

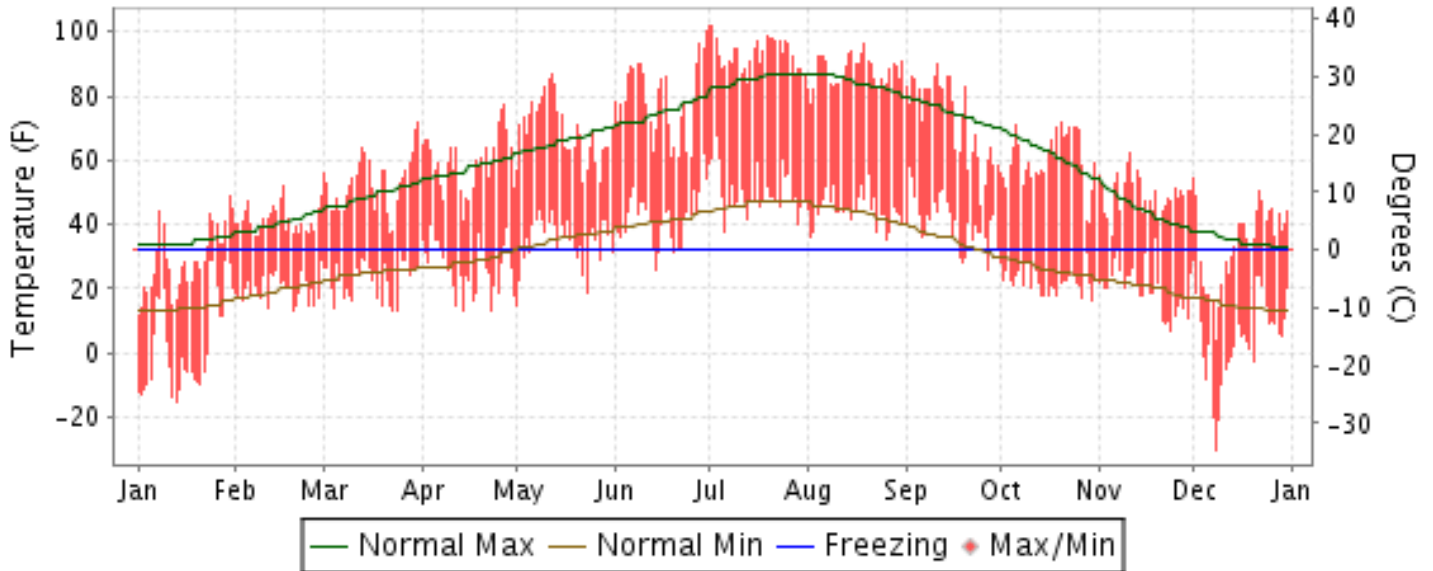


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

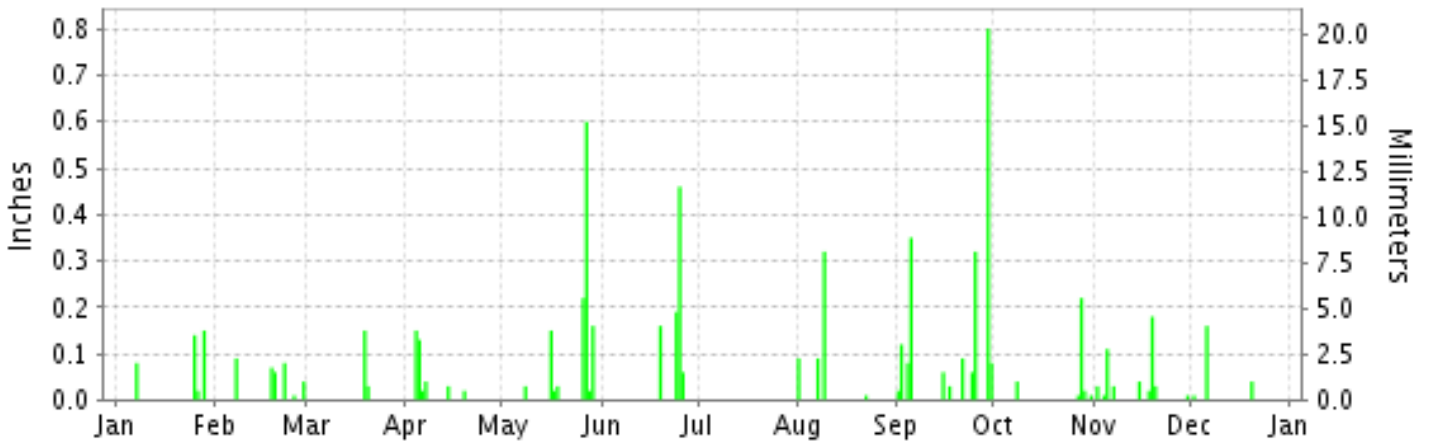
ISSN 0198-411X

## BURNS, OREGON (KBNO)

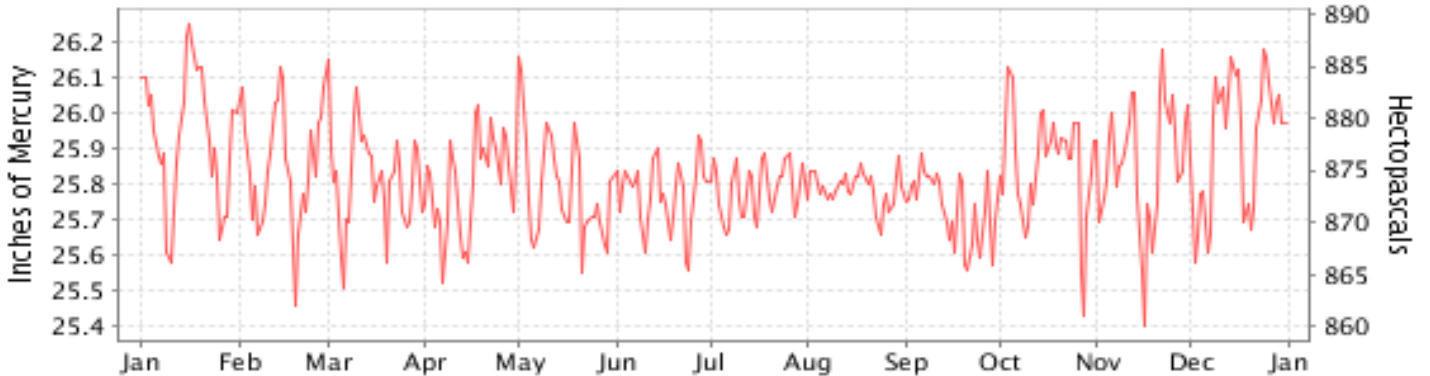
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## BURNS (KBNO)

LATITUDE: 43° 35'N      LONGITUDE: 118° 57'W      ELEVATION (FT): GRND: 4140 BARO: 4148      TIME ZONE: PACIFIC (UTC -8)      WBAN: 94185

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	29.0	41.4	52.8	59.5	69.4	78.6	93.1	87.6	73.0	59.9	49.2	33.9	60.6	
	HIGHEST DAILY MAXIMUM	49	52	72	77	87	100	102	96	90	72	62	54	102	
	DATE OF OCCURRENCE	30	16	31	27	12	30	02+	19	11	20	11	01	JUL 02+	
	MEAN DAILY MINIMUM	3.1	20.0	23.0	26.5	35.1	42.0	50.4	44.8	40.8	22.6	20.2	4.5	27.8	
	LOWEST DAILY MINIMUM	-15	13	13	13	15	26	38	35	26	16	7	-30	-30	
	DATE OF OCCURRENCE	13	19	24+	23+	01	14	06	26	27	30	24	08	DEC 08	
	AVERAGE DRY BULB	16.1	30.7	37.9	43.0	52.3	60.3	71.7	66.2	56.9	41.3	34.7	19.2	44.2	
	MEAN WET BULB	14.0	27.5	32.4	35.9	43.5	49.5	53.0	52.3	48.8	34.4	30.1	17.4	36.6	
	MEAN DEW POINT	10.7	23.2	24.5	25.3	32.8	38.3	33.6	39.5	41.5	27.3	25.0	13.4	27.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	6	22	14	1	0	0	0	0	43
	MAXIMUM <= 32°	20	0	0	0	0	0	0	0	0	0	0	12	32	
MINIMUM <= 32°	31	28	30	22	9	4	0	0	5	31	29	31	220		
MINIMUM <= 0°	18	0	0	0	0	0	0	0	0	0	0	10	28		
H/C	HEATING DEGREE DAYS	1510	957	832	652	391	188	4	32	256	729	902	1410	7863	
	COOLING DEGREE DAYS	0	0	0	0	1	54	220	76	21	0	0	0	372	
RH	MEAN (PERCENT)	81	77	63	54	52	49	27	43	63	66	75	79	61	
	HOUR 04 LST	85	86	84	79	80	76	52	74	85	89	88	88	81	
	HOUR 10 LST	76	68	45	41	37	34	17	27	46	47	60	71	47	
