

2000

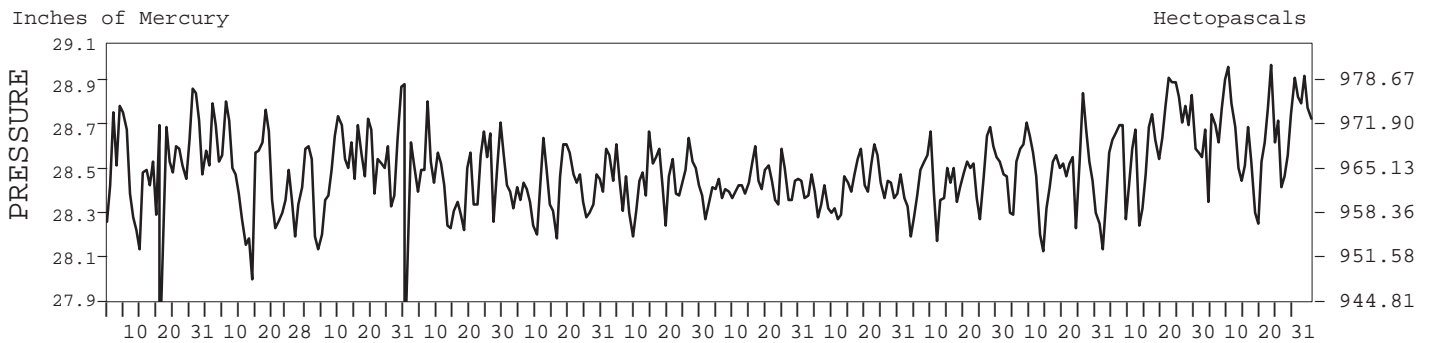
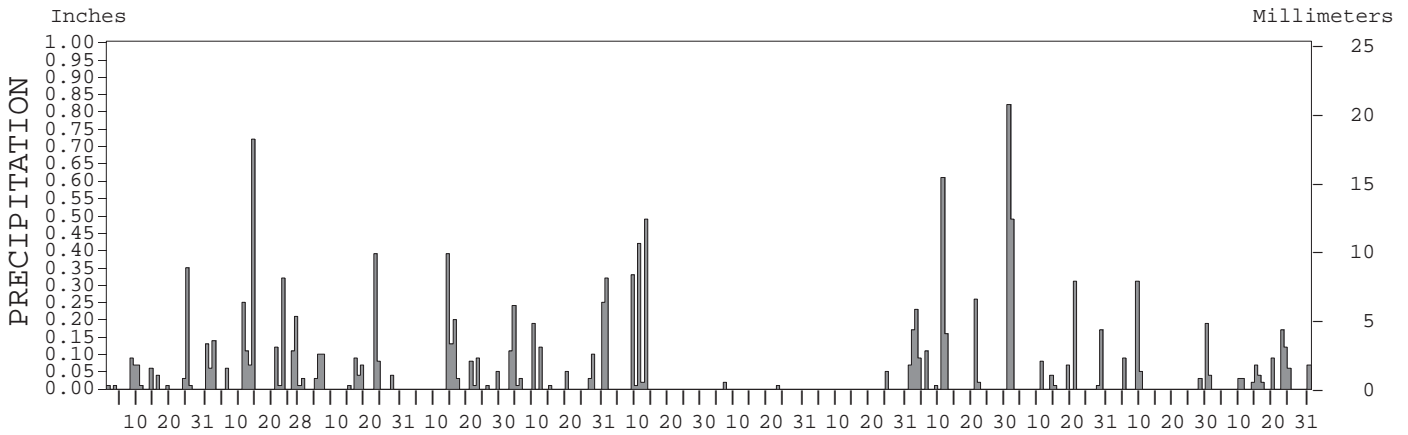
