

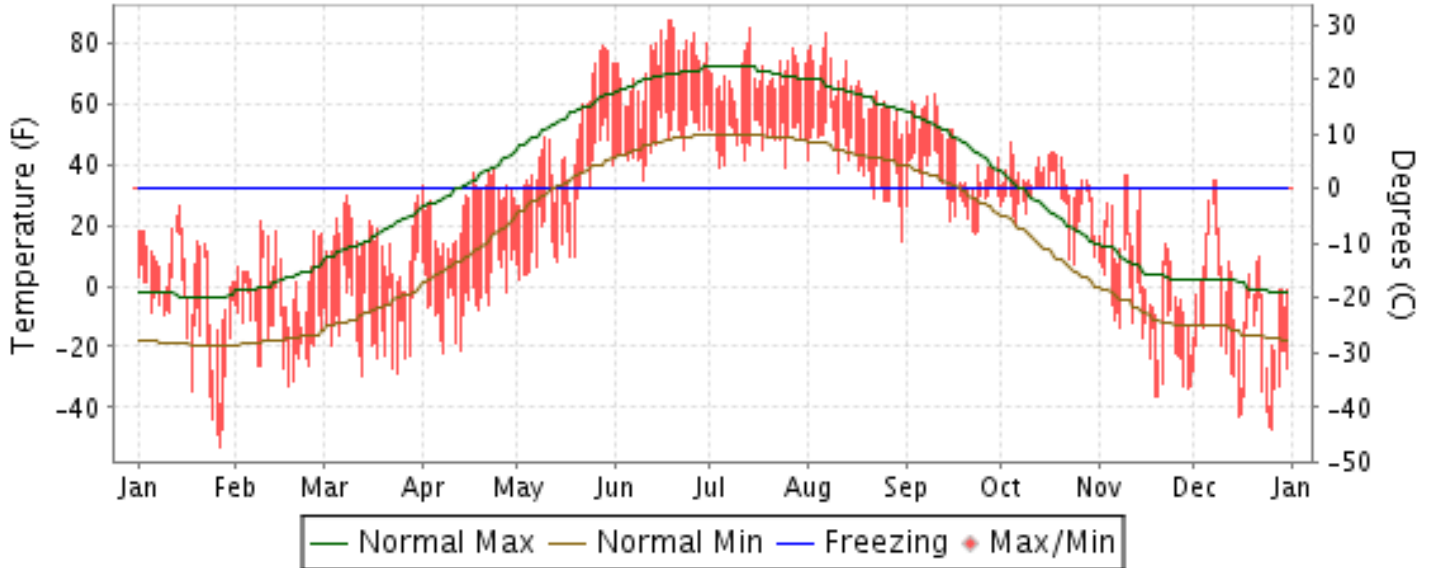


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

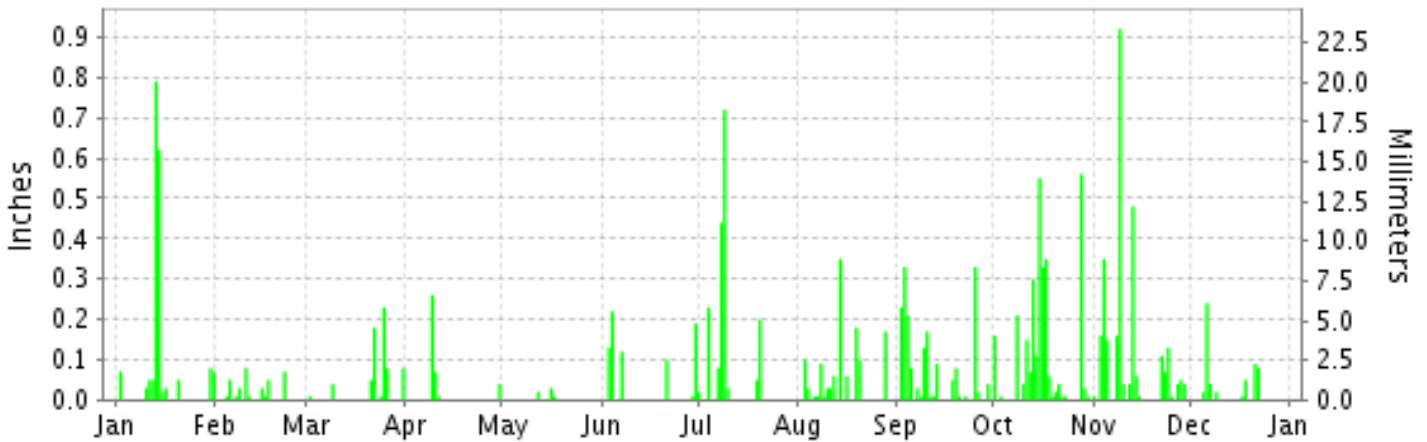
ISSN 0197-9647

## BETTLES, ALASKA (PABT)

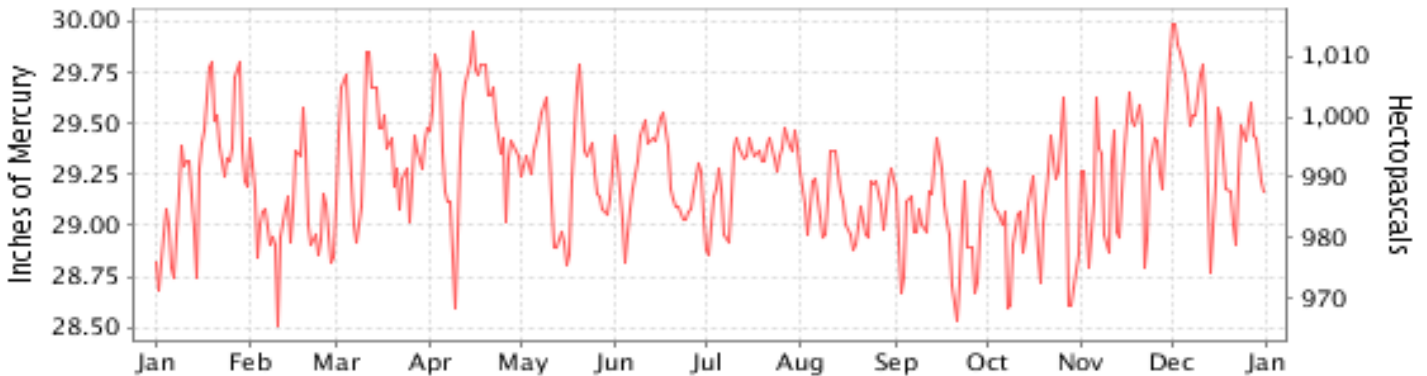
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2013

## BETTLES (PABT)

LATITUDE: 66° 32'N      LONGITUDE: 151° 18'W      ELEVATION (FT): GRND: 643 BARO: 652      TIME ZONE: ALASKA (UTC -9)      WBAN: 26533

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	4.4	3.8	14.3	25.8	48.3	73.8	69.5	64.5	46.4	36.0	7.4	-1.3	32.7
	HIGHEST DAILY MAXIMUM	26	21	30	38	79	87	85	83	63	47	36	35	87
	DATE OF OCCURRENCE	14	09	31+	24+	28	19+	14	07	10	04	10+	08+	JUN 19+
	MEAN DAILY MINIMUM	-12.2	-15.5	-12.0	-2.7	24.3	48.3	48.5	40.6	31.6	26.4	-11.2	-19.0	12.3
	LOWEST DAILY MINIMUM	-53	-33	-30	-22	2	35	39	15	17	7	-36	-47	-53
	DATE OF OCCURRENCE	27	18	13	08	02	10	25+	31	23	24	20+	26	JAN 27
	AVERAGE DRY BULB	-3.9	-5.9	1.2	11.6	36.3	61.1	59.0	52.6	39.0	31.2	-1.9	-10.2	22.5
	MEAN WET BULB		-5.3	1.4	10.9	30.9	52.3	53.3	47.8	35.5	30.4			
	MEAN DEW POINT		-10.1	-5.6	0.5	18.9	42.1	47.8	42.3	30.8	27.8			
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 70	0	0	0	0	7	22	14	8	0	0	0	0	51
	MAXIMUM <= 32°	31	28	31	22	5	0	0	0	3	6	28	29	183
MINIMUM <= 32°	31	28	31	30	22	0	0	7	19	27	30	31	256	
MINIMUM <= 0°	22	26	27	21	0	0	0	0	0	0	22	26	144	
H/C	HEATING DEGREE DAYS	2130	1975	1971	1596	883	151	178	385	774	1042	2001	2326	15412
	COOLING DEGREE DAYS	0	0	0	0	3	38	1	6	0	0	0	0	48
RH	MEAN (PERCENT)	78	76	69	56	49	52	68	71	76	86	80	79	70
	HOUR 03 LST	79	78	77	74	68	75	88	87	85	89	80	79	80
	HOUR 09 LST	79	78	74	57	48	52	69	75	83	86	82	80	72
	HOUR 15 LST	77	71	57	44	37	35	53	51	62	81	79	79	61
	HOUR 21 LST	78	77	73	51	40	45	59	69	79	88	81	78	68
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	2	0	0	0	1	3	3	0	1	0	11
	THUNDERSTORMS	0	0	0	0	0	2	0	1	0	0	0	0	3
