

2002

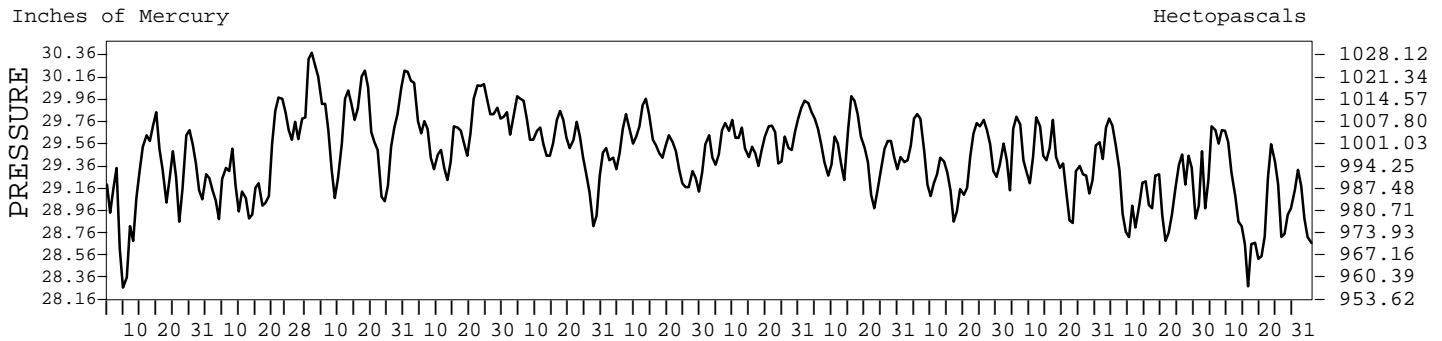
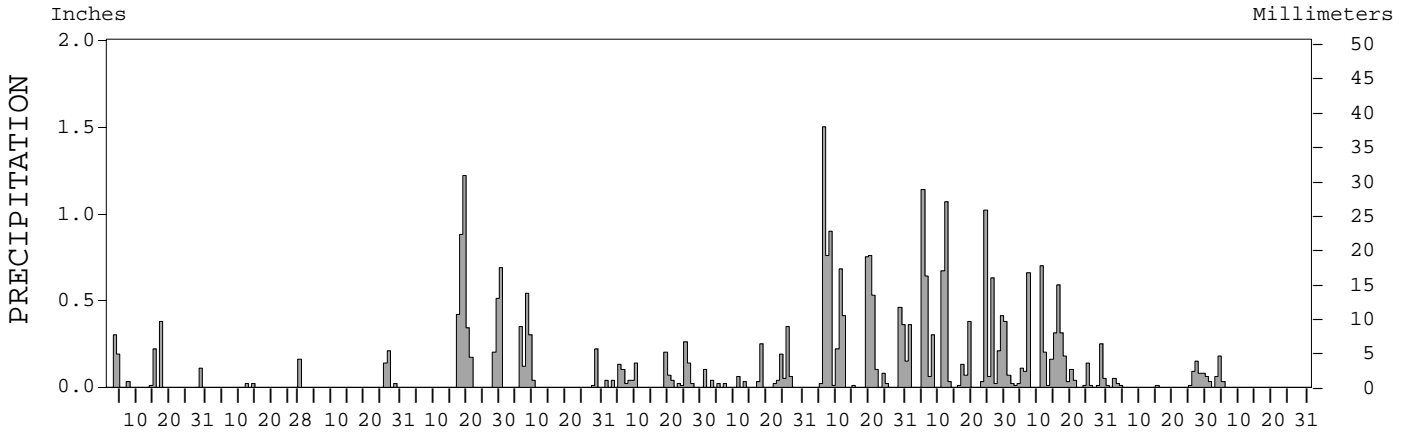
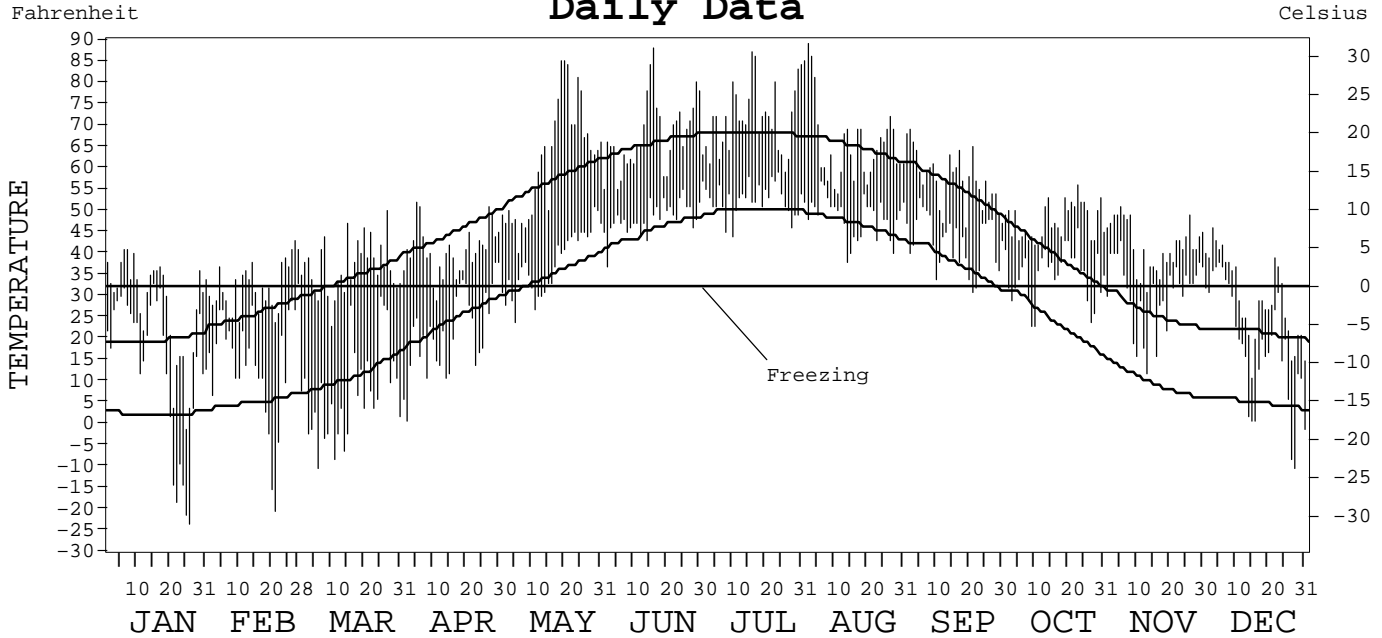
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0521

