

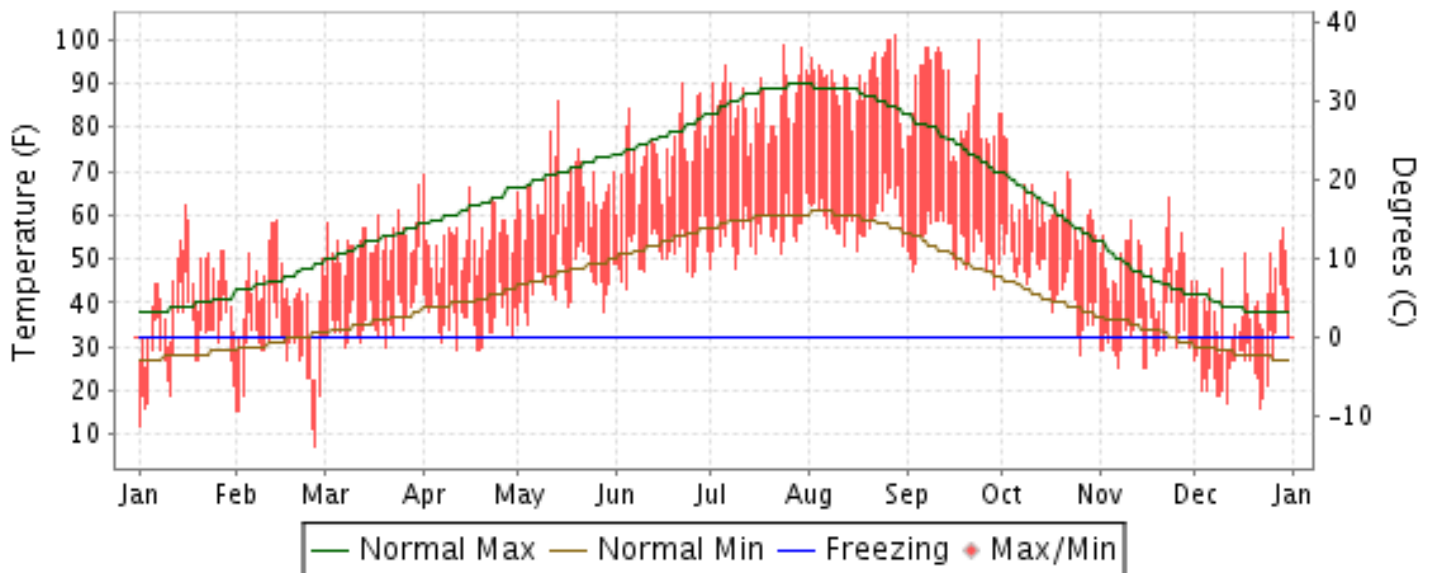


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

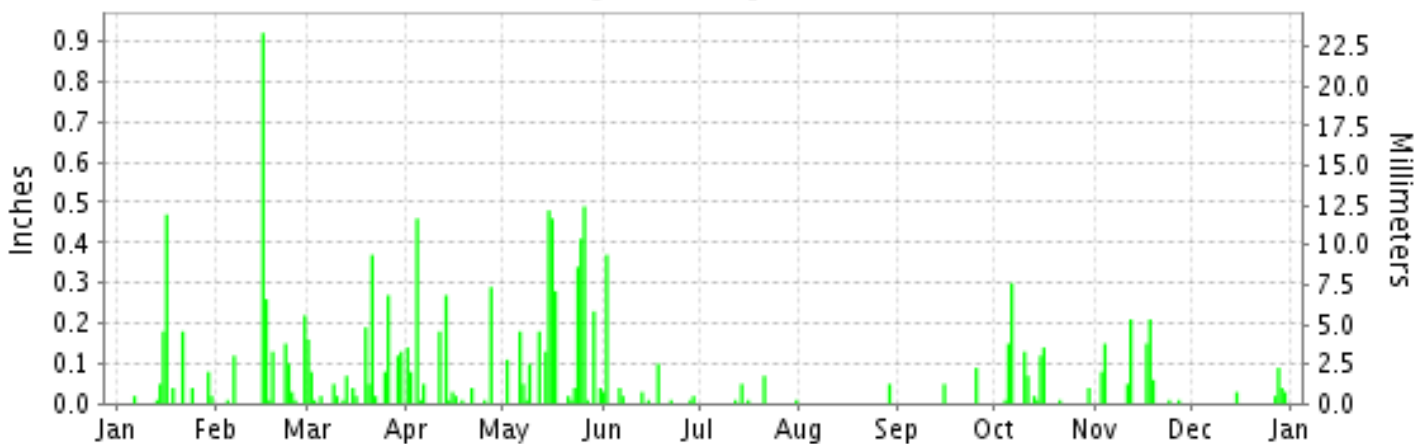
ISSN 0198-1781

## LEWISTON, IDAHO (KLWS)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## LEWISTON (KLWS)

LATITUDE: 46° 22'N      LONGITUDE: -117° 0'W      ELEVATION (FT): GRND: 1436 BARO: 1447      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	42.9	42.3	53.7	54.8	65.6	73.9	85.6	91.3	85.4	62.0	48.5	40.3	62.2	
	HIGHEST DAILY MAXIMUM	62	59	67	69	86	90	99	101	100	83	64	57	101	
	DATE OF OCCURRENCE	16	14	31	01	14	22	24	28	24	01	23	29	AUG 28	
	MEAN DAILY MINIMUM	30.7	27.9	36.1	36.6	44.7	51.9	56.1	59.7	53.5	44.5	32.3	26.3	41.7	
	LOWEST DAILY MINIMUM	12	7	30	29	35	43	48	52	43	28	25	16	7	
	DATE OF OCCURRENCE	01	26	20+	19+	01+	04	09+	16	29	26	16+	22	FEB 26	
	AVERAGE DRY BULB	36.8	35.1	44.9	45.7	55.2	62.9	70.9	75.5	69.5	53.3	40.4	33.3	52.0	
	MEAN WET BULB	33.5	31.3	39.6	39.9	48.0	53.8	57.3	57.2	53.1	47.1	36.0	30.6	44.0	
	MEAN DEW POINT	27.6	25.3	33.2	31.7	41.1	45.9	45.9	41.5	38.5	40.9	29.9	25.8	35.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	1	10	23	13	0	0	0	47	
MAXIMUM <= 32°	6	5	0	0	0	0	0	0	0	0	0	5	16		
MINIMUM <= 32°	15	22	9	6	0	0	0	0	0	2	17	26	97		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	867	831	617	568	304	97	1	1	22	366	730	976	5380	
	COOLING DEGREE DAYS	0	0	0	0	6	41	189	336	162	8	0	0	742	
RH	MEAN (PERCENT)	69	70	67	60	62	57	44	32	37	67	68	76	59	
	HOUR 04 LST	74	76	77	72	77	75	68	51	56	79	77	82	72	
	HOUR 10 LST	67	65	61	51	53	48	35	26	32	59	62	71	53	
	HOUR 16 LST	67	62	56	47	50	44	27	18	21	55	62	72	48	
	HOUR 22 LST	72	73	72	66	72	64	48	33	38	72	75	78	64	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	5	1	2	0	0	0	0	0	2	1	7	22	
	THUNDERSTORMS	0	0	0	1	3	3	2	1	0	0	0	0	10	
