.31
1992	0.71	0.74	0.42	1.76	0.49	0.75	1.34	1.37	0.84	0.67	1.25	0.39	10.73
1993	0.99	0.70	1.17	2.78	1.97	1.63	1.19	0.62	0.07	0.67	0.64	0.80	13.23
1994	0.89	0.74	0.28	1.50	1.21	1.05	0.54	0.08	0.37	1.10	0.88		
1995	1.39	0.59	1.85	1.55	0.93	2.60		1.31	1.21	2.41	0.79	1.37	
1996	1.62	2.00	1.16	2.59	2.75	0.67	0.11	0.07	0.47	1.12	2.27	2.62	17.45
1997	2.43	0.71	1.69	2.52	0.81	0.93	1.03	0.47	0.98	1.77	1.12	0.60	15.06
1998	1.77	0.33	0.87	1.29	3.78	0.77	2.42	0.17	1.90	0.62	2.67	1.00	17.59
POR= 52 YRS	1.24	0.87	1.05	1.24	1.54	1.42	0.63	0.68	0.73	1.01	1.15	1.12	12.68

WBAN : 24149

AVERAGE TEMPERATURE (°F) 1998 LEWISTON, ID (LWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	23.6	34.7	43.3	50.7	61.4	69.7	72.8	71.9	64.3	47.9	40.8	35.0	51.3
1970	34.4	42.0	42.8	46.2	59.3	70.1	76.1	75.0	58.2	49.9	41.5	34.0	52.5
1971	36.3	39.0	40.8	49.6	60.4	62.3	74.6	78.1	58.6	48.8	39.8	34.2	51.9
1972	32.3	37.6	47.0	47.1	61.0	67.0	73.2	75.1	60.4	51.2	41.3	29.0	51.9
1973	32.2	39.1	45.7	50.5	61.1	67.7	77.1	74.8	64.7	51.3	39.8	39.4	53.6
1974	29.2	41.3	44.3	51.1	56.3	71.2	74.0	73.7	66.3	53.1	43.0	37.4	53.4
1975	34.3	35.3	41.0	46.5	57.8	63.6	77.8	70.4	66.2	51.4	40.3	36.9	51.8
1976	37.0	38.0	40.9	50.1	59.7	63.0	73.9	70.0	69.0	54.3	43.5	35.6	52.9
1977	28.8	41.5	42.2	55.9	56.5	72.3	73.2	77.4	61.3	50.7	39.4	36.8	53.0
1978	35.4	40.7	47.6	50.0	56.0	67.2	74.1	71.1	61.9	52.2	35.1	29.0	51.7
1979	16.9	36.0	46.0	49.9	59.2	67.1	76.0	75.0	69.0	55.9	37.5	39.8	52.4
1980	28.6	39.6	43.1	56.0	58.2	63.2	73.5	68.8	64.0	52.2	41.6	40.4	52.4
1981	38.5	39.7	46.6	51.6	57.0	62.2	70.9	77.7	65.5	49.5	44.2	36.7	53.3
1982	32.1	36.7	44.3	47.7	57.2	69.2	72.7	74.4	63.9	51.4	38.8	34.8	51.9
1983	40.5	42.9	47.1	49.2	59.5	65.2	70.5	76.7	60.7	53.0	43.8	25.3	52.9
1984	36.0	40.8	46.8	49.3	56.1	63.9	75.2	75.0	61.5	48.6	42.2	30.5	52.2
1985	28.0	32.6	42.3	53.5	60.3	66.9	80.0	69.5	56.8	48.6	29.0	23.2	49.2
1986	39.2	39.0	48.8	50.5	60.1	70.9	68.9	77.7	59.4	53.9	40.5	34.7	53.6
1987	32.0	40.4	46.4	57.0	62.3	70.0	71.5	72.0	68.3	54.6	43.6	33.8	54.3
1988	33.3	41.3	44.4	53.5	58.9	66.7	73.8	73.9	64.2	58.7	42.6	34.2	53.8
1989	36.3	26.6	46.3	56.1	59.4	68.6	74.5	71.4	66.1	54.4	47.1	37.9	53.7
1990	41.9	39.7	48.4	57.0	58.8	67.6	77.4	75.6	73.0	53.1	47.1	30.6	55.9
1991	34.5	47.7	45.4	52.0	55.9	60.3	72.3	75.1	65.6	50.6	40.1	37.6	53.1
1992	37.9	42.2	49.1	53.8	63.0	71.2	72.4	73.4	62.4	54.2	40.2	32.7	54.4
1993	27.0	32.9	46.4	50.1	62.9	63.9	65.4	70.2	64.7	54.4	35.2	36.1	50.8
1994	40.4	35.6	46.6	54.2	61.6	66.0	77.8	75.2	67.4	52.1	38.4		
1995	35.4	41.9	44.5	49.9	59.8	63.8		70.0	66.3	49.4	45.1	34.7	
1996	34.1		43.4	51.4	54.1	64.1	74.8	73.4	61.8	51.4	40.5	34.3	
1997	33.7	38.3	44.6	48.8	61.5	64.2	71.7	76.2	66.5	52.0	43.1	34.1	52.9
1998	36.9	42.0	45.6	51.0	58.9	65.5	78.7	76.4	69.3	50.0	43.5	34.5	54.4
POR= 52 YRS	32.5	38.3	43.9	50.9	58.8	66.1	73.7	73.0	64.0	52.0	40.8	34.6	52.4

