

1999

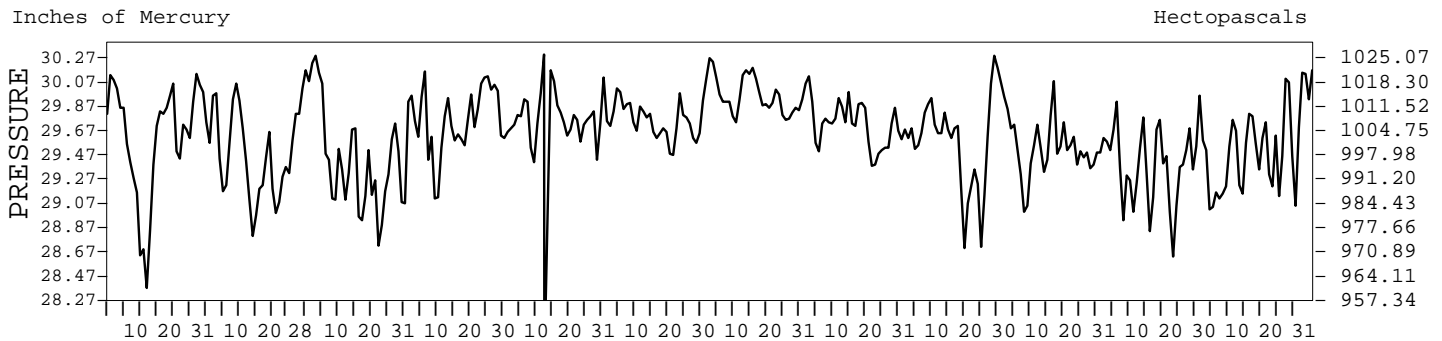
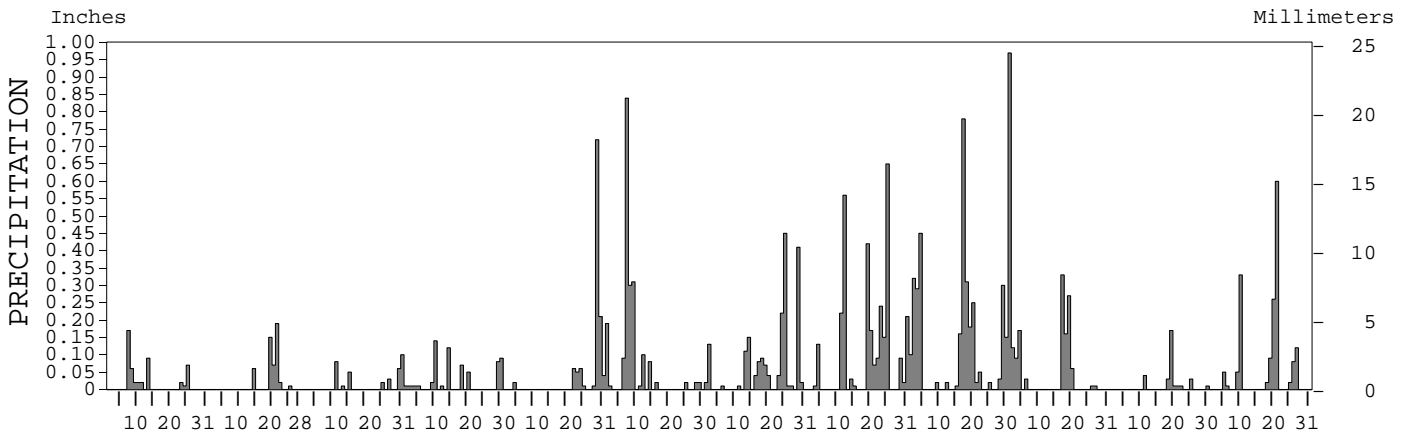
