

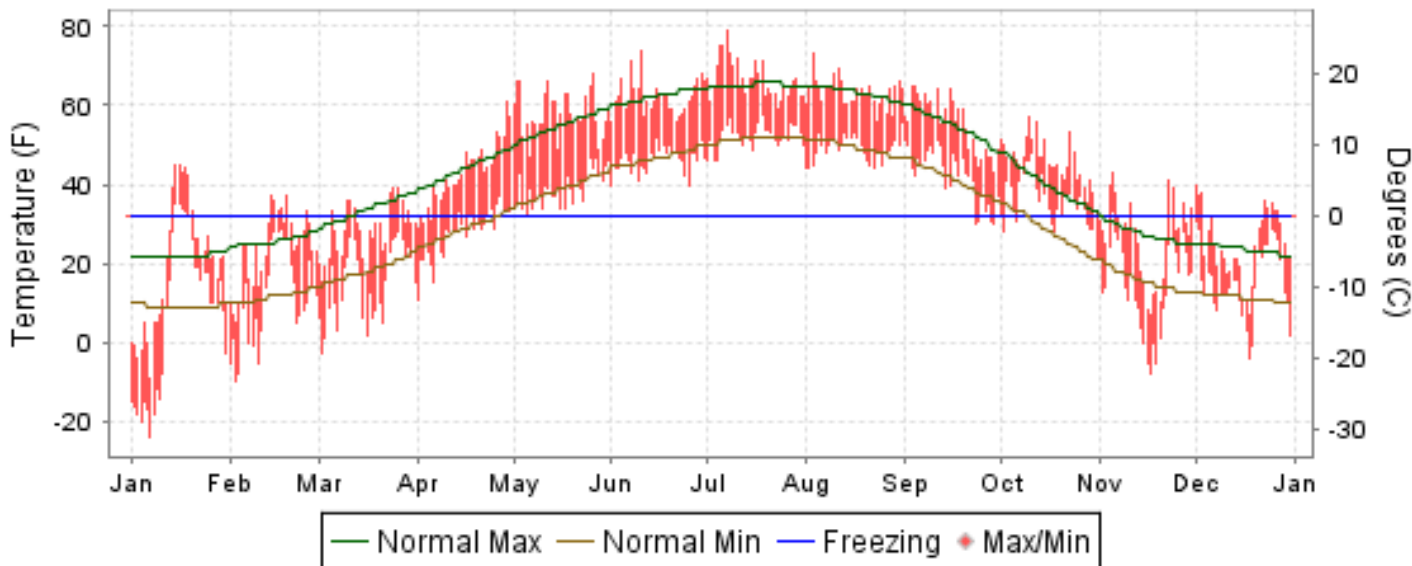


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

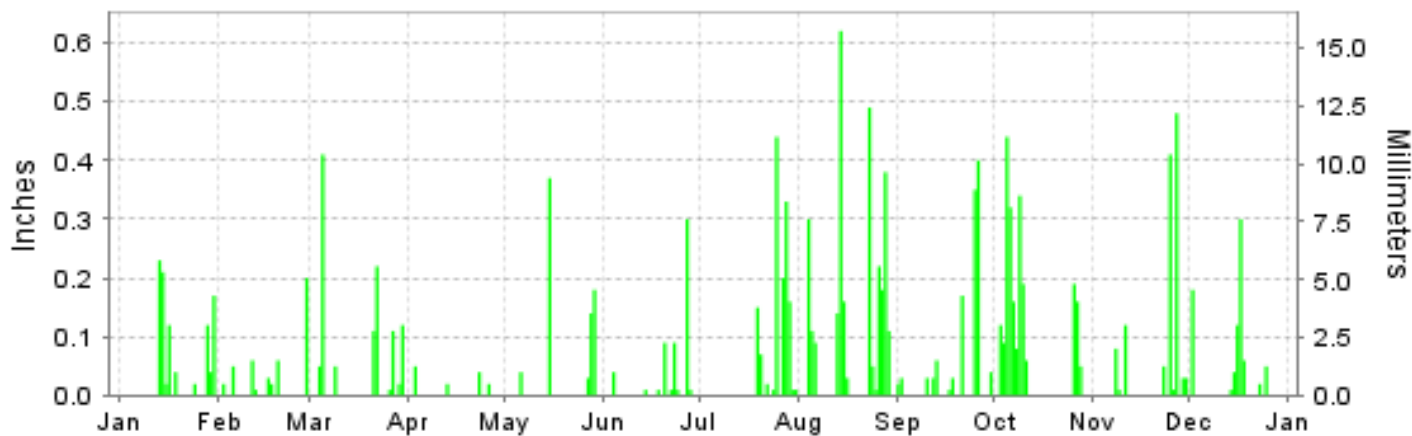
ISSN 0197-954X

## ANCHORAGE, ALASKA (PANC)

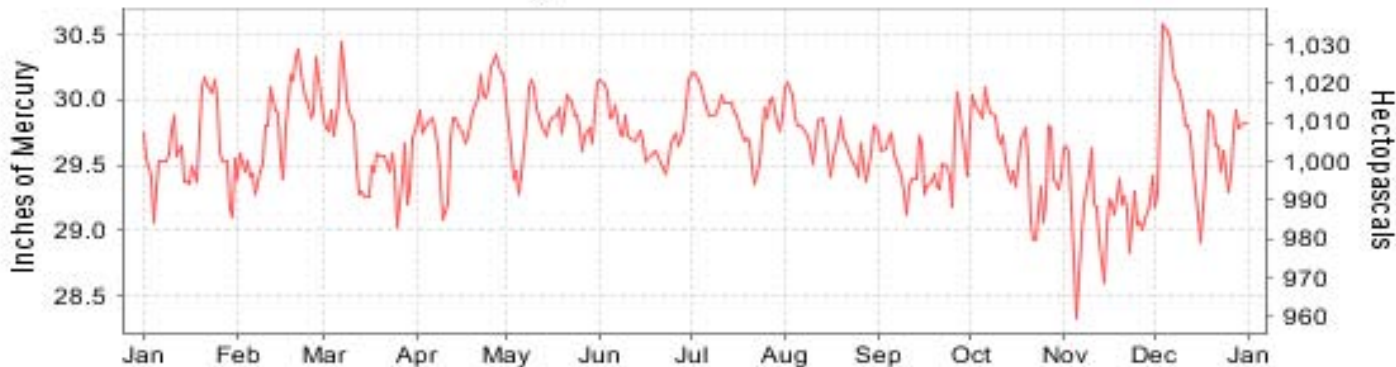
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## ANCHORAGE (PANC)

LATITUDE: 61° 10'N      LONGITUDE: -149° 59'W      ELEVATION (FT): GRND: 120    BARO: 222      TIME ZONE: ALASKA (UTC -9)      WBAN: 26451

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	19.1	23.8	28.5	42.8	58.1	62.1	66.5	63.2	55.5	45.7	26.7	25.0	43.1	
	HIGHEST DAILY MAXIMUM	45	37	39	61	68	74	79	73	65	57	43	40	79	
	DATE OF OCCURRENCE	16+	19+	26+	29	26	10	07	03	04+	10	05	01	JUL 07	
	MEAN DAILY MINIMUM	6.8	11.1	15.1	27.8	38.9	46.3	52.2	49.2	42.4	35.7	14.4	15.5	29.6	
	LOWEST DAILY MINIMUM	-24	-10	-3	11	32	40	46	44	30	22	-8	-4	-24	
	DATE OF OCCURRENCE	07	03	02	01	05	25+	04+	22+	29+	31	17	18	JAN 07	
	AVERAGE DRY BULB	13.0	17.5	21.8	35.3	48.5	54.2	59.4	56.2	49.0	40.7	20.6	20.3	36.4	
	MEAN WET BULB	11.7	16.1	19.3	31.5	42.1	48.2	54.2	51.5	45.1	37.9	18.5	18.9	32.9	
	MEAN DEW POINT	6.1	10.6	11.2	24.3	33.0	41.8	49.5	47.1	40.9	33.2	12.1	14.9	27.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	0	2	9	1	0	0	0	0	0	12
MAXIMUM <= 32°	24	22	21	4	0	0	0	0	0	0	22	23	116		
MINIMUM <= 32°	27	28	31	23	1	0	0	0	4	10	29	31	184		
MINIMUM <= 0°	12	6	1	0	0	0	0	0	0	0	5	2	26		
H/C	HEATING DEGREE DAYS	1603	1322	1332	883	503	315	171	266	474	744	1326	1379	10318	
	COOLING DEGREE DAYS	0	0	0	0	0	0	2	0	0	0	0	0	2	
RH	MEAN (PERCENT)	72	73	64	65	56	64	71	73	75	76	68	79	70	
	HOUR 03 LST	71	74	69	73	68	75	79	82	81	79	70	79	75	
	HOUR 09 LST	72	76	68	69	57	67	72	76	79	79	71	79	72	
	HOUR 15 LST	71	70	56	56	46	54	63	62	63	69	64	77	63	
	HOUR 21 LST	74	73	65	64	52	61	69	75	78	78	69	79	70	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	2	2	0	0	0	0	0	0	1	7	1	7	20	
	THUNDERSTORMS	0	0	0	0	0	1	0	0	0	0	0	0	1	
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.)	29.61	29.81	29.61	29.86	29.81	29.75	29.88	29.70	29.51	29.58	29.15	29.74	29.67	
	MEAN SEA-LEVEL PRESS. (IN.)	29.76	29.96	29.77	30.01	29.96	29.90	30.02	29.85	29.66	29.73	29.30	29.89	29.82	
WINDS	RESULTANT SPEED (MPH)	1.7	2.1	3.0	0.4	3.3	2.9	1.9	1.5	1.0	2.5	2.9	0.9	0.2	
	RES. DIR. (TENS OF DEGS.)	05	02	35	25	18	21	20	18	15	02	02	05	06	
	MEAN SPEED (MPH)	5.9	5.3	6.3	5.1	7.2	6.4	6.0	5.1	4.6	5.2	5.7	4.3	5.6	
	PREVAIL.DIR.(TENS OF DEGS.)	01	36	35	33	15	15	15	17	15	36	01	01	35	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	29	23	24	25	23	29	22	25	30	26	29	35	
	DIR. (TENS OF DEGS.)	14	36	16	15	15	15	14	16	15	02	16	15	14	
	DATE OF OCCURRENCE	16	20	05	26	26	22	31	15	01	31	11	01	JAN 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	54	40	35	37	37	37	41	36	38	45	47	41	54	
DIR. (TENS OF DEGS.)	16	36	18	14	15	17	14	17	14	03	15	16	16		
DATE OF OCCURRENCE	16	20	05	26	21	25	31	18	01	31	11	02	JAN 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.97	0.45	1.10	0.13	0.76	0.57	1.40	2.89	1.17	2.20	1.22	0.78	13.64	
	GREATEST 24-HOUR (IN.)	0.44	0.20	0.45	0.05	0.37	0.30	0.49	0.62	0.54	0.49	0.48	0.41	0.62	
	DATE OF OCCURRENCE	13-14	28	04-05	03	15	27	28-29	14	25-26	04-05	27	16-17	AUG 14	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	8	9	4	5	9	10	14	11	12	9	8	108	
PRECIPITATION 0.10	5	1	5	0	3	1	5	10	3	8	3	3	47		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	10.8	13.6	14.8	1.6	0.0	0.0	0.0	0.0	T	T	13.9	11.4	66.1	
	GREATEST 24-HOUR (IN.)	4.4	7.6	4.4	0.7	0.0	0.0	0.0	0.0	T	T	4.7	4.4	7.6	
	DATE OF OCCURRENCE	30	28	05	13+					24+	28+	27	17	FEB 28	
	MAXIMUM SNOW DEPTH (IN.)	17	12	18	14	0	0	0	0	0	0	12	14	18	
	DATE OF OCCURRENCE	13	02+	07+	04+							29+	19+	MAR 07+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	3	3	6	0	0	0	0	0	0	0	5	5	22		

# NORMALS, MEANS, AND EXTREMES ANCHORAGE (PANC)

**LATITUDE:** 61 ° 10'N      **LONGITUDE:** -149° 59'W      **ELEVATION (FT):** GRND: 120 BARO: 222      **TIME ZONE:** ALASKA (UTC -9)      **WBAN: 26451**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	22.2	25.8	33.6	43.9	54.9	62.3	65.3	63.3	55.0	40.0	27.7	23.7	43.1	
	MEAN DAILY MAXIMUM	56	21.6	25.9	32.7	43.3	54.7	62.1	65.3	63.2	54.9	40.5	27.9	22.8	42.9	
	HIGHEST DAILY MAXIMUM	56	50	48	51	69	77	85	84	82	73	64	54	48	85	
	YEAR OF OCCURRENCE		1961	1991	1984	2005	2002	1969	2003	1978	1957	2006	2002	2005	2005	JUN 1969
	MEAN OF EXTREME MAXS.	56	40.4	41.9	44.1	54.7	67.0	73.3	75.6	73.1	64.5	53.7	42.4	40.9	56.0	
	NORMAL DAILY MINIMUM	30	9.3	11.7	18.2	28.7	38.9	47.0	51.5	49.4	41.4	28.3	15.9	11.4	29.3	
	MEAN DAILY MINIMUM	56	8.9	12.2	17.5	28.5	38.9	47.0	51.6	49.6	41.4	28.6	16.1	10.5	29.2	
	LOWEST DAILY MINIMUM	56	-34	-28	-24	-4	17	33	38	31	19	-5	-21	-21	-30	
	YEAR OF OCCURRENCE		1975	1999	1971	1985	1964	1961	1964	1984	1992	1956	1956	1964	1964	JAN 1975
	MEAN OF EXTREME MINS.	56	-12.2	-7.2	-0.0	16.3	29.9	38.9	44.6	40.2	29.6	12.3	-2.0	-10.7	15.0	
	NORMAL DRY BULB	30	15.8	18.7	25.9	36.3	46.9	54.7	58.4	56.4	48.2	34.1	21.8	17.5	36.2	
	MEAN DRY BULB	56	15.3	19.1	25.1	35.9	46.8	54.8	58.5	56.4	48.1	34.6	22.0	16.6	36.1	
	MEAN WET BULB	26	15.4	17.7	22.0	31.6	40.8	48.6	53.3	52.1	44.7	31.7	20.1	17.9	33.0	
	MEAN DEW POINT	26	12.5	14.7	17.5	26.4	35.6	44.5	50.5	49.5	41.7	28.6	17.4	15.6	29.5	
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	0.6	3.4	6.5	3.4	0.1	0.0	0.0	0.0	14.0	
	MAXIMUM <= 32	30	24.0	19.6	11.9	2.1	0.0	0.0	0.0	0.0	0.0	5.0	20.9	24.8	108.3	
	MINIMUM <= 32	30	30.5	27.4	29.3	20.5	2.8	0.0	0.0	0.1	3.3	20.5	28.5	30.3	193.2	
MINIMUM <= 0	30	8.6	6.6	2.1	*	0.0	0.0	0.0	0.0	0.0	0.1	2.8	6.4	26.6		
H/C	NORMAL HEATING DEG. DAYS	30	1526	1295	1212	861	560	311	206	268	505	957	1297	1472	10470	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	3	0	0	0	0	0	3	
RH	NORMAL (PERCENT)	30	77	73	69	65	62	66	73	76	77	76	79	80	73	
	HOURLY 03 LST	30	77	76	74	75	74	77	82	85	83	79	81	80	79	
	HOURLY 09 LST	30	77	76	72	66	63	67	73	78	79	79	80	80	74	
	HOURLY 15 LST	30	75	68	59	54	51	56	63	65	65	68	76	79	65	
	HOURLY 21 LST	30	77	74	71	67	61	65	72	78	79	78	80	80	74	
S	PERCENT POSSIBLE SUNSHINE	40	34	42	50	50	50	46	42	38	38	35	31	26	40	
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	4.7	3.7	1.3	0.7	0.2	0.0	0.1	0.6	0.9	2.2	3.7	4.5	22.6	
	THUNDERSTORMS	56	0.0	0.0	0.0	0.0	0.1	0.2	0.4	0.4	0.2	0.0	0.0	0.0	1.3	
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	44	5.6	5.7	5.4	5.8	6.1	6.3	6.3	6.3	6.3	6.1	5.8	6.0	6.0	
	MIDNIGHT-MIDNIGHT (OKTAS)	33	5.5	5.4	5.3	5.6	6.1	6.4	6.4	6.2	6.0	5.8	5.6	5.9	5.9	
	MEAN NO. DAYS WITH: CLEAR	45	7.1	6.3	7.7	5.7	3.9	2.8	3.2	3.2	3.6	5.0	5.5	5.6	59.6	
	PARTLY CLOUDY	45	4.8	3.7	5.6	6.1	6.6	6.9	5.8	6.1	5.3	4.6	4.6	3.9	64.0	
	CLOUDY	45	19.3	18.1	17.6	18.3	20.4	20.2	21.2	21.1	20.5	20.6	19.3	20.9	237.5	
PR	MEAN STATION PRESSURE(IN)	26	29.51	29.59	29.60	29.65	29.73	29.77	29.81	29.74	29.62	29.51	29.47	29.45	29.62	
	MEAN SEA-LEVEL PRES. (IN)	26	29.67	29.76	29.75	29.80	29.88	29.91	29.95	29.88	29.77	29.66	29.62	29.60	29.77	
WINDS	MEAN SPEED (MPH)	26	6.6	6.7	7.4	7.3	8.5	8.3	7.4	6.8	7.1	6.7	6.7	6.4	7.2	
	PREVAIL.DIR.(TENS OF DEGS)	46	01	36	36	17	17	17	17	17	17	36	01	01	17	
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	35	41	54	37	29	33	30	33	33	32	36	38	54	
	DIR. (TENS OF DEGS)		14	15	02	17	15	18	17	14	15	15	14	16	02	
	YEAR OF OCCURRENCE		2009	2000	2003	2005	2008	1999	2001	2005	2000	2006	2002	1999	MAR 2003	
	MAXIMUM 3-SECOND SPEED (MPH)	11	54	58	71	51	43	46	41	45	47	47	47	49	71	
	DIR. (TENS OF DEGS)		16	12	01	17	15	16	14	14	15	13	15	16	01	
YEAR OF OCCURRENCE		2009	2000	2003	2005	2008	2007	2009	2005	2000	2006	2009	1999	MAR 2003		
PRECIPITATION	NORMAL (IN)	30	0.68	0.74	0.65	0.52	0.70	1.06	1.70	2.93	2.87	2.09	1.09	1.05	16.08	
	MAXIMUM MONTHLY (IN)	56	2.13	3.07	2.76	2.32	1.93	3.40	4.49	9.77	7.35	4.28	2.84	2.67	9.77	
	YEAR OF OCCURRENCE		1949	1955	1979	2008	1989	1962	2001	1989	2004	2002	1976	1955	AUG 1989	
	MINIMUM MONTHLY (IN)	56	0.02	0.07	T	T	0.02	0.17	0.42	0.33	0.72	0.35	0.04	0.09	T	
	YEAR OF OCCURRENCE		1982	1958	1983	1969	1957	1993	1972	1969	1998	1960	2006	1995	MAR 1983	
	MAXIMUM IN 24 HOURS (IN)	56	1.19	1.16	1.25	1.32	1.18	1.84	2.37	4.12	1.92	1.62	1.66	1.62	4.12	
	YEAR OF OCCURRENCE		1961	1956	1986	2008	1980	1962	2001	1989	1961	2003	1964	1955	AUG 1989	
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	8.1	7.3	6.8	5.5	7.0	8.2	11.3	13.8	14.5	12.3	9.3	11.1	115.2	
	PRECIPITATION >= 1.00	30	*	0.0	*	0.0	0.0	*	0.1	0.3	0.2	0.1	0.0	0.0	0.7	
SNOWFALL	NORMAL (IN)	30	9.0	11.0	10.3	4.1	0.1	0.0	0.0	0.*	0.2	8.5	11.4	14.9	69.5	
	MAXIMUM MONTHLY (IN)	56	29.3	52.1	31.0	30.8	6.1	0.0	0.0	T	6.3	28.1	38.8	41.6	52.1	
	YEAR OF OCCURRENCE		2007	1996	1979	2008	2001			2008	2004	1996	1994	1955	FEB 1996	
	MAXIMUM IN 24 HOURS (IN)	56	10.5	13.9	22.0	9.1	5.0	0.0	0.0	T	6.0	14.6	16.4	17.7	22.0	
	YEAR OF OCCURRENCE		1955	1996	2002	1955	2001			1997	2004	1996	1964	1955	MAR 2002	
	MAXIMUM SNOW DEPTH (IN)	55	833	840	906	356	17	0	0	0	6	105	416	715	906	
	YEAR OF OCCURRENCE		1956	1956	1959	1955	1955				2004	1991	1994	1994	MAR 1959	
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.0	2.8	2.6	1.3	0.0	0.0	0.0	0.0	0.1	2.4	3.5	3.9	19.6	

**PRECIPITATION (inches) 2009 ANCHORAGE (PANC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	1.28	1.18	0.30	0.19	1.68	2.73	2.27	3.06	2.53	3.05	0.49	0.41	19.17
1981	0.93	0.97	0.41	0.19	0.81	0.83	4.39	4.96	2.15	3.49	1.85	0.36	21.34
1982	0.02	0.69	0.42	0.27	0.54	1.56	2.41	2.33	4.66	2.95	1.72	0.11	17.68
1983	0.21	0.23	T	1.36	0.59	0.66	0.55	2.89	2.29	2.67	0.23	0.48	12.16
1984	1.30	1.08	0.08	0.93	0.96	1.10	1.11	3.21	2.59	1.38	0.15	1.08	14.97
1985	0.70	0.67	0.86	0.50	1.45	1.01	0.99	3.54	3.17	1.07	0.08	1.47	15.51
1986	0.20	0.55	1.70	0.42	0.50	0.33	2.02	3.62	2.85	4.11	1.23	1.42	18.95
1987	1.72	0.20	0.17	0.24	0.67	1.09	1.89	0.43	1.91	2.60	1.90	1.12	13.94
1988	0.38	0.32	0.65	0.37	0.56	0.79	0.64	3.77	1.26	2.96	1.11	1.51	14.32
1989	0.26	0.17	0.22	0.98	1.93	1.14	2.89	9.77	3.92	3.63	1.01	1.63	27.55
1990	1.42	1.46	0.46	0.27	0.71	1.52	0.81	1.90	6.64	0.73	1.31	1.78	19.01
1991	0.62	0.42	0.65	0.23	0.12	0.18	2.82	3.54	3.41	1.93	1.57	1.82	17.31
1992	1.17	1.04	0.31	0.08	0.58	1.21	0.79	2.49	2.83	2.08	1.17	0.69	14.44
1993	0.94	1.17	0.29	0.09	1.17	0.17	0.57	4.02	4.27	1.90	2.00	0.30	16.89
1994	0.59	0.28	1.51	0.45	0.51	1.34	0.57	1.02	1.66	1.21	2.47	1.51	13.12
1995	0.52	1.00	0.88	0.08	1.11	0.91	3.01	2.19	2.93	0.95	0.09	0.09	13.76
1996	0.11	2.40	0.42	0.08	0.20	0.50	2.04	2.53	1.93	2.63	1.38	0.24	14.46
1997	0.12	0.52	0.01	0.25	1.12	0.60	1.36	8.37	2.53	1.93	0.87	1.80	19.48
1998	0.45	0.24	0.07	0.39	0.63	2.70	1.01	3.25	0.72	0.54	0.18	1.47	11.65
1999	0.37	0.28	0.61	0.29	1.30	1.10	2.15	4.62	3.17	2.63	0.35	1.43	18.30
2000	1.04	0.54	0.48	0.39	0.69	1.43	2.58	1.68	3.24	0.59	1.13	0.58	14.37
2001	1.10	0.85	0.88	0.34	0.48	0.24	4.49	0.97	1.14	1.57	0.26	0.20	12.52
2002	0.72	0.35	1.61	0.29	0.27	1.01	1.46	3.51	3.36	4.28	0.27	1.66	18.79
2003	0.39	0.90	0.34	0.17	0.67	0.95	1.23	2.34	1.96	3.06	2.57	2.10	16.68
2004	0.49	0.73	0.86	0.77	1.02	0.95	0.88	1.17	7.35	1.18	2.40	1.73	19.53
2005	0.61	1.29	1.04	0.16	0.29	0.81	1.03	3.44	4.57	0.78	0.99	0.90	15.91
2006	0.37	0.71	0.73	0.49	0.55	1.41	1.47	6.60	3.56	2.02	0.04	2.38	20.33
2007	1.34	0.14	0.18	0.17	0.66	1.10	1.81	2.09	4.30	1.69	1.29	0.62	15.39
2008	1.16	0.85	0.41	2.32	0.40	0.63	3.25	0.92	3.22	1.77	1.11	0.99	17.03
2009	0.97	0.45	1.10	0.13	0.76	0.57	1.40	2.89	1.17	2.20	1.22	0.78	13.64
POR= 56 YRS	0.75	0.81	0.64	0.55	0.66	1.00	1.88	2.69	2.75	1.92	1.10	1.11	15.86

WBAN : 26451

**AVERAGE TEMPERATURE (°F) 2009 ANCHORAGE (PANC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	14.3	27.4	27.2	39.3	45.8	53.2	57.0	54.4	46.7	37.2	27.6	0.8	35.9
1981	31.5	24.8	34.4	36.0	50.7	53.8	57.4	54.8	47.9	36.0	21.8	15.9	38.8
1982	6.4	15.5	26.3	33.1	44.5	52.9	56.2	54.7	47.5	26.6	21.0	21.5	33.9
1983	16.2	21.4	28.7	37.4	48.7	55.9	58.5	56.1	45.3	34.4	24.9	16.7	37.0
1984	18.8	19.4	36.4	38.8	49.6	58.8	60.8	56.6	49.3	35.5	19.8	18.9	38.6
1985	30.3	13.5	26.7	28.4	45.1	51.9	58.5	55.2	47.6	30.3	14.0	27.5	35.8
1986	25.6	21.8	24.1	31.0	46.6	54.6	58.0	54.3	48.6	39.0	25.0	28.3	38.1
1987	22.8	25.3	26.8	37.9	47.2	51.9	57.1	57.3	48.0	38.9	26.9	18.2	38.2
1988	18.0	22.7	31.3	37.1	48.5	55.2	58.8	56.0	48.0	33.3	20.5	22.0	37.6
1989	3.5	17.6	23.6	39.3	46.3	55.3	59.4	59.0	50.6	34.0	17.2	24.2	35.8
1990	15.5	3.8	28.6	39.9	49.9	57.1	58.6	57.8	49.6	32.3	9.9	14.8	34.8
1991	15.9	19.6	23.7	37.7	46.6	55.7	57.5	55.5	51.0	33.0	25.0	20.5	36.8
1992	20.3	15.0	24.9	35.2	46.1	55.9	59.5	55.8	40.3	31.2	27.1	15.0	35.5
1993	14.5	21.0	28.8	40.6	50.7	56.3	61.1	58.8	48.8	38.7	25.2	24.0	39.0
1994	21.7	17.1	25.7	38.6	47.1	56.7	58.8	58.8	48.6	33.5	15.3	15.7	36.5
1995	15.6	20.7	18.6	40.4	48.8	56.0	59.2	57.9	53.7	38.1	21.0	19.0	37.4
1996	6.1	15.8	29.2	38.6	50.1	56.9	59.9	56.7	46.5	25.4	19.0	13.0	34.8
1997	15.9	30.7	24.6	38.2	48.0	56.7	60.8	58.1	50.4	29.6	28.0	16.8	38.2
1998	15.5	25.8	30.1	40.2	47.3	54.7	57.3	53.8	49.0	35.9	23.5	14.3	37.3
1999	11.9	7.2	24.1	34.5	45.7	55.3	58.4	56.9	48.9	34.0	19.7	14.9	34.3
2000	14.8	25.9	29.6	37.4	46.1	55.1	56.8	54.8	47.1	34.8	29.7	25.1	38.1
2001	27.5	23.1	28.8	37.7	44.8	58.1	57.7	58.4	49.2	30.1	19.6	10.8	37.2
2002	23.7	21.3	22.0	30.8	48.4	53.4	59.8	57.0	50.1	41.2	35.2	24.0	38.9
2003	22.1	31.3	26.8	38.4	48.1	55.8	62.3	57.9	49.0	40.1	21.5	17.2	39.2
2004	9.6	26.4	24.2	37.3	50.2	57.5	61.9	61.2	45.0	38.2	29.0	21.9	38.5
2005	18.8	20.5	32.1	40.1	50.6	56.9	61.4	58.1	51.4	36.7	16.8	25.4	39.1
2006	10.6	21.9	23.7	35.8	48.6	54.4	58.2	54.9	49.5	39.0	11.5	21.6	35.8
2007	16.7	17.3	14.4	38.4	47.3	54.5	58.2	58.2	50.5	35.6	30.8	19.5	36.8
2008	13.4	16.8	30.3	33.4	45.8	51.6	55.8	55.6	48.5	29.3	21.2	14.2	34.7
2009	13.0	17.5	21.8	35.3	48.5	54.2	59.4	56.2	49.0	40.7	20.6	20.3	36.4
POR= 56 YRS	15.3	19.1	25.1	35.9	46.8	54.8	58.5	56.4	48.2	34.6	22.0	16.6	36.1

**HEATING DEGREE DAYS (base 65°F) 2009 ANCHORAGE (PANC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	243	320	542	855	1115	1990	1032	1122	943	863	438	329	9792
1981-82	230	307	507	893	1290	1516	1813	1382	1191	949	625	356	11059
1982-83	261	313	520	1184	1315	1342	1507	1216	1117	821	500	267	10363
1983-84	194	269	585	945	1194	1491	1425	1319	880	778	471	179	9730
1984-85	129	254	464	906	1350	1423	1070	1437	1182	1091	610	388	10304
1985-86	193	298	516	1065	1523	1155	1215	1206	1260	1013	564	307	10315
1986-87	215	325	486	800	1194	1133	1303	1104	1176	805	543	386	9470
1987-88	243	232	506	801	1136	1444	1450	1221	1037	830	504	285	9689
1988-89	184	270	503	975	1331	1326	1908	1322	1277	765	573	286	10720
1989-90	173	181	423	956	1428	1255	1533	1715	1121	746	465	237	10233
1990-91	191	222	457	1006	1648	1552	1518	1265	1273	813	563	273	10781
1991-92	226	287	414	988	1193	1373	1380	1444	1240	891	579	268	10283
1992-93	161	280	735	1039	1131	1543	1563	1226	1117	725	436	252	10208
1993-94	125	187	477	808	1191	1267	1334	1335	1212	785	548	243	9512
1994-95	183	190	485	968	1488	1523	1526	1239	1433	734	496	265	10530
1995-96	172	214	335	826	1314	1425	1827	1423	1102	783	456	239	10116
1996-97	151	251	549	1220	1375	1608	1516	956	1246	796	520	249	10437
1997-98	123	207	432	1090	1103	1486	1530	1093	1073	739	540	302	9718
1998-99	232	340	475	895	1240	1566	1638	1611	1262	908	592	286	11045
1999-00	204	248	478	953	1352	1544	1548	1126	1090	821	579	291	10234
2000-01	245	312	534	931	1052	1230	1154	1168	1113	812	618	199	9368
2001-02	220	200	466	1072	1356	1673	1272	1216	1327	1017	506	341	10666
2002-03	156	243	442	731	889	1264	1323	937	1177	791	519	268	8740
2003-04	97	220	474	763	1299	1478	1708	1114	1256	826	451	222	9908
2004-05	102	115	593	820	1073	1330	1424	1239	1012	742	438	236	9124
2005-06	112	207	401	872	1436	1220	1678	1199	1272	869	498	309	10073
2006-07	202	306	458	799	1598	1341	1491	1327	1565	792	539	313	10731
2007-08	203	202	430	903	1021	1402	1594	1391	1070	939	591	394	10140
2008-09	276	283	489	1097	1307	1569	1603	1322	1332	883	503	315	10979
2009-	171	266	474	744	1326	1379							

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**COOLING DEGREE DAYS (base 65°F) 2009 ANCHORAGE (PANC)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
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	5	1	0	0	0	0	6
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
1986	0	0	0	0	0	0	4	0	0	0	0	0	4
1987	0	0	0	0	0	0	2	0	0	0	0	0	2
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	5	2	0	0	0	0	7
1990	0	0	0	0	0	3	1	2	0	0	0	0	6
1991	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	11	0	0	0	0	0	11
1994	0	0	0	0	0	0	0	2	0	0	0	0	2
1995	0	0	0	0	0	1	0	0	0	0	0	0	1
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	5	0	1	0	0	0	0	6
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	7	0	0	0	0	0	7
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	1	0	0	0	0	0	1
2003	0	0	0	0	0	0	19	4	0	0	0	0	23
2004	0	0	0	0	0	2	11	4	0	0	0	0	17
2005	0	0	0	0	0	0	7	1	0	0	0	0	8
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	3	0	0	0	0	0	0	3
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	2	0	0	0	0	0	2

**SNOWFALL (inches) 2009 ANCHORAGE (PANC)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	10.2	4.2	1.4	5.0	6.6	4.4	1.1	T	0.0	32.9
1981-82	0.0	0.0	1.5	6.3	20.0	7.6	0.5	0.6	5.6	3.5	0.7	0.0	46.3
1982-83	0.0	0.0	0.0	27.1	23.4	1.9	3.7	4.3	T	11.0	0.0	0.0	71.4
1983-84	0.0	0.0	T	23.7	2.1	10.5	15.0	18.9	0.2	9.8	0.0	0.0	80.2
1984-85	0.0	0.0	0.0	3.3	1.8	18.0	9.7	7.9	12.8	7.3	1.3	0.0	62.1
1985-86	0.0	0.0	0.0	0.8	1.5	6.1	5.1	6.1	21.0	5.4	0.1	0.0	46.1
1986-87	0.0	0.0	0.0	T	3.8	10.1	18.5	2.2	2.5	1.6	0.0	0.0	38.7
1987-88	0.0	0.0	0.0	T	29.2	26.3	4.7	9.2	8.5	2.0	0.0	0.0	79.9
1988-89	0.0	0.0	0.0	12.0	15.3	18.6	10.1	2.3	5.1	T	0.2	0.0	63.6
1989-90	0.0	0.0	0.0	16.3	10.1	20.0	27.5	23.0	4.7	0.8	T	0.0	102.4
1990-91	0.0	0.0	0.0	1.6	16.9	21.4	7.7	5.4	12.7	T	0.0	0.0	65.7
1991-92	0.0	0.0	0.0	11.6	19.3	26.2	21.4	18.3	2.7	T	0.2	0.0	99.7
1992-93	0.0	0.0	3.0	13.0	9.1	12.1	13.7	18.3	5.7	0.0	0.0	0.0	74.9
1993-94	0.0	0.0	T	4.4	11.9	5.1	7.5	1.7	29.9	6.0	0.0	0.0	66.5
1994-95	0.0	0.0	0.0	9.1	38.8	29.0	12.6	15.3	16.7	0.0	0.0	0.0	121.5
1995-96	0.0	0.0	0.0	4.0	0.9	2.5	2.5	52.1	6.1	0.9	0.0	0.0	69.0
1996-97	0.0	0.0	.1	28.1	25.7	4.7	3.1	5.1	0.8	0.2	0.0	0.0	67.8
1997-98	0.0	T	0.0	11.6	6.4	26.6	6.8	3.1	1.2	2.9	0.0	0.0	79.3
1998-99	0.0	T	0.0	0.4	9.1	34.5	8.3	6.6	17.4	3.0	T	0.0	79.3
1999-00	0.0	0.0	0.0	5.7	8.5	18.6	28.6	4.6	7.4	2.8	0.0	0.0	76.2
2000-01	0.0	0.0	T	2.1	3.2	4.2	11.0	19.7	15.9	1.3	6.1	0.0	63.5
2001-02	0.0	0.0	0.0	20.6	6.6	7.9	7.1	9.0	29.5	0.1	0.7	0.0	81.5
2002-03	0.0	0.0	0.0	T	2.1	23.5	3.0	0.3	7.5	0.4	0.0	0.0	36.8
2003-04	0.0	0.0	0.0	0.0	28.8	37.6	9.4	10.4	22.3	5.4	0.0	0.0	113.9
2004-05	0.0	0.0	6.3	3.4	16.0	21.5	2.2	15.4	10.7	1.1	0.0	0.0	76.6
2005-06	0.0	0.0	0.0	1.5	16.7	14.7	10.7	8.5	12.3	5.1	0.3	0.0	69.8
2006-07	0.0	T	0.0	8.7	1.0	36.9	29.3	4.4	4.0	T	0.0	0.0	84.3
2007-08	0.0	0.0	0.0	3.1	14.8	13.8	27.2	17.4	2.0	30.8	0.0	0.0	109.1
2008-09	0.0	T	0.0	13.1	21.7	17.8	10.8	13.6	14.8	1.6	0.0	0.0	93.4
2009-	0.0	0.0	T	T	13.9	11.4							
POR= 57 YRS	0.0	T	0.3	7.6	11.8	15.8	10.1	11.9	9.9	4.9	0.3	0.1	72.7

WBAN : 26451

**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. 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.</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 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: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></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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# 2009 ANCHORAGE ALASKA (PANC)

Anchorage is in a broad valley with adjacent narrow bodies of water. Cook Inlet, including Knik Arm and Turnagain Arm, lies approximately 2 miles to the west, north, and south. The terrain rises gradually to the east for about 10 miles, with marshes interspersed with glacial moraines, shallow depressions, small streams, and knolls. Beyond this area, the Chugach Mountains rise abruptly into a range oriented north-northeast to south-southwest, with average elevation 4,000 to 5,000 feet and some peaks to 8,000 or 10,000 feet. The Chugach Range acts as a barrier to the influx of warm, moist air from the Gulf of Alaska, so the average annual precipitation is only 10 to 15 percent of that at stations located on the Gulf of Alaska side of the Chugach Range. The Alaska Mountain Range lies in a long arc from southwest, through northwest, to northeast, approximately 100 miles distant from Anchorage. During the winter, this range is an effective barrier to the influx of very cold air from the north side of the range.

The four seasons are well marked in Anchorage. In the summer, high temperatures average about 60 degrees and low temperatures nearly 50 degrees. Temperatures in the 70s are considered very warm. On summer days, temperatures on the east side of Anchorage may be about 10 degrees warmer than the official airport readings. Rain increases after mid-June. About two-thirds of the days in July and August are cloudy and one-third have rain.

Autumn is brief, beginning in early September and ending in mid-October. Temperatures begin to fall in September with snow becoming more frequent in October.

Winter can be considered as mid-October to early April when streams and lakes are frozen. Temperatures steadily decrease into January when the highs are near 20 degrees and lows near 5 degrees. The coldest weather is normally in January, when very cold days have high temperatures below zero. Cold days generally have clear skies and calm wind. Mild days do occur with temperatures in the 30s. On cold winter nights, temperatures on the east side of Anchorage may be 10-20 degrees lower than airport readings on the west side. Most winter precipitation is snow, but rain may occur on a few days.

Annual snowfall varies from about 70 inches on the west side to about 90 inches on the east side of Anchorage at low elevations. Along the Chugach Mountains, snow totals increase steadily with increasing elevations and winter arrives a month earlier and stays a month longer at the 1,000 to 2,000 foot level. Most snow is light or dry, i.e., low in water content. Freezing rain is extremely rare. Fog, made of water droplets, occurs on about fifteen days. In general, ice-fog does not occur in Anchorage.

Spring begins in late April and May when days are warm and sunny, nights are cool, and precipitation is exceedingly small. Foliage turns green by late May.

The wind in Anchorage is generally light. However, on several days each winter, strong northerly winds, up to 90 mph, affect the entire Anchorage area. Also during the winter there are about eight occurrences of very strong southeast winds which affect only the east side of Anchorage and the slopes of the Chugach Mountains. These winds occur more often above the 800 foot elevation in the Chugach where winds are funneled thru creek canyons. On the east side of Anchorage, damaging winds of over 100 mph have been recorded.

The average occurrence of the first snow is mid-October, but has occurred as early as mid-September. The average date of the last snow is mid-April, but has occurred as late as early May. The growing season is about 125 days. Average occurrence of the last temperature of 32 degrees in spring is mid-May and the first in fall is mid-September. Daylight varies from about 19 hours in late June to 6 hours in late December with 12 hours of daylight occurring in late September and late March.

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