

1999

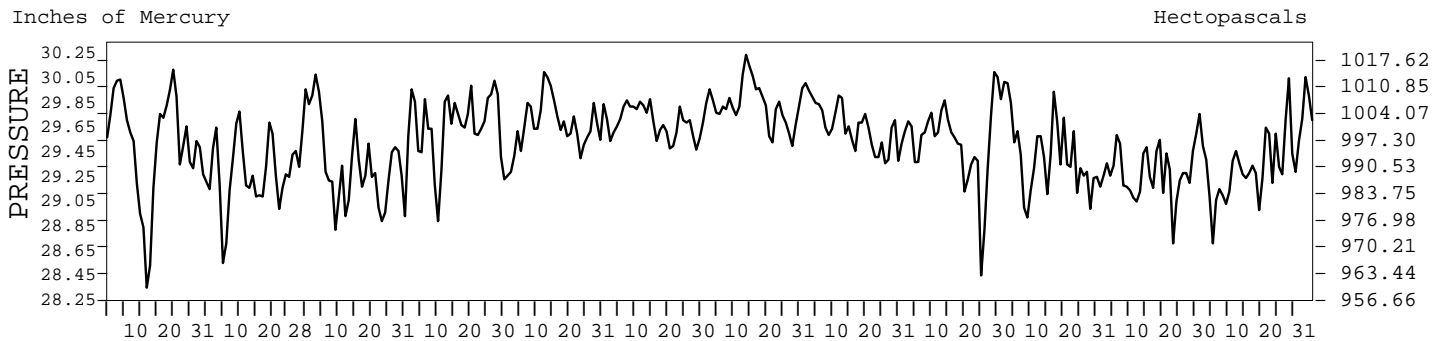
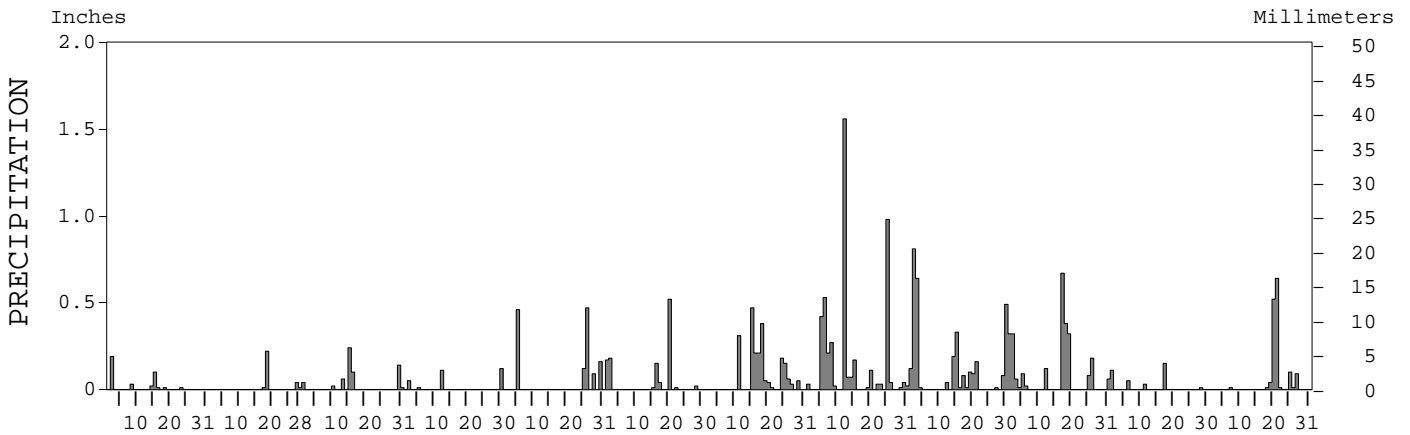
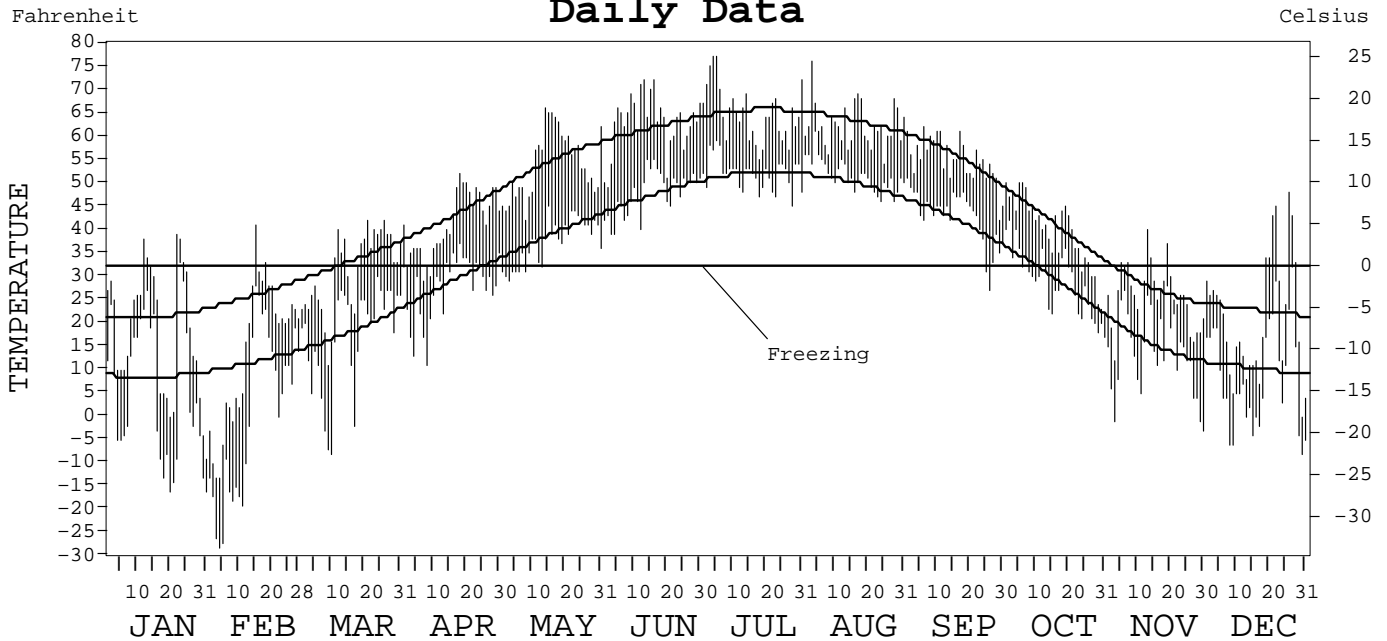
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-954X