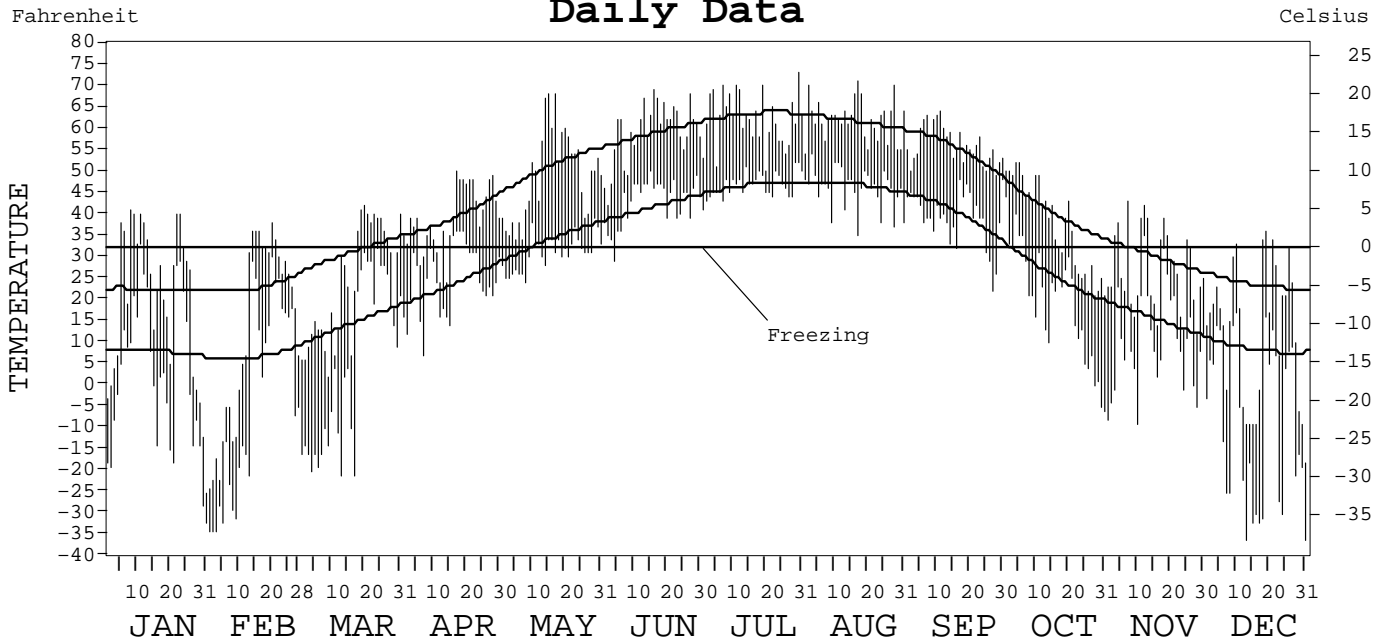
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9787