TALKEETNA,
ALASKA (TKA)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2002

TALKEETNA, AK (TKA)

LATITUDE: 62° 19' 18" N LONGITUDE: 150° 05' 30" W ELEVATION (FT): GRND: 351 BARO: 354 TIME ZONE: ALASKA (UTC + 9) WBAN: 26528

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	28.0	32.2	36.8	40.8	61.9	67.9	71.5	65.8	57.3	47.6	42.0	29.5	48.4	
	HIGHEST DAILY MAXIMUM	41	43	50	52	85	88	87	89	69	56	51	46	89	
	DATE OF OCCURRENCE	07+	27	27	05	20+	16	16	02	02	23	05	03	AUG 02	
	MEAN DAILY MINIMUM	14.1	14.5	7.4	21.7	37.7	48.2	52.6	48.6	42.5	35.0	30.5	18.7	31.0	
	LOWEST DAILY MINIMUM	-23	-20	-10	1	24	37	44	38	31	23	12	-10	-23	
	DATE OF OCCURRENCE	26	21	06	02	05	02	10	14	21	10+	13	28	JAN 26	
	AVERAGE DRY BULB	21.1	23.4	22.1	31.3	49.8	58.1	62.1	57.2	49.9	41.3	36.3	24.1	39.7	
	MEAN WET BULB	19.7	19.8	18.4	27.3	43.2	51.2	55.3	52.7	46.3	38.7	33.0	21.8	35.6	
	MEAN DEW POINT	14.1	9.5	4.8	16.1	32.7	44.2	49.5	48.7	42.6	34.5	27.5	15.3	28.3	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	9	13	19	6	0	0	0	0	47	
	MAXIMUM ≤ 32°	16	16	7	2	0	0	0	0	0	0	1	18	60	
	MINIMUM ≤ 32°	30	27	31	24	9	0	0	0	2	10	15	25	173	
MINIMUM ≤ 0°	6	4	9	0	0	0	0	0	0	0	0	3	22		
H/C	HEATING DEGREE DAYS	1354	1159	1319	1006	465	210	104	245	445	728	858	1261	9154	
	COOLING DEGREE DAYS	0	0	0	0	0	8	20	13	0	0	0	0	41	
RH	MEAN (PERCENT)	73	57	50	57	54	63	66	76	78	77	71	68	66	
	HOUR 03 LST	68	58	63	66	75	78	79	87	86	80	71	68	73	
	HOUR 09 LST	74	58	55	56	54	65	70	80	81	79	72	69	68	
	HOUR 15 LST	71	50	35	46	40	47	51	61	65	68	69	67	56	
	HOUR 21 LST	74	58	49	58	47	58	62	76	83	80	72	67	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	0	0	1	0	0	0	3	0	2	0	1	10	
	THUNDERSTORMS	0	0	0	0	0	1	0	0	1	0	0	0	2	
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.)	29.20	29.32	29.75	29.74	29.57	29.49	29.58	29.50	29.39	29.41	29.11	29.05	29.43	
	MEAN SEA-LEVEL PRESS. (IN.)	29.64	29.72	30.15	30.14	29.96	29.88	29.97	29.89	29.78	29.80	29.50	29.44	29.82	
WINDS	RESULTANT SPEED (MPH)	2.4	4.7	3.3	1.6	0.4	2.2	2.0		0.8	1.3	3.1	3.3		
	RES. DIR. (TENS OF DEGS.)	02	02	02	01	24	19	17		09	02	01	02		
	MEAN SPEED (MPH)	3.0	6.3	4.8	4.3	4.7	4.5	4.5	3.2	2.9	3.3	4.1	4.0	4.1	
	PREVAIL. DIR. (TENS OF DEGS.)	02	02	02	02	20	19	20	19	02	01	01	01	02	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)		23	30	24	24	18	20	16	22	16	17	18		
	DIR. (TENS OF DEGS.)		19	04	03	16	19	11	19	04	03	02	03		
	DATE OF OCCURRENCE		28+	09	03	01	19	16	18	01	22	25+	23		
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)		36	39	30	30	23	26	25	28	24	23	24		
	DIR. (TENS OF DEGS.)		19	02	03	14	20	10	20	16	03	01	03		
DATE OF OCCURRENCE		12	09	03	01	25+	16+	18	27+	22	25+	21			
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.24	0.20	0.37	4.43	1.58	1.31	1.26	7.72	7.62	4.09	0.56	0.30	30.68	
	GREATEST 24-HOUR (IN.)	0.38	0.16	0.30	1.24	0.79	0.26	0.35	1.52	1.72	0.90	0.23	0.21	1.72	
	DATE OF OCCURRENCE	17	28	26-27	19-20	08-09	25	26	06-07	05-06	15-16	27-28	04-05	SEP 05-06	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	7	3	3	8	7	16	14	18	20	25	10	4	135	
PRECIPITATION ≥ 0.10	5	1	2	8	5	6	4	13	13	12	1	1	71		
PRECIPITATION ≥ 1.00	0	0	0	1	0	0	0	1	3	0	0	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

