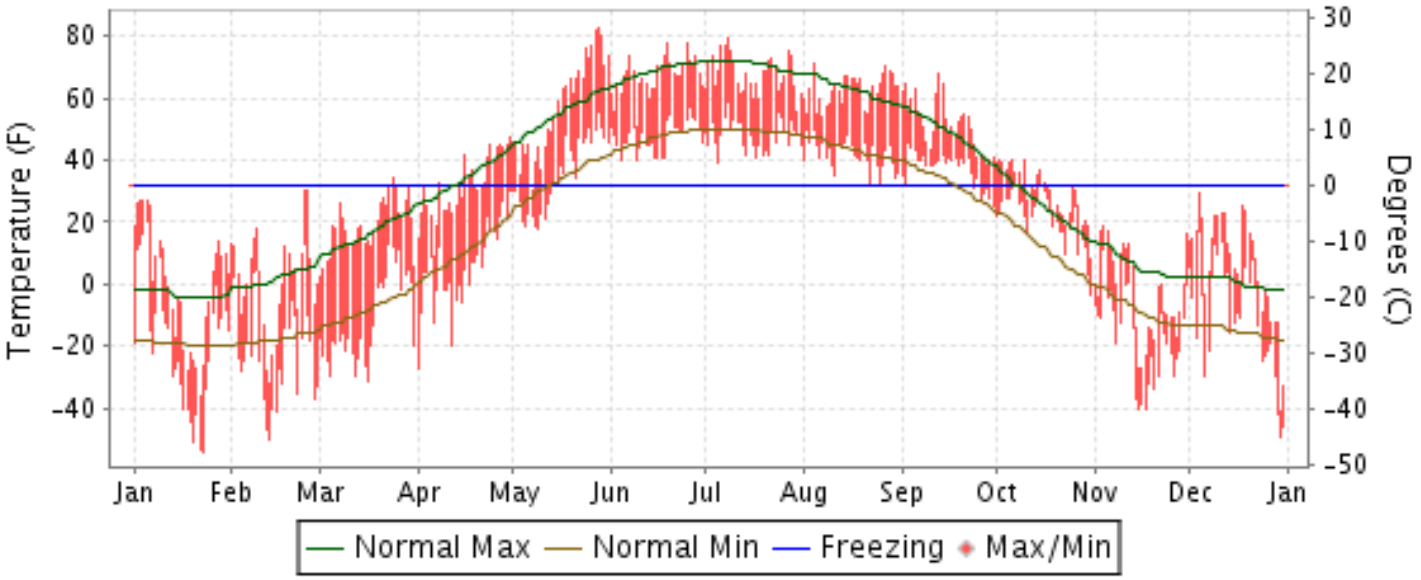
2011
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA

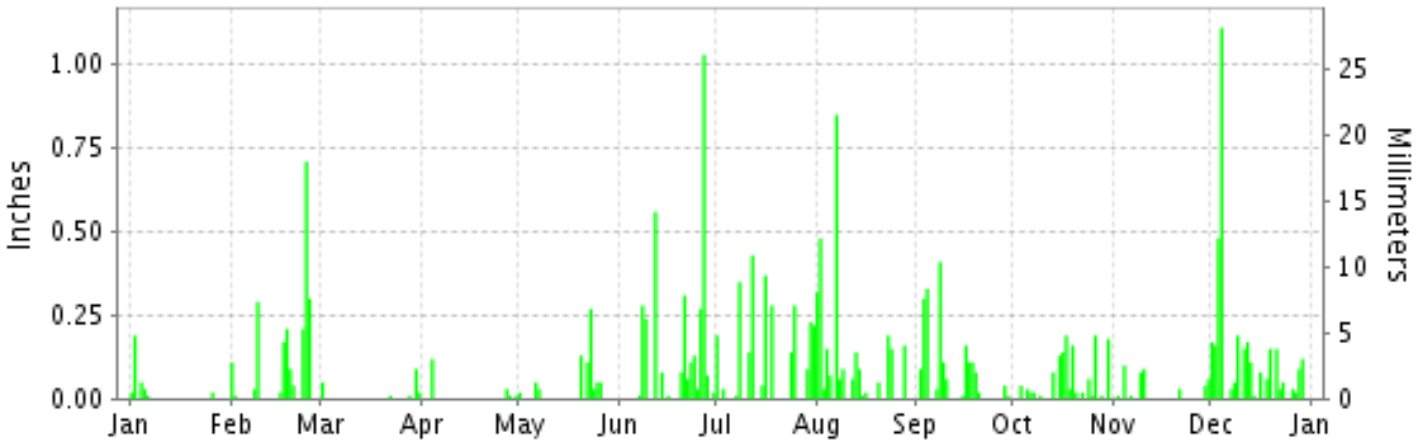
ISSN 0197-9647

BETTLES,
ALASKA (PABT)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure

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NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

DIRECTOR NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2011
BETTLES (PABT)

LATITUDE: 66° 54'N **LONGITUDE:** -151° 30'W **ELEVATION (FT):** GRND: 642 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	-0.0	1.0	18.7	31.7	57.6	67.3	67.9	62.6	51.7	29.7	-2.3	6.4	32.7
	HIGHEST DAILY MAXIMUM	27	30	34	47	83	78	79	71	68	40	19	29	83
	DATE OF OCCURRENCE	05+	25+	24	30	28	25+	08	04	13	10+	04	04	MAY 28
	MEAN DAILY MINIMUM	-18.8	-21.0	-11.5	5.5	35.4	47.7	48.0	41.9	37.3	21.1	-16.5	-9.9	13.3
	LOWEST DAILY MINIMUM	-54	-50	-31	-27	18	40	39	33	25	-3	-40	-49	-54
	DATE OF OCCURRENCE	23	13	16	01	09	09+	05	25+	30	31	17+	30	JAN 23
	AVERAGE DRY BULB	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
	MEAN WET BULB			2.2	17.0	39.9	50.4	52.1	48.3	40.9	24.3		2.9	
	MEAN DEW POINT			-4.8	7.7	30.5	43.1	46.8	44.2	36.4	21.7		-0.6	
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 70	0	0	0	0	8	11	12	2	0	0	0	0	33
	MAXIMUM <= 32°	31	28	30	17	1	0	0	0	0	19	30	31	187
	MINIMUM <= 32°	31	28	31	30	15	0	0	0	7	30	30	31	233
	MINIMUM <= 0°	26	24	22	11	0	0	0	0	0	1	27	19	130
H/C	HEATING DEGREE DAYS	2301	2092	1895	1383	573	217	218	388	608	1217	2223	2063	15178
	COOLING DEGREE DAYS	0	0	0	0	7	2	5	0	0	0	0	0	14
RH	MEAN (PERCENT)	83	79	68	60	56	62	70	77	76	85	78	82	73
	HOUR 03 LST	82	80	77	72	73	79	86	92	84	86	80	82	81
	HOUR 09 LST	81	80	76	59	57	65	73	82	82	88	79	84	76
	HOUR 15 LST	83	75	53	48	41	50	53	56	63	81	77	81	63
	HOUR 21 LST	84	81	71	59	48	56	63	79	75	85	78	81	72
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	2	4	0	0	1	0	2	1	1	2	0	1	14
	THUNDERSTORMS	0	0	0	0	2	5	5	0	0	0	0	0	12