	HOUR 16 LST	78	67	40	31	32	28	12	20	44	46	65	75	45	
	HOUR 22 LST	86	84	77	67	67	64	33	51	74	79	86	85	71	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	2	2	1	0	1	0	1	0	1	4	2	20	
	THUNDERSTORMS	0	0	0	0	0	0	0	4	3	0	0	0	7	
PR	MEAN STATION PRESS. (IN.)	25.94	25.86	25.82	25.81	25.79	25.77	25.79	25.79	25.73	25.85	25.87	25.93	25.83	
	MEAN SEA-LEVEL PRESS. (IN.)	30.38	30.20	30.11	30.07	30.01	29.95	29.92	29.95	29.92	30.14	30.19	30.34	30.10	
WINDS	RESULTANT SPEED (MPH)	2.2	3.2	2.3	6.8	3.6	4.2	3.9	3.1	2.2	3.1	2.5	2.4	3.2	
	RES. DIR. (TENS OF DEGS.)	26	27	27	27	27	26	26	25	26	29	26	27	27	
	MEAN SPEED (MPH)	3.4	5.4	6.6	9.5	7.6	7.4	6.9	6.2	7.0	5.4	5.1	4.7	6.3	
	PREVAIL.DIR.(TENS OF DEGS.)	26	27	26	28	27	27	27	27	26	28	26	27	27	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	37	39	41	37	32	39	43	35	35	32	37	43	
	DIR. (TENS OF DEGS.)	29	27	26	25	23	20	19	19	21	29	27	23	19	
	DATE OF OCCURRENCE	09	22	20	07	13	30	11	22	04	27	16	02	AUG 22	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	39	51	51	49	45	41	51	56	46	43	40	48	56	
DIR. (TENS OF DEGS.)	29	27	19	25	23	20	19	18	24	29	25	22	18		
DATE OF OCCURRENCE	09	22	06	07	13	30	11	22	24	27	16	02	AUG 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.39	0.35	0.18	0.39	1.23	0.87	T	0.51	2.01	0.30	0.46	0.21	6.90	
	GREATEST 24-HOUR (IN.)	0.15	0.13	0.18	0.26	0.62	0.50	T	0.32	0.87	0.24	0.18	0.16	0.87	
	DATE OF OCCURRENCE	28	18-19	19-20	04-05	27-28	25-26	29+	09	29-30	28-29	19	06	SEP 29-30	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	6	2	6	8	4	0	4	11	5	9	3	62	
PRECIPITATION 0.10	2	0	1	2	4	3	0	1	4	1	2	1	21		
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															