TALKEETNA, AK (TKA)

LATITUDE: 62° 19' 18" N LONGITUDE: 150° 05' 30" W ELEVATION (FT): GRND: 351 BARO: 354 TIME ZONE: ALASKA (UTC + 9) WBAN: 26528

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	19.6	25.7	34.0	44.6	56.7	65.4	67.9	64.6	55.1	39.1	25.6	21.2	43.3
	MEAN DAILY MAXIMUM	52	19.7	25.5	33.6	44.2	56.5	65.4	67.7	64.5	55.3	39.6	26.0	19.8	43.1
	HIGHEST DAILY MAXIMUM	63	45	51	54	69	85	91	90	89	78	68	51	54	91
	YEAR OF OCCURRENCE		2001	1991	1997	1958	2002	1969	1956	2002	1957	1954	2002	1996	JUN 1969
	MEAN OF EXTREME MAXS.	52	36.1	39.7	46.8	56.0	71.4	79.8	81.5	76.8	66.6	53.2	40.1	37.0	57.1
	NORMAL DAILY MINIMUM	30	2.3	5.0	11.1	23.9	34.9	45.1	49.9	46.5	37.3	23.6	9.4	4.8	24.5
	MEAN DAILY MINIMUM	52	1.8	4.5	9.6	23.1	34.5	44.9	49.4	46.0	36.9	23.7	9.8	2.6	23.9
	LOWEST DAILY MINIMUM	63	-48	-46	-43	-37	-5	28	33	25	11	-21	-41	-45	-48
	YEAR OF OCCURRENCE		1972	1947	1956	1944	1945	1940	1941	1974	1992	1956	1956	1970	JAN 1972
	MEAN OF EXTREME MINS.	52	-26.8	-23.6	-16.2	4.9	24.3	35.1	41.1	34.6	24.2	2.6	-15.0	-26.1	4.9
	NORMAL DRY BULB	30	9.9	14.7	21.6	32.9	45.0	54.5	58.4	55.1	46.1	31.2	16.5	11.3	33.1
	MEAN DRY BULB	52	10.6	15.0	21.5	33.7	45.5	55.2	58.5	55.2	46.2	31.7	18.1	11.2	33.5
	MEAN WET BULB	16	13.6	14.7	20.7	29.6	39.2	47.4	54.5	49.2	41.1	28.6	16.4	14.6	30.8
	MEAN DEW POINT	16	8.6	8.0	13.0	21.7	32.0	41.8	50.3	46.1	37.5	24.3	11.3	9.9	25.4
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 70°	30	0.0	0.0	0.0	0.0	1.9	9.2	12.6	7.7	0.4	0.0	0.0	0.0	31.8	
MAXIMUM ≤ 32°	30	25.2	19.5	12.8	2.0	*	0.0	0.0	0.0	0.0	5.7	22.0	25.6	112.8	
MINIMUM ≤ 32°	30	30.7	27.8	30.6	28.3	13.2	0.2	0.0	0.7	8.6	25.0	29.4	30.6	225.1	
MINIMUM ≤ 0°	30	14.9	11.3	8.9	1.3	0.0	0.0	0.0	0.0	0.0	1.5	9.8	13.4	61.1	
H/C	NORMAL HEATING DEG. DAYS	30	1676	1391	1317	923	596	293	193	294	563	1043	1425	1613	11327
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	1	4	0	0	0	0	0	5
RH	NORMAL (PERCENT)	30	72	72	70	70	67	71	76	80	81	81	76	73	74
	HOUR 03 LST	30	74	75	76	82	86	88	90	94	94	87	78	75	83
	HOUR 09 LST	30	73	74	72	68	66	72	79	85	86	84	77	75	76
	HOUR 15 LST	30	68	64	59	53	50	55	61	64	64	69	71	73	63
	HOUR 21 LST	30	73	74	72	68	61	64	70	82	87	84	77	75	74
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	35	0.8	0.4	0.4	0.3	0.2	0.3	0.1	0.5	0.7	1.3	0.6	0.5	6.1
	THUNDERSTORMS	35	0.0	0.0	0.0	0.0	0.5	1.3	1.4	0.8	0.2	0.0	0.0	4.2	
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	10	6.0	5.2	5.2	5.8	5.8	5.9	5.3	5.1	5.3	5.2	5.0	5.7	5.5
	MIDNIGHT-MIDNIGHT (OKTAS)	5	3.1	4.6	4.0	4.7	3.7	5.3	4.3	4.5	4.3	5.1	4.0	2.9	4.2
	MEAN NO. DAYS WITH:														
