

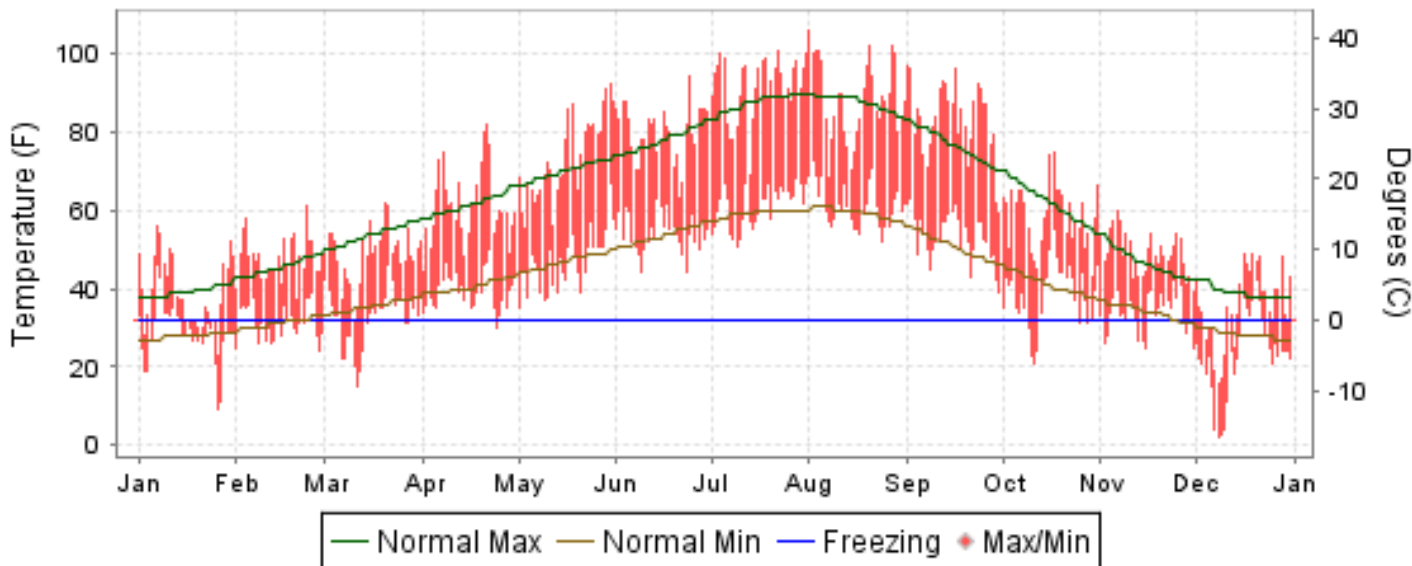


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

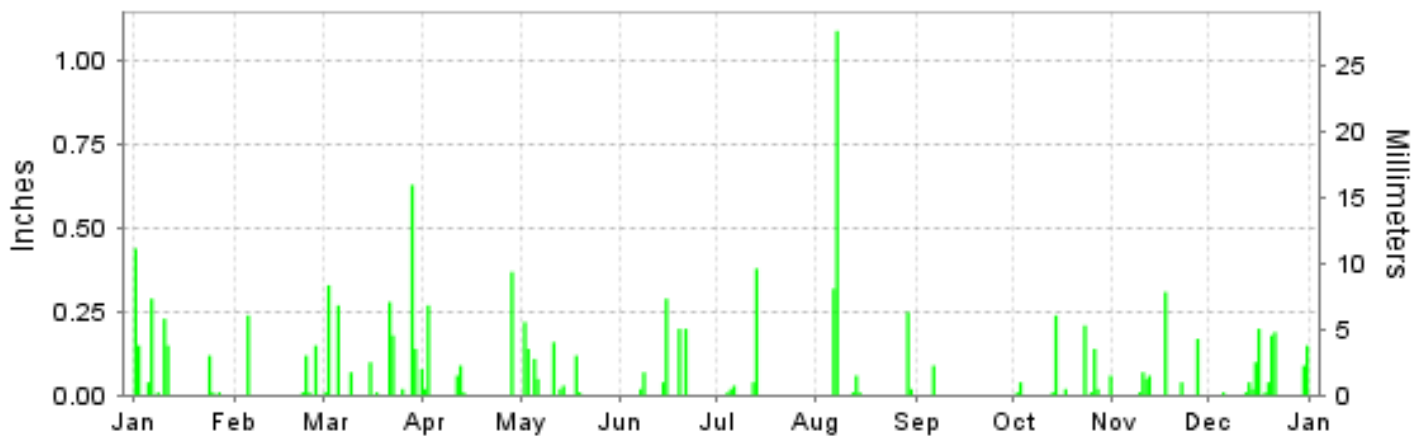
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## LEWISTON, IDAHO (KLWS)