PR	MEAN STATION PRESS. (IN.)	29.26	29.04	29.38	29.47	29.25	29.24	29.28	29.10	28.99	29.04	29.28	29.45	29.23
	MEAN SEA-LEVEL PRESS. (IN.)	30.03	29.81	30.14	30.22	29.98	29.95	29.99	29.81	29.71	29.77	30.05	30.23	29.97
WINDS	RESULTANT SPEED (MPH)	3.1	2.7	1.7	1.5	0.9	1.4	2.3	0.0	1.4	2.6	1.6	2.0	1.0
	RES. DIR. (TENS OF DEGS.)	01	35	04	03	16	21	21	34	02	03	36	36	02
	MEAN SPEED (MPH)	4.1	3.8	4.0	5.0	5.5	4.3	4.0	2.4	3.3	3.9	3.6	3.0	3.9
	PREVAIL.DIR.(TENS OF DEGS.)	36	33	36	01	14	02	23	33	03	03	36	34	33
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	23	18	22	21	22	21	18	20	14	17	28	20	28
	DIR. (TENS OF DEGS.)	24	02	05	34	17	25	22	25	05	05	05	05	05
	DATE OF OCCURRENCE	14	14	14	24	16	21	02	30	25	08	22	12	NOV 22
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	33	23	36	35	28	31	24	26	20	32	39	26	39
DIR. (TENS OF DEGS.)	24	02	05	35	17	18	20	24	03	06	04	07	04	
DATE OF OCCURRENCE	14	14	14	24	16	14	26	30	25	08	22	13	NOV 22	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	1.86	0.35	0.68	0.38	0.06	0.77	1.77	1.23	1.84	3.03	2.83	0.55	15.35
	GREATEST 24-HOUR (IN.)	0.79	0.08	0.23	0.26	0.04	0.35	0.81	0.35	0.56	0.56	0.92	0.24	0.92
	DATE OF OCCURRENCE	13	10	25	09	16-17	03-04	08-09	14	02-03	28	09	06	NOV 09
	NUMBER OF DAYS WITH:													
PRECIPITATION 0.01	11	10	8	4	3	6	8	14	18	20	18	8	128	
PRECIPITATION 0.10	2	0	2	1	0	5	4	5	6	9	8	1	43	
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	
SNOWFALL	SNOW,ICE PELLETS,HAIL													
	TOTAL (IN.)	23.7	7.3	10.0	5.8	1.0	0.0	0.0	0.0	7.5	12.4	37.8	5.4	110.9
	GREATEST 24-HOUR (IN.)	8.6	1.3	3.1	4.2	0.5	0.0	0.0	0.0	3.4	2.7	8.8	2.0	8.8
	DATE OF OCCURRENCE	13	10	22	09	16				25	28+	09	22	NOV 09
	MAXIMUM SNOW DEPTH (IN.)	21	19	23	26	21	0	0	0	3	3	21	21	26
	DATE OF OCCURRENCE	15	27+	31+	10+	04+				26	11+	14	23	APR 10+
	NUMBER OF DAYS WITH:													
SNOWFALL >= 1.0	5	4	4	1	0	0	0	0	2	4	11	2	33	