# NORMALS, MEANS, AND EXTREMES BURNS (KBNO)

LATITUDE:  
43° 35'N

LONGITUDE:  
118° 57'W

ELEVATION (FT):  
GRND: 4140 BARO: 4148

TIME ZONE:  
PACIFIC (UTC -8)

WBAN: 94185

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	34.8	39.3	49.3	57.1	66.1	75.0	85.9	84.8	75.5	61.8	45.1	34.3	59.1
	MEAN DAILY MAXIMUM	30	34.4	39.2	49.2	56.7	66.1	74.6	86.1	85.0	75.5	61.7	45.0	34.6	59.0
	HIGHEST DAILY MAXIMUM	29	57	67	74	84	94	100	107	100	97	91	71	57	107
	YEAR OF OCCURRENCE		2003	1995	2004	1987	1986	2013	2002	2009	1998	2010	2012	1993	JUL 2002
	MEAN OF EXTREME MAXS.	44	47.0	51.3	64.8	75.5	84.8	90.7	97.3	96.3	90.2	79.3	62.0	48.4	74.0
	NORMAL DAILY MINIMUM	30	14.8	18.2	25.4	29.2	36.4	41.8	47.4	44.9	36.3	27.5	21.5	14.0	29.8
	MEAN DAILY MINIMUM	30	14.5	18.5	25.4	29.0	36.4	41.3	47.4	44.7	36.4	27.5	21.7	14.0	29.7
	LOWEST DAILY MINIMUM	29	-27	-28	-14	10	13	21	25	22	17	-7	-15	-30	-30
	YEAR OF OCCURRENCE		1982	1985	1993	2010	2008	1996	1986	1999	1999	2002	2006	2013	DEC 2013
	MEAN OF EXTREME MINS.	44	-5.9	1.1	12.6	17.7	22.2	27.8	35.6	32.7	23.2	13.0	4.2	-6.4	14.8
	NORMAL DRY BULB	30	24.8	28.8	37.3	43.2	51.2	58.4	66.6	64.8	55.9	44.7	33.3	24.2	44.4
	MEAN DRY BULB	44	24.9	30.0	37.2	42.6	51.6	58.9	67.6	65.5	56.5	45.3	34.0	25.3	45.0
	MEAN WET BULB	26	22.7	26.1	31.6	35.0	41.4	46.6	49.9	47.5	41.5	35.4	29.3	22.6	35.8
	MEAN DEW POINT	26	21.5	24.3	28.4	31.1	36.8	40.9	43.6	41.1	36.3	30.7	26.9	21.3	31.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.0	0.2	1.1	10.8	8.6	1.1	0.0	0.0	0.0	21.8
	MAXIMUM <= 32	30	9.6	4.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.3	10.9	27.7
MINIMUM <= 32	30	29.7	26.4	26.8	19.5	8.2	2.0	0.3	0.6	8.0	22.6	26.4	29.7	200.2	
MINIMUM <= 0	30	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	3.7	9.5	
H/C	NORMAL HEATING DEG. DAYS	30	1246	1015	857	655	430	218	58	79	282	631	951	1266	7688
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	3	20	109	74	9	0	0	0	215
RH	NORMAL (PERCENT)	30													
	HOUR 04 LST	30													
	HOUR 10 LST	30		77	62	50	46	44	35	33	40	51	73		
	HOUR 16 LST	30		65	48	38	35				27				
	HOUR 22 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	26	6.2	2.9	0.9	0.6	0.2	0.3	0.1	0.1	0.2	1.1	2.8	5.3	20.7
	THUNDERSTORMS	26	0.0	0.0	0.1	0.2	0.5	0.7	0.4	0.8	0.2	0.0	0.0	0.0	2.9
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	26	25.98	25.78	25.76	25.75	25.76	25.77	25.81	25.81	25.81	25.83	25.82	25.83	25.81
	MEAN SEA-LEVEL PRES. (IN)	26	30.22	30.11	30.05	30.01	29.97	29.96	29.96	29.97	30.01	30.09	30.14	30.19	30.06
WINDS	MEAN SPEED (MPH)	26	4.8	5.8	7.1	8.2	7.8	7.2	6.6	6.3	6.1	5.9	5.5	5.0	6.4
	PREVAIL.DIR(TENS OF DEGS)	20	27	08	27	30	31	30	30	30	30	31	27	27	31
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	44	40	51	47	41	35	44	43	41	41	39	40	51
	DIR. (TENS OF DEGS)		26	24	19	25	24	24	18	19	32	27	20	25	19
	YEAR OF OCCURRENCE		2004	2000	2010	2010	2010	2006	2002	2013	2003	2004	2009	2000	MAR 2010
	MAXIMUM 3-SECOND SPEED (MPH)	18	51	51	61	56	53	45	52	59	52	54	51	51	61
	DIR. (TENS OF DEGS)		26	27	21	25	25	22	13	11	31	28	19	25	21
YEAR OF OCCURRENCE		2004	2013	2010	2010	2010	1997	2006	2006	2003	2009	2009	2011	MAR 2010	
PRECIPITATION	NORMAL (IN)	30	1.19	1.02	1.09	0.93	1.23	0.76	0.40	0.36	0.44	0.78	1.17	1.55	10.92
	MAXIMUM MONTHLY (IN)	29	2.84	3.50	3.66	2.21	3.26	3.05	1.22	1.16	2.13	1.72	2.73	4.45	4.45
	YEAR OF OCCURRENCE		1995	1986	1983	1993	2005	1992	1987	1984	1986	2000	1984	2005	DEC 2005
	MINIMUM MONTHLY (IN)	29	0.09	0.12	0.18	0.12	0.10	0.11	T	0.00	0.00	0.03	0.23	0.21	0.00
	YEAR OF OCCURRENCE		1985	1997	2013	1986	1992	1985	2013	1994	1999	1998	1993	2013	SEP 1999
	MAXIMUM IN 24 HOURS (IN)	29	0.71	1.04	0.99	0.85	1.07	1.15	0.89	1.01	0.92	1.00	0.69	5.31	5.31
	YEAR OF OCCURRENCE		2012	1986	1996	2012	2009	1992	1985	1984	2000	2010	1981	1995	DEC 1995
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.5	9.8	11.0	9.3	9.1	5.8	2.9	3.2	3.5	6.0	11.1	11.4	93.6
PRECIPITATION >= 1.00	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	
SNOWFALL	NORMAL (IN)	30	5.6	6.7	3.8	0.7	0.2	0.0	0.0	0.0	0.0	0.4	6.0	10.6	34.0
	MAXIMUM MONTHLY (IN)	11	23.7	27.6	13.5	3.2	1.4	0.6	0.0	0.0	T	3.6	17.4	26.8	27.6
	YEAR OF OCCURRENCE		1993	1986	1985	1982	1983	1981			1986	1984	1983	1983	FEB 1986
	MAXIMUM IN 24 HOURS (IN)	11	6.2	8.5	6.4	1.7	0.9	0.6	0.0	0.0	T	5.0	7.0	6.5	8.5
	YEAR OF OCCURRENCE		1987	1986	1985	1980	1986	1981			1986	1991	1983	1981	FEB 1986
	MAXIMUM SNOW DEPTH (IN)	24	23	26	26	4	0	0	0	0	0	5	8	18	26
	YEAR OF OCCURRENCE		1993	1993	1993	1999						1991	1985	2008	MAR 1993
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.5	2.2	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.2	2.3	3.5	12.0	

**PRECIPITATION (inches) 2013 BURNS (KBNO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	1.04	2.13	3.66	1.10	1.54	0.31	1.09	0.70	0.06	1.08	2.44	3.09	18.24
1984	0.21	0.76	1.71	0.80	1.04	0.88	0.49	1.16	0.05	1.02	2.73	0.87	11.72
1985	0.09	0.49	1.03	0.34	1.37	0.11	0.92	0.09	1.12	0.81	0.97	0.73	8.07
1986	1.41	3.50	1.33	0.12	0.53	0.26	0.37	0.04	2.13	0.34	0.30	0.28	10.61
1987	1.30	1.00	1.54	0.75	0.56	1.50	1.22	0.16					
1988													
1989													
1991					1.91	0.73	T	0.38	0.06	1.10	1.07	0.28	
1992	0.18	1.03	0.49	0.66	0.10	3.05	0.30	0.34	0.09	1.39	0.90	1.71	10.24
1993	2.08	1.17	1.41	2.21	0.93	0.70	0.55	0.51	0.03	0.87	0.23	0.95	11.64
1994	0.39	0.74	0.37	0.51	1.23	0.52	T	0.00	0.23	0.34	1.50	0.68	6.51
1995	2.84	0.47	1.68	1.39				0.83	T	0.21	0.65	2.53	
1996	1.85		1.50		1.69	0.66		0.34	0.72	0.92	1.13	3.07	
1997	2.46	0.12	0.23	1.03	1.47	0.29	0.68	0.17	0.61	0.68	1.08	0.63	9.45
1998	2.29	2.89	1.35	1.03	2.84	1.04	0.31	0.01	1.03	0.03	2.28	1.10	16.20
1999	1.65	1.94	0.72	0.32	0.42	0.20	0.08	0.56	0.00	0.37	0.44	0.57	7.27
2000	1.63	1.89	0.77	0.80	0.28	0.18	0.96	T	1.16	1.72	0.63	0.47	10.49
2001	0.33	0.39	0.64	0.53	0.63	0.71	1.07	T	0.95	0.61	1.42	1.05	8.33
2002	0.88	0.39	0.32	1.00	0.46	0.40	0.07	0.07	0.05	0.05	0.27	1.97	5.93
2003	1.24	0.14	1.45	1.55	1.16	0.11	0.50	0.26	0.60	0.12	1.06	1.56	9.75
2004	1.46	1.26	0.37	0.52	1.22	0.47	0.16	0.91	0.27	1.67	0.38	1.80	10.49
2005	0.60	0.39	1.24	1.69	3.26	0.73	0.65	T	0.17	1.04	2.16	4.45	16.38
2006	2.13	0.35	1.05	1.32	2.29	0.72	0.66	0.11	0.33	0.77	1.31	1.38	12.42
2007	0.14	1.58	0.41	1.27	0.30	0.80	0.01	0.57	0.25	0.91	1.18	1.32	8.74
2008	1.52	0.83	0.55	0.31	1.07	0.34	0.19	0.16	0.09	0.67	0.79	1.63	8.15
2009	0.41	0.67	0.57	0.56	2.55	2.70	0.08	0.32	0.07	1.07	0.52	1.46	10.98
2010	2.04	1.45	0.66	1.14	0.95	1.22	0.01	0.51	0.14	1.66	1.70	3.64	15.12
2011	0.68	0.78	2.12	0.91	2.52	1.07	0.10	0.09	0.05	1.34	0.48	0.35	10.49
2012	2.37	0.15	1.14	1.71	0.58	0.45	0.03	T	T	0.77	1.88	1.73	10.81
2013	0.39	0.35	0.18	0.39	1.23	0.87	T	0.51	2.01	0.30	0.46	0.21	6.90
POR= 44 YRS	1.48	1.05	1.12	0.83	1.09	0.69	0.36	0.38	0.46	0.78	1.26	1.61	11.11

WBAN : 94185

**AVERAGE TEMPERATURE (°F) 2013 BURNS (KBNO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1983	28.7	33.4	39.1	40.9	51.6	55.0	61.1	64.6	53.9	47.2	35.7	21.7	44.4
1984	17.0	23.1	35.8	40.7	50.0	54.5	67.0	64.9	52.7	39.7	33.6	19.0	41.5
1985	16.9	23.0	31.3	46.3	51.1	59.1	70.7	61.4	48.9	41.8	20.9	11.9	40.3
1986	27.4	33.5	42.3	42.6	51.8	63.1	61.6	69.3	50.8	46.9	36.3	26.7	46.0
1987	19.8	32.7	38.8	49.0	54.1	61.1	63.2	65.1					
1988													
1989													
1991					47.8	54.5	68.4	67.0	59.2	45.0	35.5	28.8	
1992	27.7	37.1	41.8	46.6	57.3	62.4	64.7	66.0	55.9	47.4	30.1	19.8	46.4
1993	14.8	18.4	33.4	41.7	54.3	54.4	56.7	60.3	56.3	46.6	27.2	28.5	41.1
1994	31.8	29.0	39.8	44.4	53.4	58.6	69.9	66.2	58.7	43.2	26.1	22.8	45.3
1995	30.1	39.2	37.8	41.5				60.5	56.4	41.4	38.6	28.4	
1996	26.9		39.0		48.4	57.9		64.6	52.8		35.9	29.7	
1997	27.6	31.6	39.0	41.8	54.8	57.3	64.0	64.7	56.8	43.3	36.3	24.6	45.2
1998	31.5	29.7	37.8	42.9	48.1	55.8	68.9	66.8	60.1	42.5	34.9	22.9	45.2
1999	28.0	25.9	34.0	41.0	48.2	57.2	62.5	63.5	54.2	45.2	39.3	26.4	43.8
2000	27.2	35.0	36.9	47.4	51.5	59.8	65.8	65.3	54.3	44.5	28.7	24.2	45.1
2001	19.7	24.0	38.2	39.9	53.5	57.0	65.2	68.4	58.4	45.4	34.4	22.5	43.9
2002	22.9	23.8	33.3	43.6	49.9	60.5	70.2	61.3	55.6	41.0	34.3	29.7	43.8
2003	33.2	30.8	40.1	40.1	51.6	60.7	71.5	66.3	58.5	48.9	31.1	30.2	46.9
2004	22.6	23.7	40.3	46.5	50.4	60.3	68.3	66.2	54.3	45.7	35.0	30.4	45.3
2005	23.3	29.9	40.3	43.5	52.9	55.4	68.3	66.9	54.5	45.9	34.1	21.8	44.7
2006	26.5	25.8	34.8	44.6	54.5	62.5	72.6	64.6	56.9	44.1	35.7	25.4	45.7
2007	24.3	32.8	41.0	43.1	52.9	59.7	72.2	65.3	54.3	42.5	34.4	20.4	45.2
2008	16.8	24.3	31.7	37.9	51.5	57.5	67.7	65.3	56.5	45.6	37.6	22.5	42.9
2009	28.4	28.5	35.6	41.3	53.3	58.8	68.4	65.0	59.8	41.2	31.8	20.4	44.4
2010	30.6	32.0	36.9	40.5	46.2	57.5	65.7	62.8	56.5	49.1	31.4	23.8	44.4
2011	20.0	24.6	34.8	38.8	46.7	54.9	64.4	66.2	61.0	44.9	31.4	25.0	42.7
2012	28.1	32.0	38.4	44.9	50.8	56.5	69.9	67.9	60.1	44.3	36.4	25.5	46.2
2013	16.1	30.7	37.9	43.0	52.3	60.3	71.7	66.2	56.9	41.3	34.7	19.2	44.2
POR= 44 YRS	24.9	30.0	37.2	42.6	51.6	58.9	67.6	65.5	56.5	45.3	34.0	25.3	44.9

**HEATING DEGREE DAYS (base 65°F) 2013 BURNS (KBNO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	21	45	363	778	937	1421	1487	1170	1037	555	421	190	8425
1985-86	14	131	475	715	1314	1639	1155	873	697	665	448	96	8222
1986-87	124	19	431	552	853	1181	1396	900	806	473	332	158	7225
1987-88	93	56											
1988-89													
1989-90											529	312	
1990-91											246	136	6418
1991-92	16	25	177	615	879	1114	1149	802	712	547	329	317	8568
1992-93	80	88	270	539	1040	1395	1544	1301	972	693	329	317	8568
1993-94	252	166	262	564	1126	1123	1019	1002	776	611	353	211	7465
1994-95	33	31	184	667	1161	1302	1071	718	839	703			
1995-96		163	263	727	788	1127	1174		800		507	214	
1996-97		96	361		868	1090	1155	926	799	688	313	225	
1997-98	87	56	245	662	853	1246	1031	982	832	657	516	269	7436
1998-99	3	40	182	692	896	1297	1140	1088	953	714	512	240	7757
1999-00	125	102	315	608	763	1190	1163	865	864	519	411	165	7090
2000-01	59	65	323	628	1082	1254	1396	1140	824	747	360	257	8135
2001-02	76	15	194	598	912	1310	1296	1149	974	636	468	178	7806
2002-03	9	128	278	736	913	1084	979	952	765	741	421	147	7153
2003-04	9	28	213	491	1010	1072	1310	1193	760	548	446	167	7247
2004-05	17	70	315	590	894	1066	1286	978	759	640	367	287	7269
2005-06	26	44	312	582	917	1331	1187	1093	930	604	332	111	7469
2006-07	5	73	257	642	873	1220	1254	896	735	652	367	170	7144
2007-08	8	46	320	691	913	1377	1488	1172	1025	807	420	241	8508
2008-09	15	78	247	595	812	1310	1129	1018	904	703	365	186	7362
2009-10	32	77	161	731	989	1376	1059	919	865	727	576	240	7752
2010-11	63	115	252	487	1000	1271	1389	1125	930	777	558	298	8265
2011-12	59	25	135	617	1000	1232	1138	949	818	601	438	256	7268
2012-13	6	34	148	637	849	1216	1510	957	832	652	391	188	7420
2013-	4	32	256	729	902	1410							

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**COOLING DEGREE DAYS (base 65°F) 2013 BURNS (KBNO)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1983	0	0	0	0	16	0	41	71	0	0	0	0	128
1984	0	0	0	0	3	14	89	48	4	0	0	0	158
1985	0	0	0	0	0	18	199	27	0	0	0	0	244
1986	0	0	0	0	42	48	25	158	12	0	0	0	285
1987	0	0	0	0	2	45	44	70					
1988													
1989													
1991					0	1	129	95	9	0	0	0	
1992	0	0	0	0	13	66	77	128	4	0	0	0	288
1993	0	0	0	0	4	4	2	28	10	0	0	0	48
1994	0	0	0	0	0	24	194	74	0	0	0	0	292
1995	0	0	0	0	0			29	10	0	0	0	
1996	0	0	0	0	0	9		88	2	0	0	0	
1997	0	0	0	0	3	4	64	52	6	0	0	0	129
1998	0	0	0	0	0	0	131	103	42	0	0	0	276
1999	0	0	0	0	0	14	51	64	0	0	0	0	129
2000	0	0	0	0	0	17	91	83	9	0	0	0	200
2001	0	0	0	0	10	23	90	127	2	0	0	0	252
2002	0	0	0	0	5	49	175	23	3	0	0	0	255
2003	0	0	0	0	11	24	217	74	24	0	0	0	350
2004	0	0	0	0	0	34	128	116	0	0	0	0	278
2005	0	0	0	0	0	4	135	112	6	0	0	0	257
2006	0	0	0	0	12	44	247	67	21	0	0	0	391
2007	0	0	0	0	2	21	237	61	6	0	0	0	327
2008	0	0	0	0	8	25	105	92	0	0	0	0	230
2009	0	0	0	0	10	6	145	85	11	0	0	0	257
2010	0	0	0	0	0	18	90	51	2	0	0	0	161
2011	0	0	0	0	0	2	48	71	23	0	0	0	144
2012	0	0	0	0	3	6	166	129	5	0	0	0	309
2013	0	0	0	0	1	54	220	76	21	0	0	0	372

**SNOWFALL (inches) 2013 BURNS (KBNO)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	0.0	0.0	0.0	T	14.6	12.7	13.3	9.4	3.6	5.8	T	0.0	59.4
1978-79	0.0	0.0	T	0.0	1.2	6.0	22.0	16.8	2.5	1.2	0.9	0.0	50.6
1979-80	0.0	0.0	0.0	T	11.0	13.7	5.5	7.0	4.9	1.9	T	0.0	44.0
1980-81	0.0	0.0	0.0	0.3	1.0	5.2	4.8	1.9	1.6	T	T	0.6	15.4
1981-82	0.0	0.0	0.0	T	4.5	24.4	13.8	2.3	3.4	3.2	0.2	T	51.8
1982-83	0.0	0.0	0.0	T	2.1	16.0	7.1	7.2	8.3	0.3	1.4	0.0	42.4
1983-84	0.0	0.0	0.0	0.0	17.4	26.8	4.2	9.4	2.7	1.5	T	0.0	62.0
1984-85	0.0	0.0	0.0	3.6	9.2	7.2	1.1	5.8	13.5	1.6	0.0	0.0	42.0
1985-86	0.0	0.0	0.0	1.7	13.8	7.4	5.3	27.6	5.2	T	1.3	0.0	62.3
1986-87	0.0	0.0	T	0.0	1.4	4.2	12.8	6.9	3.6	0.0	0.0	0.0	28.9
1987-88	0.0	0.0											
1988-89													
1989-90													
1990-91											0.0	0.0	
1991-92	0.0	0.0	0.0		0.6	0.4	1.9	3.2	T	0.0	0.0	0.0	
1992-93	0.0	0.0	0.0	0.0	7.7	19.9	23.7	15.3	3.7	0.6	0.0	0.0	70.9
1993-94	0.0	0.0	0.0	0.0	0.7	5.5	1.4	6.5	T	T	0.0	0.0	14.1
1994-95	0.0	0.0	0.0	0.0	17.0	13.4	10.1	1.6	1.2	T			
1995-96													
1996-97													
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03													
2003-04													
2004-05													
2005-2006-													
POR= 26 YRS	0.0	0.0	T	0.7	4.2	7.9	6.6	5.2	3.0	0.8	0.2	T	28.6

WBAN : 94185

**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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p>	<p>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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</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 "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2013 BURNS OREGON (KBNO)

Burns is located near the center of the high plateau area that comprises much of central Oregon. The crest of the Cascade Range is some 135 miles to the west, the Steens Mountains about 45 miles to the southeast. A prong of the Blue Mountains to the north approaches within 40 miles of Burns with lower hills reaching the city limits. Approximately 30 miles east, a number of low hills separate this area from the Malheur Valley. From the Blue Mountains in the north to the southern border of Oregon and between the foothills of the Cascades in the west to the chain of lesser mountains to the east is a series of shallow valleys, each with its own small creek or creeks. These are separated by slightly higher, gently rolling bench lands which in turn are cut here and there by rough, rocky canyons, and with numerous buttes or small mesas interspersed through the area, rising from 500 to 1,500 feet above the general terrain. Well distributed over much of central Oregon south of Burns are a number of large, relatively shallow landlocked lakes and marshes.

Burns, in common with most of the Great Basin area of the Western Plateau, has a semi-arid climate. Maritime air moving in from the Pacific Ocean is greatly modified by its passage over the Coastal and Cascade Mountain Ranges that lie between Burns and the coast. In its ascent over them much of its precipitable moisture has been given up and annual precipitation totals here are small and humidities generally low. This makes for an abundance of sunshine and a rather wide range between daily maximum and minimum temperatures. Nighttime frosts may occur any month in the year. An occasional continental air mass moving from northern Canada southward through this area,

instead of in its usual trajectory along the east slope of the Rocky Mountains, will produce even lower humidities along with fairly strong winds and more extreme temperatures. The average total precipitation for the entire high plateau region of Oregon is between 9 and 12 inches. About one-third of this falls in the form of snow. There are several thunderstorms each year. Occasionally these are accompanied by hail, but seldom do either cause appreciable damage. No tornadoes have ever been reported in the immediate area of Burns, but funnel clouds have been sighted.

Approximately 90 percent of the agricultural income in Harney County, of which Burns is the county seat, is derived from beef cattle and sheep, with far the greater portion coming from cattle. The very low nightly temperatures during much of the year necessitate the raising of only very hardy, frost-resistant crops with a short growing season. The low annual precipitation total limits cultivation to valley bottom lands. Through the use of spring runoff water and some reservoir storage for summer irrigation, about 120,000 acres of native grasslands have been developed into native grass hay meadows and about 40,000 additional acres are in cultivated crops, principally the small hardy grains, with some 6,000 acres of alfalfa. The rest of the more than 6,000,000 acres in Harney County is in range with about 400,000 acres of the rangeland covered by pine forests along the northern border.

# Station History

BURNS, OR

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BURNS MUNICIPAL AP	1959-09-01	1967-04-30	43° 34'	-118° 57'			AIRWAYS
BURNS MUNICIPAL AP	1995-07-01	2007-03-13	43° 35'	-118° 57'	4140	.6 MI NW	ASOS, COOP
BURNS MUNICIPAL AP	1980-02-15	1995-07-01	43° 34'	-118° 57'	4140		AMOS, COOP, WXSVC
BURNS MUNICIPAL AP	2007-03-13	Present	43° 35'	-118° 57'	4140		ASOS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1980-02-15	1988-02-29	DAILY	2400	UNIV	RCRD	
TEMP	2013-07-25	Present	DAILY	2400	ATEMP		
TEMP	1988-02-29	1995-07-01	DAILY	2400	MXMN		
PRECIP	2007-03-13	2013-07-25	DAILY	2400	PCPNX		
PRECIP	2013-07-25	Present	DAILY	2400	PCPNX		
PRECIP	1980-02-15	1988-02-29	HOURLY	2400			
PRECIP	1988-02-29	1995-07-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	2007-03-13	HOURLY	2400	TB	RCRD	
PRECIP	1995-07-01	2007-03-13	DAILY	2400			
PRECIP	1988-02-29	1995-07-01	HOURLY	2400			
TEMP	1995-07-01	2007-03-13	DAILY	2400	HYGR		
TEMP	2007-03-13	2013-07-25	DAILY	2400	HYGR		
PRECIP	2007-03-13	2013-07-25	HOURLY	2400	TB	RCRD	
PRECIP	2013-07-25	Present	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	1980-02-15	1988-02-29	DAILY	2400	TEMPX		

\* 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.orders@noaa.gov](mailto:ncdc.orders@noaa.gov)

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)