

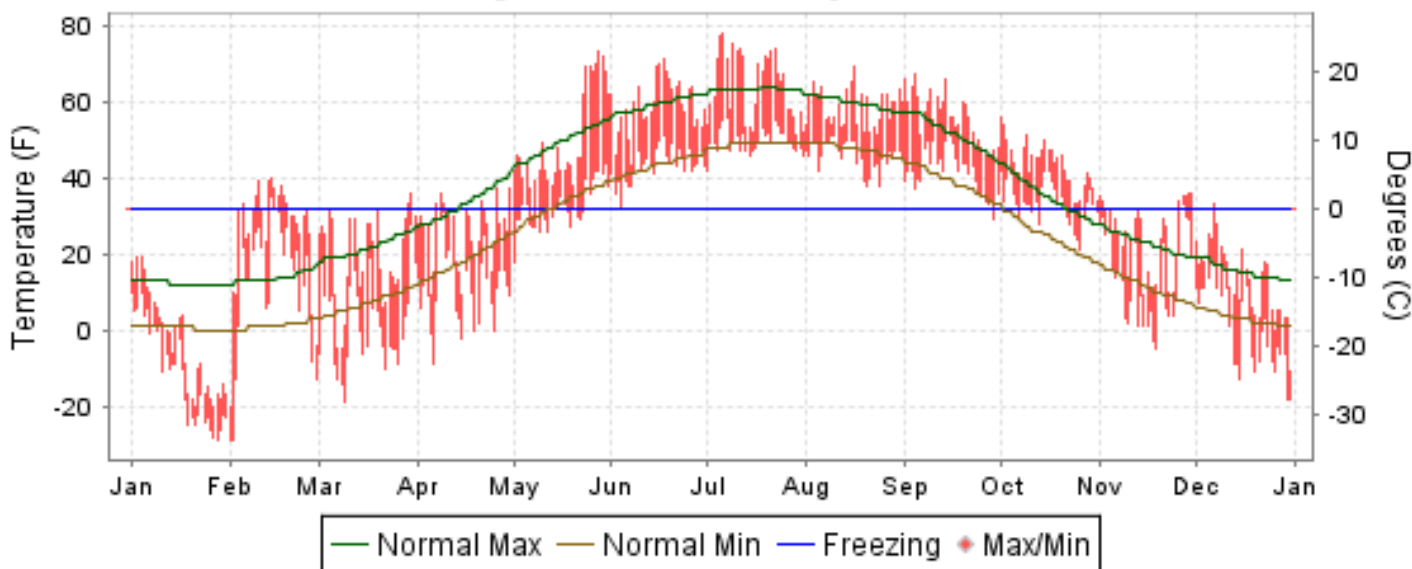


# 2006 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

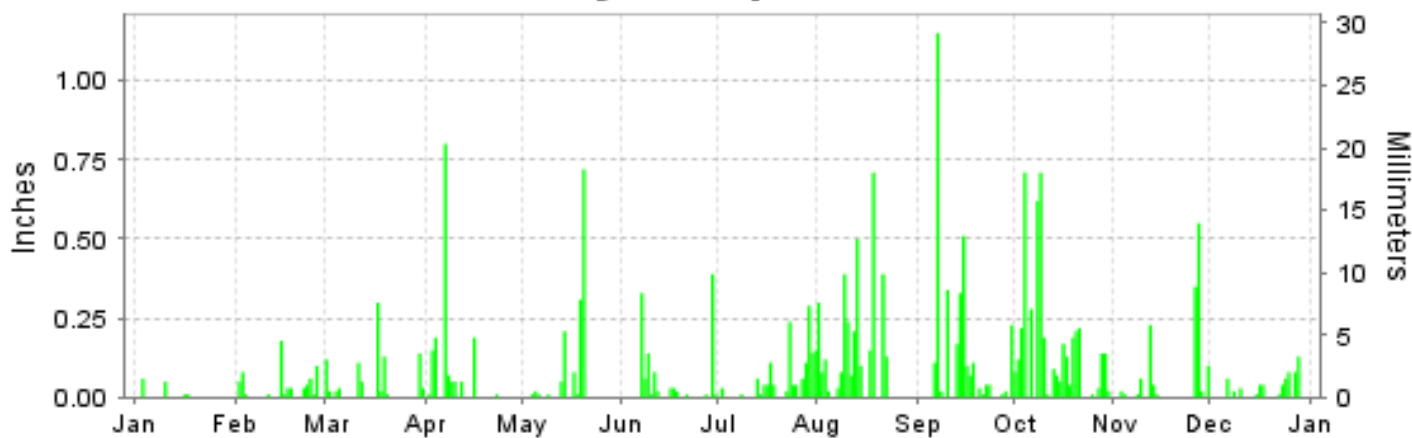
ISSN 0197-9620

## BETHEL, ALASKA (PABE)

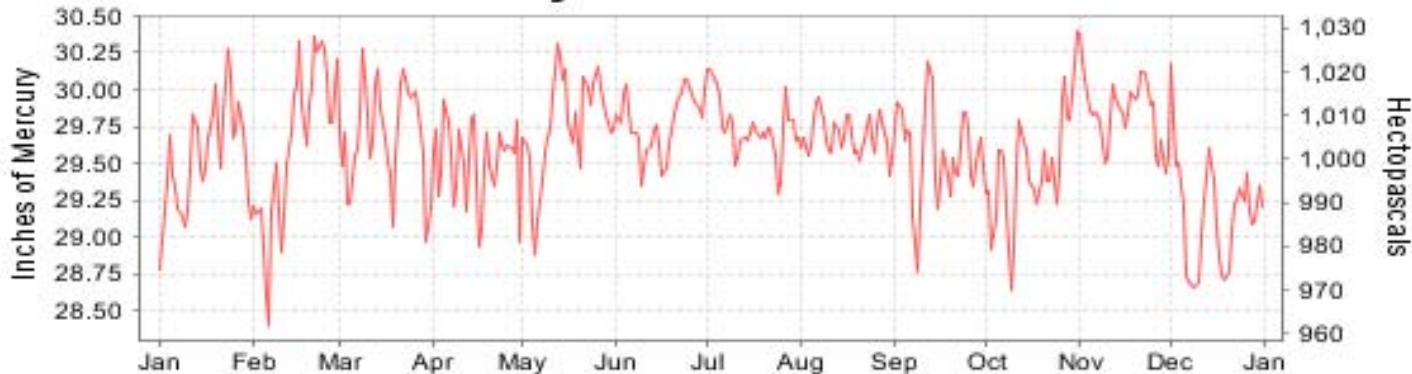
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2006

## BETHEL (PABE)

LATITUDE: 60° 47'N      LONGITUDE: -161° 49'W      ELEVATION (FT): GRND: 102    BARO: 145      TIME ZONE: ALASKA (UTC -9)      WBAN: 26615

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	-3.0	26.0	19.4	26.2	49.5	59.1	64.5	58.5	55.7	43.4	24.6	13.4	36.4	
	HIGHEST DAILY MAXIMUM	19	40	36	37	73	71	78	69	67	56	36	33	78	
	DATE OF OCCURRENCE	04+	14	30	30+	28	17	06	16	04	01	30+	07	JUL 06	
	MEAN DAILY MINIMUM	-11.1	12.0	1.7	11.3	32.3	43.3	49.7	45.9	41.6	33.6	13.3	1.1	22.9	
	LOWEST DAILY MINIMUM	-29	-29	-19	-9	18	32	42	38	29	21	-5	-18	-29	
	DATE OF OCCURRENCE	28	02+	09	06	01	04	01	24+	29	26	19	31+	FEB 02+	
	AVERAGE DRY BULB	-6.9	19.0	10.6	18.8	40.9	51.2	57.1	52.2	48.7	38.5	19.0	7.3	29.7	
	MEAN WET BULB	-7.1	18.7	10.3	18.0	37.4	46.7	52.0	48.8	45.8	36.5	17.7	7.1	27.7	
	MEAN DEW POINT	-11.2	15.3	6.5	15.1	33.0	41.8	48.0	45.6	42.7	34.2	14.3	4.0	24.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	3	2	13	0	0	0	0	0	0	18
	MAXIMUM <= 32°	31	18	29	24	1	0	0	0	0	0	23	30	156	
	MINIMUM <= 32°	31	27	31	30	19	1	0	0	1	10	29	31	210	
MINIMUM <= 0°	23	5	16	5	0	0	0	0	0	0	2	15	66		
H/C	HEATING DEGREE DAYS	2228	1282	1680	1382	738	405	239	388	484	813	1375	1779	12793	
	COOLING DEGREE DAYS	0	0	0	0	0	0	2	0	0	0	0	0	2	
RH	MEAN (PERCENT)	79	81	80	84	76	73	76	80	81	86	81	82	80	
	HOUR 03 LST	79	82	81	85	86	87	88	89	89	88	82	83	85	
	HOUR 09 LST	79	82	81	86	82	79	82	87	90	90	82	83	84	
	HOUR 15 LST	78	78	79	80	66	59	63	68	68	78	78	81	73	
	HOUR 21 LST	79	83	82	84	72	68	69	77	80	88	82	82	79	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	5	4	3	7	2	3	6	5	2	5	1	44	
	THUNDERSTORMS	0	0	0	0	0	0	1	0	0	1	0	0	2	