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.)	28.64	28.51	28.38	28.45	28.40	28.38	28.40	28.39	28.48	28.51	28.48	28.74	28.48	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.08	29.92	29.99	29.92	29.90	29.90	29.88	29.98	30.05	30.04	30.32	30.02	
WINDS	RESULTANT SPEED (MPH)	3.2	1.8	1.8	2.1	0.6	0.5	1.4	1.3	0.4	0.4	0.9	1.4	0.7	
	RES. DIR. (TENS OF DEGS.)	18	20	14	26	24	23	34	32	34	23	20	18	22	
	MEAN SPEED (MPH)	6.8	5.5	6.0	6.6	5.3	5.0	4.5	4.3	3.9	4.0	6.0	4.3	5.2	
	PREVAIL.DIR.(TENS OF DEGS.)	19	18	09	29	18	06	32	30	30	29	08	15	19	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	33	33	32	37	33	33	30	30	26	37	38	38	
	DIR. (TENS OF DEGS.)	25	27	25	25	29	18	29	32	31	26	26	26	26	
	DATE OF OCCURRENCE	16	12	31	05	11	22	19	10	25	11	14	29	DEC 29	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	41	43	51	43	47	44	43	85	44	36	52	48	85	
DIR. (TENS OF DEGS.)	18	27	21	27	29	33	28	33	33	27	26	25	33		
DATE OF OCCURRENCE	12	07	10	02	11	15	19	03	02	11	14	29	AUG 03		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.09	1.96	1.71	1.60	3.57	0.64	0.15	0.05	0.14	1.00	0.93	0.21	13.05	
	GREATEST 24-HOUR (IN.)	0.65	1.04	0.42	0.47	0.93	0.40	0.07	0.05	0.09	0.43	0.24	0.10	1.04	
	DATE OF OCCURRENCE	15-16	15-16	20-21	04-05	15-16	01-02	21	29	25	05-06	17-18	27-28	FEB 15-16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	10	11	18	14	19	10	5	1	2	11	9	5	115	
PRECIPITATION 0.10	3	7	6	5	12	2	0	0	0	5	4	0	44		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.1	7.7	0.4	0.0	T	0.0	0.0	0.0	0.0	0.0	1.0	0.5	9.7	
	GREATEST 24-HOUR (IN.)	0.1	3.2	0.4	0.0	T	0.0	0.0	0.0	0.0	0.0	1.0	0.5	3.2	
	DATE OF OCCURRENCE	09	22	01		17						19	15	FEB 22	
	MAXIMUM SNOW DEPTH (IN.)	0	3	T	0	0	0	0	0	0	0	T	T	3	
	DATE OF OCCURRENCE		22	01								19+	15+	FEB 22	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	4	0	0	0	0	0	0	0	0	1	0	5		