# NORMALS, MEANS, AND EXTREMES BETTLES (PABT)

**LATITUDE:** 66° 32'N      **LONGITUDE:** 151° 18'W      **ELEVATION (FT):** GRND: 643 BARO: 652      **TIME ZONE:** ALASKA (UTC -9)      **WBAN: 26533**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	-2.2	4.5	16.7	34.3	54.6	69.3	69.8	62.1	48.9	25.6	6.0	1.9	32.6
	MEAN DAILY MAXIMUM	62	-4.4	2.2	14.5	32.9	53.5	68.0	69.3	62.4	48.8	25.7	5.9	-1.2	31.5
	HIGHEST DAILY MAXIMUM	63	41	40	49	66	86	92	93	88	79	57	45	38	93
	YEAR OF OCCURRENCE		2009	1977	1998	2010	1983	1999	1986	1994	1957	2003	1976	1960	JUL 1986
	MEAN OF EXTREME MAXS.	62	25.1	26.0	34.2	49.4	71.1	81.1	83.3	76.8	63.5	42.7	28.1	24.4	50.5
	NORMAL DAILY MINIMUM	30	-17.9	-14.5	-8.0	12.3	34.2	47.6	49.6	42.9	32.3	12.1	-8.1	-13.4	14.1
	MEAN DAILY MINIMUM	62	-20.2	-16.4	-9.3	10.4	33.5	46.7	48.8	43.2	32.4	12.5	-8.1	-16.6	13.1
	LOWEST DAILY MINIMUM	63	-70	-64	-56	-37	-10	27	29	15	0	-35	-57	-59	-70
	YEAR OF OCCURRENCE		1975	1999	1964	1986	1952	1960	1955	2013	2010	1992	1974	1974	JAN 1975
	MEAN OF EXTREME MINS.	62	-49.5	-44.3	-34.4	-15.4	18.0	35.1	38.1	30.1	16.7	-10.8	-33.2	-44.7	-7.8
	NORMAL DRY BULB	30	-10.0	-5.0	4.4	23.3	44.4	58.5	59.7	52.5	40.6	18.9	-1.0	-5.7	23.4
	MEAN DRY BULB	62	-12.0	-7.0	2.7	21.7	43.5	57.7	59.1	52.8	40.6	19.1	-0.9	-8.8	22.4
	MEAN WET BULB	22	2.6	2.2	7.3	20.8	36.6	48.8	51.6	47.2	37.3	22.3	3.5	3.5	23.6
	MEAN DEW POINT	22	-3.1	-3.5	2.4	16.9	32.8	44.6	48.2	44.5	34.7	19.5	-0.9	-1.1	19.6
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2
	MAXIMUM <= 32	30	30.3	27.3	27.6	11.3	0.4	0.0	0.0	0.0	0.7	21.5	29.4	30.8	179.3
MINIMUM <= 32	30	31.0	28.0	31.0	28.3	12.7	0.2	0.1	1.9	13.5	29.9	30.0	31.0	237.6	
MINIMUM <= 0	30	24.3	21.3	22.0	6.1	0.2	0.0	0.0	0.0	0.0	6.4	20.5	24.3	125.1	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	2326	1960	1880	1251	640	212	182	390	732	1431	1981	2193	15178
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	1	15	18	2	0	0	0	0	36
<b>RH</b>	NORMAL (PERCENT)	30								76	76				
	HOUR 03 LST	30								90	85				
	HOUR 09 LST	30			70	64	59	59	69	79	79	80	75	77	
	HOUR 15 LST	30		68	60	56	46	44	52	61	62	73	74	75	
	HOUR 21 LST	30			69					75	79		76		
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	1.4	0.5	0.2	0.5	0.3	0.2	0.8	1.3	1.0	0.7	0.6	0.4	7.9
	THUNDERSTORMS	60	0.0	0.0	0.0	0.0	0.6	3.0	2.9	0.4	0.1	0.0	0.0	0.0	7.0
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	5	3.8	4.6	4.9	4.8	5.0	5.3	4.9	5.1	4.3	4.9	3.8	4.1	4.6
	MIDNIGHT-MIDNIGHT (OKTAS)	5	2.7	1.5	2.4	2.7	4.0	3.7	4.3	4.4	4.3	4.8	3.3	3.1	3.4
	MEAN NO. DAYS WITH: CLEAR	5	14.8	9.8	9.4	7.2	6.8	3.8	1.7	1.8	5.5	3.8	7.8	7.5	79.9