CLOUDNESS	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.)	29.52	29.60	29.70	29.54	29.77	29.78	29.73	29.68	29.55	29.49	29.75	29.15	29.61	
	MEAN SEA-LEVEL PRESS. (IN.)	29.70	29.80	29.88	29.71	29.93	29.95	29.91	29.85	29.73	29.66	29.90	29.33	29.78	
WINDS	RESULTANT SPEED (MPH)	9.4	6.8	4.2	4.9	2.9	2.3	4.6	4.0	0.7	3.3	6.1	5.9	1.6	
	RES. DIR. (TENS OF DEGS.)	01	17	02	34	32	22	23	30	18	17	36	01	35	
	MEAN SPEED (MPH)	11.1	16.1	11.9	12.8	11.4	11.1	10.4	10.0	8.4	11.0	12.0	10.5	11.4	
	PREVAIL.DIR.(TENS OF DEGS.)	02	16	05	31	32	20	31	32	07	16	34	03	02	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	48	36	31	29	32	39	29	32	40	35	43	48	
	DIR. (TENS OF DEGS.)	02	17	17	01	31	20	22	21	17	16	34	03	17	
	DATE OF OCCURRENCE	16	18	04	04	20	28	28	17	07	28	16	27	FEB 18	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	33	58	41	36	35	37	46	33	40	52	41	52	58	
DIR. (TENS OF DEGS.)	01	17	16	01	31	20	22	32	16	20	34	03	17		
DATE OF OCCURRENCE	16	18	01	04	21	28	28	31	07	29	16	27	FEB 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.13	0.64	0.98	1.57	1.43	1.14	1.43	3.52	3.29	4.45	1.40	0.60	20.58	
	GREATEST 24-HOUR (IN.)	0.06	0.18	0.30	0.80	0.95	0.39	0.29	0.71	1.15	0.71	0.55	0.21	1.15	
	DATE OF OCCURRENCE	03	15	17	07	19-20	29	29	18	07	09+	27	27-28	SEP 07	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	4	13	12	10	10	13	17	16	17	23	11	12	158	
PRECIPITATION 0.10	0	2	5	4	3	3	6	11	9	14	4	1	62		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	1	0	0	0	1		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.9	6.7	19.3	28.7	5.2	0.0	0.0	0.0	0.0	1.7	14.7	12.9	91.1	
	GREATEST 24-HOUR (IN.)	0.7	1.4	5.2	8.0	2.8	0.0	0.0	0.0	0.0	0.7	4.3	2.8	8.0	
	DATE OF OCCURRENCE	10	26	17	07	20					10	27	25	APR 07	
	MAXIMUM SNOW DEPTH (IN.)	9	9	22	31	5	0	0	0	0	T	5	9	31	
	DATE OF OCCURRENCE	15+	08+	21+	07	01					27+	26	30+	APR 07	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	0	3	6	6	2	0	0	0	0	0	4	5	26		