# NORMALS, MEANS, AND EXTREMES LEWISTON (KLWS)

LATITUDE: 46° 22'N      LONGITUDE: -117° 0'W      ELEVATION (FT): GRND: 1436 BARO: 1447      TIME ZONE: PACIFIC (UTC -8)      WBAN: 24149

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.4	45.6	53.8	61.6	70.0	78.0	87.6	87.6	76.7	62.0	46.8	39.2	62.4
	MEAN DAILY MAXIMUM	64	39.7	46.3	53.7	61.9	70.7	78.7	89.2	88.0	78.1	62.8	48.0	40.5	63.1
	HIGHEST DAILY MAXIMUM	65	66	72	78	97	100	107	110	115	103	89	77	65	115
	YEAR OF OCCURRENCE		1953	1986	2004	2003	1983	1973	2002	1961	1950	1987	1999	2002	AUG 1961
	MEAN OF EXTREME MAXS.	64	54.5	59.4	68.2	78.6	89.0	95.4	102.8	102.1	94.0	79.8	62.5	55.3	78.5
	NORMAL DAILY MINIMUM	30	28.0	31.2	35.6	40.6	47.0	53.6	59.3	59.3	50.9	41.2	34.1	28.5	42.4
	MEAN DAILY MINIMUM	64	27.1	30.6	34.4	39.5	46.5	53.1	59.0	58.3	50.5	40.9	33.5	28.5	41.8
	LOWEST DAILY MINIMUM	65	-22	-15	2	20	23	34	41	41	28	15	-3	-22	-22
	YEAR OF OCCURRENCE		1950	1950	1955	1966	1954	1951	1955	1992	1965	2002	1955	1968	DEC 1968
	MEAN OF EXTREME MINS.	64	9.3	16.0	23.3	29.5	35.2	43.1	48.8	48.3	39.0	28.6	20.2	12.0	29.4
	NORMAL DRY BULB	30	33.7	38.4	44.7	51.1	58.5	65.8	73.5	73.4	63.8	51.6	40.4	33.9	52.4
	MEAN DRY BULB	64	33.4	38.5	44.1	50.7	58.6	66.0	74.1	73.2	64.3	51.9	40.8	34.5	52.5
	MEAN WET BULB	28	31.5	33.5	38.7	43.0	48.7	54.0	56.3	55.1	50.3	43.7	36.4	30.3	43.5
	MEAN DEW POINT	28	28.4	29.8	33.8	37.9	43.3	47.3	49.0	47.2	43.6	38.3	33.0	27.4	38.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.2	4.8	15.3	15.4	3.6	0.0	0.0	0.0	0.0
	MAXIMUM <= 32	30	6.5	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	5.6	0.0
	MINIMUM <= 32	30	19.4	14.5	9.1	2.8	0.1	0.0	0.0	0.0	0.1	2.6	11.3	20.6	0.0
MINIMUM <= 0	30	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.0	
H/C	NORMAL HEATING DEG. DAYS	30	962	742	616	411	218	71	10	10	104	403	722	951	
	NORMAL COOLING DEG. DAYS	30	0	0	0	3	29	105	283	285	84	3	0	0	
RH	NORMAL (PERCENT)	30													
	hour 04 LST	30													
	hour 10 LST	30													
	hour 16 LST	30													
	hour 22 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	29	4.2	2.6	1.1	0.3	0.2	0.1	0.0	0.0	0.1	1.3	2.9	4.2	17.0
	THUNDERSTORMS	34	0.0	0.1	0.2	0.8	1.6	2.4	2.4	1.6	0.8	0.3	0.0	0.0	10.2
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)				7.2		7.2	4.0							