ANCHORAGE,
ALASKA (ANC)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

ANCHORAGE, AK (ANC)

LATITUDE: 61° 10' 30" N LONGITUDE: 149° 59' 36" W ELEVATION (FT): GRND: 144 BARO: 144 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	18.5	14.1	31.2	41.3	54.1	62.9	64.9	62.2	55.0	39.2	25.7	21.3	40.9	
	HIGHEST DAILY MAXIMUM	39	41	42	52	66	72	77	76	62	50	40	48	77	
	DATE OF OCCURRENCE	22	15	26+	18	14	16+	05+	03	06	06+	13	26	JUL 05+	
	MEAN DAILY MINIMUM	5.3	.3	16.9	27.7	37.3	47.7	51.9	51.5	42.8	28.8	13.6	8.5	27.7	
	LOWEST DAILY MINIMUM	-16	-28	-8	11	29	39	45	46	27	17	-3	-8	-28	
	DATE OF OCCURRENCE	31+	04	10	08	03	04+	28	28+	26	31	30	30	FEB 04	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	11.4	7.1	22.3	31.0	40.1	49.7	53.9	53.3	45.9	32.0	19.0	13.8	31.6	
	MEAN DEW POINT	6.1	1.3	16.5	23.8	32.1	43.7	49.7	50.5	42.6	27.4	14.4	9.0	26.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	4	6	1	0	0	0	0	0	11
	MAXIMUM ≤ 32°	26	26	14	4	0	0	0	0	0	6	25	24	125	
	MINIMUM ≤ 32°	30	28	31	21	8	0	0	0	2	22	30	31	203	
	MINIMUM ≤ 0°	15	14	4	0	0	0	0	0	0	0	3	9	45	
H/C	HEATING DEGREE DAYS	1638	1611	1262	908	592	286	204	248	478	953	1352	1544	11076	
	COOLING DEGREE DAYS	0	0	0	0	0	0	7	0	0	0	0	0	7	
RH	MEAN (PERCENT)	75	74	73	65	61	66	74	82	80	77	77	77	73	
	HOUR 03 LST	78	77	78	72	76	78	83	89	86	79	76	76	79	
	HOUR 09 LST	74	77	74	68	64	68	74	86	83	79	81	77	75	
	HOUR 15 LST	72	64	64	58	47	59	67	73	70	71	74	78	66	
	HOUR 21 LST	75	75	76	63	57	62	72	83	81	78	75	80	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	6	1	0	1	0	0	0	2	1	1	0	1	13	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	29.51	29.28	29.38	29.65	29.66	29.69	29.84	29.65	29.56	29.37	29.30	29.39	29.52	
	MEAN SEA-LEVEL PRESS. (IN.)	29.77	29.48	29.54	29.81	29.81	29.85	30.00	29.80	29.71	29.53	29.46	29.55	29.69	
WINDS	RESULTANT SPEED (MPH)	2.2	2.0	1.7	1.3	3.0	4.1	3.5	2.4	2.8	2.6	3.8	2.5	0.4	
	RES. DIR. (TENS OF DEGS.)	02	02	02	18	22	19	20	18	16	02	03	04	13	
	MEAN SPEED (MPH)	6.6	4.8	6.7	8.1	8.3	8.1	7.5	6.1	7.1	6.8	5.5	7.5	6.9	
	PREVAIL. DIR. (TENS OF DEGS.)	01	01	36	16	16	16	16	17	16	01	01	01	01	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	34	24	29	26	26	33	30	28	29	24	22	38	38	
	DIR. (TENS OF DEGS.)	16	16	02	16	16	18	16	16	04	36	01	16	16	
	DATE OF OCCURRENCE	23	15	06	16	22	13	05	04	22+	21+	30	21	DEC 21	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	47	33	41	36	36	44	40	38	40	33	28	49	49	
DIR. (TENS OF DEGS.)	16	15	16	15	16	17	15	16	17	21	01	16	16		
DATE OF OCCURRENCE	23	15	31	16	22	13	05	04	17	19+	30	21	DEC 21		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.19	0.22	0.24	0.12	0.57	0.52	0.67	1.63	1.35	0.69	0.15	0.82	1.63	
	DATE OF OCCURRENCE	02	18	15	30	25-26	20	15-16	12-13	02-03	18-19	17	20-21	AUG 12-13	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	4	7	4	5	8	13	19	16	13	5	9	110	
PRECIPITATION ≥ 0.10	2	1	3	2	4	4	7	8	8	7	2	3	51		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	1	0	0	0	0	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	8.3	6.6	17.4	3.0	T	0.0	0.0	0.0	0.0	5.7	8.5	18.6	68.1	
	GREATEST 24-HOUR (IN.)	2.9	3.5	6.3	2.2	T	0.0	0.0	0.0	0.0	2.2	3.6	12.5	12.5	
	DATE OF OCCURRENCE	02	18	15	12	01	0	0	0	0	26	01	20	DEC 20	
	MAXIMUM SNOW DEPTH (IN.)	12	11	12	8	0	0	0	0	0	4	8	20	20	
	DATE OF OCCURRENCE	17	27	04+	01						31	19+	21	DEC 21	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	3	2	5	1	0	0	0	0	0	3	3	2	19		

NORMALS, MEANS, AND EXTREMES

ANCHORAGE, AK (ANC)