# NORMALS, MEANS, AND EXTREMES BETHEL (PABE)

**LATITUDE:** 60 ° 47'N      **LONGITUDE:** -161 ° 49'W      **ELEVATION (FT):** GRND: 102    BARO: 145      **TIME ZONE:** ALASKA (UTC -9)      **WBAN: 26615**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	12.4	13.9	21.8	33.3	49.4	59.4	63.1	59.7	51.7	35.3	23.1	15.6	36.6
	MEAN DAILY MAXIMUM	79	13.3	15.8	21.7	33.6	49.4	60.0	62.7	59.7	51.6	36.4	23.4	14.1	36.8
	HIGHEST DAILY MAXIMUM	48	48	46	46	63	80	86	83	87	72	58	51	45	87
	YEAR OF OCCURRENCE		1963	1970	1998	2004	1993	1959	1993	2003	1979	2001	2002	1963	AUG 2003
	MEAN OF EXTREME MAXS.	79	36.6	36.7	40.1	49.0	65.4	74.5	77.7	72.4	62.9	49.9	40.2	36.6	53.5
	NORMAL DAILY MINIMUM	30	.7	1.3	7.2	18.4	33.1	43.3	48.8	47.5	39.1	24.7	11.7	3.2	23.3
	MEAN DAILY MINIMUM	79	0.0	2.0	5.1	17.3	32.0	42.3	47.5	46.2	37.8	24.4	11.2	1.0	22.2
	LOWEST DAILY MINIMUM	48	-48	-39	-39	-22	4	28	31	28	18	-6	-24	-37	-48
	YEAR OF OCCURRENCE		1989	1999	1964	1964	1965	1962	1959	1984	1970	2001	1990	1998	JAN 1989
	MEAN OF EXTREME MINS.	79	-25.2	-22.6	-17.6	-5.2	20.2	33.9	40.7	38.0	27.1	7.5	-9.4	-22.5	5.4
	NORMAL DRY BULB	30	6.6	7.6	14.5	25.9	41.3	51.4	56.0	53.6	45.4	30.0	17.4	9.4	29.9
	MEAN DRY BULB	79	6.7	9.0	13.4	25.4	40.7	51.4	55.1	53.0	44.7	30.4	17.3	7.6	29.6
	MEAN WET BULB	23	9.6	13.6	16.9	26.5	38.3	47.7	51.4	50.2	43.1	31.7	18.8	13.3	30.1
	MEAN DEW POINT	23	6.2	9.7	13.1	22.6	33.8	43.3	48.8	48.1	40.8	29.4	16.0	10.4	26.9
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	0.5	3.1	6.1	2.3	0.1	0.0	0.0	0.0	12.1
	MAXIMUM <= 32	30	24.9	22.2	21.3	12.0	1.2	0.0	0.0	0.0	0.1	10.9	21.0	23.8	137.4
MINIMUM <= 32	30	30.5	27.8	30.5	28.1	15.2	0.6	0.0	0.1	5.8	25.5	28.3	30.3	222.7	
MINIMUM <= 0	30	15.1	14.2	11.7	3.9	0.0	0.0	0.0	0.0	0.0	0.4	6.6	14.6	66.5	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1813	1608	1566	1175	738	410	280	355	587	1085	1428	1724	12769
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	1	0	0	0	0	1
<b>RH</b>	NORMAL (PERCENT)	30	78	76	79	79	75	74	80	85	83	83	83	80	80
	HOURLY 03 LST	30	79	78	82	85	89	89	93	93	91	87	85	82	86
	HOURLY 09 LST	30	79	77	81	82	79	78	86	90	90	87	85	82	83
	HOURLY 15 LST	30	78	75	76	69	61	58	66	73	70	73	81	81	72
	HOURLY 21 LST	30	79	77	81	79	71	67	74	83	84	84	83	81	79
<b>S</b>	PERCENT POSSIBLE SUNSHINE														
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG (VISBY <= 1/4 MI)	43	2.6	2.6	3.0	3.1	3.7	2.7	3.3	5.2	3.9	4.2	3.8	3.3	41.4
	THUNDERSTORMS	58	0.0	0.0	0.0	0.0	0.2	0.7	0.6	0.4	0.0	0.0	0.0	0.0	1.9
<b>CLOUDNESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	34	5.3	4.7	5.0	5.5	6.1	6.6	6.6	6.8	6.4	6.2	5.7	5.3	5.9
	MIDNIGHT-MIDNIGHT (OKTAS)	22	4.6	4.1	4.6	5.3	5.7	6.3	6.4	6.6	6.0	5.7	5.0	4.9	5.4
