

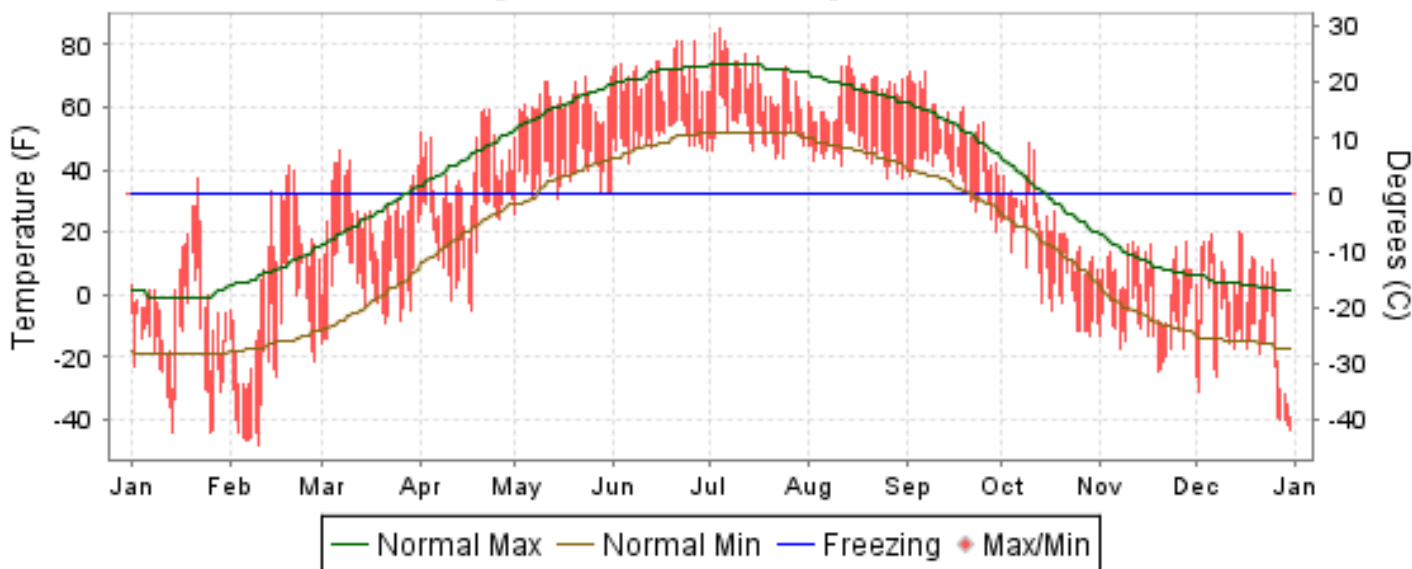


# 2008 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

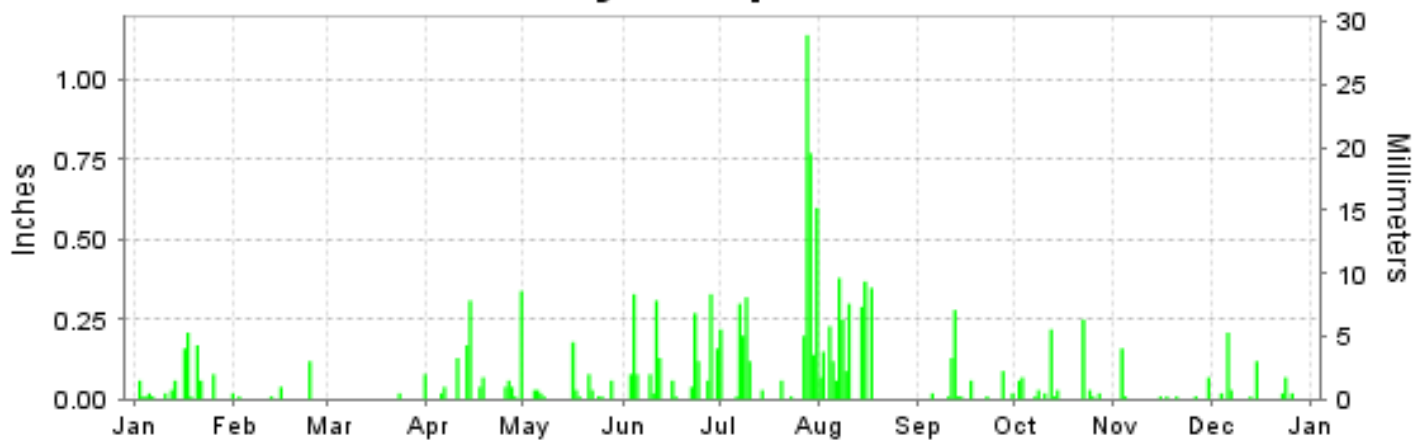
ISSN 0197-9728

## FAIRBANKS, ALASKA (PAFA)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2008

## FAIRBANKS (PAFA)

LATITUDE: 64° 49'N      LONGITUDE: -147° 51'W      ELEVATION (FT): GRND: 432    BARO: 464      TIME ZONE: ALASKA (UTC -9)      WBAN: 26411

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	-0.4	7.0	27.6	39.7	61.2	70.2	69.0	64.5	55.8	23.1	6.8	1.3	35.5
	HIGHEST DAILY MAXIMUM	37	41	46	59	70	81	85	76	71	49	17	20	85
	DATE OF OCCURRENCE	22	20	07	23+	23	26+	04	14	07+	10	28+	15	JUL 04
	MEAN DAILY MINIMUM	-18.1	-18.9	3.2	19.3	38.5	50.2	52.2	45.5	37.5	7.1	-9.6	-16.9	15.8
	LOWEST DAILY MINIMUM	-44	-48	-16	-5	26	42	44	37	20	-13	-25	-43	-48
	DATE OF OCCURRENCE	26+	10	01	17	01	06	24+	31+	29	29	19	31	FEB 10
	AVERAGE DRY BULB	-9.1	-5.8	15.4	29.5	49.9	60.2	60.6	55.0	46.7	15.1	-1.3	-7.7	25.7
	MEAN WET BULB			13.0	26.4	42.7	51.4	53.1	48.2	41.6	14.2	-1.1		
	MEAN DEW POINT			4.5	19.2	32.4	42.7	46.6	41.6	35.8	10.5	-4.9		
	NUMBER OF DAYS WITH:													
	MAXIMUM >= 70	0	0	0	0	2	17	14	7	3	0	0	0	43
MAXIMUM <= 32°	30	25	21	8	0	0	0	0	0	26	30	31	171	
MINIMUM <= 32°	31	29	31	28	4	0	0	0	8	31	30	31	223	
MINIMUM <= 0°	27	23	12	3	0	0	0	0	0	13	26	28	132	
H/C	HEATING DEGREE DAYS	2293	2050	1529	1057	460	146	158	305	544	1538	1986	2248	14314
	COOLING DEGREE DAYS	0	0	0	0	0	10	30	0	0	0	0	0	40
RH	MEAN (PERCENT)	78	72	62	66	52	56	63	65	69	79	80	77	68
	HOUR 03 LST	78	77	69	78	73	74	77	78	79	82	79	78	77
	HOUR 09 LST	78	74	68	73	51	59	68	69	73	83	79	77	71
	HOUR 15 LST	78	65	48	51	35	41	51	46	53	73	81	78	58
	HOUR 21 LST	77	74	62	63	48	50	57	66	74	79	80	77	67
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG(VISBY <= 1/4 MI)	1	4	0	0	0	0	0	3	1	1	0	1	11
	THUNDERSTORMS	0	0	0	0	0	4	4	5	0	0	0	0	13
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.)	29.32	29.30	29.28	29.43	29.39	29.35	29.27	29.30	29.31	29.27	29.24	29.62	29.34
	MEAN SEA-LEVEL PRESS. (IN.)	29.86	29.85	29.84	29.95	29.89	29.86	29.77	29.80	29.82	29.79	29.78	30.17	29.87
WINDS	RESULTANT SPEED (MPH)	0.3	2.1	3.2	1.7	1.0	1.0	1.5	1.9	2.0	0.5	0.4		
	RES. DIR. (TENS OF DEGS.)	35	02	02	25	36	26	26	02	03	36	03		
	MEAN SPEED (MPH)	1.4	2.9	4.3	3.7	5.3	4.5	5.2	4.4	3.7	2.4	0.9	1.7	3.4
	PREVAIL.DIR.(TENS OF DEGS.)	03	03	01	24	04	24	25	36	36	20	04	03	01
	MAXIMUM 2-MINUTE WIND													
	SPEED (MPH)	23	31	21	22	24	28	25	18	16	24	12	18	31
	DIR. (TENS OF DEGS.)	25	05	05	25	07	04	05	01	07	03	26	25	05
	DATE OF OCCURRENCE	22	29	01	05	14	22	06	14	29	02	30	15	FEB 29
	MAXIMUM 3-SECOND WIND:													
SPEED (MPH)	33	38	25	29	31	38	32	28	18	28	15	26	38	
DIR. (TENS OF DEGS.)	25	05	05	25	07	04	33	29	04	03	25	26	04	
DATE OF OCCURRENCE	22	29	01	14	14	22	28	05	29	02	30	15	JUN 22	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	0.93	0.18	0.10	1.27	0.50	2.08	4.12	2.66	0.64	0.76	0.28	0.50	14.02
	GREATEST 24-HOUR (IN.)	0.37	0.12	0.08	0.48	0.77	0.41	1.64	0.39	0.41	0.25	0.17	0.24	1.64
	DATE OF OCCURRENCE	16-17	24	31	13-14	28-29	04-05	28-29	09-10	11-12	22	03-04	06-07	JUL 28-29
	NUMBER OF DAYS WITH:													
	PRECIPITATION 0.01	15	4	2	12	12	15	14	12	10	12	7	8	123
PRECIPITATION 0.10	3	1	0	4	1	7	10	9	2	2	1	2	42	
PRECIPITATION 1.00	0	0	0	0	0	0	1	0	0	0	0	0	1	
SNOWFALL	SNOW,ICE PELLETS,HAIL													
	TOTAL (IN.)	14.4	5.4	1.4	14.7	0.0	0.0	0.0	T	1.8	12.2	6.5	12.2	68.6
	GREATEST 24-HOUR (IN.)	4.0	2.6	0.8	3.4	0.0	0.0	0.0	T	1.4	3.8	2.6	3.1	4.0
	DATE OF OCCURRENCE	17	24	31	30				14	27	22+	03	24	JAN 17
	MAXIMUM SNOW DEPTH (IN.)	18	19	17	15	2	0	0	0	1	6	9	17	19
	DATE OF OCCURRENCE	21+	25	05+	01	01			28	31+	30+	25	25	FEB 25
	NUMBER OF DAYS WITH:													
SNOWFALL >= 1.0	3	2	0	5	0	0	0	0	1	3	2	3	19	

# NORMALS, MEANS, AND EXTREMES

## FAIRBANKS (PAFA)

 LATITUDE:  
64° 49'N

 LONGITUDE:  
-147° 51'W

 ELEVATION (FT):  
GRND: 432 BARO: 464

 TIME ZONE:  
ALASKA (UTC -9)

WBAN: 26411

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	-3	8.0	25.0	43.6	60.6	70.9	73.0	66.3	54.3	31.4	11.2	3.3	37.3	
	MEAN DAILY MAXIMUM	60	-0.2	8.8	24.0	42.4	59.9	70.4	72.1	66.3	54.5	32.1	11.7	1.8	37.0	
	HIGHEST DAILY MAXIMUM	57	50	47	56	74	89	96	94	93	84	72	49	45	96	
	YEAR OF OCCURRENCE		1981	1987	1994	1960	1960	1969	1975	1994	1957	2003	1997	1999	1999	JUN 1969
	MEAN OF EXTREME MAXS.	60	28.6	33.5	44.2	59.9	74.7	83.4	85.1	80.6	68.7	51.9	33.8	29.9	56.2	
	NORMAL DAILY MINIMUM	30	-19.0	-15.6	-2.7	19.8	36.9	48.5	51.9	46.2	34.7	15.6	-6.6	-15.2	16.2	
	MEAN DAILY MINIMUM	60	-17.0	-12.4	-2.4	20.1	37.7	48.9	51.8	46.6	35.5	17.3	-3.8	-14.1	17.4	
	LOWEST DAILY MINIMUM	57	-61	-58	-49	-24	-1	29	35	27	3	-27	-46	-62	-62	
	YEAR OF OCCURRENCE		1969	1993	1956	1986	1964	2006	1959	1987	1992	1992	1990	1961	1961	DEC 1961
	MEAN OF EXTREME MINS.	60	-40.4	-34.8	-25.2	-2.9	26.2	38.1	42.9	34.8	22.6	-4.7	-24.8	-36.9	-0.3	
	NORMAL DRY BULB	30	-9.7	-3.8	11.1	31.7	48.8	59.7	62.4	56.2	44.5	23.5	2.3	-5.9	26.7	
	MEAN DRY BULB	60	-8.5	-1.7	10.8	31.3	48.8	59.9	62.0	56.5	45.0	24.7	3.9	-6.0	27.2	
	MEAN WET BULB	22	-2.3	-0.5	9.7	27.0	40.7	51.6	55.1	50.8	40.2	21.9	1.5	-2.2	24.5	
	MEAN DEW POINT	22	-6.4	-5.1	3.5	19.3	32.2	45.4	50.5	47.4	36.5	18.9	-1.1	-5.2	19.7	
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.1	4.2	17.0	21.5	10.9	1.5	0.0	0.0	0.0	55.2	
MAXIMUM <= 32	30	29.8	26.2	20.9	5.1	0.1	0.0	0.0	0.0	0.4	16.3	28.1	29.9	156.8		
MINIMUM <= 32	30	31.0	28.3	31.0	26.1	5.5	0.0	0.0	0.4	9.1	27.8	30.0	31.0	220.2		
MINIMUM <= 0	30	25.3	22.2	16.0	2.2	0.0	0.0	0.0	0.0	0.0	3.2	19.3	25.0	113.2		
H/C	NORMAL HEATING DEG. DAYS	30	2315	1926	1670	999	504	179	121	283	615	1287	1882	2199	13980	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	20	42	11	1	0	0	0	74	
RH	NORMAL (PERCENT)	30	72	70	63	54	49	57	65	72	71	76	75	74	67	
	Hour 03 LST	30	71	71	70	68	67	76	82	86	82	79	75	74	75	
	Hour 09 LST	30	71	71	68	56	50	59	68	76	76	79	76	74	69	
	Hour 15 LST	30	71	66	52	41	35	42	49	55	55	66	74	75	57	
	Hour 21 LST	30	71	71	65	53	46	52	61	73	74	77	76	75	66	
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	3.4	1.6	0.3	0.3	0.2	0.2	0.7	1.5	1.0	1.7	0.6	2.0	13.5	
	THUNDERSTORMS	60	0.4	0.3	0.0	0.0	0.4	3.1	2.9	0.9	0.1	0.0	0.1	0.1	8.3	
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	46	5.0	5.0	4.7	5.3	5.5	5.8	5.9	6.2	6.1	6.3	5.5	5.6	5.6	
	MIDNIGHT-MIDNIGHT (OKTAS)	33	4.8	4.5	4.4	5.0	5.4	5.8	5.9	6.0	5.8	6.0	5.2	5.2	5.3	
	MEAN NO. DAYS WITH: CLEAR	46	9.1	8.1	9.9	6.7	4.6	3.0	3.3	2.8	4.1	3.8	6.8	6.7	68.9	
	PARTLY CLOUDY	46	5.9	6.0	7.0	7.9	11.0	10.4	8.9	6.8	6.1	4.9	5.0	5.7	85.6	
	CLOUDY	46	16.0	14.2	14.1	15.4	15.4	16.6	18.2	20.9	19.3	21.5	17.6	18.0	207.2	
PR	MEAN STATION PRESSURE(IN)	25	29.33	29.38	29.39	29.34	29.36	29.36	29.40	29.38	29.31	29.27	29.30	29.25	29.34	
	MEAN SEA-LEVEL PRES. (IN)	25	29.86	29.92	29.92	29.85	29.86	29.86	29.90	29.88	29.81	29.78	29.83	29.78	29.85	
WINDS	MEAN SPEED (MPH)	25	2.6	3.2	4.9	5.9	6.8	6.2	5.8	5.6	5.2	4.3	2.9	2.3	4.6	
	PREVAIL.DIR.(TENS OF DEGS)	36	03	03	36	36	36	24	25	36	36	36	04	03	36	
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	29	31	32	31	30	31	31	31	23	25	22	26	32	
	DIR. (TENS OF DEGS)		18	05	05	25	36	09	01	26	26	26	05	19	05	
	YEAR OF OCCURRENCE		2005	2008	2005	2002	2004	2005	2002	2003	1998	2002	1999	2004	MAR 2005	
	MAXIMUM 3-SECOND SPEED (MPH)	11	40	39	38	59	37	38	40	37	30	36	28	36	59	
	DIR. (TENS OF DEGS)		19	25	05	05	11	04	27	26	19	26	25	21	05	
YEAR OF OCCURRENCE		2005	2006	2005	2003	1998	2008	1999	2003	2004	2002	2003	2004	APR 2003		
PRECIPITATION	NORMAL (IN)	30	0.56	0.36	0.28	0.21	0.60	1.40	1.73	1.74	1.12	0.92	0.68	0.74	10.34	
	MAXIMUM MONTHLY (IN)	57	2.40	1.75	2.24	3.06	1.96	3.52	5.96	6.20	3.05	2.19	3.32	3.23	6.20	
	YEAR OF OCCURRENCE		1993	1966	1991	2002	2004	1955	2003	1967	1960	1983	1970	1984	AUG 1967	
	MINIMUM MONTHLY (IN)	57	0.01	0.01	T	T	0.07	0.19	0.35	.24	0.15	0.08	T	T	T	
	YEAR OF OCCURRENCE		1966	2000	1987	1991	1957	1966	1993	2005	1968	1954	1953	1969	APR 1991	
	MAXIMUM IN 24 HOURS (IN)	57	0.75	0.97	1.17	1.06	0.88	1.52	2.56	3.42	1.21	2.22	0.84	1.25	3.42	
	YEAR OF OCCURRENCE		1993	1966	1991	2002	1955	1955	2003	1967	1954	1976	1970	1968	AUG 1967	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	7.8	5.9	5.1	3.7	7.4	11.0	12.5	12.7	10.4	12.0	10.5	9.8	108.8	
PRECIPITATION >= 1.00	30	0.0	0.0	0.0	0.0	0.0	0.1	0.1	*	0.0	0.0	0.0	0.0	0.2		
SNOWFALL	NORMAL (IN)	30	10.6	7.1	5.2	2.4	0.6	0.0	0.0	0.0	2.2	12.0	13.8	13.5	67.4	
	MAXIMUM MONTHLY (IN)	57	40.2	43.1	30.4	15.4	14.1	T	T	0.1	24.4	25.9	54.0	50.7	54.0	
	YEAR OF OCCURRENCE		1993	1966	1991	2002	1992	2006	1990	1995	1992	1982	1970	1984	NOV 1970	
	MAXIMUM IN 24 HOURS (IN)	57	10.1	20.1	12.6	6.3	9.4	T	T	0.1	9.0	10.4	14.6	14.7	20.1	
	YEAR OF OCCURRENCE		1993	1966	1963	1992	1992	1993	1990	1995	1992	1974	1970	1968	FEB 1966	
	MAXIMUM SNOW DEPTH (IN)	59	46	52	54	49	14	0	0	0	12	16	42	46	54	
	YEAR OF OCCURRENCE		1993	1966	1991	1991	1991				1992	1982	1970	1990	MAR 1991	
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.4	2.2	1.7	0.8	0.1	0.0	0.0	0.0	0.7	4.7	4.8	4.2	22.6		

**PRECIPITATION (inches) 2008 FAIRBANKS (PAFA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	0.58	0.02	0.47	0.83	0.88	1.54	2.54	1.22	0.19	0.94	0.63	0.49	10.33
1980	0.52	0.22	0.13	0.10	0.31	1.38	1.37	1.68	0.76	0.39	0.70	0.32	7.88
1981	0.31	0.78	0.07	0.32	0.73	1.91	2.41	1.35	0.80	0.91	0.91	0.58	11.08
1982	0.34	0.38	0.39	0.93	0.96	1.96	2.33	1.67	0.77	1.48	1.49	0.23	12.93
1983	0.24	0.18	0.09	0.27	0.14	0.57	1.71	3.33	0.92	2.19	0.08	0.65	10.37
1984	0.89	0.64	0.03	0.47	1.17	0.48	2.95	1.15	0.22	0.70	0.42	3.23	12.35
1985	0.52	0.48	0.57	0.36	0.41	1.80	1.13	1.88	2.59	1.00	0.90	0.08	11.72
1986	0.13	0.19	0.32	0.07	0.54	0.87	2.12	2.36	0.65	1.79	0.48	0.34	9.86
1987	0.68	0.10	T	0.05	0.21	1.02	1.70	0.56	0.57	0.39	0.64	0.51	6.43
1988	0.32	0.13	0.13	0.21	1.51	2.26	1.02	1.95	0.73	1.07	0.68	0.46	10.47
1989	0.52	0.98	0.13	0.05	0.99	2.53	0.91	0.78	0.72	1.28	0.97	0.57	10.43
1990	0.52	0.72	0.11	0.07	0.40	1.73	4.87	3.60	1.74	0.31	1.51	2.94	18.52
1991	1.17	0.17	2.24	T	0.10	0.36	0.81	1.18	1.16	0.71	0.48	1.02	9.40
1992	0.85	0.66	0.07	0.47	1.23	2.15	2.32	0.59	1.34	0.91	0.93	1.21	12.73
1993	2.40	0.31	0.26	0.03	0.63	1.24	0.35	1.58	2.63	0.61	0.86	0.43	11.33
1994	0.47	0.32	0.17	0.07	0.22	2.41	1.11	1.38	0.61	0.82	1.67	0.48	9.73
1995	0.25	0.29	0.18	0.17	0.73	1.91	1.32	2.10	1.33	0.31	0.20	0.06	8.85
1996	0.32	1.40	0.53	0.05	0.14	1.56	1.07	2.83	1.06	1.13	.81	.46	11.36
1997	0.25	0.34	0.06	0.01	0.07	1.03	1.08	1.70	0.48	0.94	0.26	0.52	6.74
1998	0.08	0.11	T	0.05	0.41	1.33	3.35	3.18	1.19	0.27	0.21	0.56	10.74
1999	0.22	0.21	0.19	0.04	0.31	1.30	2.11	1.85	1.83	0.90	0.58	0.73	10.27
2000	1.97	T	0.10	T	0.74	0.72	1.29	3.04	1.48	0.91	0.37	0.16	10.78
2001	0.40	0.66	0.43	0.16	0.62	0.65	2.45	2.01	0.25	0.55	0.06	0.24	8.48
2002	0.54	0.18	0.14	3.06	0.38	0.78	2.63	3.02	1.09	1.05	0.05	0.41	13.33
2003	0.28	0.89	0.02	0.05	0.27	0.61	5.96	1.89	1.27	0.34	1.68	0.59	13.85
2004	0.33	0.33	0.29	0.03	1.96	0.31	1.13	0.37	1.34	1.12	0.63	0.75	8.59
2005	1.17	0.25	0.26	0.18	1.26	1.93	3.44	0.24	1.72	0.45	0.75	0.15	11.80
2006	0.22	0.76	0.22	0.40	0.18	0.71	2.24	2.16	0.56	0.56	0.09	0.48	8.58
2007	0.50	0.12	0.20	0.10	0.86	1.88	3.67	1.52	1.58	0.51	0.11	0.31	11.36
2008	0.93	0.18	0.10	1.27	0.50	2.08	4.12	2.66	0.64	0.76	0.28	0.50	14.02
POR= 60 YRS	0.59	0.43	0.34	0.29	0.60	1.37	2.07	1.86	1.07	0.78	0.66	0.70	10.76

WBAN : 26411

**AVERAGE TEMPERATURE (°F) 2008 FAIRBANKS (PAFA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1979	-7.7	-25.3	12.0	30.9	49.9	57.4	61.3	60.4	46.5	32.4	20.2	-10.2	27.3
1980	-9.5	16.0	17.3	35.9	50.7	56.5	60.9	53.6	43.0	33.0	11.5	-24.0	28.7
1981	18.1	5.1	27.1	31.4	51.3	58.9	56.5	53.6	44.1	29.5	12.3	-4.2	32.0
1982	-18.0	-3.9	13.1	27.7	46.8	58.5	63.1	56.6	49.3	18.5	4.4	2.2	26.5
1983	-11.0	3.4	13.8	37.4	50.4	62.3	64.2	53.5	41.2	23.6	8.6	-3.7	28.6
1984	-5.9	-13.3	21.6	30.3	47.2	61.6	60.9	53.8	46.8	25.9	0.1	-3.1	27.2
1985	11.1	-9.4	14.6	20.8	46.7	57.8	63.1	56.3	42.9	18.8	-4.7	7.7	27.1
1986	-2.1	4.7	6.0	24.0	47.8	62.6	63.6	54.7	46.3	27.1	0.2	7.3	28.5
1987	0.7	1.5	13.5	35.0	50.9	61.9	64.2	57.7	44.1	33.0	6.0	-3.2	30.4
1988	-5.3	3.9	17.8	33.6	52.8	62.9	65.8	58.4	44.4	17.4	-3.1	4.2	29.4
1989	-21.3	3.4	6.7	36.2	47.8	60.1	64.6	60.8	48.6	26.2	-7.1	4.5	27.5
1990	-12.9	-21.7	18.5	38.1	55.1	61.6	65.3	60.0	44.8	24.1	-4.9	-6.3	26.8
1991	-4.7	-1.2	11.9	35.4	51.2	63.8	60.6	54.4	48.0	24.9	0.6	-2.9	28.5
1992	-4.7	-8.7	14.0	26.1	41.8	60.0	64.1	56.5	31.7	17.5	10.4	-7.6	25.1
1993	-3.9	2.4	17.2	41.1	53.7	62.0	65.6	56.1	44.1	29.3	8.4	0.6	31.4
1994	-1.5	-6.4	10.5	34.7	51.6	58.4	64.7	59.6	43.7	21.0	0.3	-8.5	27.3
1995	-9.4	-0.2	3.8	40.1	53.5	60.9	63.1	57.3	52.8	28.0	-2.7	-9.0	28.2
1996	-16.8	-2.6	15.5	33.3	49.1	59.5	63.4	53.4	42.0	13.2	-1.9	-13.4	24.6
1997	-16.2	13.0	4.7	35.4	49.0	63.1	64.9	58.7	49.7	17.5	10.6	-7.0	28.6
1998	-13.6	2.1	18.4	38.6	50.0	58.8	62.7	53.0	46.1	26.1	5.0	-5.8	28.5
1999	-17.0	-16.7	7.2	32.7	46.9	61.4	61.5	58.0	45.2	19.5	-4.7	-12.8	23.4
2000	-9.9	6.7	17.6	31.9	44.4	61.5	59.6	51.7	41.7	22.3	8.7	.3	28.0
2001	7.8	7.0	9.9	33.3	44.5	61.1	60.0	57.3	47.5	22.0	.6	-10.5	28.4
2002	3.5	-5	9.9	23.2	50.4	58.2	61.8	54.6	47.4	31.7	19.2	4.9	30.4
2003	-3.3	11.0	8.6	33.1	47.2	60.2	60.7	56.2	41.8	32.0	9.2	-9.1	29.0
2004	-15.9	1.1	6.0	35.1	52.3	66.9	64.5	62.2	38.8	29.7	7.1	-3.3	28.7
2005	-9.1	-2.3	19.6	32.2	55.6	61.5	62.2	57.3	46.3	27.4	-5.1	.9	28.9
2006	-22.0	5.6	3.0	29.5	49.7	58.1	61.3	54.4	49.5	31.7	-9.8	-1.9	25.8
2007	-6.5	-6.6	-6.4	37.6	51.1	61.6	64.4	60.5	47.1	21.2	11.5	-3.2	27.7
2008	-9.1	-5.8	15.4	29.5	49.9	60.2	60.6	55.0	46.7	15.1	-1.3	-7.7	25.7
POR= 60 YRS	-8.5	-1.7	10.8	31.3	48.8	59.9	62.0	56.5	45.0	24.7	3.9	-6.0	27.2

**HEATING DEGREE DAYS (base 65°F) 2008 FAIRBANKS (PAFA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	124	143	548	1004	1336	2335	2312	1415	1475	868	436	248	12244
1980-81	127	351	654	985	1599	2766	1447	1676	1168	999	418	188	12378
1981-82	255	347	622	1094	1573	2150	2581	1929	1602	1113	555	216	14037
1982-83	86	252	465	1434	1816	1946	2356	1725	1581	823	451	133	13068
1983-84	62	351	705	1280	1688	2126	2201	2277	1338	1035	549	120	13732
1984-85	140	344	538	1205	1950	2111	1666	2086	1558	1321	558	215	13692
1985-86	72	267	654	1430	2095	1776	2079	1686	1825	1224	527	113	13748
1986-87	110	312	559	1169	1943	1787	1994	1776	1594	893	428	128	12693
1987-88	61	218	620	987	1768	2111	2185	1768	1455	934	371	96	12574
1988-89	39	202	611	1469	2045	1883	2676	1722	1804	859	529	149	13988
1989-90	73	134	484	1195	2164	1875	2420	2433	1431	798	310	127	13444
1990-91	74	178	600	1261	2097	2212	2161	1849	1640	877	421	130	13500
1991-92	143	321	504	1234	1935	2105	2163	2140	1577	1160	711	157	14150
1992-93	45	259	995	1463	1636	2253	2134	1751	1478	711	343	103	13171
1993-94	43	273	620	1099	1694	1995	2061	2002	1689	900	408	210	12994
1994-95	56	217	634	1357	1941	2280	2310	1827	1896	739	354	143	13754
1995-96	92	235	365	1141	2033	2299	2541	1962	1528	946	486	171	13799
1996-97	71	353	681	1600	2010	2424	2509	1450	1862	880	485	106	14431
1997-98	40	204	453	1467	1624	2224	2429	1755	1437	786	460	199	13078
1998-99	103	365	563	1200	1793	2188	2535	2282	1784	963	553	131	14460
1999-00	147	221	584	1403	2084	2403	2315	1680	1467	987	631	112	14034
2000-01	165	407	693	1318	1682	2001	1764	1616	1701	940	629	126	13042
2001-02	164	231	521	1326	1926	2333	1899	1828	1700	1246	453	197	13824
2002-03	121	324	524	1023	1366	1857	2110	1505	1742	950	547	141	12210
2003-04	154	265	689	1015	1667	2289	2502	1847	1823	889	388	44	13572
2004-05	49	125	780	1085	1730	2112	2290	1876	1401	977	283	127	12835
2005-06	81	248	554	1158	2093	1981	2692	1658	1914	1058	464	202	14103
2006-07	118	323	458	1026	2241	2067	2215	2003	2208	816	427	113	14015
2007-08	44	144	533	1351	1597	2111	2293	2050	1529	1057	460	146	13315
2008-	158	305	544	1538	1986	2248							

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**COOLING DEGREE DAYS (base 65°F) 2008 FAIRBANKS (PAFA)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1979	0	0	0	0	0	0	16	7	0	0	0	0	23
1980	0	0	0	0	0	0	8	6	0	0	0	0	14
1981	0	0	0	0	1	11	0	2	0	0	0	0	14
1982	0	0	0	0	0	27	36	0	0	0	0	0	63
1983	0	0	0	0	5	61	40	0	0	0	0	0	106
1984	0	0	0	0	0	22	21	2	0	0	0	0	45
1985	0	0	0	0	0	8	20	4	0	0	0	0	32
1986	0	0	0	0	0	46	74	0	0	0	0	0	120
1987	0	0	0	0	0	42	42	0	0	0	0	0	84
1988	0	0	0	0	0	41	72	2	0	0	0	0	115
1989	0	0	0	0	0	10	67	11	0	0	0	0	88
1990	0	0	0	0	11	32	91	35	0	0	0	0	169
1991	0	0	0	0	0	100	13	0	0	0	0	0	113
1992	0	0	0	0	0	17	21	4	0	0	0	0	42
1993	0	0	0	0	0	18	70	3	0	0	0	0	91
1994	0	0	0	0	0	19	55	55	0	0	0	0	129
1995	0	0	0	0	5	24	41	0	4	0	0	0	74
1996	0	0	0	0	0	11	29	0	0	0	0	0	40
1997	0	0	0	0	0	56	46	15	0	0	0	0	117
1998	0	0	0	0	0	18	37	1	0	0	0	0	56
1999	0	0	0	0	0	27	45	11	0	0	0	0	83
2000	0	0	0	0	0	16	5	0	0	0	0	0	21
2001	0	0	0	0	0	15	14	0	0	0	0	0	29
2002	0	0	0	0	8	0	30	7	0	0	0	0	45
2003	0	0	0	0	0	3	27	1	0	0	0	0	31
2004	0	0	0	0	0	108	40	45	0	0	0	0	193
2005	0	0	0	0	0	27	5	18	0	0	0	0	50
2006	0	0	0	0	0	1	11	0	0	0	0	0	12
2007	0	0	0	0	3	19	32	12	0	0	0	0	66
2008	0	0	0	0	0	10	30	0	0	0	0	0	40

**SNOWFALL (inches) 2008 FAIRBANKS (PAFA)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1979-80	0.0	0.0	T	6.5	4.4	11.0	10.8	4.4	3.2	0.8	0.0	0.0	41.1
1980-81	0.0	0.0	3.4	5.1	10.6	4.8	6.2	10.2	0.9	1.9	0.0	0.0	43.1
1981-82	0.0	0.0	0.3	7.8	16.2	10.6	7.6	7.0	7.2	11.4	0.3	0.0	68.4
1982-83	0.0	0.0	0.6	25.9	27.8	3.8	4.8	3.6	2.1	1.9	0.4	0.0	70.9
1983-84	0.0	0.0	0.4	17.3	2.4	14.4	13.8	11.1	0.8	6.7	T	0.0	66.9
1984-85	0.0	0.0	0.0	11.3	8.5	50.7	8.1	8.0	7.4	5.9	1.0	0.0	100.9
1985-86	0.0	0.0	2.1	5.4	14.7	1.8	2.3	2.6	3.7	1.0	0.0	0.0	33.6
1986-87	0.0	0.0	T	11.8	7.4	6.0	12.0	1.5	T	1.0	T	0.0	39.7
1987-88	0.0	0.0	T	3.5	14.1	10.4	6.3	2.5	2.6	0.2	0.3	0.0	39.9
1988-89	0.0	0.0	0.2	12.9	15.2	10.5	10.8	13.4	3.9	0.4	0.8	0.0	68.1
1989-90	0.0	0.0	0.5	19.7	18.1	11.1	10.4	16.0	2.6	T	0.0	T	78.4
1990-91	T	0.0	1.6	6.9	37.3	47.5	20.6	3.0	30.4	T	0.0	0.0	147.3
1991-92	0.0	0.0	0.0	12.2	9.7	18.9	15.5	15.0	1.8	11.5	14.1	0.0	98.7
1992-93	0.0	0.0	24.4	16.7	18.7	28.5	40.2	5.4	5.2	T	0.0	T	139.1
1993-94	0.0	0.0	7.5	7.3	16.3	8.5	11.2	8.1	4.5	0.8	0.0	0.0	64.2
1994-95	0.0	0.0	0.0	15.3	35.3	13.1	5.9	7.4	3.1	1.3	0.0	0.0	81.4
1995-96	0.0	0.1	0.0	7.1	3.2	0.8	5.4	29.3	9.6	0.7	0.0	0.0	56.2
1996-97	0.0	T	7.1	16.2	18.4	9.4	4.9	8.8	2.3	0.4	0.0	T	67.5
1997-98	0.0	0.0	0.0	19.3	7.6	13.1	1.3	3.2	0.9	0.5	0.1	0.0	46.0
1998-99	0.0	0.0	T	6.2	4.6	8.5	4.2	2.7	3.5	0.9	0.4	0.0	31.0
1999-00	0.0	0.0	3.0	11.1	11.2	13.8	27.9	0.2	3.0	T	T	0.0	70.2
2000-01	0.0	0.0	1.4	9.8	7.5	2.7	6.7	10.7	8.6	2.2	7.0	0.0	56.6
2001-02	0.0	0.0	0.3	6.4	2.8	4.6	11.4	4.2	2.2	15.4	1.8	0.0	49.1
2002-03	0.0	T	T	14.7	1.6	9.6	6.9	7.8	0.8	T	T	0.0	41.4
2003-04	0.0	0.0	0.1	2.6	27.6	9.6	8.5	7.8	5.2	0.2	T	0.0	61.6
2004-05	0.0	0.0	1.8	17.0	11.9	15.0	17.8	4.5	5.2	4.5	0.0	0.0	77.7
2005-06	0.0	T	0.3	6.4	14.3	4.2	4.0	13.2	4.7	3.3	0.0	T	50.4
2006-07	0.0	0.0	0.4	4.6	1.4	7.8	8.9	1.6	3.3	T	0.0	0.0	28.0
2007-08	0.0	0.0	0.0	9.5	4.2	6.0	14.4	5.4	1.4	14.7	0.0	0.0	55.6
2008-	0.0	T	1.8	12.2	6.5	12.2							
POR= 61 YRS	T	T	1.4	10.6	12.6	12.5	10.8	8.4	5.9	3.2	0.7	0.1	66.2