LATITUDE: 61° 10' 30" N LONGITUDE: 149° 59' 36" W ELEVATION (FT): GRND: 144 BARO: 144 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	21.4	25.8	33.1	42.8	54.4	61.6	65.2	63.0	55.2	40.5	27.2	22.5	42.7
	MEAN DAILY MAXIMUM	46	21.3	25.4	33.0	43.5	54.9	62.3	65.2	63.1	55.2	40.3	27.5	22.2	42.8
	HIGHEST DAILY MAXIMUM	46	50	48	51	65	77	85	82	82	73	61	53	48	85
	YEAR OF OCCURRENCE		1961	1991	1984	1976	1969	1969	1989	1978	1957	1993	1979	1999	JUN 1969
	MEAN OF EXTREME MAXS.	46	40.0	41.7	44.6	54.1	66.8	73.5	75.6	72.8	64.7	53.3	42.3	40.5	55.8
	NORMAL DAILY MINIMUM	30	8.4	11.5	18.1	28.6	38.8	47.2	51.7	49.5	41.6	28.7	15.1	10.0	29.1
	MEAN DAILY MINIMUM	46	8.0	11.1	17.3	28.6	38.9	47.2	51.5	49.4	41.2	28.2	15.6	9.5	28.9
	LOWEST DAILY MINIMUM	46	-34	-28	-24	-4	17	33	38	31	19	-5	-21	-30	-34
	YEAR OF OCCURRENCE		1999	1971	1985	1964	1961	1964	1984	1992	1956	1956	1964	JAN 1975	
	MEAN OF EXTREME MINS.	46	-13.7	-9.1	-1.4	16.9	29.8	39.3	44.2	39.6	29.2	11.3	-3.4	-12.5	14.2
	NORMAL DRY BULB	30	14.9	18.7	25.7	35.8	46.6	54.4	58.4	56.3	48.4	34.6	21.2	16.3	35.9
	MEAN DRY BULB	46	14.6	18.3	25.2	36.1	46.9	54.8	58.4	56.2	48.2	34.2	21.4	15.8	35.8
	MEAN WET BULB	16	16.3	17.4	23.8	32.9	42.0	49.4	54.0	52.5	45.2	31.3	20.1	18.4	33.6
	MEAN DEW POINT	16	11.9	12.4	17.1	25.3	34.2	43.3	49.7	48.4	41.0	26.5	16.0	14.8	28.4
	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	24.8	19.9	11.5	2.0	0.0	0.0	0.0	0.0	0.0	4.6	20.8	24.5	108.1	
MINIMUM ≤ 32°	30	30.5	27.3	28.3	20.3	2.7	0.0	0.0	0.1	3.2	19.8	28.2	30.2	190.6	
MINIMUM ≤ 0°	30	9.8	7.2	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.2	7.2	29.8	
H/C	NORMAL HEATING DEG. DAYS	30	1553	1296	1218	876	570	318	205	270	498	942	1314	1510	10570
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)														
	HOUR 03 LST	30	74	73	71	72	72	75	80	83	82	78	79	77	76
	HOUR 09 LST	30	74	74	70	66	64	68	73	78	80	78	78	77	73
	HOUR 15 LST	30	72	67	57	54	50	56	62	65	64	67	74	76	64
	HOUR 21 LST	30	73	71	68	64	59	62	69	76	78	76	78	77	71
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	5.9	4.2	1.5	0.7	0.3	0.1	0.2	0.9	1.3	2.1	3.5	4.8	25.5
	THUNDERSTORMS	46	0.0	0.0	0.0	0.0	0.1	0.1	0.5	0.2	0.1	0.0	0.0	0.0	1.0
CLOUDINESS	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)	27	29.49	29.57	29.59	29.60	29.71	29.80	29.80	29.79	29.60	29.50	29.49	29.49	29.62
	MEAN SEA-LEVEL PRES. (IN)	16	29.65	29.74	29.75	29.77	29.86	29.90	29.97	29.90	29.78	29.67	29.63	29.62	29.77
WINDS	MEAN SPEED (MPH)	46	6.4	7.0	7.1	7.3	8.5	8.4	7.3	6.9	6.7	6.8	6.4	6.2	7.1
	PREVAIL. DIR (TENS OF DEGS)	36	36	36	36	16	16	16	16	16	16	36	36	01	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	34	24	29	26	26	33	30	28	29	24	22	38	38
	DIR. (TENS OF DEGS)		16	16	02	16	16	18	16	16	04	36	01	16	16
	YEAR OF OCCURRENCE		1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	DEC 1999
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	1	47	33	41	36	36	44	40	38	40	33	28	49	49
DIR. (TENS OF DEGS)		16	15	16	15	16	17	15	16	17	21	01	16	16	
YEAR OF OCCURRENCE		1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	DEC 1999	
PRECIPITATION	NORMAL (IN)	30	0.79	0.78	0.69	0.67	0.73	1.14	1.71	2.44	2.70	2.03	1.11	1.12	15.91
	MAXIMUM MONTHLY (IN)	46	2.71	3.07	2.76	1.91	1.93	3.40	4.44	9.77	6.64	4.11	2.84	2.67	9.77
	YEAR OF OCCURRENCE		1987	1955	1979	1977	1989	1962	1958	1989	1990	1986	1976	1955	AUG 1989
	MINIMUM MONTHLY (IN)	46	0.02	0.07	T	T	0.02	0.17	0.42	0.33	0.72	0.35	0.08	0.09	T
	YEAR OF OCCURRENCE		1982	1958	1983	1969	1957	1993	1972	1969	1998	1960	1985	1995	MAR 1983
	MAXIMUM IN 24 HOURS (IN)	46	1.19	1.16	1.25	0.78	1.18	1.84	2.06	4.12	1.92	1.60	1.66	1.62	4.12
	YEAR OF OCCURRENCE		1961	1956	1986	1989	1980	1962	1956	1989	1961	1986	1964	1955	AUG 1989
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	7.7	8.0	7.3	5.8	7.1	7.9	11.5	13.4	14.5	12.2	9.6	11.0	116.0	
PRECIPITATION ≥ 1.00	30	*	0.0	*	0.0	0.0	0.1	0.1	0.1	0.2	*	*	0.0	0.5	
SNOWFALL	NORMAL (IN)	30	8.8	11.0	9.1	5.8	0.2	0.0	0.0	0.0	0.3	8.0	10.5	13.9	67.6
	MAXIMUM MONTHLY (IN)	46	27.5	52.1	31.0	27.6	3.9	0.0	0.0	T	4.6	28.1	38.8	41.6	52.1
	YEAR OF OCCURRENCE		1990	1996	1979	1963	1963			1997	1965	1996	1994	1955	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	46	10.5	13.9	14.5	9.1	3.9	0.0	0.0	T	3.5	14.6	16.4	17.7	17.7
	YEAR OF OCCURRENCE		1955	1996	1959	1955	1963			1997	1965	1996	1964	1955	DEC 1955
	MAXIMUM SNOW DEPTH (IN)	45	833	840	906	356	17	0	0	0	1	105	416	715	906
	YEAR OF OCCURRENCE		1956	1956	1959	1955	1955				1992	1991	1994	1994	MAR 1959
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	2.8	3.3	2.7	1.5	0.0	0.0	0.0	0.0	0.2	2.3	3.5	4.6	20.9	

PRECIPITATION (inches) 1999 ANCHORAGE, AK (ANC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.86	0.57	0.29	0.27	0.43	0.85	2.03	2.23	1.11	1.62	1.21	1.62	13.09
1971	0.24	1.49	0.70	0.63	0.52	0.37	2.86	2.58	1.79	2.16	0.67	0.87	14.88
1972	0.56	0.63	0.68	0.73	0.81	0.61	0.42	1.40	4.42	2.89	0.76	0.72	14.63
1973	0.72	0.11	0.65	0.33	0.14	1.07	0.60	3.40	0.76	1.74	0.78	0.38	10.68
1974	0.02	1.15	0.60	0.61	0.34	0.69	1.22	1.62	1.53	2.63	1.01	2.00	13.42
1975	0.43	0.77	0.54	1.71	0.40	0.47	1.33	1.19	4.52	0.69	0.10	0.89	13.04
1976	0.98	0.33	1.77	0.74	0.16	0.33	0.60	0.97	3.50	1.29	2.84	1.03	14.54
1977	1.35	0.52	0.84	1.91	0.46	0.49	1.37	1.35	4.08	1.92	0.53	0.69	15.51
1978	0.39	1.19	0.45	0.02	0.03	3.09	1.78	0.54	2.16	1.65	0.85	2.60	14.75
1979	0.23	0.69	2.76	0.94	0.15	1.79	3.84	1.56	2.73	2.54	2.77	1.15	21.15
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
POR= 56 YRS	0.77	0.78	0.61	0.51	0.65	1.09	1.79	2.66	2.57	1.72	0.98	1.02	15.15

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AVERAGE TEMPERATURE (°F) 1999 ANCHORAGE, AK (ANC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	9.2	29.6	35.4	36.4	48.1	54.8	57.1	54.6	46.4	32.5	24.9	14.9	37.0
1971	2.7	20.6	14.2	33.4	41.6	51.2	55.4	55.0	46.1	32.3	18.3	16.2	32.3
1972	6.4	13.5	15.7	26.8	43.3	51.9	59.0	56.6	44.5	31.7	21.3	12.4	31.9
1973	2.9	13.1	24.2	35.8	43.6	51.4	57.8	53.8	45.7	32.2	13.6	18.3	32.7
1974	6.8	14.1	23.3	37.9	47.9	55.5	57.3	56.3	49.8	34.5	22.6	18.8	35.4
1975	11.9	12.9	22.5	32.9	46.3	53.0	58.6	56.6	49.3	34.6	14.2	11.6	33.7
1976	17.1	12.8	24.1	34.8	44.9	53.7	58.9	56.3	47.4	33.4	30.6	23.1	36.4
1977	32.0	32.7	24.7	35.7	46.9	57.8	62.6	60.3	50.7	38.3	15.3	11.3	39.0
1978	21.2	26.3	29.3	39.1	49.0	54.5	58.8	59.8	51.5	39.3	26.3	21.4	39.7
1979	22.3	10.6	31.6	38.8	50.2	55.9	60.4	58.8	52.0	41.1	33.5	10.0	38.8
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
POR= 56 YRS	14.0	17.9	24.6	35.6	46.5	54.4	58.2	56.0	48.0	34.4	21.6	15.4	35.5

HEATING DEGREE DAYS (base 65°F) 1999 ANCHORAGE, AK (ANC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	239	312	552	1003	1201	1550	1934	1238	1574	940	717	410	11670
1971-72	291	302	561	1008	1396	1508	1814	1488	1521	1138	666	384	12077
1972-73	185	252	608	1025	1308	1627	1925	1448	1258	866	654	399	11555
1973-74	216	342	573	1012	1532	1440	1797	1416	1285	805	526	279	11223
1974-75	235	263	452	937	1263	1425	1643	1454	1313	954	575	354	10868
1975-76	192	252	463	937	1517	1654	1485	1511	1260	897	615	332	11115
1976-77	184	262	521	972	1028	1294	1017	897	1241	872	554	208	9050
1977-78	75	144	421	820	1486	1659	1349	1077	1100	771	491	308	9701
1978-79	186	160	400	792	1153	1344	1321	1515	1029	781	454	268	9403
1979-80	138	184	384	735	937	1704	1568	1083	1164	764	592	347	9600
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-	204	248	478	953	1352	1544							

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COOLING DEGREE DAYS (base 65°F) 1999 ANCHORAGE, AK (ANC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	1	0	0	0	0	0	1
1972	0	0	0	0	0	0	5	0	0	0	0	0	5
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	1	0	0	0	0	0	1
1975	0	0	0	0	0	0	2	0	0	0	0	0	2
1976	0	0	0	0	0	0	3	0	0	0	0	0	3
1977	0	0	0	0	0	0	8	3	0	0	0	0	11
1978	0	0	0	0	0	0	1	7	0	0	0	0	8
1979	0	0	0	0	0	0	4	0	0	0	0	0	4
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

SNOWFALL (inches) 1999 ANCHORAGE, AK (ANC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	T	4.2	4.2	11.2	1.2	18.5	11.1	8.3	T	0.0	58.7
1971-72	0.0	0.0	0.0	11.9	8.2	11.4	9.6	8.9	12.0	12.6	T	0.0	74.6
1972-73	0.0	0.0	1.5	3.3	10.7	6.5	8.1	1.0	16.1	1.3	0.0	0.0	48.5
1973-74	0.0	0.0	0.0	6.6	10.6	6.7	0.5	23.3	8.2	1.9	0.0	0.0	57.8
1974-75	0.0	0.0	0.0	4.4	8.4	29.2	5.7	15.4	8.3	16.1	0.4	0.0	87.9
1975-76	0.0	0.0	0.0	T	2.0	11.5	9.7	1.8	30.7	5.6	T	0.0	61.3
1976-77	0.0	0.0	0.0	11.4	11.1	13.8	6.1	2.1	9.5	14.0	0.0	0.0	68.0
1977-78	0.0	0.0	1.0	13.2	12.6	10.6	7.3	20.8	9.5	T	0.0	0.0	75.0
1978-79	0.0	0.0	0.0	3.9	8.5	35.2	3.6	6.2	31.0	2.8	0.0	0.0	91.2
1979-80	0.0	0.0	0.0	4.3	13.7	16.0	12.0	18.7	3.4	0.8	0.0	0.0	68.9
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	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-	0.0	0.0	0.0	5.7	8.5	18.6							
POR= 56 YRS	0.0	0.0	0.3	7.2	10.9	15.6	10.1	11.5	9.1	5.0	0.9	0.0	70.6

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REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999 ANCHORAGE, ALASKA (ANC)

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.

STATION LOCATION

ANCHORAGE, ALASKA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUTOMATED	* Type	REMARKS
						SEA LEVEL	GROUND												
							WIND	EMERGENCY	RESEARCH	STATION	TEMPERATURE	RELATIVE	WIND	RELATIVE	8	H			
CITY - - NOTE: For period September 3, 1914 through October 21, 1940, refer to previous editions.																			
Roof of Federal Bldg. 4th Avenue & F St.	10/21/40	2/3/43	300 ft. NW	61°13'	149°52'	118	47	36										34	Climatological record continued with Airport data Feb. 1943-June 1964 using instrument shelter temperatures. Park Strip data beginning 7/1/64.
<u>CLIMATOLOGICAL STATION</u> Park Strip 0.6 mi. SSE of Anchorage P.O.	11/5/63	Present	NA	61°13'	149°52'	85		6										3	d - Installed 7/1/64 adjacent to thermometer shelter and commissioned 1/1/65. e - Effective 6/24/74. Data summarized and published through 1966.
<u>AIRPORT STATION</u> Merrill Field, CCA Administration Bldg.	2/3/43	11/1/53	1.75 mi. E	61°13'	149°50'	134	44	6					5					5	f - Removed 5/1/52.
Anchorage International Airport (International Express Air Terminal)	10/30/53	3/27/64	6 mi. SW	61°10'	149°59'	92 1114	41 j22	k6	6	18			k4				3	g6	g - Telepsychrometer (6') 10/30/53-6/1/60. Hygro. commissioned 6/1/60, relocated 2500' SW 10/6/61, moved 1500' NE 2/1/64. h - Removed 12/31/53. i - Approximate value for hygrothermometer field sites. j - Effective 3/2/61. k - Maintained to 7/7/64, data source through 6/30/64.
Point Campbell Observation Site Anchorage International Airport	4/2/64	06/01/98	(A)	61°10'	150°01'	114	m22 s22	NA r6	NA r6	18 p30			NA n3 x5	NA u21 w2			m6 s6 v6	NA	(A) - Office reestablished 1.1 mile west of previous location following earthquake of 3/27/64. m - Same site as prior to earthquake. n - Installed 7/7/64. p - Effective 4/15/65. q - Minor move 10/12/70. r - Installed 3/24/71. s - Moved 1000' W 7/27/72. t - New type installed 6/12/78, commissioned 2/22/80. u - Installed 12/7/78. Station type changed from WSMO to WSCMO 10/1/80. v - Type change 11/6/84. w - Moved to field 2/28/86. x - Minor move 10/25/89.
International Airport	06/01/98	Present	NA	61°11'	150°00'	144												S	ASOS Commissioned 06/01/98.

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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