	MEAN NO. DAYS WITH: CLEAR	34	8.0	9.9	9.3	6.4	3.6	1.7	1.7	1.5	2.2	3.5	5.5	7.6	60.9
	PARTLY CLOUDY	34	4.7	4.1	5.3	6.3	7.7	6.9	5.2	3.9	4.8	5.1	4.9	4.8	63.7
	CLOUDY	34	18.3	14.2	16.5	17.3	19.6	21.4	23.0	24.8	22.1	21.5	18.7	17.8	235.2
<b>PR</b>	MEAN STATION PRESSURE (IN)	23	29.49	29.55	29.63	29.65	29.70	29.73	29.78	29.72	29.58	29.53	29.49	29.39	29.60
	MEAN SEA-LEVEL PRES. (IN)	23	29.70	29.77	29.81	29.84	29.88	29.90	29.95	29.89	29.77	29.72	29.69	29.58	29.79
<b>WINDS</b>	MEAN SPEED (MPH)	23	14.4	13.9	13.3	11.9	11.0	9.9	9.8	10.8	10.9	11.8	12.5	12.8	11.9
	PREVAIL. DIR (TENS OF DEGS)	26	03	03	03	03	32	21	21	19	20	04	04	03	03
	MAXIMUM 2-MINUTE: SPEED (MPH)	8	56	52	46	53	37	32	40	41	40	41	49	45	56
	DIR. (TENS OF DEGS)		17	11	01	18	19	20	17	17	19	27	04	03	17
	YEAR OF OCCURRENCE		2000	2004	2003	2005	2004	2006	1999	2000	2005	2005	2004	2004	JAN 2000
	MAXIMUM 5-SECOND SPEED (MPH)	8	67	62	53	62	47	38	52	52	48	52	61	52	67
	DIR. (TENS OF DEGS)		17	11	01	19	19	19	17	18	19	20	04	03	17
YEAR OF OCCURRENCE		2000	2004	2003	2005	2004	2003	1999	2000	2005	2006	2004	2006	JAN 2000	
<b>PRECIPITATION</b>	NORMAL (IN)	30	0.62	0.51	0.67	0.65	0.85	1.60	2.03	3.02	2.31	1.43	1.37	1.12	16.18
	MAXIMUM MONTHLY (IN)	48	2.53	3.03	3.44	3.89	3.63	4.30	4.19	6.81	5.40	4.45	4.26	3.49	6.81
	YEAR OF OCCURRENCE		1993	1996	1991	1979	2002	1999	2001	2001	2005	2006	2003	1992	AUG 2001
	MINIMUM MONTHLY (IN)	48	0.04	T	T	0.02	0.10	0.25	0.56	0.99	0.42	0.11	0.04	0.11	T
	YEAR OF OCCURRENCE		2004	1984	1986	1985	1967	1974	1988	1976	1968	1965	1969	1973	MAR 1986
	MAXIMUM IN 24 HOURS (IN)	48	0.85	1.05	0.64	0.94	1.35	1.37	1.22	1.90	2.02	1.55	1.63	1.34	2.02
	YEAR OF OCCURRENCE		1982	1996	1991	1979	2002	1981	1966	1994	1971	1974	1990	1970	SEP 1971
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.7	5.9	8.6	8.9	11.0	13.2	15.1	18.3	17.2	12.7	11.8	11.0	142.4
PRECIPITATION >= 1.00	30	0.0	*	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.5	
<b>SNOWFALL</b>	NORMAL (IN)	30	7.0	5.3	7.9	4.6	1.8	0.1	0.0	0.0	0.4	3.8	10.3	10.8	52.0
	MAXIMUM MONTHLY (IN)	48	22.2	28.8	30.6	28.7	7.7	2.2	T	0.0	5.5	12.8	34.7	36.0	36.0
	YEAR OF OCCURRENCE		2002	1996	1991	2006	1998	1963	1974		2004	1978	1994	1992	DEC 1992
	MAXIMUM IN 24 HOURS (IN)	48	7.8	7.3	8.2	4.7	6.2	1.2	T	0.0	3.7	6.3	10.0	11.0	11.0
	YEAR OF OCCURRENCE		1987	1996	1974	1975	2002	1963	1974		2004	1996	1990	2004	DEC 2004
	MAXIMUM SNOW DEPTH (IN)	57	45	32	45	33	20	0	0	0	3	7	19	24	45
	YEAR OF OCCURRENCE		1952	1956	1951	1951	1977				1992	1996	1999	1994	JAN 1952
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.1	2.0	3.0	1.3	0.5	0.0	0.0	0.0	0.2	1.2	3.2	3.1	16.6	