	MIDNIGHT-MIDNIGHT (OKTAS)						7.2	4.0			3.2				
	MEAN NO. DAYS WITH: CLEAR	1	1.0	3.0	4.0		4.0	9.0							
	PARTLY CLOUDY			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)	28	28.58	28.54	28.49	28.46	28.43	28.43	28.43	28.43	28.47	28.53	28.54	28.59	28.49
	MEAN SEA-LEVEL PRES. (IN)	28	30.14	30.10	30.03	29.99	29.95	29.93	29.93	29.92	29.98	30.06	30.10	30.16	30.02
WINDS	MEAN SPEED (MPH)	28	6.6	5.9	6.5	6.6	6.2	6.1	5.9	5.7	5.0	5.1	6.0	6.2	6.0
	PREVAIL.DIR(TENS OF DEGS)	17	19	08	08	30	31	31	31	31	31	08	08	08	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	45	45	44	45	45	43	51	37	38	49	48	46	51
	DIR. (TENS OF DEGS)		25	25	27	26	25	29	26	21	26	25	30	26	26
	YEAR OF OCCURRENCE		2000	1999	1997	2004	2006	2001	1998	2009	2000	2001	2010	2008	JUL 1998
	MAXIMUM 3-SECOND SPEED (MPH)	16	60	59	55	54	52	53	63	85	47	58	63	59	85
	DIR. (TENS OF DEGS)		26	25	26	29	25	28	25	33	26	26	25	26	33
	YEAR OF OCCURRENCE		2000	2008	2004	2002	2006	2001	1998	2011	2000	2001	2010	2008	AUG 2011
PRECIPITATION	NORMAL (IN)	30	1.14	0.95	1.12	1.31	1.56	1.16	0.72	0.75	0.81	0.96	1.21	1.05	12.74
	MAXIMUM MONTHLY (IN)	65	3.55	2.22	2.70	3.29	4.80	4.70	2.60	2.96	2.48	2.79	2.79	3.28	4.80
	YEAR OF OCCURRENCE		1970	2000	1972	1978	1948	1950	1987	1989	2000	1950	1973	1964	MAY 1948
	MINIMUM MONTHLY (IN)	65	0.11	0.17	0.25	0.05	0.27	0.23	T	T	T	T	0.23	0.14	0.05
	YEAR OF OCCURRENCE		2007	1988	1969	1956	1964	2003	1953	1969	1975	1987	1976	1970	APR 1956
	MAXIMUM IN 24 HOURS (IN)	65	1.35	1.04	0.95	1.06	1.63	1.72	1.90	1.64	1.73	1.19	1.44	1.12	1.90
	YEAR OF OCCURRENCE		1956	2011	2003	1978	1948	1950	1998	1989	1955	1950	1996	1958	JUL 1998
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.8	9.7	11.0	10.3	10.0	8.7	5.7	4.5	5.5	7.1	11.2	10.6	105.1
	PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.0	0.1	*	*	0.1	0.0	*	*	0.0	0.2
SNOWFALL	NORMAL (IN)	30	3.9	2.4	0.7	0.1	0.*	0.0	0.0	0.0	0.0	0.1	1.8	3.5	12.5
	MAXIMUM MONTHLY (IN)	55	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	2011		1991			1971	1961	1968	JAN 1957
	MAXIMUM IN 24 HOURS (IN)	55	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	2011		1991			1971	1961	1968	JAN 1966
	MAXIMUM SNOW DEPTH (IN)	54	16	9	5	0	0	0	0	0	0	1	10	8	16
	YEAR OF OCCURRENCE		1957	1969	1989							1971	1961	2008	JAN 1957
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.6	1.3	4.3