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.)	29.32	29.39	29.24	29.15	29.19	29.10	29.06	29.05	28.90	28.94	29.10	28.94	29.12
	MEAN SEA-LEVEL PRESS. (IN.)	30.09	30.17	30.01	29.90	29.91	29.81	29.77	29.77	29.61	29.67	29.88	29.70	29.86
WINDS	RESULTANT SPEED (MPH)	16	0.6	2.5	2.6	1.0	0.3	1.6	0.7	2.4	2.7	3.3	2.4	2.5
	RES. DIR. (TENS OF DEGS.)	35	30	01	03	06	16	21	06	02	36	36	35	36
	MEAN SPEED (MPH)	2.5	3.0	4.0	5.0	5.4	4.0	3.6	2.8	4.1	3.8	3.9	4.4	3.9
	PREVAIL.DIR.(TENS OF DEGS.)	33	02	02	05	02	02	14	02	02	32	35	33	02
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)		26	15	21	23	18	20	18	22	16	16	20	
	DIR. (TENS OF DEGS.)	03	25	03	05	11	32	25	04	03	03	01	23	
	DATE OF OCCURRENCE	01	25	29	22	22	19	10	20	20	25	22	05	
	MAXIMUM 3-SECOND WIND:													
	SPEED (MPH)	22	41	21	30	35	30	25	30	30	22	24	30	41
	DIR. (TENS OF DEGS.)	22	25	02	05	20	12	26	05	04	03	01	25	25
	DATE OF OCCURRENCE	06	25	29	22	20	09	10	20	20	25	22	05	FEB 25
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	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
	GREATEST 24-HOUR (IN.)	0.19	0.71	0.11	0.12	0.30	1.07	0.45	0.85	0.50	0.27	0.10	1.59	1.59
	DATE OF OCCURRENCE	02	24	30-31	04	22-23	26-27	11-12	07	08-09	16-17	04	03-04	DEC 03-04
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	6	12	5	4	9	16	14	17	15	18	8	21	145
	PRECIPITATION 0.10	1	7	0	1	3	8	10	8	7	6	1	11	63
	PRECIPITATION 1.00	0	0	0	0	0	1	0	0	0	0	0	1	2
SNOWFALL	SNOW,ICE PELLETS,HAIL	6.2	41.7	2.8	2.4	1.4	0.0	0.0	0.0	1.0	20.3	7.7	45.5	129.0
	TOTAL (IN.)	3.0	11.6	1.0	2.3	1.0	0.0	0.0	0.0	0.6	3.7	3.2	9.0	11.6
	GREATEST 24-HOUR (IN.)	02	23	30	04	06				29	30	09	04	FEB 23
	DATE OF OCCURRENCE	24	49	39	34	14	0	0	0	0	10	13	30	49
	MAXIMUM SNOW DEPTH (IN.)	05+	25	01	07+	02+					31	12+	31+	FEB 25
	DATE OF OCCURRENCE													
	NUMBER OF DAYS WITH:													
	SNOWFALL >= 1.0	2	7	1	1	1	0	0	0	0	7	2	15	36