**PRECIPITATION (inches) 2006 BETHEL (PABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	0.20	0.32	0.96	0.50	0.75	1.98	1.90	2.01	3.11	1.47	0.60	1.55	15.35
1978	0.17	0.10	0.08	1.32	0.74	2.78	1.65	3.63	1.40	1.43	2.21	1.96	17.47
1979	0.78	0.10	0.58	3.89	0.33	2.63	2.14	2.34	1.25	0.96	3.31	1.22	19.53
1980	0.86	0.74	1.15	0.39	0.84	3.33	4.00	2.72	0.95	0.90	0.20	0.24	16.32
1981	0.61	1.00	0.41	0.59	0.16	1.79	1.51	1.84	0.95	1.62	2.12	0.40	13.00
1982	1.71	0.63	1.59	0.89	0.88	1.24	3.82	3.53	4.66	2.21	1.61	0.50	23.27
1983	0.11	0.07	0.06	2.62	0.41	0.79	2.26	1.52	1.40	2.18	0.62	1.03	13.07
1984	0.17	T	0.10	0.46	0.39	1.57	1.02	2.85	1.10	0.44	0.66	3.33	12.09
1985	0.93	0.24	1.76	0.02	1.73	1.84	1.24	4.17	4.47	2.14	1.33	0.86	20.73
1986	0.65	0.57	T	0.39	0.78	1.25	1.97	4.40	3.10	1.28	1.90	0.45	16.74
1987	0.72	0.30	0.23	0.05	1.20	1.45	1.89	2.43	1.41	1.43	0.53	1.48	13.12
1988	0.42	0.35	0.45	0.45	1.51	1.59	0.56	3.75	0.73	0.61	0.43	1.68	12.53
1989	1.14	1.76	0.38	0.65	1.46	2.57	1.71	3.61	2.85	1.75	0.92	1.04	19.84
1990	0.92	0.96	0.79	0.25	1.08	0.83	2.72	2.84	3.21	2.05	3.01	2.28	20.94
1991	0.23	0.15	3.44	0.30	0.79	1.20	1.51	1.94	1.72	1.55	0.72	0.91	14.46
1992	0.16	0.50	0.53	0.04	0.79	1.89	1.42	3.52	2.19	1.07	2.22	3.49	17.82
1993	2.53	0.50	0.75	0.31	0.80	1.28	0.67	3.44	4.79	2.11	2.60	0.78	20.56
1994	0.50	0.46	1.05	0.95	0.49	2.26	2.78	5.49	1.44	1.32	4.19	1.53	22.46
1995	0.42	0.72	0.07	0.53	1.59	1.49	1.61	3.59	1.94	0.94	0.10	0.46	13.46
1996	0.21	3.03	0.95	0.06	0.62	1.09	3.83	2.80	1.08	.99	2.25	.86	17.77
1997	0.33	0.40	0.18	0.30	1.14	1.60	1.11	2.50	1.47	0.15	1.53	0.87	11.58
1998	0.57	0.08	0.88	0.96	2.61	0.93	2.74	3.20	3.01	1.62	1.30	0.54	18.44
1999	0.45	0.10	0.13	1.06	0.48	4.30	3.15	2.16	2.91	0.42	0.95	0.34	16.45
2000	1.24	0.72	0.75	0.20	0.25	1.67	4.15	4.60	3.37	0.87	2.49	1.39	21.70
2001	0.76	1.13	0.71	2.28	0.47	1.08	4.19	6.81	1.66	2.35	0.07	0.46	21.97
2002	1.63	0.70	0.48	1.44	3.63	2.00	2.13	1.16	3.97	1.61	0.91	0.29	19.95
2003	0.26	1.33	0.26	1.80	1.80	2.64	2.87	4.76	1.58	0.95	4.26	0.96	23.47
2004	0.04	0.35	0.52	0.41	2.42	2.14	2.84	2.01	3.20	2.83	2.06	0.98	19.80
2005	0.43	0.98	0.23	0.19	2.02	2.05	1.23	3.80	5.40	3.23	1.57	1.44	22.57
2006	0.13	0.64	0.98	1.57	1.43	1.14	1.43	3.52	3.29	4.45	1.40	0.60	20.58
POR= 79 YRS	0.78	0.73	0.80	0.67	0.95	1.40	2.20	3.61	2.63	1.51	1.17	0.98	17.43