HEATING DEGREE DAYS (base 65°F) 1998 LEWISTON, ID (LWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0	10	86	525	719	924	942	638	681	556	187	56	5324
1970-71	3	0	217	465	698	956	885	720	740	457	171	114	5426
1971-72	16	11	206	498	748	948	1007	789	551	530	171	46	5521
1972-73	13	1	178	419	706	1112	1007	719	588	427	173	59	5402
1973-74	1	6	80	415	749	787	1106	658	637	410	268	37	5154
1974-75	9	0	53	362	651	852	945	826	734	547	230	87	5296
1975-76	1	17	48	417	736	863	862	774	738	439	173	118	5186
1976-77	3	17	14	331	638	907	1116	653	701	300	266	10	4956
1977-78	16	17	153	435	761	868	911	673	531	441	272	40	5118
1978-79	6	22	139	390	890	1109	1485	808	582	448	190	61	6130
1979-80	12	0	14	281	819	774	1122	730	673	274	218	86	5003
1980-81	0	35	74	401	695	757	815	700	564	401	249	111	4802
1981-82	13	0	118	472	620	869	1013	787	636	514	239	57	5338
1982-83	15	0	118	416	779	928	755	612	548	470	243	51	4935
1983-84	17	0	143	366	630	1224	893	697	559	470	282	98	5379
1984-85	0	7	158	510	679	1064	1144	901	698	340	198	47	5746
1985-86	0	12	246	499	1076	1285	791	721	496	430	248	25	5829
1986-87	27	3	192	338	729	932	1016	680	570	255	137	31	4910
1987-88	9	3	35	323	635	961	976	681	634	344	215	87	4903
1988-89	12	0	122	208	666	948	884	1071	572	260	184	18	4945
1989-90	3	14	29	322	531	833	709	703	508	233	198	56	4139
1990-91	0	3	0	371	530	1059	940	478	601	383	276	145	4786
1991-92	3	0	45	441	739	842	831	656	488	328	108	40	4521
1992-93	4	39	122	338	737	993	1172	894	568	439	124	81	5511
1993-94	37	25	105	325	886	891	754	816	561	334	148	70	4952
1994-95	8	0	40	391	790		910	639	628	446	177	97	
1995-96		15	72	477	587	933	950		661	404	331	69	
1996-97	3	2	147	416	729	945	964	740	627	482	145	59	5259
1997-98	12	0	52	405	650	949	863	638	595	419	201	39	4823
1998-	0	0	46	458	637	941							

WBAN : 24149

COOLING DEGREE DAYS (base 65°F) 1998 LEWISTON, ID (LWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	31	186	247	228	73	0	0	0	765
1970	0	0	0	0	16	220	354	320	19	3	0	0	932
1971	0	0	0	0	35	42	323	424	20	3	0	0	847
1972	0	0	0	0	52	114	277	321	46	0	0	0	810
1973	0	0	0	0	60	144	382	316	79	0	0	0	981
1974	0	0	0	0	7	228	295	277	98	1	0	0	906
1975	0	0	0	0	13	52	405	194	92	5	0	0	761
1976	0	0	0	0	15	62	288	178	139	5	0	0	687
1977	0	0	0	34	10	234	275	410	49	0	0	0	1012
1978	0	0	0	0	0	112	296	217	51	0	0	0	676
1979	0	0	0	0	15	131	360	315	140	7	0	0	968
1980	0	0	0	10	15	37	271	160	51	10	0	0	554
1981	0	0	0	7	8	32	204	403	139	0	0	0	793
1982	0	0	0	0	5	190	260	298	89	1	0	0	843
1983	0	0	0	0	77	63	197	369	20	0	0	0	726
1984	0	0	0	3	11	69	325	322	59	7	0	0	796
1985	0	0	0	0	59	112	468	157	7	0	0	0	803
1986	0	0	0	1	104	210	155	404	31	0	0	0	905
1987	0	0	0	21	62	188	216	224	141	10	0	0	862
1988	0	0	0	2	29	145	293	281	105	19	0	0	874
1989	0	0	0	0	17	131	305	219	66	0	0	0	738
1990	0	0	0	0	12	140	393	337	245	8	0	0	1135
1991	0	0	0	0	0	11	234	317	69	2	0	0	633
1992	0	0	0	0	55	234	243	305	50	8	0	0	895
1993	0	0	0	0	69	55	56	194	105	2	0	0	481
1994	0	0	0	13	49	107	412	322	117	0	0	0	
1995	0	0	0	0	25	65	65	176	117	0	0	0	
1996	0	0	0	0	0	46	315	272	56	3	0	0	692
1997	0	0	0	0	43	41	225	354	105	6	0	0	774
1998	0	0	0	3	18	64	432	361	181	0	0	0	1059