	PARTLY CLOUDY	5	5.2	4.2	5.4	9.8	11.0	13.4	8.2	6.8	5.8	4.8	5.2	5.5	85.3
	CLOUDY	5	11.0	14.0	16.2	13.0	13.2	12.8	16.0	17.2	13.7	17.2	12.0	12.8	169.1
<b>PR</b>	MEAN STATION PRESSURE(IN)	30	29.18	29.23	29.23	29.20	29.18	29.15	29.15	29.16	29.11	29.10	29.14	29.11	29.16
	MEAN SEA-LEVEL PRES. (IN)	30	29.94	29.98	30.00	29.94	29.91	29.86	29.89	29.88	29.82	29.85	29.91	29.88	29.91
<b>WINDS</b>	MEAN SPEED (MPH)	30	4.9	5.1	5.9	6.6	6.5	5.9	5.6	5.2	5.5	5.5	4.9	4.9	5.5
	PREVAIL.DIR(TENS OF DEGS)	30	34	34	33	02	01	23	23	15	02	36	34	34	34
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	28	28	29	28	24	29	30	23	24	23	28	25	30
	DIR. (TENS OF DEGS)		21	23	05	23	23	27	24	25	23	06	05	07	24
	YEAR OF OCCURRENCE		2008	2006	2005	2002	2012	2003	2002	2012	2003	2006	2013	2008	JUL 2002
	MAXIMUM 3-SECOND SPEED (MPH)	14	40	44	48	38	36	45	43	36	32	38	39	48	48
	DIR. (TENS OF DEGS)		05	05	05	04	08	26	25	36	18	06	04	07	07
YEAR OF OCCURRENCE		2004	2004	2005	2000	2012	2003	2002	2000	2012	2006	2013	2008	DEC 2008	
<b>PRECIPITATION</b>	NORMAL (IN)	30	0.81	0.85	0.58	0.60	0.88	1.40	2.36	2.64	1.91	1.04	0.91	0.92	14.90
	MAXIMUM MONTHLY (IN)	63	3.42	3.21	3.60	3.08	3.01	3.59	5.42	9.16	4.80	3.82	3.85	3.41	9.16
	YEAR OF OCCURRENCE		1973	2003	1963	2002	1998	1965	1963	1994	2002	1972	1967	2011	AUG 1994
	MINIMUM MONTHLY (IN)	63	T	T	T	0.01	0.04	T	0.00	0.41	0.13	0.12	0.00	0.12	0.00
	YEAR OF OCCURRENCE		1961	1979	1960	1986	1959	1959	1959	1958	1984	1974	2012	1995	NOV 2012
	MAXIMUM IN 24 HOURS (IN)	63	1.40	1.03	0.87	0.98	1.02	1.93	1.69	2.96	1.31	1.32	1.35	1.59	2.96
	YEAR OF OCCURRENCE		1973	1996	1963	1982	1995	1958	2007	1994	1954	1972	1992	2011	AUG 1994
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	9.0	9.0	7.3	6.4	8.3	10.8	13.5	14.6	12.2	12.0	10.6	11.4	125.1
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	
<b>SNOWFALL</b>	NORMAL (IN)	30	13.9	14.0	9.3	6.3	1.3	0.0	0.0	0.0	2.5	12.4	16.1	15.6	91.4
	MAXIMUM MONTHLY (IN)	63	55.8	41.7	35.2	34.7	12.3	T	T	2.6	19.2	28.3	41.6	45.5	55.8
	YEAR OF OCCURRENCE		1973	2011	1991	1984	2001	2012	2009	1969	1996	1972	1967	2011	JAN 1973
	MAXIMUM IN 24 HOURS (IN)	63	21.7	11.6	10.6	10.8	6.7	T	T	2.6	5.6	10.8	19.0	11.4	21.7
	YEAR OF OCCURRENCE		1973	2011	1991	1975	1952	2012	2009	1969	1972	1976	1994	2003	JAN 1973
	MAXIMUM SNOW DEPTH (IN)	61	71	61	73	86	50	0	0	2	9	22	42	59	86
	YEAR OF OCCURRENCE		1973	1968	1963	1963	1963	1963	1963	1969	1968	1994	1994	1994	APR 1963
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.8	4.2	3.1	1.8	0.5	0.0	0.0	0.0	0.9	4.2	4.7	5.4	28.6	