CLEAR	10	5.8	8.2	9.4	5.0	6.0	1.0	5.0	3.0	5.1	5.9	7.5	5.4	67.3	
PARTLY CLOUDY	10	4.0	3.7	4.0	5.0	6.0	12.0	7.0	11.0	4.3	4.9	3.4	2.3	67.6	
CLOUDY	10	21.0	15.9	17.6	18.3	19.0	17.0	19.0	17.0	18.8	19.7	19.0	22.5	224.8	
PR	MEAN STATION PRESSURE(IN)	10	29.21	29.28	29.36	29.43	29.49	29.54	29.60	29.53	29.41	29.32	29.26	29.25	29.39
	MEAN SEA-LEVEL PRES. (IN)	16	29.66	29.78	29.77	29.83	29.87	29.92	29.99	29.92	29.82	29.70	29.66	29.65	29.80
WINDS	MEAN SPEED (MPH)	28	6.1	5.7	5.7	4.9	4.9	5.2	4.4	3.8	3.5	4.2	5.1	5.4	4.9
	PREVAIL.DIR(TENS OF DEGS)	11	02	02	02	01	02	18	18	18	02	36	01	02	02
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	28	28	30	24	25	29	21	28	35	32	24	26	35
	DIR. (TENS OF DEGS)		04	17	04	03	19	19	19	04	03	02	03	04	03
	YEAR OF OCCURRENCE		1999	2000	2002	2002	2001	1999	1999	2000	2000	2000	1998	1998	SEP 2000
MAXIMUM 5-SECOND:															
SPEED (MPH)	4	37	48	39	34	33	37	26	36	40	45	29	33	48	
DIR. (TENS OF DEGS)		05	16	02	05	01	19	10	17	03	02	02	02	16	
YEAR OF OCCURRENCE		1999	2000	2002	2000	2001	1999	2002	1998	2000	2000	2000	2000	FEB 2000	
PRECIPITATION	NORMAL (IN)	30	1.45	1.28	1.26	1.22	1.64	2.41	3.24	4.53	4.35	3.06	1.78	1.96	28.18
	MAXIMUM MONTHLY (IN)	63	5.56	5.57	4.03	4.51	3.86	6.44	8.74	11.92	10.22	9.98	7.04	6.16	11.92
	YEAR OF OCCURRENCE		1948	1951	1946	1977	1998	1970	1981	1945	1990	1986	1979	1990	AUG 1945
	MINIMUM MONTHLY (IN)	63	T	T	0.06	0.04	0.27	0.21	1.08	0.96	0.91	0.81	0.01	0.02	T
	YEAR OF OCCURRENCE		1974	1979	1987	1958	1949	1952	1977	1941	1969	1953	2001	2001	FEB 1979
	MAXIMUM IN 24 HOURS (IN)	62	1.95	1.80	1.52	1.38	1.39	1.58	2.93	2.54	3.12	5.14	1.59	1.89	5.14
	YEAR OF OCCURRENCE		1948	1990	1990	1994	1941	1955	1981	1945	1942	1986	1979	1986	OCT 1986
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	8.9	8.6	8.7	8.4	11.8	13.6	14.7	16.1	15.2	13.5	10.0	11.3	140.8	
PRECIPITATION ≥ 1.00	30	*	0.1	0.2	0.1	0.0	0.2	0.4	0.8	0.8	0.3	0.2	0.3	3.4	
SNOWFALL	NORMAL (IN)	30	22.1	19.8	19.7	9.5	0.8	0.0	0.0	0.0	0.5	15.5	23.6	27.9	139.4
	MAXIMUM MONTHLY (IN)	77	60.3	71.2	56.3	40.1	11.0	T	0.0	T	18.0	32.9	62.7	79.0	79.0
	YEAR OF OCCURRENCE		1990	1951	1946	1964	1952	1952		1952	1923	1976	1967	1990	DEC 1990
	MAXIMUM IN 24 HOURS (IN)	76	24.1	36.0	20.7	18.0	10.0	T	0.0	T	18.0	15.0	19.5	21.9	36.0
	YEAR OF OCCURRENCE		1990	1928	1946	1924	1952	1952		1952	1923	1927	1967	1984	FEB 1928
	MAXIMUM SNOW DEPTH (IN)	46	97	98	91	74	39	0	0	0	3	118	35	59	118
YEAR OF OCCURRENCE		1949	1951	1951	1949	1949				1956	1948	1974	1948	OCT 1948	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	5.7	4.7	5.1	2.9	0.2	0.0	0.0	0.0	0.2	4.1	5.7	6.6	35.2	