SNOWFALL (inches) 1998 LEWISTON, ID (LWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1969-70	0.0	0.0	0.0	0.0	T	5.5	8.2	0.3	3.5	T	0.0	0.0	17.5
1970-71	0.0	0.0	0.0	0.0	1.2	0.4	7.3	1.2	2.4	T	0.0	0.0	12.5
1971-72	0.0	0.0	0.0	2.5	T	5.9	6.0	2.6	T	1.1	0.0	0.0	18.1
1972-73	0.0	0.0	0.0	0.0	T	3.7	3.6	4.5	T	T	T	0.0	11.8
1973-74	0.0	0.0	0.0	0.9	3.2	6.6	5.3	T	0.2	T	T	0.0	16.2
1974-75	0.0	0.0	0.0	0.0	0.0	0.4	5.0	11.3	T	T	T	0.0	16.7
1975-76	0.0	0.0	0.0	0.0	1.1	1.4	2.3	T	0.4	0.3	0.0	0.0	5.5
1976-77	0.0	0.0	0.0	0.0	0.2	0.1	3.5	0.2	2.0	0.0	T	0.0	6.0
1977-78	0.0	0.0	0.0	T	9.3	9.0	3.7	1.2	0.6	0.0	0.0	0.0	23.8
1978-79	0.0	0.0	0.0	0.0	5.2	3.1	11.6	0.1	T	0.1	0.0	0.0	20.1
1979-80	0.0	0.0	0.0	0.0	1.6	T	15.5	2.0	2.4	T	0.0	0.0	21.5
1980-81	0.0	0.0	0.0	0.0	1.9	2.3	T	3.2	0.0	T	0.0	0.0	7.4
1981-82	0.0	0.0	0.0	0.0	T	5.1	8.7	2.2	T	T	0.0	0.0	16.0
1982-83	0.0	0.0	0.0	0.0	T	2.5	T	T	0.0	0.0	0.0	0.0	2.5
1983-84	0.0	0.0	0.0	0.0	T	12.1	0.5	T	0.0	0.0	T	0.0	12.6
1984-85	0.0	0.0	0.0	T	0.8	10.0	3.9	13.9	1.1	T	0.0	0.0	29.7
1985-86	0.0	0.0	0.0	T	6.2	3.0	0.8	3.0	0.0	T	0.0	0.0	13.0
1986-87	0.0	0.0	0.0	0.0	1.6	T	2.3	T	0.0	0.0	0.0	0.0	3.9
1987-88	0.0	0.0	0.0	0.0	T	1.2	3.5	T	T	T	0.0	0.0	4.7
1988-89	0.0	0.0	0.0	0.0	7.3	4.5	4.8	5.2	6.7	0.0	0.0	0.0	28.5
1989-90	0.0	0.0	0.0	0.0	0.0	2.0	T	1.4	T	0.0	T	0.0	3.4
1990-91	0.0	0.0	0.0	T	T	5.7	T	0.0	2.0	T	0.0	0.0	7.7
1991-92	T	0.0	0.0	T	T	0.0	T	0.0	0.0	0.0	0.0	0.0	T
1992-93	0.0	0.0	0.0	0.0	3.5	2.8	11.0	5.1	0.8	T	0.0	0.0	23.2
1993-94	0.0	0.0	0.0	0.0	3.1	T	0.0	3.7	T	0.0	0.0	0.0	6.8
1994-95	0.0	0.0	0.0	0.0	1.0	0.0	2.2	1.8	T	0.0	0.0	0.0	
1995-96		0.0	0.0		0.0								
1996-97	0.0												
1997-98													
1998-													
POR= 48 YRS	T	0.0	0.0	0.1	1.7	4.2	5.8	2.5	1.3	0.1	T	0.0	15.7

WBAN : 24149

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
LEWISTON,
IDAHO (LWS)

Lewiston is located at the confluence of the Snake and Clearwater Rivers at an elevation of 738 feet above mean sea level. Lower Granite Lake extends from the confluence of the two rivers, 32 miles downstream in the Snake River channel, to Lower Granite Dam. The valley is rather narrow with a range of hills to the north sloping abruptly to about 2,000 feet above the valley floor. To the south the terrain rises more gradually to a more or less flat bench about 700 feet above the valley. The Weather Office is located on the bench at an elevation of 1,413 feet above sea level and about 2 miles south of Lewiston. Although Lewiston is at about the same latitude as Duluth, Minnesota, the climate, especially in the wintertime, is comparatively very mild. This mildness can be explained by its location with respect to the effects of Pacific air masses from the west and by the sheltering effects of the mountains that surround the valley in almost every direction.