**PRECIPITATION (inches) 2011 LEWISTON (KLWS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	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	.11	.07	.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
1999	0.58	1.30	1.02	0.71	1.31	1.50	0.20	1.06	T	1.23	1.62	1.14	11.67
2000	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
2001	0.98	0.66	0.85	1.65	0.60	1.12	0.59	0.14	0.19	1.86	1.23	0.64	10.51
2002	0.81	0.96	1.44	0.79	0.57	1.45	0.15	1.38	0.38	0.77	0.74	0.68	10.12
2003	3.01	0.68	2.26	1.56	2.10	0.23	0.31	0.39	1.06	0.29	0.37	1.78	14.04
2004	0.92	0.72	0.44	1.34	3.12	1.14	0.29	1.81	0.33	1.42	1.00	0.86	13.39
2005	0.31	0.19	1.05	1.53	3.22	1.30	0.26	0.05	0.17	1.57	0.48	1.63	11.76
2006	1.11	0.25	0.94	2.25	1.65	1.45	0.21	0.18	0.66	0.42	2.41	0.96	12.49
2007	0.11	1.11	0.76	0.57	0.82	0.76	0.04	0.37	0.10	1.08	1.65	0.36	7.73
2008	0.75	0.42	0.72	0.53	0.95	0.69	0.23	0.82	0.75	0.39	0.90	1.60	8.75
2009	1.45	0.53	2.12	0.82	0.86	0.82	0.48	1.76	0.09	0.76	0.71	1.04	11.44
2010	1.82	0.49	0.99	1.55	1.88	2.73	0.16	0.24	0.70	1.20	1.03	1.70	14.49
2011	1.09	1.96	1.71	1.60	3.57	0.64	0.15	0.05	0.14	1.00	0.93	0.21	13.05
POR= 64 YRS	1.22	0.88	1.08	1.23	1.59	1.35	0.63	0.72	0.74	0.99	1.16	1.13	12.72

WBAN : 24149

**AVERAGE TEMPERATURE (°F) 2011 LEWISTON (KLWS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	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
1999	37.6	40.6	43.7	48.7	55.3	63.8	71.9	75.3	64.1	52.0	46.2	37.4	53.1
2000	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
2001	34.2	36.9	45.1	48.4	60.2	63.4	73.6	76.5	68.1	51.8	44.2	34.9	53.1
2002	36.9	38.9	40.8	49.8	56.8	67.0	77.1	70.5	64.2	47.7	41.6	38.1	52.5
2003	39.8	38.0	46.1	49.9	57.4	68.3	78.9	75.7	66.5	55.4	38.7	36.6	54.3
2004	34.0	40.3	49.2	54.0	58.6	67.9	77.6	75.8	63.5	53.4	41.9	37.9	54.5
2005	38.0	39.2	47.9	52.4	60.6	64.4	76.6	75.2	63.0	53.8	40.4	31.9	53.6
2006	42.2	37.5	44.7	52.0	61.3	68.6	79.3	74.0	65.4	50.7	42.8	35.6	54.5
2007	31.1	39.7	48.6	51.6	60.5	67.3	80.3	73.5	64.5	52.3	39.9	36.1	53.8
2008	33.0	41.3	42.2	47.1	61.0	65.5	75.0	74.1	65.5	52.7	44.4	30.4	52.7
2009	33.9	39.6	40.7	50.4	60.2	67.1	76.4	74.8	68.2	48.6	41.4	29.3	52.6
2010	41.0	42.6	45.9	51.0	54.9	63.5	73.7	73.1	65.2	53.6	38.5	35.6	53.2
2011	36.8	35.1	44.9	45.7	55.2	62.9	70.9	75.5	69.5	53.3	40.4	33.3	52.0
POR= 64 YRS	33.4	38.5	44.1	50.7	58.6	66.0	74.1	73.2	64.3	51.9	40.8	34.5	52.5