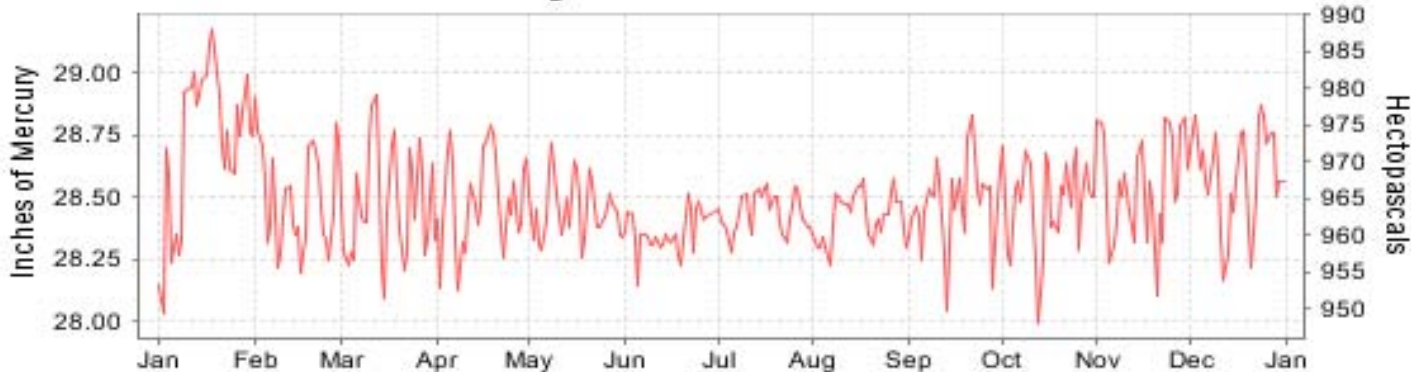
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

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**HEATING DEGREE DAYS (base 65°F) 2009 LEWISTON (KLWS)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1998-99	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
2000-01	10	3	157	470	919	987	949	779	611	491	200	112	5688
2001-02	2	0	31	403	616	928	865	724	745	451	260	72	5097
2002-03	0	10	94	531	694	824	771	749	578	449	261	27	4988
2003-04	0	0	65	308	783	874	954	711	486	321	197	58	4757
2004-05	0	3	74	354	685	833	830	718	526	371	154	82	4630
2005-06	0	0	99	340	733	1019	700	762	622	382	178	15	4850
2006-07	0	10	89	435	658	905	1045	704	501	396	159	51	4953
2007-08	0	7	96	388	748	889	986	680	698	531	168	88	5279
2008-09	0	6	50	386	611	1066	956	704	746	433	196	33	5187
2009-	2	3	48	503	702	1097							

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**COOLING DEGREE DAYS (base 65°F) 2009 LEWISTON (KLWS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2001	0	0	0	1	58	72	275	362	131	1	0	0	900
2002	0	0	0	0	13	139	382	187	77	0	0	0	798
2003	0	0	0	0	32	135	437	334	117	14	0	0	1069
2004	0	0	0	0	3	151	399	342	36	1	0	0	932
2005	0	0	0	0	26	71	369	324	45	0	0	0	835
2006	0	0	0	0	71	127	450	296	108	0	0	0	1052
2007	0	0	0	0	27	127	483	280	88	2	0	0	1007
2008	0	0	0	0	53	111	316	296	74	11	0	0	861
2009	0	0	0	0	55	104	360	314	151	0	0	0	984

## SNOWFALL (inches) 2009 LEWISTON (KLWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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		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													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-06						3.8	T	0.1	0.2	0.0	T	0.0	
2006-07	0.0	0.0	0.0	0.0	2.5	0.1	1.4	2.6	T	0.0	0.0	0.0	6.6
2007-08	0.0	0.0	0.0	0.0	3.3	3.2	7.0	T	T	T	0.0	0.0	13.5
2008-09	0.0	0.0	0.0	0.0	0.0	12.6	3.0	T	1.7	T	0.0	0.0	17.3
2009-	0.0	0.0	0.0	0.0	T	2.6							
POR= 61 YRS	T	0.0	0.0	0.1	1.5	3.6	4.9	2.1	1.1	T	T	0.0	13.3

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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 (1971 - 2000). 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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></p> <p><b>NOTE:</b> The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2009 LEWISTON IDAHO (KLWS)

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.

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