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**AVERAGE TEMPERATURE (°F) 2006 BETHEL (PABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977	21.7	18.7	4.7	13.8	35.5	52.6	56.1	58.6	47.5	28.9	10.9	11.0	30.0
1978	19.0	12.7	13.9	30.5	44.0	45.1	54.0	55.3	44.6	27.6	24.0	21.5	32.7
1979	21.3	-5.0	18.1	31.5	44.3	47.8	53.6	53.1	44.8	34.0	25.3	-1.8	30.6
1980	0.2	12.0	20.3	30.5	42.7	46.3	54.8	50.7	44.9	31.9	18.7	-0.8	29.4
1981	20.9	12.4	29.5	32.3	48.1	52.4	54.2	54.1	44.5	31.8	17.9	7.9	33.8
1982	12.0	12.1	19.2	17.3	38.6	51.9	53.3	55.1	46.7	28.9	20.7	13.2	30.8
1983	4.9	12.0	18.7	27.5	43.0	51.3	53.7	49.5	42.2	26.5	21.1	20.8	30.9
1984	5.7	-13.2	24.8	22.0	38.1	54.0	55.1	49.7	46.7	30.2	16.4	19.4	29.1
1985	25.7	4.9	13.8	8.3	36.5	47.7	58.8	53.6	45.5	27.0	24.4	25.4	31.0
1986	1.7	15.7	13.1	22.8	39.1	52.5	55.1	51.4	45.0	29.0	20.4	21.6	30.6
1987	9.2	11.1	19.8	23.5	39.3	50.4	55.9	56.3	42.2	34.4	12.8	1.8	29.7
1988	15.1	9.2	6.6	25.3	43.8	52.3	60.0	52.3	45.1	27.2	7.0	11.8	29.6
1989	-13.0	26.1	16.6	29.0	38.1	52.2	54.6	54.2	48.3	31.7	8.8	11.8	29.9
1990	2.7	-12.3	13.8	33.7	43.6	52.2	57.5	55.4	43.7	30.3	16.9	9.4	28.9
1991	9.2	5.9	18.1	30.1	43.9	53.5	57.4	53.7	49.6	35.8	13.5	2.0	31.1
1992	5.2	-0.3	10.2	26.0	36.4	52.6	57.4	53.3	37.7	26.7	16.9	9.1	27.6
1993	3.9	19.3	21.6	34.9	45.8	53.6	57.7	54.2	44.6	34.5	24.9	16.3	34.3
1994	7.2	10.8	7.7	29.3	44.2	52.4	55.6	52.3	45.6	27.4	16.8	7.6	29.7
1995	9.7	12.9	9.4	31.6	46.3	52.2	56.7	53.6	50.2	31.2	12.6	10.9	31.4
1996	6.9	8.2	26.7	28.9	44.9	51.2	56.0	51.6	42.0	25.5	23.0	5.1	30.8
1997	4.1	17.6	8.3	33.9	45.4	55.1	59.0	56.0	48.9	24.3	21.5	-3	31.2
1998	.9	9.9	27.6	31.4	39.9	50.9	57.3	49.1	45.4	31.3	19.8	3.3	30.6
1999	-1.3	0.2	9.5	25.3	36.8	51.7	53.1	51.7	46.4	24.4	9.9	-10.7	24.8
2000	.9	26.1	20.5	26.8	37.7	53.3	53.6	51.0	42.5	31.5	25.8	25.2	32.9
2001	18.8	21.5	13.5	29.1	35.1	52.0	52.9	53.0	45.2	24.3	10.4	-4.6	29.3
2002	11.7	13.0	21.9	27.5	45.3	55.9	55.7	55.0	46.5	36.3	26.3	16.4	34.3
2003	12.1	22.8	15.5	33.2	42.3	54.9	56.3	55.5	44.1	35.3	25.0	6.9	33.7
2004	1.8	13.9	11.9	33.2	47.1	56.1	61.1	59.4	43.7	36.0	23.8	14.9	33.6
2005	10.9	13.8	18.5	20.9	46.2	56.0	58.1	55.9	47.1	30.2	6.3	13.8	31.5
2006	-6.9	19.0	10.6	18.8	40.9	51.2	57.1	52.2	48.7	38.5	19.0	7.3	29.7
POR= 79 YRS	6.7	9.0	13.4	25.4	40.7	51.4	55.1	53.0	44.7	30.4	17.3	7.6	29.6