PRECIPITATION (inches) 2002 TALKEETNA, AK (TKA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.74	0.40	1.85	0.38	1.04	2.25	1.57	7.14	1.51	2.59	0.61	0.74	21.82
1974	T	0.85	0.88	1.63	0.38	1.31	2.11	2.36	2.69	3.28	2.99	1.14	19.62
1975	1.95	0.54	1.18	2.18	1.07	2.92	3.97	2.40	6.44	2.45	0.07	1.23	26.40
1976	0.88	1.09	2.71	0.37	0.99	1.38	2.07	2.16	2.85	3.68	4.82	1.31	24.31
1977	2.65	0.86	1.45	4.51	2.52	2.32	1.08	1.34	8.16	1.54	0.24	1.56	28.23
1978	0.29	0.86	0.61	0.33	1.80	4.73	3.18	1.02	2.09	2.98	2.26	3.00	23.15
1979	0.86	T	3.82	2.96	0.77	3.31	4.65	1.77	3.00	5.07	7.04	1.32	34.57
1980	2.78	1.14	0.89	0.52	3.23	5.73	4.68	3.43	2.33	2.14	1.08	0.56	28.51
1981	1.19	2.79	0.41	0.12	1.13	5.25	8.74	7.39	2.02	4.17	1.34	0.52	35.07
1982	0.03	0.79	1.70	0.39	1.31	4.20	5.74	4.55	7.54	2.07	1.70	1.80	31.82
1983	0.46	0.46	0.09	2.58	1.27	1.77	1.75	5.69	3.29	4.63	0.25	0.57	22.81
1984	1.90	0.89	0.21	0.94	1.40	1.40	3.06	6.63	1.73	1.79	0.44	2.69	23.08
1985	2.54	2.63	2.27	0.90	2.89	1.99	2.68	4.92	7.78	1.91	0.86	2.85	34.22
1986	0.71	0.96	0.52	0.59	1.64	0.56	5.67	5.91	4.77	9.98	2.73	3.05	37.09
1987	1.98	1.01	0.06	0.63	1.23	1.86	4.26	3.37	4.32	2.82	1.75	2.38	25.67
1988	0.49	2.00	0.96	0.90	1.75	2.37	2.28	4.98	3.77	3.53	0.86	2.34	26.23
1989	0.87	1.99	0.94	2.25	3.03	2.12	4.53	8.53	5.78	4.41	2.02	3.73	40.20
1990	3.63	4.31	3.94	0.93	1.60	1.37	1.37	4.31	10.22	1.26	0.89	6.16	39.99
1991	2.34	0.62	3.29	1.02	1.05	0.49	3.89	3.19	3.47	2.60	0.86	3.03	25.85
1992	1.67	1.77	0.63	0.38	1.38	0.74	2.37	3.99	2.35	3.41	4.09	3.28	26.06
1993	4.20	1.23	0.43	0.19	1.68	2.53	1.35	7.51	9.57	4.06	4.04	1.03	37.82
1994	0.67	0.58	2.44	2.93	1.09	2.73	1.33	3.78	2.12	1.14	2.83	3.20	24.84
1995	1.05	0.74	0.47	2.18	2.79	2.77	1.54	3.39	4.10		1.03	0.18	
1996	0.84	3.33	0.72	0.42	0.64	1.67	3.74	5.42	2.91	2.46	1.42	0.20	23.77
1997	0.54	1.43	0.39	0.24	2.52	1.29	1.39	7.01	1.93	1.46	1.64	2.06	21.90
1998	0.32	0.26	0.59	2.27	3.86	3.32	2.98	5.24	4.82	1.03	0.11	0.82	25.62
1999	1.24	0.29	0.97	0.90	1.07	3.21	5.60	5.25	3.39	4.44	0.15	6.74	33.25
2000	2.78	0.94	1.05	0.65	0.99	1.91	3.57	2.34	2.93	1.90	3.39	0.79	23.24
2001	0.78	1.23	1.83	1.93	1.26	0.82	4.25	2.76	2.39	2.11	0.01	0.02	19.39
2002	1.24	0.20	0.37	4.43	1.58	1.31	1.26	7.72	7.62	4.09	0.56	0.30	30.68
POR= 71 YRS	1.55	1.52	1.41	1.21	1.53	2.19	3.23	4.86	4.35	2.86	1.66	1.71	28.08

WBAN : 26528

AVERAGE TEMPERATURE (°F) 2002 TALKEETNA, AK (TKA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	-2.9	10.0	21.0	34.3	43.7	53.3	57.5	52.1	44.2	26.8	7.6	14.3	30.2
1974	1.2	11.5	19.4	35.8	47.6	56.3	56.7	56.0	48.7	32.3	18.2	10.2	32.8
1975	4.1	8.6	16.8	30.9	44.1	52.5	57.9	55.2	47.0	31.1	8.7	4.9	30.2
1976	8.5	7.0	18.8	33.7	44.2	55.9	59.0	56.3	45.7	29.6	28.0	19.3	33.8
1977	27.4	27.8	16.1	30.8	43.2	56.2	60.3	59.2	46.5	33.9	7.7	6.0	34.6
1978	17.9	23.3	25.6	35.6	47.6	52.4	57.2	57.8	47.5	34.0	20.5	14.5	36.2
1979	15.2	5.9	27.8	34.9	47.0	54.0	59.9	57.9	49.2	37.4	27.1	2.1	34.9
1980	7.4	24.3	23.7	37.6	45.4	53.5	58.5	53.7	45.8	35.8	25.7	-4.2	33.9
1981	28.7	21.1	31.3	31.8	50.0	54.0	56.3	54.4	45.8	34.0	19.8	10.9	36.5
1982	1.2	14.0	23.1	32.0	43.5	53.0	56.6	55.7	46.1	23.0	16.7	19.1	32.0
1983	12.5	18.5	25.7	35.5	48.0	56.4	58.7	53.4	42.6	31.3	22.7	13.8	34.9
1984	11.1	14.8	33.0	35.0	45.5	55.7	57.9	54.5	48.5	33.5	17.1	14.2	35.1
1985	27.9	7.6	21.2	24.2	42.3	52.4	59.6	53.7	45.0	27.0	7.1	25.3	32.8
1986	21.6	19.2	21.5	28.8	46.0	55.8	58.1	52.2	46.8	36.9	20.7	24.1	36.0
1987	19.3	22.4	24.4	35.7	45.9	53.5	57.9	56.7	45.6	36.7	24.1	11.7	36.2
1988	13.3	20.5	28.4	36.1	48.5	56.1	60.9	56.2		31.5	16.1	18.2	
1989	-6.0	11.6	20.1	36.3	45.9	55.4	60.4	57.6	48.7	30.1	13.2	19.9	32.8
1990	8.6	-4.2	26.8	38.2	49.3	59.3	60.8	57.5	46.6	28.4	4.7	11.6	32.3
1991	11.6	17.1	19.2	36.4	45.5	58.0	57.9	54.9	48.8	29.8	21.8	15.9	34.7
1992	16.7	13.4	22.1	32.2	43.4	56.1	59.4	54.4	37.3	29.5	22.1	5.8	32.7
1993	8.2	20.7	25.3	38.5	49.7	57.3	61.7	56.4	44.8	36.0	18.8	21.5	36.6
1994	20.8	13.7	22.9	36.9	46.8	56.2	59.1	57.8	46.6	31.6	9.9	13.1	34.6
1995	10.4	16.9	14.7	38.9	48.5	55.8	59.6	56.3	52.5		18.8	15.7	
1996	4.2	11.2	26.6	36.7	49.3	56.1	59.4	54.6	44.3	23.5	14.8	12.7	32.8
1997	11.7	29.5	21.9	37.4	47.6	59.2	63.1	57.6	50.2	27.0	25.5	10.5	36.8
1998	15.3	24.6	27.4	38.2	44.7	55.1	58.2	52.4	47.3	34.9	20.7	10.7	35.8
1999	8.7	2.7	23.3	33.7	45.2	57.1	59.4	56.4	47.3	31.7	16.7	8.9	32.6
2000	11.6	25.0	28.5	36.6	43.9	57.3	57.6	53.6	45.4	32.8	26.0	22.3	36.7
2001	24.6	21.0	28.8	35.3	43.1	59.4	58.5	58.7	49.3	29.0	17.9	8.4	36.2
2002	21.1	23.4	22.1	31.3	49.8	58.1	62.1	57.2	49.9	41.3	36.3	24.1	39.7
POR= 71 YRS	10.2	15.6	21.2	33.7	45.1	55.1	58.4	55.1	46.3	32.0	18.3	11.1	33.5

HEATING DEGREE DAYS (base 65°F) 2002 TALKEETNA, AK (TKA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	229	394	617	1176	1720	1566	1978	1493	1407	869	530	256	12235
1974-75	249	273	481	1006	1399	1696	1888	1576	1487	1019	638	369	12081
1975-76	222	296	535	1044	1690	1862	1749	1679	1426	931	640	266	12340
1976-77	179	265	572	1091	1105	1409	1159	1034	1509	1020	669	256	10268
1977-78	145	178	551	958	1714	1830	1455	1159	1214	877	531	372	10984
1978-79	238	226	515	952	1328	1564	1536	1649	1148	894	553	319	10922
1979-80	152	216	470	852	1131	1949	1790	1177	1273	816	597	334	10757
1980-81	202	345	569	899	1172	2144	1116	1224	1038	993	454	326	10482
1981-82	263	320	567	956	1348	1674	1979	1428	1293	982	659	355	11824
1982-83	255	281	561	1296	1441	1419	1621	1300	1213	880	520	251	11038
1983-84	186	352	663	1038	1262	1584	1665	1449	981	892	598	270	10940
1984-85	213	324	491	970	1429	1571	1143	1609	1351	1217	695	374	11387
1985-86	162	345	592	1172	1735	1225	1338	1276	1341	1079	582	274	11121
1986-87	208	388	536	863	1320	1262	1410	1185	1251	873	583	341	10220
1987-88	221	249	578	871	1218	1647	1601	1283	1126	862	505	259	10420
1988-89	123	270		1031	1461	1449	2202	1492	1385	856	585	284	
1989-90	144	224	482	1075	1550	1395	1746	1940	1176	799	485	174	11190
1990-91	140	234	545	1129	1804	1655	1650	1338	1416	850	596	210	11567
1991-92	213	307	479	1087	1288	1518	1490	1488	1324	975	666	261	11096
1992-93	168	320	821	1094	1282	1833	1761	1238	1224	786	469	223	11219
1993-94	108	258	600	892	1380	1341	1366	1427	1301	838	558	258	10327
1994-95	177	216	547	1029	1646	1607	1690	1344	1556	776	504	270	11362
1995-96	164	263	368		1378	1525	1885	1556	1182	843	480	258	
1996-97	173	315	616	1278	1503	1616	1649	988	1329	823	530	191	11011
1997-98	78	226	439	1171	1177	1682	1533	1125	1161	797	624	292	10305
1998-99	201	381	527	926	1323	1675	1740	1738	1284	933	607	232	11567
1999-00	182	261	524	1026	1442	1733	1644	1156	1123	846	645	225	10807
2000-01	221	345	583	995	1164	1316	1245	1227	1115	885	675	170	9941
2001-02	196	189	467	1109	1406	1748	1354	1159	1319	1006	465	210	10628
2002-	104	245	445	728	858	1261							

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COOLING DEGREE DAYS (base 65°F) 2002 TALKEETNA, AK (TKA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	10	0	0	0	0	0	10
1976	0	0	0	0	0	1	0	4	0	0	0	0	5
1977	0	0	0	0	0	0	6	2	0	0	0	0	8
1978	0	0	0	0	0	0	2	6	0	0	0	0	8
1979	0	0	0	0	0	0	0	1	0	0	0	0	1
1980	0	0	0	0	0	0	5	0	0	0	0	0	5
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	1	0	0	0	0	0	1
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0	0	0	0	0	0	1	2	0	0	0	0	3
1985	0	0	0	0	0	3	0	0	0	0	0	0	3
1986	0	0	0	0	0	4	2	0	0	0	0	0	6
1987	0	0	0	0	0	0	8	0	0	0	0	0	8
1988	0	0	0	0	0	0	3	1		0	0	0	
1989	0	0	0	0	0	1	8	3	0	0	0	0	12
1990	0	0	0	0	0	10	16	10	0	0	0	0	36
1991	0	0	0	0	0	6	0	0	0	0	0	0	6
1992	0	0	0	0	0	0	1	0	0	0	0	0	1
1993	0	0	0	0	0	0	12	0	0	0	0	0	12
1994	0	0	0	0	0	2	0	2	0	0	0	0	4
1995	0	0	0	0	0	1	3	0	0	0	0	0	
1996	0	0	0	0	0	0	6	0	0	0	0	0	6
1997	0	0	0	0	0	23	23	3	0	0	0	0	49
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	1	19	1	0	0	0	0	21
2000	0	0	0	0	0	0	1	0	0	0	0	0	1
2001	0	0	0	0	0	9	0	0	0	0	0	0	9
2002	0	0	0	0	0	8	20	13	0	0	0	0	41