Considerable variations in the climate are to be found within relatively short distances from the valley itself. On the prairies surrounding the valley, winter temperatures are much lower and the precipitation is normally almost double that recorded in the valley and at the airport location.

Precipitation normally amounts to about 13 inches annually, which is rather evenly distributed through the year except for the months of July and August, which are characterized by infrequent thunderstorms that usually drop only small amounts of rain. Records show that several times during these two months not more than a trace of rain has been recorded and at times not even a trace. The thunderstorms on the prairie are, at times, accompanied by heavy hail and windstorms. Snowfall in the valley averages about 18 inches during the year, concentrated mostly in the three months of December, January, and February, but in the higher country surrounding the valley the snowfall is much heavier.

Most of the precipitation reaching this vicinity results from strong invasions of moist air from the North Pacific source region. Greatest amounts of both rain and snow occur when this moist air is overrunning a weak front that has become stationary along an east-west line a short distance south of the area.

Temperatures show a wide range from more than 115 degrees to less than -20 degrees. Many winters have gone by without a temperature of zero being recorded in the valley, but the prairie sections usually experience lower temperatures. The summers experience hot and dry periods with as many as 10 consecutive days with afternoon temperatures reaching 100 degrees or more. Considerable cooling after sunset makes the nights very comfortable. Cold waves occur when arctic air, originating in the Yukon Territory, moves southward. Such cold waves are relatively infrequent when compared to the number of arctic outbreaks east of the continental divide in Montana only a short distance away.

Winds are light, usually prevailing from the east, with occasional stronger winds accompanying the well-developed frontal systems from the west.

Relative humidity averages about 70 percent during the winter months and gradually lowers to about 40 percent during July and August.

The growing season of approximately 200 days in this part of the country, makes conditions favorable for the growing of many types of fruits, vegetables, and berries.

STATION LOCATION

LEWISTON, IDAHO

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS					
						SEA LEVEL	GROUND																
							WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND	WIND			WIND				
<u>CITY</u>																							
Log Building, corner of 4th & Main Streets	10/22/79	1/1/85		46° 25'	117°02'	732	48	22	22								Station opened by Sgt. Green of Signal Corps.						
Vollmer's Building 5th & Main Street	1/1/85	12/31/85	300 ft. E	46° 25'	117°02'	735	49	22	22														
Dent & Butler Building 319 E Street	10/1/00	7/1/04	250 ft. W	46° 25'	117°02'	738	62	52	52			45					Station opened by Weather Bureau.						
O'Neill Cottage, 33 Blvd.	7/1/04	11/30/12	1/4 mi. SW	46° 25'	117°02'	814	52	10	10			4											
Federal Building 12th & F Streets	11/30/12	7/22/33	1 mi. E	46° 25'	117°01'	-	48	40	40			32											
<u>COOPERATIVE</u>																							
Adjacent to Tribune Office, cor. 4th & C Streets	8/1/33	6/18/43	2/3 mi. NW	46° 25'	117°02'	735			4								Cooperative observations started.						
Public Park at E end of Interstate Bridge	6/18/43	5/10/44	1/4 mi. SW	46° 25'	117°02'	740			4														
Home at 227 Snake River Avenue	5/10/44	6/1/45	1/8 mi. S	46° 25'	117°02'	742			4														
Home at 717 9th Avenue	6/1/45	11/1/47	3/4 mi. SE	46° 25'	117°02'	865			4								Equipment moved to 4th & C Sts. Cooperative observations cont'd.						
<u>AIRPORT</u>																							
Administration Building Lewiston-Nez Perce County Airport	11/18/46	9/7/51	2 mi. S	46° 23'	117°01'	1413	23	4	4														
New Administration Bldg Lewiston-Nez Perce County Airport + Lewiston - Nez Perce County Regional Airport effective 12/1/68.	9/7/51	Present	30 ft. N	46° 23'	117°01'	1413	b20	4	d30	4	d29	NA	NA	a5	f28	c3	d26	NA	NA	e	M	S	a - Added 1/1/54. b - 40 ft. to 3/24/66. c - Removed 1/75 d - Moved to roof exposure 9/1/76. e - Added 2/4/77. f - Added 5/17/78. M - RAMOS installed 11/6/80. S ASOS Commissioned 07/01/95

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

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