WBAN : 26411

**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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# 2008 FAIRBANKS ALASKA (PAFA)

Fairbanks is located in the Tanana Valley, in the interior of Alaska. It has a distinctly continental climate, with large variation of temperature from winter to summer.

The climate in Fairbanks is conditioned mainly by the response of the land mass to large changes in solar heat received by the area during the year. The sun is above the horizon from 18 to 21 hours during June and July. During this period, daily average maximum temperatures reach the lower 70s. Temperatures of 80 degrees or higher occur on about 10 days each summer. In contrast, from November to early March, when the period of daylight ranges from 10 to less than 4 hours per day, the lowest temperature readings normally fall below zero quite regularly. Low temperatures of -40 degrees or colder occur each winter. The range of temperatures in summer is comparatively low, from the lower 30s to the mid 90s. In winter, this range is larger, from about 65 below to 45 degrees above. This large winter range of temperature reflects the great difference between frigid weather associated with dry northerly airflow from the Arctic to mild temperatures associated with southerly airflow from the Gulf of Alaska, accompanied by chinook winds off the Alaska Range, 80 miles to the south of Fairbanks.

Snow cover is persistent in Fairbanks, without interruption, from October through April. Snowfalls of 4 inches or more in a day occur only three times during winter. Blizzard conditions are almost never seen, as winds in Fairbanks are above 20 miles an hour less than 1 percent of the time. Precipitation normally reaches a minimum in spring, and a maximum in August, when rainfall is common. During summer, thunderstorms occur in Fairbanks on an average of about eight days. Thunderstorms are about three times more frequent over the hills to the north and east of Fairbanks. Damaging hail or wind rarely accompany thunderstorms around Fairbanks.

There are rolling hills reaching elevations up to 2,000 feet above Fairbanks to the north and east of the city. During winter, the uplands are often warmer than Fairbanks, as cold air settles into the valley. In some months, temperatures in the uplands will average more than 10 degrees warmer than Fairbanks. During summer, the uplands are a few degrees cooler than the city. Precipitation in the uplands around Fairbanks is heavier than it is in the city by roughly 20 to 50 percent. Fairbanks exhibits an urban heat island, especially during winter. Low lying areas nearby, such as the community of North Pole, are often colder than the city, sometimes by as much as 15 degrees.

During winter, with temperatures of -20 degrees or colder, ice fog frequently forms in the city. Cold snaps accompanied by ice fog generally last about a week, but can last three weeks in unusual situations. The fog is almost always less than 300 feet deep, so that the surrounding uplands are usually in the clear, with warmer temperatures. Visibility in the ice fog is sometimes quite low, and this can hinder aircraft operations for as much as a day in severe cases. Aside from the low visibility in winter ice fog, flying weather in Fairbanks is quite favorable, especially from February through May, when crystal clear weather is common and the length of daylight is rapidly increasing.

Hardy vegetables and grains grow luxuriantly. Freezing of local rivers normally begins in the first week of October. The date when ice will normally support a persons weight is October 27. Rivers remain frozen and safe for travel until early April. Breakup of the river ice usually occurs in the first week of May.

# Station Location

FAIRBANKS

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	Latitude		Longitude		ELEVATION ABOVE								REMARKS
				NORTH	WEST	GROUND TEMPERATURE SITE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET RAIN GAUGE	WEIGHING RAIN GAUGE	8 INCH RAIN GAUGE	HYGROTHERMOMETER	AUTOMATIC OBSERVING EQUIPMENT *	
*NOTE:																
AIRPORT																
Weather Bureau Building Fairbanks Airport	8/22/51	4/13/55	4 mi. WSW	64° 49'	147° 52'	434	32	7	5		f5	4			f. Discontinued 8/22/51 - 10/25/52.	
Terminal Building	4/13/55	12/01/97	250 ft. NW	64° 49'	147° 52'	436	62 i33 t30	7 n q22	5 h6 n q22			g5 k6 m20 p18 r22	5 m19 p17 r21	j5 u5	g. Installed 10/21/55. h. Effective 8/3/57. i. Effective 9/25/57. j. Commissioned 1400' ENE of thermometer site 8/12/63. k. Effective 7/18/66. m. Moved to roof 8/1/69. n. Removed 12/8/69. p. Minor adjustment 12/1970. q. Installed on roof 12/31/71. r. Minor adjustment 5/1979. t. Lowered 8/27/84. u. Type change 11/5/84.	
Internation Airport	12/01/97	Present	NA	64° 49'	147° 51'	v461								s	ASOS Commissioned 12/01/97 v. Ground Elevation	

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\* NOTES: For earlier station history see previous editions.