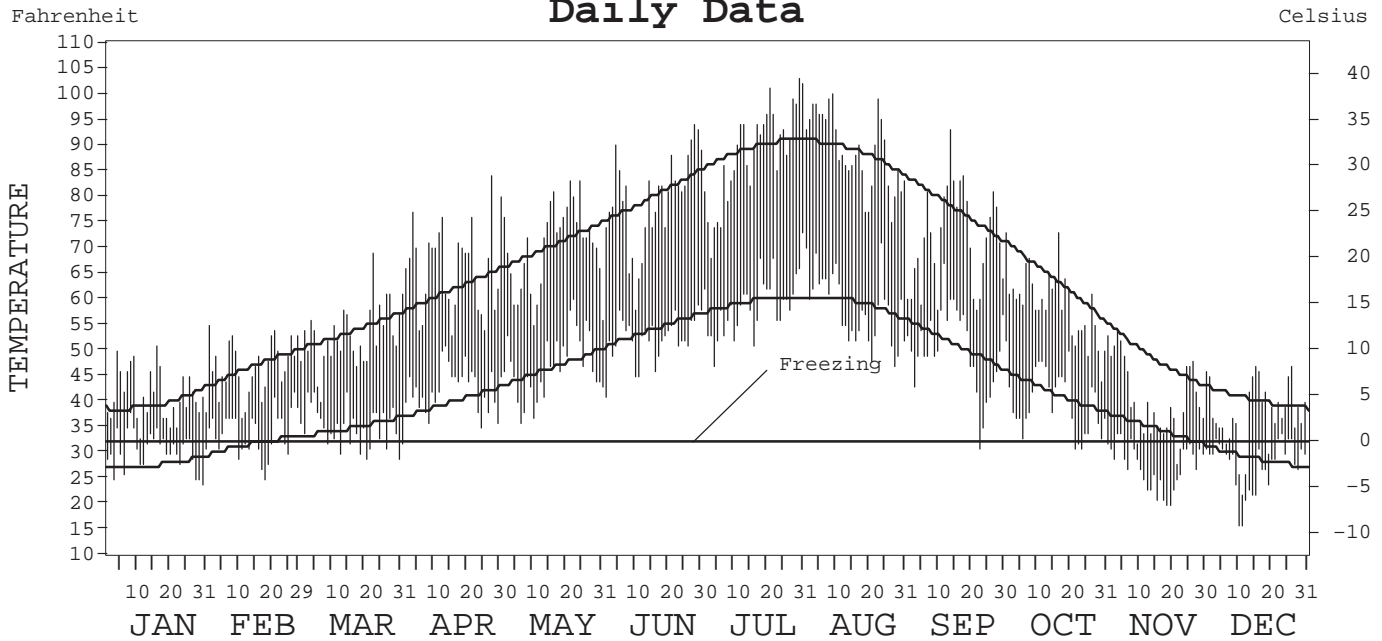
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1781

LEWISTON,
IDAHO (LWS)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2000

LEWISTON, ID (LWS)

LATITUDE: 46° 22' 29" N LONGITUDE: 117° 00' 52" W ELEVATION (FT): GRND: 1439 BARO: 1439 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	41.4	47.1	53.3	66.1	70.2	79.5	88.4	88.9	71.9	59.1	40.6	37.8	62.0	
	HIGHEST DAILY MAXIMUM	51	55	69	84	83	94	103	100	93	73	54	47	103	
	DATE OF OCCURRENCE	16	01	22	27	24+	28	30	09	14	17+	04	27+	JUL 30	
	MEAN DAILY MINIMUM	30.7	34.1	35.1	42.6	47.1	52.5	58.8	58.3	50.3	40.2	27.5	27.9	42.1	
	LOWEST DAILY MINIMUM	24	25	29	35	36	41	47	47	31	31	20	16	16	
	DATE OF OCCURRENCE	30	18	30+	24	06	01	04	28	23	24+	20+	12+	DEC 12+	
	AVERAGE DRY BULB	36.1	40.6	44.2	54.4	58.7	66.0	73.6	73.6	61.1	49.7	34.1	32.9	52.1	
	MEAN WET BULB		38.0			50.5	55.5	58.3				32.0	31.1		
	MEAN DEW POINT		35.0			42.9	46.6	45.9				28.6	28.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	4	16	15	1	0	0	0	0	36
	MAXIMUM ≤ 32°	0	0	0	0	0	0	0	0	0	0	3	5	8	
	MINIMUM ≤ 32°	21	12	9	0	0	0	0	0	1	3	27	26	99	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	889	699	637	313	203	51	10	3	157	470	919	987	5338	
	COOLING DEGREE DAYS	0	0	0	0	14	91	286	277	49	0	0	0	717	
RH	MEAN (PERCENT)	80	82	68	61	59	52	39	34	61	79	81	85	65	
	HOUR 04 LST	85	88	78	75	77	71	55	48	75	89	86	86	76	
	HOUR 10 LST	81	83	65	60	54	49	39	34	61	81	81	86	64	
	HOUR 16 LST	75	71	54	45	46	36	25	21	44	65	72	84	53	
	HOUR 22 LST	80	84	70	63	61	55	37	33	62	83	82	85	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	4	0	0	0	0	0	0	0	5	4	7	23	
	THUNDERSTORMS	0	0	0	1	1	0	0	1	1	1	0	0	5	
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.)		28.47	28.55		28.43	28.46	28.44	28.42	28.48	28.49	28.66	28.69		
	MEAN SEA-LEVEL PRESS. (IN.)		30.02			29.95	29.97	29.94				30.23	30.27		
WINDS	RESULTANT SPEED (MPH)		2.0	0.9		1.0	1.2	0.1	1.8	0.6		1.1			
	RES. DIR. (TENS OF DEGS.)		11	23		29	32	26	30	05		10			
	MEAN SPEED (MPH)	6.0	5.3	6.1	6.4	5.6	5.8	5.5	5.7	4.9	3.5	4.0	5.4	5.4	
	PREVAIL. DIR. (TENS OF DEGS.)	08	08	27	07	31	28	30	30	07	28	08	08	08	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	45	36	35	36	24	26	29	29	38	25	31	46	46	
	DIR. (TENS OF DEGS.)	25	21	26	26	29	26	30	29	26	23	25	26	26	
	DATE OF OCCURRENCE	09	01	19+	06+	11+	14	14	18	08	01	04	15	DEC 15	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	60	41	46	46	32	31	36	36	47	32	38	59	60	
DIR. (TENS OF DEGS.)	26	21	26	27	27	29	29	29	26	23	25	26	26		
DATE OF OCCURRENCE	09	01	18	04	11	18+	14	18	08	01	04	15	JAN 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.89	2.22	0.95	0.99	1.46	1.27	0.03	0.12	2.48	1.18	0.71	0.72	13.02	
	GREATEST 24-HOUR (IN.)	0.36	0.78	0.47	0.49	0.57	0.51	0.02	0.07	0.82	0.49	0.36	0.18	0.82	
	DATE OF OCCURRENCE	25-26	13-14	22-23	13-14	30-31	11-12	06	31	30	01	08-09	22-23	SEP 30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	13	14	10	9	12	5	2	2	10	8	6	11	102	
PRECIPITATION ≥ 0.10	2	8	3	3	7	3	0	0	7	3	2	2	40		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
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															

HEATING DEGREE DAYS (base 65°F) 2000 LEWISTON, ID (LWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	950	910	639	628	446	177	97	4952
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
1998-99	0	0	46	458	637	941	842	676	651	484	310	114	5159
1999-00	16	16	84	394	559	849	889	699	637	313	203	51	4710
2000-	10	3	157	470	919	987							

WBAN : 24149

COOLING DEGREE DAYS (base 65°F) 2000 LEWISTON, ID (LWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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		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
1999	0	0	0	0	16	87	236	345	64	0	0	0	748
2000	0	0	0	0	14	91	286	277	49	0	0	0	717

SNOWFALL (inches) 2000 LEWISTON, ID (LWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	T	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													
1998-99													
1999-00													
2000-													
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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2000 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										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
*NOTE: AIRPORT Administration Building Lewiston-Nez Perce County Airport New Administration Bldg Lewiston-Nez Perce County Airport + + Lewiston - Nez Perce County Regional Airport effective 12/1/68. Lewiston-Nez Perce AP	11/18/46 9/7/51 07/01/95	9/7/51 07/01/95 Present	2 mi. S 30 ft. N NA	46°23' 46°23' 46°22'	117°01' 117°01' 117°01'	1413 1413 1439	23 b20 	4 4 	4 4 	4 d30 	4 d29 	a5 f28	c3 d26	e6 g 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. g. RAMOS installed 11/6/80. ASOS Commissioned 07/01/95		

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* NOTES: For earlier station history see previous editions.