KING SALMON, ALASKA (AKN)

Daily Data



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

METEOROLOGICAL DATA FOR 1999

KING SALMON, AK (AKN)

LATITUDE: 58° 41' 01" N LONGITUDE: 156° 39' 14" W ELEVATION (FT): GRND: 57 BARO: 57 TIME ZONE: ALASKA (UTC + 9) WBAN: 25503

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE ° F	MEAN DAILY MAXIMUM	19.8	12.3	23.7	39.0	49.1	59.1	62.2	62.0	56.1	37.3	26.9	12.5	38.3	
	HIGHEST DAILY MAXIMUM	41	38	42	50	68	69	73	71	64	52	43	36	73	
	DATE OF OCCURRENCE	08	20	20	17	17+	16	30	17	11	05+	07	19	JUL 30	
	MEAN DAILY MINIMUM	2.2	-3.5	4.3	24.6	31.0	42.8	46.7	45.8	39.0	19.5	10.4	-9.4	21.1	
	LOWEST DAILY MINIMUM	-32	-34	-21	7	24	29	41	35	22	-6	-9	-36	-36	
	DATE OF OCCURRENCE	31	03+	17+	07	08	04	01	17	27	31	10	31+	DEC 31+	
	AVERAGE DRY BULB	11.0	4.4	14.0	31.8	40.1	51.0	54.5	53.9	47.6	28.4	18.7	1.6	29.8	
	MEAN WET BULB			13.5	29.3		46.6	50.9	50.6	44.8	26.8	18.3			
	MEAN DEW POINT			8.7	24.6		42.5	47.8	47.8	42.0	23.2	14.5			
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	0	4	3	0	0	0	0	0	7
	MAXIMUM ≤ 32°	21	23	20	5	0	0	0	0	0	12	20	27	128	
MINIMUM ≤ 32°	30	28	31	25	19	1	0	0	5	26	29	31	225		
MINIMUM ≤ 0°	15	15	14	0	0	0	0	0	0	3	7	18	72		
H/C	HEATING DEGREE DAYS	1667	1692	1572	988	765	415	320	337	517	1127	1383	1956	12739	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	78	74	76	75	73	76	81	82	83	81	80	81	78	
	HOUR 03 LST	78	82	81	83	85	88	91	93	92	88	83	82	86	
	HOUR 09 LST	79	80	82	78	77	79	88	86	91	88	84	81	83	
	HOUR 15 LST	76	66	69	66	58	65	68	69	68	64	75	79	69	
	HOUR 21 LST	80	79	77	77	72	74	78	85	85	85	82	82	80	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	2	3	0	4	3	3	2	4	3	5	0	31	
	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.)	29.62	29.46	29.47	29.74		29.75	29.97	29.71	29.61	29.51	29.37	29.55		
	MEAN SEA-LEVEL PRESS. (IN.)	29.77	29.51	29.53	29.80		29.80	30.02	29.76	29.66	29.56	29.43	29.61		
WINDS	RESULTANT SPEED (MPH)	2.6	4.2	1.8	2.7		3.2	5.7	2.5	1.6	3.8	5.7	4.6		
	RES. DIR. (TENS OF DEGS.)	04	03	05	19		15	21	19	14	02	03	01		
	MEAN SPEED (MPH)	10.0	8.3	9.3	11.9	9.8	8.5	9.1	8.4	9.0	7.1	9.0	7.8	9.0	
	PREVAIL. DIR. (TENS OF DEGS.)	01	01	01	10	20	21	22	17	16	01	01	01	01	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	52	32	34	45	34	29	28	34	38	28	29	29	52	
	DIR. (TENS OF DEGS.)	16	35	15	16	09	09	17	17	10	08	09	02	16	
	DATE OF OCCURRENCE	22	06+	31	04	09	14	19	19	16	15	12	26+	JAN 22	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	62	41	44	54	46	36	33	40	48	37	39	39	62	
DIR. (TENS OF DEGS.)	16	09	11	16	10	09	17	17	10	09	09	09	16		
DATE OF OCCURRENCE	22	13	18	04	09	14	19+	19	16	15	12	18	JAN 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.48	0.50	0.35	0.63	1.18	2.01	1.91	3.07	3.46	2.22	0.31	1.63	17.75	
	GREATEST 24-HOUR (IN.)	0.23	0.22	0.10	0.17	0.89	0.89	0.46	0.78	0.78	0.98	0.20	0.71	0.98	
	DATE OF OCCURRENCE	07-08	20-21	31	29-30	29-30	06-07	24-25	11-12	17	01-02	18-19	20-21	OCT 01-02	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	9	6	7	13	9	13	18	16	18	11	8	11	139	
PRECIPITATION ≥ 0.10	1	2	1	2	2	5	6	9	11	6	1	4	50		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	8.0	12.2	2.5	11.7	0.4	T	0.0	0.0	0.0	3.2	4.1	24.9	67.0	
	GREATEST 24-HOUR (IN.)	3.3	2.8	0.9	7.2	0.3	T	0.0	0.0	0.0	1.9	1.3	6.0	7.2	
	DATE OF OCCURRENCE	07-08	21	11	10	04	02	0	0	0	17-18	19	10	APR 10	
	MAXIMUM SNOW DEPTH (IN.)	4	11	9	6	0	0	0	0	0	2	2	17	17	
	DATE OF OCCURRENCE	11	26	01	16+						19	30+	29+	DEC 29+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	4	5	0	2	0	0	0	0	0	1	1	7	20		

NORMALS, MEANS, AND EXTREMES

KING SALMON, AK (AKN)

LATITUDE: 58° 41' 01" N LONGITUDE: 156° 39' 14" W ELEVATION (FT): GRND: 57 BARO: 57 TIME ZONE: ALASKA (UTC + 9) WBAN: 25503