**HEATING DEGREE DAYS (base 65°F) 2006 BETHEL (PABE)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	269	199	520	1112	1619	1673	1421	1463	1577	1026	645	590	12114
1978-79	334	293	605	1151	1223	1338	1347	1962	1447	998	634	508	11840
1979-80	345	361	600	952	1186	2073	2007	1532	1382	1029	682	552	12701
1980-81	315	438	594	1017	1383	2044	1362	1472	1094	977	517	371	11584
1981-82	330	335	609	1023	1407	1768	1641	1482	1410	1427	808	387	12627
1982-83	355	302	544	1112	1324	1601	1861	1477	1430	1119	676	402	12203
1983-84	343	474	679	1187	1307	1360	1839	2275	1242	1282	830	326	13144
1984-85	300	464	544	1070	1450	1414	1211	1680	1583	1697	876	511	12800
1985-86	189	352	578	1169	1214	1223	1962	1379	1602	1261	794	368	12091
1986-87	303	417	594	1106	1333	1341	1732	1506	1397	1239	791	430	12189
1987-88	279	261	676	944	1565	1961	1544	1614	1804	1185	652	374	12859
1988-89	152	387	590	1164	1739	1645	2419	1084	1495	1075	826	379	12955
1989-90	319	327	495	1024	1682	1648	1934	2164	1586	935	658	378	13150
1990-91	228	290	631	1069	1438	1722	1729	1656	1448	1039	648	340	12238
1991-92	231	342	454	899	1539	1952	1854	1894	1696	1164	882	369	13276
1992-93	230	357	812	1182	1434	1732	1893	1277	1339	896	591	338	12081
1993-94	228	326	606	939	1197	1507	1791	1512	1776	1066	640	371	11959
1994-95	284	385	578	1157	1440	1776	1709	1456	1723	996	573	379	12456
1995-96	250	347	437	1040	1569	1675	1797	1647	1181	1075	616	408	12042
1996-97	273	408	683	1219	1252	1850	1882	1321	1752	927	600	291	12458
1997-98	186	271	478	1256	1298	2016	1980	1538	1152	1003	774	417	12369
1998-99	232	487	584	1039	1352	1905	2049	1807	1712	1184	865	389	13605
1999-00	361	405	551	1255	1646	2339	1980	1122	1374	1138	836	344	13351
2000-01	350	429	669	1033	1169	1225	1423	1210	1586	1068	918	382	11462
2001-02	370	363	587	1256	1631	2151	1644	1451	1327	1120	605	273	12778
2002-03	281	310	549	881	1153	1501	1634	1175	1525	946	693	296	10944
2003-04	262	301	622	913	1193	1795	1953	1474	1639	946	548	270	11916
2004-05	114	173	632	891	1231	1549	1671	1427	1433	1316	574	271	11282
2005-06	206	282	530	1071	1755	1577	2228	1282	1680	1382	738	405	13136
2006-	239	388	484	813	1375	1779							

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**COOLING DEGREE DAYS (base 65°F) 2006 BETHEL (PABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1977	0	0	0	0	0	0	0	8	0	0	0	0	8
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	6	0	0	0	0	0	6
1981	0	0	0	0	0	0	0	2	0	0	0	0	2
1982	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	1	5	0	0	0	0	6
1986	0	0	0	0	0	2	3	0	0	0	0	0	5
1987	0	0	0	0	0	0	2	0	0	0	0	0	2
1988	0	0	0	0	0	0	4	0	0	0	0	0	4
1989	0	0	0	0	0	0	3	0	0	0	0	0	3
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	2	0	0	0	0	0	0	2
1992	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	2	0	7	0	0	0	0	0	9
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	8	1	0	0	0	0	9
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	1	0	0	0	0	0	0	1
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	8	0	6	0	0	0	0	14
2003	0	0	0	0	0	1	0	13	0	0	0	0	14
2004	0	0	0	0	0	9	1	7	0	0	0	0	17
2005	0	0	0	0	0	8	0	4	0	0	0	0	12
2006	0	0	0	0	0	0	2	0	0	0	0	0	2

**SNOWFALL (inches) 2006 BETHEL (PABE)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1977-78	0.0	0.0	T	4.8	7.6	13.8	2.1	1.2	0.8	10.7	T	0.0	41.0
1978-79	0.0	0.0	0.0	12.8	2.7	19.1	6.3	1.0	1.8	5.2	T	0.0	48.9
1979-80	0.0	0.0	0.0	1.7	10.3	12.7	6.0	7.1	12.6	2.1	0.4	0.0	52.9
1980-81	0.0	0.0	0.0	4.0	2.0	2.6	3.7	8.8	2.9	2.8	1.0	0.0	27.8
1981-82	0.0	0.0	T	0.9	21.6	4.3	10.2	T	14.7	6.0	T	0.0	57.7
1982-83	0.0	0.0	0.0	9.0	5.6	4.7	1.0	1.5	0.6	9.5	T	0.0	31.9
1983-84	0.0	0.0	T	T	6.4	3.5	2.9	T	1.1	2.6	T	0.0	16.5
1984-85	0.0	0.0	T	3.4	6.8	19.6	2.5	0.7	16.3	0.4	5.1	0.8	55.6
1985-86	0.0	0.0	T	5.3	8.7	2.3	8.7	1.7	T	2.6	4.2	0.0	33.5
1986-87	0.0	0.0	T	0.3	1.8	2.1	13.5	4.0	1.7	0.6	0.2	T	24.2
1987-88	0.0	0.0	0.0	4.7	7.3	14.3	1.7	5.1	5.3	3.1	T	0.0	41.5
1988-89	0.0	0.0	T	5.2	7.9	15.1	13.1	9.2	4.7	2.7	3.4	0.0	61.3
1989-90	0.0	0.0	0.0	4.3	11.0	8.8	10.4	12.8	8.7	2.5	T	0.0	58.5
1990-91	0.0	0.0	3.1	1.7	21.7	6.6	2.6	4.6	30.6	1.5	0.3	T	72.7
1991-92	0.0	0.0	0.0	2.2	9.1	19.2	3.6	10.3	8.3	0.7	6.2	0.0	59.6
1992-93	0.0	0.0	4.0	2.0	19.3	36.0	15.3	6.2	11.6	0.9	T	T	95.3
1993-94	0.0	0.0	T	1.4	13.0	13.2	10.8	4.3	17.3	3.4	T	0.0	63.4
1994-95	0.0	0.0	0.0	1.5	34.7	17.4	8.1	2.1	1.9	0.5	0.0	0.0	66.2
1995-96	0.0	0.0	0.0	2.2	3.1	8.2	4.2	28.8	8.3	1.3	0.2	0.2	56.5
1996-97	0.0	0.0	3.9	8.7	14.4	16.3	9.5	5.1	2.4	0.7	0.3	0.2	61.5
1997-98	0.0	0.0	0.0	1.1	15.1	15.3	12.0	1.1	10.5	10.4	7.7	0.0	73.2
1998-99	0.0	0.0	0.0	9.9	10.0	5.9	3.2	2.2	2.7	11.6	3.6	T	49.1
1999-00	0.0	0.0	0.0	4.0	19.9	6.8	19.1	7.5	11.4	2.9	0.3	0.0	71.9
2000-01	0.0	0.0	0.0	3.5	4.8	13.2	14.8	17.9	15.4	22.2	5.1	0.0	96.9
2001-02	0.0	0.0	T	10.8	1.1	9.6	22.2	16.2	11.0	9.2	7.6	T	87.7
2002-03	0.0	0.0	0.0	3.3	8.8	2.5	6.5	7.5	1.8	10.9	0.9	0.0	42.2
2003-04	0.0	0.0	0.0	0.3	15.8	14.6	4.5	12.6	12.9	4.7	T	0.0	65.4
2004-05	0.0	0.0	5.5	3.6	25.1	19.2	5.1	14.4	1.6	2.4	6.0	0.0	82.9
2005-06	0.0	0.0	T	8.6	19.9	13.5	1.9	6.7	19.3	28.7	5.2	0.0	103.8
2006-	0.0	0.0	0.0	1.7	14.7	12.9							
POR= 73 YRS	0.0	0.0	0.4	3.7	8.7	10.0	7.4	7.2	8.8	5.2	1.7	0.1	53.2