**PRECIPITATION (inches) 2013 BETTLES (PABT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	0.55	0.35	0.10	0.75	0.42	1.65	3.94	3.23	0.13	0.15	0.08	0.82	12.17
1985	0.87	0.27	0.96	0.12	1.01	1.56	1.45	2.35	3.91	0.81	0.87	0.69	14.87
1986	0.34	0.29	0.16	0.01	0.73	2.62	1.35	2.12	2.47	1.46	0.41	1.06	13.02
1987	0.65	0.30	0.04	0.10	1.02	2.28	2.17	1.52	3.20	1.61	0.51	1.46	14.86
1988	1.28	0.59	0.16	0.28	0.91	0.58	1.44	3.61	1.50	1.05	0.45	1.15	13.00
1989	0.66	2.24	0.08	1.26	1.44	1.26	2.00	3.57	1.01	0.99	0.50	1.01	16.02
1990	0.39	0.59	1.89	0.32	0.68	1.39	1.80	1.54	2.38	1.03	0.53	1.01	13.55
1991	1.61	0.42	2.25	0.44	2.23	0.63	1.51	0.83	1.00	1.16	0.22	0.66	12.96
1992	0.50	0.81	0.51	0.25	0.22	3.11	2.86	2.58	0.59	0.97	3.36	3.09	18.85
1993	3.20	0.49	1.15	0.06	0.83	1.36	1.53	2.59	4.72	1.28	1.91	0.88	20.00
1994	0.75	0.33	1.35	0.28	0.89	0.92	1.88	9.16	0.33	1.38	1.41	1.21	19.89
1995	0.24	0.13	0.52	0.24	2.20	1.42	1.26	2.64	1.88	0.96	0.02	0.12	11.63
1996	0.21	2.77	0.38	0.11	0.33	0.96	2.31	2.40	1.28	.58	.60	.78	12.71
1997	0.30	0.83	T	0.07	0.22	0.85	1.88	2.23	2.34	0.92	0.95	0.77	11.36
1998	0.23	0.29	0.07	0.60	3.01	1.43	3.52	4.66	1.85	0.50	0.60	0.78	17.54
1999	1.49	0.43	0.44	0.17	0.63	0.74	3.20	2.41	1.52	0.56	0.36	0.71	12.66
2000	2.55	0.65	0.62	0.23	0.40	1.05	3.73	2.00	2.60	0.78	1.72	0.47	16.80
2001	0.51	0.86	0.33	0.55	1.30	1.37	1.62	2.63	1.08	1.63	0.68	0.47	13.03
2002	1.25	0.48	0.16	3.08	0.73	1.55	1.46	1.34	4.80	0.88	0.43	0.84	17.00
2003	0.18	3.21	1.22	0.47	0.94	1.11	2.33	3.98	1.72	1.65	2.59	0.95	20.35
2004	0.15	0.69	0.39	0.34	1.65	0.90	0.97	0.86	2.24	1.46	1.20	1.68	12.53
2005	1.46	1.22	0.70	0.89	1.44	1.49	3.12	1.59	2.79	1.19	0.63	1.37	17.89
2006	0.04	1.94	0.24	0.63	0.21	2.35	3.73	3.40	0.90	1.94	0.11	0.76	16.25
2007	0.99	0.01	0.04	0.23	0.25	2.01	3.87	1.97	1.59	1.00	0.85	0.76	13.57
2008	0.90	0.86	0.87	1.81	0.59	2.62	1.93	1.27	0.91	1.27	1.33	0.68	15.04
2009	1.29	2.47	0.48	1.65	0.21	1.37	0.95	2.00	1.02	0.20	0.80	1.21	13.65
2010	0.36	0.30	0.64	0.65	0.77	0.51	2.87	1.14	0.82	0.80	2.32	0.47	11.65
2011	0.32	2.19	0.18	0.17	0.74	3.29	2.80	2.92	1.87	1.34	0.42	3.41	19.65
2012	0.56	0.63	0.29	0.10	0.72	1.09	1.98	3.27	4.07	0.80	0.00	0.30	13.81
2013	1.86	0.35	0.68	0.38	0.06	0.77	1.77	1.23	1.84	3.03	2.83	0.55	15.35
POR= 62 YRS	0.79	0.77	0.62	0.59	0.68	1.41	2.01	2.49	1.83	1.15	0.93	0.89	14.16

WBAN : 26533

**AVERAGE TEMPERATURE (°F) 2013 BETTLES (PABT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	-16.2	-24.2	9.1	14.8	40.5	60.3	58.2	48.9	42.4	20.8	-5.9	-8.1	20.1
1985	10.3	-14.4	6.9	10.7	41.2	56.2	60.3	53.5	38.7	14.6		6.9	
1986	-5.5	0.3		10.2	41.5	59.4	59.7	49.3	40.8	17.1	-4.9	5.3	
1987	-4.7	-5.0	6.1	21.1	45.2	58.3	60.7	53.1	37.2	25.9	3.8	-5.1	24.7
1988	-5.1	0.0	8.5	25.9	47.6	59.3	61.9	52.9	40.2	9.3	-5.3	0.5	24.6
1989	-31.5	6.3	0.7	26.6	41.8	56.5	58.9	55.8	43.2	19.7	-9.6	0.7	22.4
1990	-16.6	-29.4	11.1	29.3	51.0	59.1	62.5	57.2	38.7	18.2	-12.9	-14.5	21.1
1991	-8.0	-6.3	2.6	26.8	48.6	62.0	58.9	51.7	44.8	20.4	-5.6	-7.5	24.0
1992	-4.7	-12.3	9.7	19.5	34.0	59.9	62.9	52.8	29.3	13.7	-0.2	-13.2	21.0
1993	-11.4	-0.6	10.5	31.5	46.0	60.8	63.6	51.2	36.8	24.7	0.2	1.8	26.3
1994	0.7	-8.3	-0.9	24.1	47.8	55.1	62.3	54.0	39.4	18.1	-12.1	-10.3	22.5
1995	-8.0	-3.1	-2.6	33.8	50.3	56.0	60.4	52.7	47.2	23.1	-9.0	-11.5	24.1
1996	-20.1	-9.7	7.4	21.4	43.3	56.8	58.4	47.2	37.5	8.0	.6	-9.0	20.2
1997	-14.9	5.2	-2.2	26.1	45.2	61.2	60.5	54.5	45.8	11.8	7.9	-4.8	24.7
1998	-13.1	0.6	14.7	34.1	45.8	55.7	61.8	50.3	42.1	23.8	4.0	-5.2	26.2
1999	-19.9	-18.0	2.0	24.2	46.3	61.5	60.8	56.3	43.2	16.5	-5.9	-16.5	20.9
2000	-13.8	5.8	9.9	21.7	37.5	59.6	56.4	48.8	37.7	15.2	7.3	.4	23.9
2001	5.1	3.2	1.4	22.7	35.7	58.4	57.0	53.9	44.5	18.2	.2	-8.0	24.4
2002	-2.4	-3.5	7.7	15.3	43.8	54.9	57.6	49.1	43.2	24.3	15.6	2.4	25.7
2003	-6.1	6.3	1.7	23.2	39.4	59.1	55.1	52.2	35.8	29.4	-7	-9.6	23.8
2004	-14.2	-2.9	-1.8	28.1	46.5	63.5	62.9	57.1	33.2	22.4	2.1	-7.6	24.1
2005	-13.6	-4.0	11.0	21.2	49.7	60.8	59.1	53.9	42.9	22.3	-9.1	3.9	24.8
2006	-23.3	3.5	-3.8	17.6	46.0	54.3	57.1	51.4	47.2	27.6	-7.3	-1.8	22.4
2007	-3.5	-9.9	-11.0	32.8	47.3	60.0	64.0	57.1	44.5	18.6	12.9	-5.5	25.6
2008	-10.3	-9.2	4.9	20.4	43.5	57.6	56.5	50.6	41.7	7.0	1.7	-11.2	21.1
2009	-15.7	-5.1	-1.3	20.7	45.0	57.3	62.0	50.0	43.0	25.5	-8.9	-4.9	22.3
2010	-18.5	-2.4	3.7	29.2	50.0	60.1	58.1	56.2	41.4	23.4	6.4	-21.3	23.9
2011	1.9	-10.0	3.6	18.6	46.5	57.5	58.0	52.3	44.5	25.4	-9.4	-1.6	23.9
2012	-35.5	1.2	-5.3	28.3	43.2	60.6	58.2	52.2	41.1	18.6	-9.6	-15.7	19.8
2013	-3.9	-5.9	1.2	11.6	36.3	61.1	59.0	52.6	39.0	31.2	-1.9	-10.2	22.5
POR= 62 YRS	-12.0	-7.0	2.7	21.7	43.5	57.7	59.1	52.8	40.6	19.1	-0.9	-8.8	22.3

**HEATING DEGREE DAYS (base 65°F) 2013 BETTLES (PABT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	215	490	673	1365	2132	2271	1689	2228	1800	1623	729	269	15484
1985-86	143	359	782	1557		1800	2186	1811		1641	722	170	
1986-87	202	482	719	1479	2097	1850	2158	1963	1827	1310	608	228	14923
1987-88	140	364	828	1206	1836	2174	2175	1888	1748	1169	532	176	14236
1988-89	118	370	738	1725	2113	1998	2996	1638	1993	1145	712	258	15804
1989-90	194	279	646	1398	2240	1994	2532	2649	1669	1064	436	198	15299
1990-91	115	241	784	1448	2341	2470	2268	1996	1935	1140	501	171	15410
1991-92	199	406	599	1373	2122	2249	2159	2246	1707	1358	955	167	15540
1992-93	82	372	1064	1586	1953	2431	2364	1834	1680	999	583	133	15081
1993-94	84	418	838	1240	1939	1959	1993	2055	2045	1217	530	304	14622
1994-95	120	355	759	1446	2316	2336	2268	1908	2097	931	453	260	15249
1995-96	149	379	528	1293	2226	2375	2640	2167	1780	1301	667	239	15744
1996-97	199	543	819	1764	1930	2288	2471	1669	2077	1163	604	141	15668
1997-98	148	322	568	1640	1709	2158	2413	1794	1554	921	589	276	14092
1998-99	116	447	681	1269	1823	2169	2623	2319	1949	1219	570	141	15326
1999-00	176	273	645	1498	2121	2515	2437	1712	1701	1290	842	159	15369
2000-01	269	493	813	1537	1724	1994	1852	1722	1965	1262	903	195	14729
2001-02	245	338	611	1444	1935	2255	2082	1915	1770	1482	651	296	15024
2002-03	237	486	645	1253	1474	1931	2196	1636	1955	1246	788	172	14019
2003-04	299	390	873	1093	1964	2307	2448	1962	2066	1101	567	64	15134
2004-05	84	250	948	1311	1882	2243	2430	1923	1668	1307	467	150	14663
2005-06	179	342	657	1319	2215	1886	2730	1717	2128	1414	584	318	15489
2006-07	238	413	524	1152	2165	2065	2118	2094	2351	956	542	152	14770
2007-08	60	238	607	1435	1558	2183	2332	2148	1855	1330	663	224	14633
2008-09	268	439	693	1789	1891	2360	2501	1959	2052	1324	611	225	16112
2009-10	104	461	654	1217	2214	2162	2585	1883	1889	1065	458	145	14837
2010-11	215	272	701	1283	1751	2671	2301	2092	1895	1383	573	217	15354
2011-12	218	388	608	1217	2223	2063	3113	1845	2169	1093	669	137	15743
2012-13	207	391	709	1433	2228	2495	2130	1975	1971	1596	883	151	16169
2013-	178	385	774	1042	2001	2326							

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**COOLING DEGREE DAYS (base 65°F) 2013 BETTLES (PABT)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	0	9	11	0	0	0	0	0	20
1985	0	0	0	0	0	9	3	10	0	0	0	0	
1986	0	0	0	0	0	10	46	0	0	0	0	0	
1987	0	0	0	0	0	34	13	0	0	0	0	0	47
1988	0	0	0	0	0	15	29	0	0	0	0	0	44
1989	0	0	0	0	0	8	10	2	0	0	0	0	20
1990	0	0	0	0	7	27	46	7	0	0	0	0	87
1991	0	0	0	0	0	88	18	0	0	0	0	0	106
1992	0	0	0	0	0	22	21	1	0	0	0	0	44
1993	0	0	0	0	0	12	46	0	0	0	0	0	58
1994	0	0	0	0	0	12	43	19	0	0	0	0	74
1995	0	0	0	0	7	0	13	0	0	0	0	0	20
1996	0	0	0	0	0	1	1	0	0	0	0	0	2
1997	0	0	0	0	0	35	13	3	0	0	0	0	51
1998	0	0	0	0	0	5	22	0	0	0	0	0	27
1999	0	0	0	0	0	43	52	13	0	0	0	0	108
2000	0	0	0	0	0	4	11	0	0	0	0	0	15
2001	0	0	0	0	0	2	2	0	0	0	0	0	4
2002	0	0	0	0	0	0	16	0	0	0	0	0	16
2003	0	0	0	0	0	3	0	0	0	0	0	0	3
2004	0	0	0	0	0	24	24	12	0	0	0	0	60
2005	0	0	0	0	0	31	5	2	0	0	0	0	38
2006	0	0	0	0	0	2	2	0	0	0	0	0	4
2007	0	0	0	0	0	7	36	3	0	0	0	0	46
2008	0	0	0	0	0	9	11	0	0	0	0	0	20
2009	0	0	0	0	0	0	18	1	0	0	0	0	19
2010	0	0	0	0	0	5	9	7	0	0	0	0	21
2011	0	0	0	0	7	2	5	0	0	0	0	0	14
2012	0	0	0	0	0	11	1	0	0	0	0	0	12
2013	0	0	0	0	3	38	1	6	0	0	0	0	48

**SNOWFALL (inches) 2013 BETTLES (PABT)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.5	4.2	1.4	22.5	20.9	9.9	21.8	2.8	3.7	0.0	87.7
1985-86	0.0	0.0	0.6	8.3	10.7	10.8	7.6	5.3	1.2	0.8	1.2	0.0	46.5
1986-87	0.0	0.0	1.3	12.9	7.2	18.3	12.0	4.9	0.6	4.1	0.0	0.0	61.3
1987-88	0.0	0.0	2.0	19.6	9.6	40.2	18.2	13.5	6.3	2.8	2.6	0.0	114.8
1988-89	0.0	0.0	0.6	13.8	7.0	25.0	13.0	32.8	2.2	10.9	2.2	0.0	107.5
1989-90	0.0	0.0	T	8.2	10.8	18.0	10.8	7.1	31.0	3.3	0.0	0.0	89.2
1990-91	0.0	0.0	5.6	17.1	13.0	21.8	29.3	5.5	35.2	3.0	T	0.0	130.5
1991-92	0.0	0.0	0.0	6.2	4.1	11.0	8.2	11.6	7.9	4.0	3.3	0.0	56.3
1992-93	0.0	0.0	4.6	15.2	36.3	36.6	40.8	10.6	25.0	1.5	T	0.0	170.6
1993-94	0.0	T	8.9	12.4	27.9	20.4	15.7	5.9	18.3	3.4	0.3	0.0	113.2
1994-95	0.0	T	0.9	21.2	29.7	23.9	4.0	3.1	7.1	T	T	0.0	89.9
1995-96	0.0	0.0	0.0	8.7	1.1	2.0	3.2	31.7	6.2	1.8	1.6	0.0	56.3
1996-97	0.0	0.0	19.2	9.3	10.3	20.1	4.5	15.0	T	1.2	T	0.0	79.6
1997-98	0.0	0.0	0.0	11.6	15.8	15.2	3.3	7.6	1.0	2.8	1.7	0.0	59.0
1998-99	0.0	T	0.4	7.0	7.8	11.5	20.8	6.6	7.5	2.3	1.4	0.0	65.3
1999-00	0.0	0.0	1.1	12.0	9.4	13.1	34.7	13.1	10.1	3.2	T	T	96.7
2000-01	T	0.0	5.2	14.4	26.9	8.6	8.8	18.0	8.1	8.8	12.3	T	111.1
2001-02	0.0	0.0	2.1	20.4	14.5	5.9	28.8	8.7	2.1	16.2	0.8	T	99.5
2002-03	T	0.0	1.4	10.7	5.2	13.7	2.6	40.9	17.4	5.7	0.4	0.0	98.0
2003-04	0.0	0.0	0.3	8.0	35.9	21.3	2.6	18.6	7.1	3.1	1.2	0.0	98.1
2004-05	0.0	0.0	14.6	19.0	18.8	27.9	16.8	26.6	8.4	10.7	0.0	T	142.8
2005-06	T	T	0.3	18.2	15.5	19.3	0.9	21.1	4.8	8.4	0.0	T	88.5
2006-07	0.0	0.0	T	9.4	4.2	10.1	15.2	0.1	0.7	3.3	T	0.0	43.0
2007-08	0.0	0.0	3.0	13.4	17.7	9.3	12.8	13.9	9.2	15.7	2.0	T	97.0
2008-09	0.0	0.0	0.1	19.1	23.9	9.8	16.6	33.3	8.4	6.6	0.8	0.0	118.6
2009-10	T	T	1.6	2.5	27.3	16.4	3.3	4.2	9.0	6.7	0.8	0.0	71.8
2010-11	0.0	0.0	T	10.0	31.6	8.5	6.2	41.7	2.8	2.4	1.4	0.0	104.6
2011-12	0.0	0.0	1.0	20.3	7.7	45.5	6.9	10.8	3.7	1.3	0.3	T	97.5
2012-13	0.0	0.0	0.9	2.2	0.0	4.7	23.7	7.3	10.0	5.8	1.0	0.0	55.6
2013-	0.0	0.0	7.5	12.4	37.8	5.4							
POR= 62 YRS	T	T	2.2	12.0	14.4	14.9	12.2	11.6	9.4	6.7	1.2	T	84.6

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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. 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

## BETTLES

### ALASKA (PABT)

Bettles Airport is located on the south side of and adjacent to the Koyukuk River. The foothills of the Endicott Mountains are found to the west, north, and east of the station. The Koyukuk River valley extends for about 20 miles to the south where it then curves to the southwest. Changes in elevation for a distance of about 15 miles on all sides of the airport are small, with a very gradual rise from south to north. The land is timbered with low spruce and birch. Bettles Airport is one of four Weather Service stations located north of the Arctic Circle.

The climate of the Bettles area is typical of a continental regime. Temperatures during the long summer days are mild, with maximums mostly in the high 60s and low 70s, and occasionally in the 80s. The sun does not set during the period June 2 to July 9. The freeze-free period averages 89 days, extending from May to late August. There is no commercial agriculture in this area. Bettles provides a center for wilderness guided and unguided tours, hunting and fishing and gold mining.

Winters are typical of interior Alaska. Minimum temperatures average below zero from November through March, and readings in the -45 to -55 degree range are experienced each winter. Here, as in most of the interior, the transition from summer to winter and vice versa is rapid, resulting in short spring and fall seasons.

Annual precipitation amounts are slightly heavier than at most interior locations, but still fall well within what is expected for a continental climate. It also follows the pattern of nearly all Alaskan stations, with precipitation amounts building up to a maximum during late summer and fall months. Snow has occurred during all months except July. The total seasonal snowfall has ranged from less than 40 inches to more than 130 inches. Because of the cold temperatures, much of the snow remains on the ground during the winter.

Surface winds are seldom strong during any season of the year, nor do they show much seasonal variation. Wind directions prevail from the north ten months of the year.

# Station History

BETTLES, AK

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BETTLES FIELD	1982-01-01	1999-11-19	66° 55'	-151° 31'	644		COOP
BETTLES FIELD	1976-01-01	1981-12-31	66° 55'	-151° 31'	650		COOP,WXSVC
BETTLES FIELD	1973-01-01	1976-01-01	66° 55'	-151° 31'	653		COOP,WXSVC
BETTLES AIRPORT	2011-04-15	2012-05-22	66° 54'	-151° 30'	642		AIRWAYS,ASOS,COOP
BETTLES FIELD	1968-01-01	1973-01-01	66° 55'	-151° 31'	653		AIRWAYS,COOP
BETTLES AIRPORT	2012-05-22	Present	66° 32'	-151° 18'	643		AIRWAYS,ASOS,COOP
BETTLES FIELD	1951-04-01	1968-01-01	66° 55'	-151° 31'	673		AIRWAYS,COOP
BETTLES FIELD	1981-12-31	1982-01-01	66° 55'	-151° 31'	650		COOP
BETTLES AIRPORT	1999-11-19	2011-04-15	66° 54'	-151° 30'	642	120 FT SE	AIRWAYS,ASOS,COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1951-04-01	1999-11-19	DAILY	2400			
PRECIP	1999-11-19	2012-05-22	DAILY	2400	TB	RCRD	
TEMP	1999-11-19	2012-05-22	DAILY	2400	HYGR		
SNOWDPH	2012-05-22	Present	DAILY	2400	SNOWSTAKE		
TEMP	1951-04-01	1999-11-19	DAILY	2400			
TEMP	2012-05-22	Present	DAILY	2400	ATEMP		
PRECIP	2012-05-22	Present	DAILY	2400	SRG		

\* 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

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