NORMALS, MEANS, AND EXTREMES
BETTLES (PABT)

LATITUDE: 66° 54'N **LONGITUDE:** -151° 30'W **ELEVATION (FT):** GRND: 642 BARO: 652 **TIME ZONE:** ALASKA (UTC -9) **WBAN:** 26533

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	-3.1	2.0	16.4	34.1	54.9	68.7	70.8	63.2	49.1	25.4	6.4	.4	32.4
	MEAN DAILY MAXIMUM	60	-4.2	2.0	14.6	32.9	53.6	67.8	69.4	62.4	48.9	25.6	6.0	-1.1	31.5
	HIGHEST DAILY MAXIMUM	61	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.	60	25.3	26.1	34.4	49.6	71.0	81.1	83.4	76.8	63.6	42.6	28.1	24.4	50.5
	NORMAL DAILY MINIMUM	30	-19.2	-17.7	-8.0	10.6	33.7	46.9	49.5	43.7	32.8	11.9	-8.0	-15.1	13.4
	MEAN DAILY MINIMUM	60	-19.9	-16.6	-9.1	10.6	33.7	46.6	48.8	43.3	32.3	12.3	-7.9	-16.4	13.1
	LOWEST DAILY MINIMUM	61	-70	-64	-56	-37	-10	27	29	22	0	-35	-57	-59	-70
	YEAR OF OCCURRENCE		1975	1999	1964	1986	1952	1960	1955	1974	2010	1992	1974	1974	JAN 1975
	MEAN OF EXTREME MINS.	60	-49.3	-44.3	-34.5	-15.3	18.4	35.1	38.1	30.3	16.6	-11.0	-33.3	-44.6	-7.7
	NORMAL DRY BULB	30	-11.2	-7.9	4.2	22.4	44.3	57.8	60.2	53.5	41.0	18.7	-.8	-7.4	22.9
	MEAN DRY BULB	60	-11.8	-7.2	2.8	21.8	43.6	57.6	59.1	52.8	40.6	19.0	-0.8	-8.7	22.4
	MEAN WET BULB	22	2.6	2.8	7.8	21.7	37.6	49.2	51.8	47.5	37.6	22.4	4.2	3.5	24.1
	MEAN DEW POINT	22	-3.1	-3.4	2.4	16.9	32.8	44.1	47.9	44.3	34.6	19.2	-0.6	-1.1	19.5
	NORMAL NO. DAYS WITH:														
	MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	1.3	12.7	15.8	5.4	0.4	0.0	0.0	0.0	35.6
	MAXIMUM <= 32	30	30.1	26.9	27.5	13.0	0.4	0.0	0.0	0.0	0.9	23.4	29.4	30.9	182.5
	MINIMUM <= 32	30	30.8	27.3	30.8	28.4	12.1	0.2	0.1	2.0	14.2	29.2	29.9	31.0	236.0
	MINIMUM <= 0	30	24.0	22.1	21.2	7.5	0.2	0.0	0.0	0.0	0.1	6.5	20.8	24.7	127.1
H/C	NORMAL HEATING DEG. DAYS	30	2365	2041	1888	1280	642	227	170	366	721	1437	1975	2245	15357
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	11	20	7	0	0	0	0	38
RH	NORMAL (PERCENT)	30								76	76				
	HOUR 03 LST	30								90	85				
	HOUR 09 LST	30								79	79				
	HOUR 15 LST	30								61	62				
	HOUR 21 LST	30								75	79				
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	46	1.4	0.5	0.2	0.5	0.3	0.2	0.8	1.3	1.0	0.8	0.6	0.4	8.0
	THUNDERSTORMS	58	0.0	0.0	0.0	0.0	0.6	3.0	3.0	0.4	0.1	0.0	0.0	0.0	7.1
CLOUDINESS	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
PR	MEAN STATION PRESSURE(IN)	28	29.17	29.25	29.23	29.18	29.18	29.14	29.14	29.16	29.12	29.09	29.13	29.10	29.16
	MEAN SEA-LEVEL PRES. (IN)	28	29.94	30.00	30.00	29.93	29.91	29.86	29.89	29.88	29.83	29.84	29.89	29.86	29.90
WINDS	MEAN SPEED (MPH)	28	5.0	5.2	6.1	6.7	6.6	6.0	5.8	5.4	5.7	5.7	5.0	5.0	5.7
	PREVAIL.DIR(TENS OF DEGS)	28	34	34	33	02	01	23	23	15	02	36	34	34	34
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	11	28	28	29	28	23	29	30	22	24	23	24	25	30
	DIR. (TENS OF DEGS)		21	23	05	23	11	27	24	01	23	06	04	07	24
	YEAR OF OCCURRENCE		2008	2006	2005	2002	2011	2003	2002	2002	2003	2006	2007	2008	JUL 2002
	MAXIMUM 3-SECOND														
	SPEED (MPH)	12	40	44	48	38	35	45	43	36	32	38	38	48	48
	DIR. (TENS OF DEGS)		05	05	05	04	20	26	25	36	07	06	05	07	07
	YEAR OF OCCURRENCE		2004	2004	2005	2000	2011	2003	2002	2000	2007	2006	2010	2008	DEC 2008
PRECIPITATION	NORMAL (IN)	30	0.84	0.61	0.55	0.38	0.85	1.43	2.10	2.54	1.82	1.08	0.90	0.87	13.97
	MAXIMUM MONTHLY (IN)	61	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)	61	T	T	T	0.01	0.04	T	0.00	0.41	0.13	0.12	0.02	0.12	0.00
	YEAR OF OCCURRENCE		1961	1979	1960	1986	1959	1959	1959	1958	1984	1974	1995	1995	JUL 1959
	MAXIMUM IN 24 HOURS (IN)	61	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	8.3	7.0	7.5	5.6	7.1	10.7	12.2	13.5	12.1	11.7	10.3	11.1	117.1
	PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.0	*	*	0.1	0.1	*	*	*	0.0	0.2
SNOWFALL	NORMAL (IN)	30	14.8	9.8	9.9	5.3	0.8	0.0	0.0	0.*	2.7	13.2	14.4	16.8	87.7
	MAXIMUM MONTHLY (IN)	61	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	2008	2009	1969	1996	1972	1967	2011	JAN 1973
	MAXIMUM IN 24 HOURS (IN)	61	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	1987	2009	1969	1972	1976	1994	2003	JAN 1973
	MAXIMUM SNOW DEPTH (IN)	59	71	61	73	86	50	0	0	2	9	22	42	59	86
	YEAR OF OCCURRENCE		1973	1968	1963	1963	1963			1969	1968	1994	1994	1994	APR 1963
	NORMAL NO. DAYS WITH:														
	SNOWFALL >= 1.0	30	4.2	3.2	2.9	1.1	0.4	0.0	0.0	0.0	0.9	4.4	3.7	4.8	25.6