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**REFERENCE NOTES :**

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</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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# 2006 BETHEL ALASKA (PABE)

The two main topographical features affecting the climate of Bethel are the Bering Sea, which is about 100 miles to the west and southwest, and the Kilbuck Range of mountains located about 40 miles to the east and southeast of the station. This range, averaging about 4,000 feet in height, extends, roughly, in a north-south direction in that portion nearest to Bethel. Some 160 miles southeast of the Kilbuck Range the Aleutians, extending in a northeast-southwest direction, provide an additional natural barrier to many of the storms originating on the outward end of the Aleutian Chain and moving out through the Gulf of Alaska. Both ranges tend to direct some of the storms northeastward into the Bering Sea, and thus directly affect the Bethel area. During invasions of such storms, it is not uncommon for wind velocities to exceed 50 mph. Maximum speeds usually accompany northeast winds in the winter and southeast winds in the summer. During the winter season, strong southerly winds tend to be considerably affected by the mountains to the south, producing, at times, a pronounced foehn (chinook) effect. Temperatures have risen almost 50 degrees in less than 24 hours under these conditions.

The climate is somewhat more maritime than continental in character, which tends to modify daily temperature extremes during most of the

year. However, there are usually two periods during the year when the area becomes affected by continental climatic influences. In June and July, temperatures in the area rise noticeably under the influence of warmer continental air. Around the latter part of December and early January, cold, clear continental air becomes quite dominant, and the climate of Bethel becomes quite similar to other areas located farther inland. Average temperatures through the entire winter season, however, are considerably higher than those experienced in the Alaskan interior, and temperatures for the entire summer season average considerably cooler than in the Alaskan interior. The last date of freezing temperature in spring averages late May, and the average of the first freezing temperature in autumn falls in early September, resulting in a growing season slightly over 100 days. Cabbages, potatoes, cauliflower, beets, turnips, lettuce, and carrots are successfully grown. August is usually the wettest month of the year.

Thunderstorms are rare. The few thunderstorms that do occur are generally short in duration, but rather severe. They usually develop and move out of the northeast during the months of June and July.

# Station Location

## BETHEL

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
				NORTH	WEST	SEA LEVEL	GROUND										
				GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROTHERMOMETER					
<b>*NOTES:</b> <u>AIRPORT</u>																	
Control building Bethel Municipal AP+	11/7/58	11/01/98	3.5 mi. W	60° 47'	161° 48'	125	64 a20 b30	6 e	6 d23	NA	NA	NA	5 f25	NA c3 g3	NA	a. Effective 10/2/62. b. Raised 8/18/77. c. Commissioned 8/18/77. d. Moved to roof 5/1/80. e. Removed 5/1/80. f. Moved to roof 6/1/80. g. Type change 10/10/85.	
+NWS/FAA Building Bethel State AP++ (Effective 1971)																	
++Bethel Airport (Effective 10/75)																	
Bethel Airport	11/01/98	Present	NA	60° 47'	161° 50'	h142									S	ASOS Commissioned 11/01/98 h. Ground elevation	

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\* NOTES: For earlier station history see previous edition: