

1999

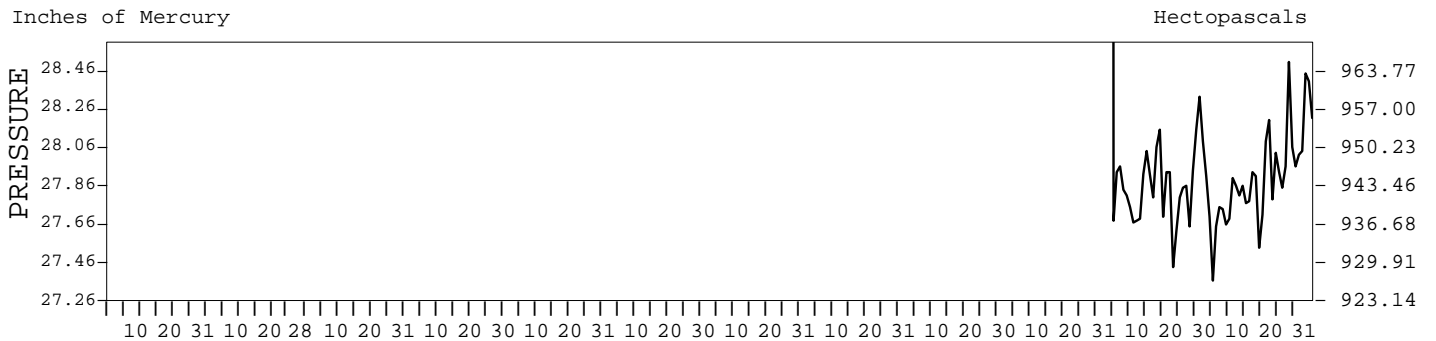
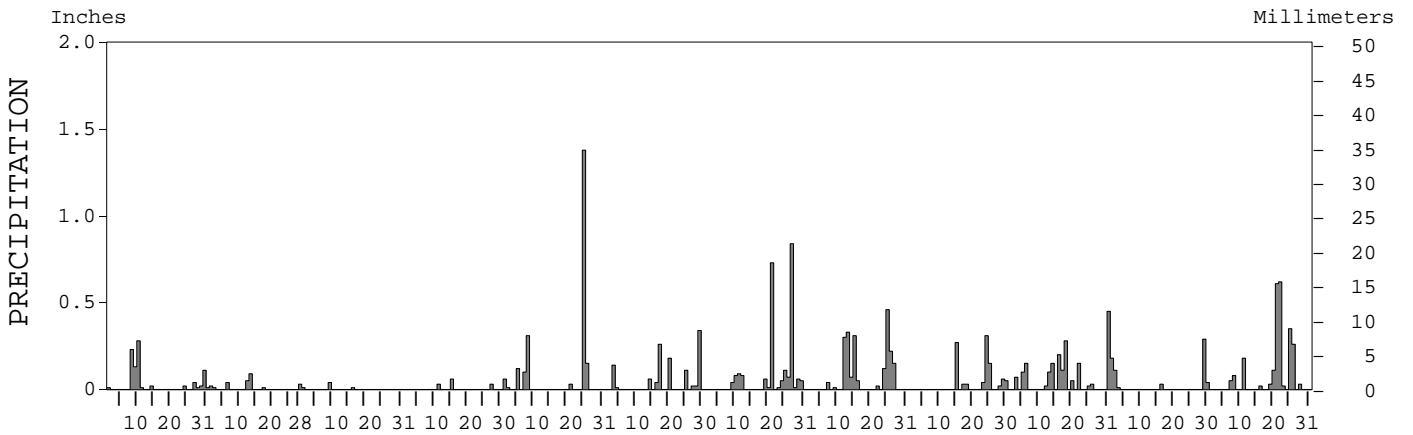
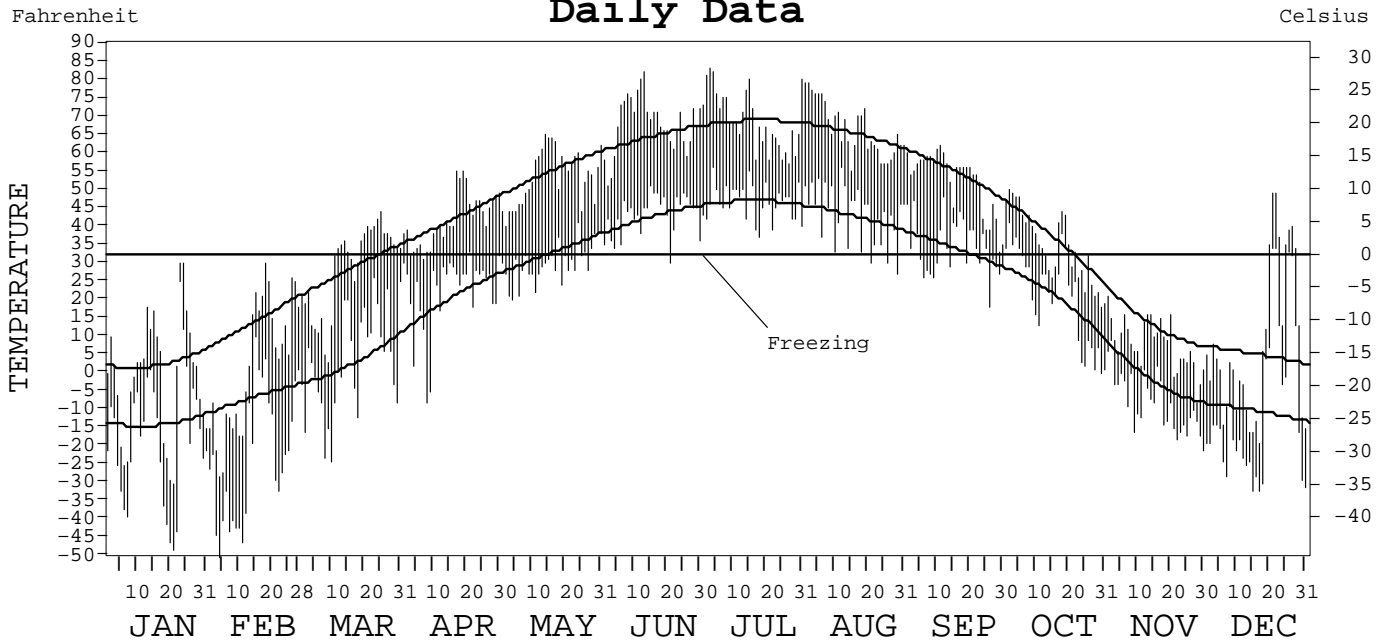
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9701

GULKANA, ALASKA (GKN)

Daily Data



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METEOROLOGICAL DATA FOR 1999

GULKANA, AK (GKN)

LATITUDE: 62° 09' 37" N LONGITUDE: 145° 27' 27" W ELEVATION (FT): GRND: 1578 BARO: 1578 TIME ZONE: ALASKA (UTC + 9) WBAN: 26425

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	-1.1	2.4	28.5	41.8	53.5	67.8	68.9	66.5	52.4	34.5	7.9	7.8	35.9	
	HIGHEST DAILY MAXIMUM	30	30	44	55	65	82	83	79	62	50	21	49	83	
	DATE OF OCCURRENCE	24+	18	25	19+	14	13	03	02+	11	02	01	22+	JUL 03	
	MEAN DAILY MINIMUM	-17.6	-22.9	3.1	22.2	29.8	43.0	46.5	43.0	34.3	20.8	-8.2	-9.8	15.4	
	LOWEST DAILY MINIMUM	-48	-50	-24	-8	20	30	37	27	18	0	-21	-32	-50	
	DATE OF OCCURRENCE	21	04	10	08	04	21	18	29	26	30	30	17+	FEB 04	
	AVERAGE DRY BULB	-9.3	-10.2	15.8	32.0	41.7	55.4	57.7	54.8	43.4	27.7	-1.1	-1.0	25.7	
	MEAN WET BULB												.3		
	MEAN DEW POINT												-3.0		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	14	13	12	0	0	0	0	0	39
	MAXIMUM ≤ 32°	31	28	14	2	0	0	0	0	0	14	30	23	142	
MINIMUM ≤ 32°	31	28	31	29	24	1	0	3	14	24	30	28	243		
MINIMUM ≤ 0°	27	24	14	2	0	0	0	0	0	1	26	23	117		
H/C	HEATING DEGREE DAYS	2298	2099	1518	983	714	280	226	309	644	1152	1949	2039	14211	
	COOLING DEGREE DAYS	0	0	0	0	0	0	7	0	0	0	0	0	7	
RH	MEAN (PERCENT)											83	78		
	HOUR 03 LST											82	77		
	HOUR 09 LST											82	78		
	HOUR 15 LST											84	78		
	HOUR 21 LST											76	79		
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	2	0	2	0	2	2	8	
	THUNDERSTORMS	0	0	0	0	0	3	0	0	0	0	0	0	3	
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET														
	MIDNIGHT - MIDNIGHT														
	NUMBER OF DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESS. (IN.)											27.85	27.91		
	MEAN SEA-LEVEL PRESS. (IN.)											29.67	29.74		
WINDS	RESULTANT SPEED (MPH)											0.4	2.8		
	RES. DIR. (TENS OF DEGS.)											34	18		
	MEAN SPEED (MPH)	2.6		7.4	8.4	8.5	7.9	6.9	7.7	7.1	5.2	.7	4.2		
	PREVAIL. DIR. (TENS OF DEGS.)	33	31	17	17	16	16	17	17	16	17	01	17	17	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)												14	49	
	DIR. (TENS OF DEGS.)												17	16	
	DATE OF OCCURRENCE												01	21	
MAXIMUM 5-SECOND WIND:															
SPEED (MPH)												15	64		
DIR. (TENS OF DEGS.)												17	16		
DATE OF OCCURRENCE												01	22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.89	0.25	0.06	0.12	2.16	1.18	2.29	2.08	0.96	1.88	0.66	2.36	14.89	
	GREATEST 24-HOUR (IN.)	0.28	0.09	0.04	0.06	1.38	0.34	0.84	0.46	0.31	0.45	0.29	0.67	1.38	
	DATE OF OCCURRENCE	10	13	09	15	25	29	27	25	24	31	29	20-21	MAY 25	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	12	7	3	3	8	10	15	12	9	14	6	12	111	
PRECIPITATION ≥ 0.10	4	0	0	0	5	5	3	7	3	9	3	6	45		
PRECIPITATION ≥ 1.00	0	0	0	0	1	0	0	0	0	0	0	0	1		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	12.6	4.2	1.6	1.3	6.7	0.0	0.0	0.0	T	18.9				
	GREATEST 24-HOUR (IN.)	3.3	1.7	1.0	0.5	5.0	0.0	0.0	0.0	T	6.0				
	DATE OF OCCURRENCE	09	13	09	11	25				30+	31				
	MAXIMUM SNOW DEPTH (IN.)	16	13	9	4	3	0	0	0	T	8				
	DATE OF OCCURRENCE	22+	18+	03+	07+	25				29	31				
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	4	1	1	0	2	0	0	0	0	7					

NORMALS, MEANS, AND EXTREMES

GULKANA, AK (GKN)

LATITUDE: 62° 09' 37" N LONGITUDE: 145° 27' 27" W ELEVATION (FT): GRND: 1578 BARO: 1578 TIME ZONE: ALASKA (UTC + 9) WBAN: 26425

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	2.5	13.6	28.1	41.5	54.8	64.2	68.3	64.7	54.1	35.3	12.7	4.6	37.0
	MEAN DAILY MAXIMUM	51	2.2	13.3	28.1	42.1	55.3	65.2	68.4	64.7	54.0	35.0	13.8	4.3	37.2
	HIGHEST DAILY MAXIMUM	52	46	46	50	67	85	90	91	86	74	65	48	49	91
	YEAR OF OCCURRENCE		1948	1943	1981	1958	1960	1969	1953	1994	1989	1969	1964	1999	JUL 1953
	MEAN OF EXTREME MAXS.	51	30.4	35.8	43.3	54.4	69.2	78.5	80.9	76.8	65.3	51.8	35.3	32.1	54.5
	NORMAL DAILY MINIMUM	30	-13.9	-7.0	2.6	19.9	32.6	42.2	46.4	42.2	33.4	19.5	-2.5	-10.9	17.0
	MEAN DAILY MINIMUM	51	-14.3	-7.8	1.6	19.8	32.7	42.2	46.1	42.3	33.4	18.2	-1.5	-11.6	16.8
	LOWEST DAILY MINIMUM	52	-60	-65	-48	-42	5	26	29	20	2	-23	-44	-58	-65
	YEAR OF OCCURRENCE		1947	1947	1972	1944	1964	1997	1970	1984	1992	1982	1989	1964	FEB 1947
	MEAN OF EXTREME MINS.	51	-40.3	-34.3	-24.6	-1.5	22.4	31.8	36.2	28.0	17.5	-5.6	-25.5	-37.0	-2.7
	NORMAL DRY BULB	30	-5.7	3.3	15.4	30.7	43.7	53.2	57.4	53.5	43.8	27.4	5.1	-3.2	27.0
	MEAN DRY BULB	51	-6.1	2.7	14.9	30.9	44.0	53.6	57.3	53.4	43.7	26.5	6.1	-3.5	27.0
	MEAN WET BULB	13	.5	3.6	15.7	28.6	39.7	47.1	47.4	44.5	36.2	22.4	3.5	2.8	24.3
	MEAN DEW POINT	13	-5.1	-3.5	6.1	16.8	25.9	34.5	40.2	38.1	29.9	17.9	-1.1	-1.9	16.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 70°	30	0.0	0.0	0.0	0.0	1.3	9.1	12.7	6.8	0.2	0.0	0.0	0.0	30.1	
MAXIMUM ≤ 32°	30	28.6	24.1	18.0	3.7	0.1	0.0	0.0	0.0	0.3	11.4	26.6	28.4	141.2	
MINIMUM ≤ 32°	30	30.9	28.0	30.5	28.6	14.2	0.9	0.1	3.1	13.2	27.2	29.7	30.8	237.2	
MINIMUM ≤ 0°	30	23.4	18.4	14.7	2.1	0.0	0.0	0.0	0.0	0.0	3.5	17.4	23.1	102.6	
H/C	NORMAL HEATING DEG. DAYS	30	2192	1728	1538	1029	660	354	236	357	636	1166	1797	2114	13807
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	74	76	69	65	58	61	66	69	73	79	80	77	71
	HOUR 03 LST	30	74	77	75	77	77	80	84	84	84	83	79	76	79
	HOUR 09 LST	30	73	72	71	65	58	61	69	73	77	81	77	74	71
	HOUR 15 LST	30	71	66	55	46	40	43	48	49	52	67	76	74	57
	HOUR 21 LST	30	72	72	67	62	54	54	61	68	72	79	78	74	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	10	0.2	0.9	1.1	0.3	0.2	0.1	0.6	1.3	2.0	2.2	2.2	1.5	12.6
	THUNDERSTORMS	10	0.0	0.0	0.0	0.0	0.4	1.7	2.2	0.4	0.1	0.0	0.0	0.0	4.8
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	5	3.8	5.6	4.8	5.4	5.8	5.9	4.6	4.7	4.4	5.0	4.8	4.3	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	7	3.2	4.2	4.0	4.6	4.9	5.1	4.9	5.1	4.5	4.9	4.7	4.2	4.5
	MEAN NO. DAYS WITH:														
CLEAR	6	14.8	6.2	9.4	5.0	3.0	2.0	3.7	2.2	4.7	2.5	3.8	5.7	63.0	
PARTLY CLOUDY	6	4.4	4.4	6.4	9.8	9.8	10.0	7.5	7.8	6.5	5.7	3.8	5.7	81.8	
CLOUDY	6	11.8	17.8	15.2	15.2	18.2	18.0	14.7	15.8	13.8	17.7	17.3	14.5	190.0	
PR	MEAN STATION PRESSURE (IN)														
	MEAN SEA-LEVEL PRES. (IN)	13	29.88	29.95	29.89	29.83	29.87	30.01	29.97	29.92	29.87	29.78	29.82	29.81	29.88
WINDS	MEAN SPEED (MPH)	9	4.8	5.1	6.5	8.9	9.1	8.6	7.9	8.0	7.5	6.2	4.3	3.7	6.7
	PREVAIL. DIR (TENS OF DEGS)														
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	5	52	35	35	46	29	38	40	30	31	46	33	49	52
	DIR. (TENS OF DEGS)		04	01	01	01	01	01	01	01	04	01	01	16	04
YEAR OF OCCURRENCE		1971	1970	1970	1970	1972	1971	1971	1970	1972	1970	1969	1999	JAN 1971	
PEAK GUST:															
SPEED (MPH)															
DIR. (TENS OF DEGS)															
YEAR OF OCCURRENCE															
PRECIPITATION	NORMAL (IN)	30	0.45	0.53	0.36	0.24	0.61	1.60	1.78	1.50	1.38	0.89	0.61	0.92	10.87
	MAXIMUM MONTHLY (IN)	56	1.56	1.98	1.32	0.83	2.16	4.07	3.41	4.19	4.34	2.42	4.11	3.07	4.34
	YEAR OF OCCURRENCE		1943	1996	1972	1992	1999	1962	1995	1947	1951	1965	1956	1955	SEP 1951
	MINIMUM MONTHLY (IN)	56	T	0.03	T	0.00	T	0.08	0.30	0.14	0.07	0.11	0.01	0.05	0.00
	YEAR OF OCCURRENCE		1974	1987	1987	1954	1950	1946	1994	1982	1969	1967	1975	1995	APR 1954
	MAXIMUM IN 24 HOURS (IN)	55	0.76	0.96	0.78	0.78	1.52	1.51	2.04	2.01	2.06	1.15	2.02	0.99	2.06
	YEAR OF OCCURRENCE		1958	1978	1972	1961	1994	1945	1972	1971	1951	1959	1976	1955	SEP 1951
NORMAL NO. DAYS WITH:															
PRECIPITATION ≥ 0.01	30	6.5	6.2	5.3	3.1	5.8	10.2	12.4	10.7	10.7	8.7	6.9	8.5	95.0	
PRECIPITATION ≥ 1.00	30	0.0	0.0	0.0	0.0	0.0	0.1	0.1	*	0.1	0.0	*	0.0	0.3	
SNOWFALL	NORMAL (IN)	30	6.3	7.5	5.2	3.0	0.5	0.*	0.0	T	0.7	6.9	7.4	10.5	48.0
	MAXIMUM MONTHLY (IN)	56	25.5	38.3	29.2	16.4	6.7	1.0	T	4.0	15.7	22.7	36.2	30.0	38.3
	YEAR OF OCCURRENCE		1989	1996	1996	1992	1999	1986	1993	1955	1992	1965	1956	1955	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	52	14.1	14.1	10.6	14.3	5.0	1.0	T	4.0	12.0	13.0	10.0	12.0	14.3
	YEAR OF OCCURRENCE		1989	1990	1972	1992	1999	1986	1993	1955	1992	1978	1997	1992	APR 1992
	MAXIMUM SNOW DEPTH (IN)	50	40	43	55	46	24	1	0	0	11	19	34	32	55
	YEAR OF OCCURRENCE		1972	1990	1972	1972	1972	1986			1992	1965	1956	1971	MAR 1972
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.3	2.3	2.0	1.2	0.3	0.*	0.0	0.0	0.3	2.5	2.8	3.3	17.0	

PRECIPITATION (inches) 1999 GULKANA, AK (GKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.22	0.21	0.13	0.26	1.05	1.91	1.34	1.17	1.73	1.39	0.31	0.50	10.22
1971	0.06	0.20	0.05	0.09	0.10	1.29	1.85	3.92	1.82	1.75	0.73	1.68	13.54
1972	0.80	0.11	1.32	0.27	0.57	1.57	3.05	0.74	0.81	1.18	0.41	0.07	10.90
1973	0.41	0.28	0.03	0.26	0.12	2.42	1.64					0.41	
1974	T	1.54	0.23	T	0.41	1.38	1.99	1.39	1.25	0.87	0.41	1.16	10.63
1975	0.22	0.26	0.05	0.37	0.41	2.56	3.32	1.84	1.28	0.23	0.01	0.30	10.85
1976	0.41	0.15	0.32	0.28	0.52	0.57	0.48	0.90	1.17	0.22	2.87	1.26	9.15
1977	0.42	0.41	0.45	0.45	1.43	2.10	1.22	0.55	1.30	0.48	0.48	0.23	9.52
1978	0.44	1.14	0.07	0.01	0.63	1.20	1.29	0.46	0.47	1.68	0.46	2.57	10.42
1979	0.10	0.37	1.15	0.21	0.37	0.91	1.51	1.61	0.32	0.95	0.61	1.11	9.22
1980	0.73	0.27	0.24	T	0.15	1.73	2.60	1.67	0.77	0.69	0.10	0.62	9.57
1981	0.43	0.14	0.35	T	0.14	2.22	2.17	1.79	0.92	0.57	0.98	1.15	10.86
1982	0.09	0.72	0.93	0.19	0.14	0.48	1.40	0.14	1.57	1.04	0.36	0.09	7.15
1983	0.38	0.26	T	0.67	0.06	0.69	3.02	2.22	2.34	0.25	0.17	0.35	10.41
1984	0.73	0.95	T	0.04	0.05	1.22	2.51	1.95	0.43	0.27	0.99	0.81	9.95
1985	0.20	0.44	0.12	0.77	0.08	3.09	1.99	2.64	2.34	0.33	0.32	1.44	13.76
1986	0.66	0.42	0.80	0.69	0.36	0.38	1.10	1.57	0.48	1.31	0.36	0.37	8.50
1987	0.34	0.03	T	0.09	0.48	2.35	2.19	1.73	1.57	2.29	0.75	1.25	13.07
1988	0.15	0.76	0.63	0.02	1.30	1.51	2.54	2.71	1.26	2.09	0.77	0.82	14.56
1989	1.41	0.15	0.16	0.37	1.68	2.22	0.84	0.69	3.15	0.66	1.06	2.01	14.40
1990	0.44	1.62	0.30	0.01	0.24	0.80	0.66	2.23	3.93	0.53	0.95	1.05	12.76
1991	0.54	0.50	0.29	0.31	0.29	1.86	3.20	1.89	0.89	1.19	1.05	0.66	12.67
1992	0.74	0.79	0.80	0.83	0.06	2.46	1.70	1.80	2.73	0.54	0.58	1.35	14.38
1993	0.61	0.46	0.08	0.03	0.54	1.68	1.07	2.08	1.49	1.40	1.55	0.75	11.74
1994	0.69	0.29	0.16	T	1.86	1.55	0.30	1.03	1.64	2.21	1.39	0.27	11.39
1995	0.19	0.83	0.99			1.38	3.41	2.54	2.22	0.45	0.22	0.05	
1996	0.21	1.98	0.98	0.10	0.31	0.48	0.89	1.38	0.31	1.31	0.37	0.87	9.19
1997	0.51	0.22	0.15	0.03	1.60	1.09	1.88	2.80	0.53	1.00	0.77	0.87	11.45
1998	0.25	0.40	0.07	T	0.51	1.75	1.42	2.57	1.27	0.83	0.24	0.31	9.62
1999	0.89	0.25	0.06	0.12	2.16	1.18	2.29	2.08	0.96	1.88	0.66	2.36	14.89
POR= 56 YRS	0.53	0.52	0.35	0.22	0.62	1.43	1.78	1.65	1.54	0.93	0.68	0.82	11.07

WBAN : 26425

AVERAGE TEMPERATURE (°F) 1999 GULKANA, AK (GKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	-13.2	18.6	25.0	31.7	44.8	51.0	53.9	51.6	39.5	21.1	8.3	-10.8	26.8
1971	-19.5	8.0	9.1	29.3	40.8	53.8	56.8	52.5	41.9	24.3	-8	-5.7	24.2
1972	-18.6	-6.7	4.4	18.4	42.1	51.1	59.3	55.3	40.4	26.9	4.7	-8.4	22.4
1973	-15.3	-4.1	18.4	34.7	43.4	52.2	57.0					-5.3	
1974	-16.8	-2.6	10.4	32.4			56.4	54.0	45.7	30.1	10.9	1.2	
1975	-8.3	-3.3	10.3	30.2	44.5	51.8	58.1	52.6	46.2	28.8	0.1	-7.0	25.3
1976	-1.9	-5.0	15.0	32.8	42.3	55.0	57.8	52.6	43.3	29.5	21.1	4.5	
1977	16.3	20.5	14.2	32.2	42.5	52.9	58.0	57.6	45.6	31.1	-5.0	-12.8	29.4
1978	-4.5	7.2	16.4	31.0	43.1	50.5			46.1	32.6	10.8	0.3	
1979	-4.1	-17.8	20.8			52.2	57.9	57.7	46.7	34.3	24.1	-9.3	
1980	-4.6	16.2	19.7	36.5	46.1	54.8	57.3	52.1	42.3	31.0	15.3	-24.9	28.5
1981	19.7	14.4	23.2	25.9	48.3	52.1	55.4	52.3	40.1	29.2	7.6	-5.2	30.3
1982	-27.0	1.5	17.0	27.9	42.5	54.6	57.6	53.3	45.5	21.2	3.9	1.5	25.0
1983	-7.7	3.4	12.9	34.7		55.6	57.6	52.5	40.0	28.9	8.6	-2.8	
1984	3.2	4.9	25.9	34.9	44.4	54.8	56.4	54.0	44.3	24.5	2.2	-3.2	28.9
1985	14.7	-5.9	16.5	23.4	42.6	49.1	57.7	51.3	44.2	22.6	-3.6	16.7	27.4
1986	5.7	10.6	11.2	21.3	42.4	52.1	56.6	50.4	43.6	29.1	7.4	15.0	28.8
1987	10.2	11.5	14.0	33.5	44.7	51.9	57.6	53.8	43.7	34.4	15.7	3.8	31.2
1988	-4.5	8.4	22.0	33.3	44.4	54.4	57.7	53.2	42.5	26.1	-7	6.2	28.6
1989	-12.7	-4.1	9.6	34.3	46.0	53.3	61.1	58.1	47.0	29.5	-6	13.0	27.9
1990	-1.3	-8.4	20.2	35.1	49.0	57.1	59.9	55.5	46.9	23.8	-6.6	-2.3	27.4
1991	-3.9	7.4	18.2	34.4	46.0	55.5	55.2	51.8	46.2	22.4	5.4	3.3	28.5
1992	6.6	1.0	17.7	26.9	41.3	54.9	57.7	52.6	33.0	23.2	14.7	-6.9	26.9
1993	-3.7	9.4	18.4	36.3	49.1	55.2	60.9	55.2	44.8	31.9	12.8	3.3	31.1
1994	0.6	-3.2	20.2	35.6	43.6	54.4	57.8		43.5	24.7	1.7	-9	
1995	-4.4	6.8				54.3	55.6	52.0	49.5	30.8	2.3	-4.7	
1996		8.5	14.8	30.6	44.8	53.8	57.4	52.0	41.7	14.1	0.6	-8.7	
1997	-10.9	17.2	8.0	31.7	45.4	54.9	59.7	55.1	45.0	18.9	10.6	3.9	28.3
1998	-10.3	3.9	17.4	35.8	45.0	54.6	55.5	50.7	43.1	24.1	5.2	-6.5	26.5
1999	-9.3	-10.2	15.8	32.0	41.7	55.4	57.7	54.8	43.4	27.7	-1	-1.0	25.7
POR= 56 YRS	-5.9	3.1	15.0	30.3	44.0	53.7	57.3	53.3	43.6	27.1	6.4	-3.2	27.1

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HEATING DEGREE DAYS (base 65°F) 1999 GULKANA, AK (GKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	340	410	758	1357	1699	2354	2624	1594	1730	1063	743	330	15002
1971-72	257	381	686	1254	1973	2195	2596	2082	1881	1391	704	410	15810
1972-73	172	295	729	1176	1808	2277	2490	1939	1437	902	664	377	14266
1973-74	240					2180	2543	1892	1692	973			
1974-75	261	331	573	1077	1620	1976	2271	1909	1693	1039	629	389	13768
1975-76	230	378	555	1117	1945	2233	2074	2034	1544	960	697	294	14061
1976-77	222		641	1093	1310	1874	1507	1242	1569	977	689	355	
1977-78	217	221	575	1046	2105	2415	2152	1620	1502	1013	671	429	13966
1978-79			559	995	1624	2009	2140	2324	1362			378	
1979-80	215	218	540	944	1220	2307	2164	1412	1397	849	577	302	12145
1980-81	231	393	675	1049	1483	2797	1398	1413	1289	1168	514	380	12790
1981-82	291	387	740	1100	1722	2177	2858	1782	1483	1107	688	309	14644
1982-83	222	354	577	1351	1833	1971	2253	1725	1609	904		273	
1983-84	224	380	743	1110	1688	2104	1919	1741	1206	894	630	299	12938
1984-85	263	339	615	1248	1883	2115	1552	1984	1497	1241	689	472	13898
1985-86	220	419	617	1309	2058	1495	1832	1519	1665	1307	692	378	13511
1986-87	255	449	636	1108	1726	1547	1696	1493	1578	938	625	386	12437
1987-88	220	339	633	942	1471	1897	2155	1639	1327	945	629	309	12506
1988-89	220	359	667	1199	1970	1819	2412	1936	1714	915	584	345	14140
1989-90	121	208	532	1092	1968	1604	2057	2055	1382	893	491	231	12634
1990-91	167	297	538	1272	2147	2089	2138	1611	1449	909	583	285	13485
1991-92	295	402	559	1316	1785	1911	1811	1858	1461	1135	725	299	13557
1992-93	221	376	954	1285	1503	2233	2130	1552	1439	852	488	289	13322
1993-94	137	296	601	1018	1562	1915	1997	1911	1384	878	656	309	12664
1994-95	214		641	1243	1898	2038	2154	1629				319	
1995-96	287	395	462	1054	1884	2162		1635	1548	1025	621	331	
1996-97	231	395	691	1571	1933	2276	2345	1334	1761	993	601	296	14427
1997-98	161	301	592	1425	1624	1887	2326	1705	1469	873	613	304	13280
1998-99	288	436	652	1264	1787	2212	2298	2099	1518	983	714	280	14531
1999-	226	309	644	1152	1949	2039							

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COOLING DEGREE DAYS (base 65°F) 1999 GULKANA, AK (GKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	0	0	2	0	0	0	0	0	2
1971	0	0	0	0	0	1	11	0	0	0	0	0	12
1972	0	0	0	0	0	0	5	0	0	0	0	0	5
1973	0	0	0	0	0	0	0						
1974	0	0	0	0	0		1	0	0	0	0	0	
1975	0	0	0	0	0	0	22	0	0	0	0	0	22
1976	0	0	0	0	0	0	8	0	0	0	0	0	
1977	0	0	0	0	0	0	4	1	0	0	0	0	5
1978	0	0	0	0	0	0	0	0	0	0	0	0	
1979	0	0	0	0	0	0	1	0	0	0	0	0	
1980	0	0	0	0	0	2	1	0	0	0	0	0	3
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	1	2	0	0	0	0	0	
1984	0	0	0	0	0	0	0	3	0	0	0	0	3
1985	0	0	0	0	0	2	2	0	0	0	0	0	4
1986	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	8	0	0	0	0	0	8
1990	0	0	0	0	0	1	15	7	0	0	0	0	23
1991	0	0	0	0	0	8	0	0	0	0	0	0	8
1992	0	0	0	0	0	2	5	0	0	0	0	0	7
1993	0	0	0	0	0	0	20	0	0	0	0	0	20
1994	0	0	0	0	0	0	0	0	0	0	0	0	
1995	0	0				4	0	0	0	0	0	0	
1996	0	0	0	0	0	0	0	0	0	0	0	0	
1997	0	0	0	0	0	0	4	1	0	0	0	0	5
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 GULKANA, AK (GKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	6.4	14.5	7.4	6.7	0.7	4.3	1.4	1.5	1.5	0.0	44.4
1971-72	0.0	0.0	T	19.3	12.5	21.3	10.9	1.8	18.6	4.0	0.4	0.0	88.8
1972-73	0.0	0.0	6.0	11.5	6.2	1.0	4.7	4.4	0.3	1.9	0.2	0.0	36.2
1973-74	0.0					4.8	T	19.2	4.1	T	T	0.0	
1974-75	0.0	T	0.0	3.8	7.9	17.7	3.2	4.4	0.3	5.2	T	0.0	42.5
1975-76	0.0	0.0	T	0.5	1.0	7.7	5.3	2.0	8.7	4.0	T	0.0	29.2
1976-77	0.0	0.0	0.0	2.0	8.0	29.3	3.4	1.0	7.0	6.9	4.0	0.0	61.6
1977-78	0.0	0.0	T	2.5	10.0	1.0	6.9	15.0	1.0	T	T	0.0	36.4
1978-79	0.0	0.0	0.0	18.2	8.0	29.4	2.1	10.4	12.9	3.1	1.0	0.0	85.1
1979-80	0.0	0.0	0.0	4.7	5.1	16.5	10.9	4.7	10.8	T	T	0.0	52.7
1980-81	0.0	0.0	T	5.4	1.6	13.0	3.5	2.4	5.1	0.1	0.0	0.0	31.1
1981-82	0.0	0.0	3.3	9.5	12.5	17.2	2.2	3.7	8.4	2.0	T	0.0	58.8
1982-83	0.0	0.0	0.0	12.5	6.5	2.0	7.8	4.2	T	5.8	T	0.0	38.8
1983-84	0.0	0.0	1.0	2.8	1.3	5.5	15.1	20.1	T	1.1	0.0	0.0	46.9
1984-85	0.0	0.0	0.0	4.1	11.1	10.1	3.0	15.5	6.6	15.3	T	0.0	65.7
1985-86	0.0	0.0	1.6	3.4	8.1	8.0	10.5	9.0	10.7	11.3	T	1.0	63.6
1986-87	0.0	0.0	T	3.8	5.5	5.6	4.9	0.5	T	1.5	T	0.0	21.8
1987-88	0.0	0.0	T	2.7	9.7	9.4	1.1	9.3	8.0	0.3	T	0.0	40.5
1988-89	0.0	0.0	0.0	22.4	12.1	10.5	25.5	2.5	1.7	0.7	4.0	0.0	79.4
1989-90	0.0	0.0	T	6.9	14.5	22.3	5.6	26.6	4.0	T	T	0.0	79.9
1990-91	0.0	0.0	0.0	3.6	13.3	13.5	9.0	5.8	6.3	3.1	0.5	T	55.1
1991-92	0.0	0.0	0.0	17.6	17.8	8.9	12.8	9.8	10.6	16.4	T	0.0	93.9
1992-93	0.0	0.0	15.7	10.4	7.1	19.7	11.5	8.0	0.8	T	T	T	73.2
1993-94	T	0.0	1.5	9.8	20.6	9.0	12.9	4.6	0.6	T	0.5	T	59.5
1994-95	0.0	0.0	1.0	20.9	21.8	4.8	2.7	14.2	14.0			0.0	
1995-96	0.0	0.0	T	5.0	2.8	0.6	4.4	38.3	29.2	2.3	0.0		
1996-97	0.0	0.0	2.2	10.7	6.7	16.8	15.6	3.1	4.7	0.6	T	0.0	60.4
1997-98	0.0	0.0	0.0	21.4	11.5	17.5	4.7	7.8	1.6	T	T	0.0	64.5
1998-99	T	0.0	0.0	7.0	5.5	6.5	12.6	4.2	1.6	1.3	6.7	0.0	45.4
1999-	0.0	0.0	T	18.9									
POR= 55 YRS	T	0.1	1.1	8.2	8.9	10.2	7.5	7.3	5.3	2.7	0.7	0.0	52.0

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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
GULKANA,
ALASKA (GKN)

Gulkana Airport is located in the Copper River basin 2 miles west of the river and 9 miles south of the village of Gulkana. The airport is approximately 150 airline miles northeast of Anchorage and 200 miles south-southeast of Fairbanks. The facility can be reached by both highway and air, and is near the junction point of the Glenn Highway, leading to Anchorage and Canada, and the Richardson Highway, leading to Fairbanks. Terrain surrounding the station experiences no rapid changes in elevation. To the east the ground drops about 400 feet to the river. East of the river, the land rises gradually to about 3,000 feet at a distance of 18 miles, and then rises abruptly to 12,000 feet at the top of Mt. Drum, about 25 miles away. Elevation changes in all other directions are small. Numerous small river and creek valleys give the appearance of a fairly rough terrain despite the small elevation changes. From a much larger scale viewpoint, mountain ranges exist in all directions. The Alaska Range lies about 75 miles to the north. Mt. Drum to the east is the western end of the Wrangell Mountains. Fifty miles to the south are the Chugach Mountains. To the west at a distance of about 100 miles, the north-south oriented Talkeetna Mountains, with their southern extension joining the Chugach Range, form a barrier between Gulkana and Anchorage. Elevations of the various mountain ranges are from 6,000 to 12,000 feet. The mountains exert a significant influence on the climate of the Copper River basin.

There is no doubt that Gulkana Airport is under a dominant continental influence. Typical of this are the extremes of temperature in summer and winter, with a range as large as 156 degrees. Because the sun makes only a brief appearance during the middle of the day in winter, the average minimum temperature usually remains below zero. In contrast to the cold winter months with short days, summer is pleasantly cool, but warm enough for outdoor activities, with 18 to 20 hours of sunshine.

Mountains surrounding the Gulkana area capture a large portion of the moisture which might otherwise reach the valley, particularly from the Gulf of Alaska which deposits annual amounts in excess of 60 inches on the windward slopes of the Chugach Range. There is no commercial agriculture in the Copper River basin, but with well over half of the annual total precipitation occurring during the four months of June through September, there is adequate moisture for gardening. The average length of the growing season is 78 days.

Cloud data are available for a short period, but the heaviest precipitation occurrence in summer may be indicative of maximum cloudiness occurring during these months.

Surface wind directions are prevailing southeasterly during spring, summer, and early fall, and from the north during late fall and winter. Monthly wind speeds are highest in summer. However, the infrequent occurrences of strong winds in excess of 40 mph have always been associated with the lighter wind months from October through April.