PRECIPITATION (inches) 2011 BETTLES (PABT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	0.35	0.32	1.24	1.51	0.36	1.70	4.29	2.51	4.14	0.38	0.72	1.01	18.53
1983	0.05	0.12	0.11	0.33	0.22	0.18	1.77	4.07	1.81	1.23	0.22	0.17	10.28
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
POR= 60 YRS	0.78	0.78	0.63	0.60	0.69	1.43	2.01	2.49	1.79	1.12	0.92	0.91	14.15

WBAN : 26533

AVERAGE TEMPERATURE (°F) 2011 BETTLES (PABT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	-14.9	-8.9	6.0	17.2	39.6	56.9	60.4	53.3	43.0	9.6	-0.6	-2.1	21.6
1983	-17.2	-2.3	4.7	26.9	43.3	58.4	61.2	48.6	33.9	14.0	8.5	-7.1	22.7
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
POR= 60 YRS	-11.8	-7.2	2.8	21.8	43.6	57.6	59.1	52.8	40.6	19.0	-0.8	-8.7	22.4

HEATING DEGREE DAYS (base 65°F) 2011 BETTLES (PABT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	170	356	654	1716	1969	2079	2549	1883	1866	1135	677	223	15277
1983-84	144	498	925	1575	1692	2240	2525	2592	1730	1499	750	144	16314
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-	218	388	608	1217	2223	2063							

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COOLING DEGREE DAYS (base 65°F) 2011 BETTLES (PABT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	0	0	13	31	0	0	0	0	0	44
1983	0	0	0	0	9	30	33	0	0	0	0	0	72
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	
1986	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

SNOWFALL (inches) 2011 BETTLES (PABT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	T	10.0	11.0	20.5	1.5	3.5	1.7	5.9	T	0.0	54.1
1983-84	0.0	T	3.7	21.7	7.5	6.6	12.4	11.0	3.0	34.7	2.0	0.0	102.6
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-	0.0	0.0	1.0	20.3	7.7	45.5							
POR= 60 YRS	T	T	2.1	12.1	14.3	15.2	12.1	11.7	9.4	6.8	1.2	T	84.9

WBAN : 26533

REFERENCE NOTES :

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).

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).

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.

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: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm
SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.

NOTE:
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.

2011
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	1973-01-01	1976-01-01	66° 55'	-151° 31'	653		COOP,WXSVC
BETTLES AIRPORT	2011-04-15	Present	66° 54'	-151° 30'	642		AIRWAYS,ASOS,COOP
BETTLES FIELD	1982-01-01	1999-11-19	66° 55'	-151° 31'	644		COOP
BETTLES FIELD	1951-04-01	1968-01-01	66° 55'	-151° 31'	673		AIRWAYS,COOP
BETTLES FIELD	1976-01-01	1981-12-31	66° 55'	-151° 31'	650		COOP,WXSVC
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
BETTLES FIELD	1968-01-01	1973-01-01	66° 55'	-151° 31'	653		AIRWAYS,COOP

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1999-11-19	Present	DAILY	2400	HYGR		
TEMP	1951-04-01	1999-11-19	DAILY	2400			
PRECIP	1951-04-01	1999-11-19	DAILY	2400			
PRECIP	1999-11-19	Present	DAILY	2400	TB	RCRD	

* For explanation of codes and abbrevitions 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

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