SNOWFALL (inches) 2002 TALKEETNA, AK (TKA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	23.3	13.7	16.2	T	19.9	21.1	10.0	0.0	0.0	104.2
1974-75	0.0	0.0	0.0	19.0	51.7	19.6	31.7	11.2	24.9	25.5	0.4	0.0	184.0
1975-76	0.0	0.0	0.0	15.5	2.3	24.7	14.0	19.1	49.7	5.1	0.0	0.0	130.4
1976-77	0.0	0.0	0.0	32.9	14.2	29.5	12.3	3.3	24.4	19.0	T	0.0	135.6
1977-78	0.0	0.0	T	12.9	4.8	28.3	5.0	17.1	17.1	4.3	0.0	0.0	89.5
1978-79	0.0	0.0	0.0	15.0	32.0	48.9	18.2	T	24.4	16.1	2.6	0.0	157.2
1979-80	0.0	0.0	0.0	5.9	25.2	23.3	23.2	15.9	10.5	2.9	0.0	0.0	106.9
1980-81	0.0	0.0	0.0	4.3	15.5	8.1	13.2	19.8	2.7	3.1	0.0	0.0	66.7
1981-82	0.0	0.0	0.0	5.1	23.2	8.9	0.4	1.8	24.7	7.6	T	0.0	71.7
1982-83	0.0	0.0	0.0	28.5	27.0	10.3	11.9	11.0	2.1	26.7	0.0	0.0	117.5
1983-84	0.0	0.0	2.2	27.0	3.9	7.6	31.6	19.4	1.1	12.3	0.0	0.0	105.1
1984-85	0.0	0.0	0.0	3.0	7.2	47.5	25.8	34.4	31.4	12.9	9.4	0.0	171.6
1985-86	0.0	0.0	T	6.6	11.8	5.6	16.2	6.7	10.1	12.1	6.5	0.0	75.6
1986-87	0.0	0.0	0.0	0.0	30.9	22.5	37.9	19.5	1.5	9.0	0.0	0.0	121.3
1987-88	0.0	0.0	0.0	T	37.4	45.3	7.5	29.2	18.9	5.0	0.0	0.0	143.3
1988-89	0.0	0.0	0.0	18.3	23.3	45.1	19.9	29.8	23.5	T	T	0.0	159.9
1989-90	0.0	0.0	0.0	20.8	29.7	40.5	60.3	60.3	43.6	2.1	0.0	0.0	257.3
1990-91	0.0	0.0	T	11.3	15.2	79.0	46.8	9.3	44.9	2.3	0.2	0.0	209.0
1991-92	0.0	0.0	0.0	15.6	15.5	55.1	39.4	31.6	7.9	2.3	0.7	0.0	168.1
1992-93	0.0	0.0	6.8	15.1	44.6	37.1	57.0	6.0	7.3	T	0.0	0.0	173.9
1993-94	0.0	0.0	T	10.7	45.3	17.6	14.4	5.6	34.4	30.6	T	0.0	158.6
1994-95	0.0	0.0	0.0	3.0	50.3	58.6	15.9	10.8	7.9	T	0.0	0.0	146.5
1995-96	0.0	0.0	0.0		9.4	2.6	8.7	61.9	12.9	4.1	0.0	0.0	
1996-97	0.0	0.0	2.3	29.1	24.6	5.1	7.4	18.2	9.7	T	0.0	0.0	96.4
1997-98	0.0	0.0	T	19.0	23.4	29.6							
1998-99													
1999-00													
2000-01													
2001-02													
2002-													
POR= 65 YRS	0.0	T	0.2	10.2	17.8	22.3	19.2	18.6	17.5	8.3	1.2	T	115.3

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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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002
TALKEETNA,
ALASKA (TKA)

Talkeetna is located 80 airline miles north of Anchorage, and can be reached by both road and air. It lies in the upper end of a broad valley, on the southeast shore of the junction point of the Talkeetna and Susitna Rivers. The junction point of the Chulitna and Susitna Rivers occurs about 3 miles to the northwest of the station. The valley at this point has a gradual slope from station elevation to the 1,000-foot level at a distance of 15 miles to the west-northwest, and 5 to 7 miles from the northeast through the southwest. Elevation changes in these directions are more rapid beyond this point reaching heights of 4,000 to 6,000 feet at a distance of 25 to 30 miles. Except for isolated peaks (none close) of 2,500 to 4,000 feet there are no significant changes in elevation in the remaining directions. The area immediately surrounding the station is a composite of swampland and slightly higher ground which supports growth of birch and spruce trees.

The climate of Talkeetna varies in character between continental and modified maritime. Because of topography the annual precipitation is about half that measured on the Gulf of Alaska coast, and over twice that of the continental regime found in the interior. Temperature is definitely continental in nature. Like most areas of Alaska, Talkeetna experiences a January thaw with several days of above freezing temperatures. Although ground conditions become icy, the thaw conditions lower the total snow depth enough to prevent the accumulation of excessive amounts during the winter snow season. The warmest period in summer is from June through mid-July, with cooler weather after mid-July because of the cloudiness and precipitation maximums from late July through September.

Surface winds predominate north or south, depending on the season, because of the orientation of the valley. Velocity averages are relatively light.

Talkeetna is not a part of the agricultural area of Alaska. Normal moisture distribution results in a maximum rainfall at a time that crops should be maturing, and the freeze-free period, which on the average is from mid-June to mid-August, results in too short a growing period.

STATION LOCATION

TALKEETNA, ALASKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT * REMARKS	
						SEA LEVEL GROUND TEMPERATURE	GROUND								8 INCH RAIN GAGE		HYGROMETER
							WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	WEIGHING RAIN GAGE	WIND INSTRUMENT	PSYCHROMETER			
*NOTE: <u>AIRPORT</u>																	
CAA Station Talkeetna Airport	6/01/40	10/10/44	1/2 mi. SSE	62°18'	150°06'	345	32	5	5					3			
CAA Station Talkeetna Airport	10/10/44	01/01/98	500' NW	62°18'	150°06'	345	34 c34	5 d5	5 d5					4 e4	f6	CAA became FAA in 1959. Station changed from FAA to WBAS/FAA on 10/01/67. c. Minor adjustment 6/19/50. d. Minor adjustment 9/25/62. e. Minor adjustment 10/1/62. f. Installed at temperature site 3/10/88.	
Talkeetna Airport	01/01/98	Present	NA	62°19'	150°06'	g351									S	ASOS Commissioned 01/01/98 g. Ground Elevation	

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* NOTES: For earlier station history see previous edition.