**HEATING DEGREE DAYS (base 65°F) 2011 LEWISTON (KLWS)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2009-10	2	3	48	503	702	1097	735	621	587	412	322	89	5121
2010-11	8	18	57	353	785	905	867	831	617	568	304	97	5410
2011-	1	1	22	366	730	976							

WBAN : 24149

**COOLING DEGREE DAYS (base 65°F) 2011 LEWISTON (KLWS)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2010	0	0	0	0	15	54	285	281	68	10	0	0	713
2011	0	0	0	0	6	41	189	336	162	8	0	0	742

**SNOWFALL (inches) 2011 LEWISTON (KLWS)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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						3.8	T	0.1	0.2	0.0	T	0.0	
2004-05													
2005-06													
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
2009-10	0.0	0.0	0.0	0.0	T	2.6	T	0.0	0.0	0.0	T	0.0	2.6
2010-11	0.0	0.0	0.0	0.0	6.7	4.7	0.1	7.7	0.4	0.0	T	0.0	19.6
2011-	0.0	0.0	0.0	0.0	1.0	0.5							
POR= 63 YRS	T	0.0	0.0	0.1	1.5	3.6	4.7	2.1	1.1	T	T	0.0	13.1

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 (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> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</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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# 2011 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.

# Station History

LEWISTON, ID

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
LEWISTON NEZ PERCE COUNTY AP	1986-03-19	1995-07-01	46° 22'	-117° 1'	1436		AIRWAYS, COOP, USHCN
LEWISTON NEZ PERCE COUNTY AP	1946-11-18	1948-01-01	46° 22'	-117° 1'			AIRWAYS
LEWISTON NEZ PERCE COUNTY AP	1948-01-01	1950-12-31	46° 22'	-117° 1'	1421		AIRWAYS, COOP, USHCN
LEWISTON NEZ PERCE COUNTY AP	1974-11-01	1986-03-19	46° 22'	-117° 1'	1413		AIRWAYS, COOP, USHCN
LEWISTON NEZ PERCE COUNTY AP	1995-07-01	2004-08-10	46° 22'	-117° 0'	1436	.2 MI SSW	ASOS, COOP, USHCN
LEWISTON NEZ PERCE COUNTY AP	2004-08-10	2006-07-31	46° 22'	-117° 0'	1436		ASOS, COOP, USHCN
NEZ PERCE COUNTY AP	1946-10-01	1946-11-18	46° 22'	-117° 1'			AIRWAYS
LEWISTON NEZ PERCE COUNTY AP	2006-07-31	Present	46° 22'	-117° 0'	1436		AIRSAMPLE, ASOS, COOP, USHCN

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	2004-08-10	DAILY	2400	TB	RCRD	
TEMP	1995-07-01	2004-08-10	DAILY	2400	HYGR		
TEMP	1976-09-01	1995-07-01	DAILY	2400			
TEMP	1946-10-01	1950-12-31	DAILY	2400			
PRECIP	1974-11-01	1976-09-01	DAILY	2400	UNIV	RCRD	
TEMP	1974-11-01	1976-09-01	DAILY	2400			
PRECIP	2004-08-10	Present	HOURLY	2400	AWPAG	RCRD;HTD	
TEMP	2004-08-10	Present	DAILY	2400	ATEMP		
PRECIP	1946-10-01	1950-12-31	DAILY	2400	UNIV	RCRD	
PRECIP	1976-09-01	1995-07-01	HOURLY	2400	UNIV	RCRD	
PRECIP	1976-09-01	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	2004-08-10	HOURLY	2400	TB	RCRD	
PRECIP	2004-08-10	Present	DAILY	2400	PCPNX		

\* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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