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	22.1	22.9	30.7	39.0	50.9	58.6	63.0	61.4	54.7	39.7	29.6	23.4	41.3
	MEAN DAILY MAXIMUM	50	21.9	22.9	30.5	40.1	51.6	59.4	63.3	61.6	54.8	40.4	30.0	22.1	41.5
	HIGHEST DAILY MAXIMUM	57	53	57	56	65	80	88	86	84	74	67	56	48	88
	YEAR OF OCCURRENCE		1963	1991	1943	1948	1997	1953	1951	1968	1974	1954	1986	1998	JUN 1953
	MEAN OF EXTREME MAXS.	50	41.7	42.5	45.0	52.6	65.1	72.7	77.7	73.8	64.6	54.1	45.7	41.8	56.4
	NORMAL DAILY MINIMUM	30	7.6	6.7	14.1	23.4	33.9	41.4	46.4	46.4	39.7	25.1	15.0	8.3	25.7
	MEAN DAILY MINIMUM	50	7.0	6.6	13.8	24.1	34.1	41.6	46.7	46.7	39.8	25.4	15.6	6.4	25.6
	LOWEST DAILY MINIMUM	57	-48	-41	-42	-15	4	29	33	25	15	-12	-28	-38	-48
	YEAR OF OCCURRENCE		1989	1993	1971	1985	1945	1999	1993	1984	1983	1983	1988	1942	JAN 1989
	MEAN OF EXTREME MINS.	50	-23.7	-21.9	-11.9	6.0	24.5	33.0	38.4	35.9	25.6	6.2	-8.8	-20.8	6.9
	NORMAL DRY BULB	30	14.9	14.8	22.4	31.2	42.4	50.0	54.7	53.9	47.2	32.4	22.3	15.9	33.5
	MEAN DRY BULB	50	14.4	14.8	22.0	32.1	42.9	50.5	55.0	54.2	47.3	32.8	22.9	14.2	33.6
	MEAN WET BULB	14	17.1	15.8	23.0	30.7	39.8	46.8	51.7	51.2	42.2	30.7	21.6	18.4	32.4
	MEAN DEW POINT	14	13.6	11.4	16.9	23.9	32.1	42.1	48.6	48.3	39.1	27.3	19.1	15.8	28.2
NORMAL NO. DAYS WITH:															
	MAXIMUM ≥ 70°	30	0.0	0.0	0.0	0.0	0.7	2.1	5.7	3.7	0.2	0.0	0.0	0.0	12.4
	MAXIMUM ≤ 32°	30	18.4	16.4	13.2	5.9	0.3	0.0	0.0	0.0	0.0	6.5	15.2	17.8	93.7
	MINIMUM ≤ 32°	30	27.9	25.6	27.5	25.4	11.7	0.4	0.0	0.3	5.1	21.7	25.7	27.8	199.1
	MINIMUM ≤ 0°	30	11.3	11.7	6.6	1.2	0.0	0.0	0.0	0.0	0.0	0.9	5.6	11.4	48.7
H/C	NORMAL HEATING DEG. DAYS	30	1553	1406	1321	1014	701	450	319	344	534	1011	1281	1522	11456
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	76	73	73	72	70	74	78	80	79	79	81	77	76
	HOUR 03 LST	30	76	75	78	80	83	86	89	89	87	84	82	77	82
	HOUR 09 LST	30	76	75	77	76	74	78	83	86	86	85	82	77	80
	HOUR 15 LST	30	74	68	65	61	56	59	64	66	65	69	77	76	67
	HOUR 21 LST	30	76	74	74	72	68	70	74	78	80	80	82	77	75
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI) THUNDERSTORMS	44	2.2	1.5	1.6	1.7	2.4	3.1	4.4	4.0	2.6	2.3	3.1	2.6	31.5
		44	0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.2	0.1	0.0	0.1	0.0	1.5
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	41	5.4	5.3	5.4	6.1	6.5	6.8	6.7	6.7	6.5	5.9	5.7	5.5	6.0
	MIDNIGHT-MIDNIGHT (OKTAS)	33	5.0	4.7	5.0	5.7	6.2	6.7	6.7	6.6	6.2	5.4	5.5	5.3	5.8
	MEAN NO. DAYS WITH: CLEAR	43	7.6	7.3	7.4	3.9	2.5	1.1	1.1	1.1	1.7	4.4	5.9	6.3	50.3
	PARTLY CLOUDY	43	5.3	5.2	5.8	6.7	6.1	5.4	5.1	5.4	6.0	7.1	5.2	5.6	68.9
CLOUDY	43	18.1	15.8	17.8	19.5	22.3	23.5	24.9	24.5	22.3	19.5	18.4	18.5	245.1	
PR	MEAN STATION PRESSURE (IN)	27	29.50	29.57	29.60	29.69	29.71	29.80	29.90	29.80	29.69	29.61	29.50	29.51	29.66
	MEAN SEA-LEVEL PRES. (IN)	16	29.57	29.69	29.70	29.72	29.81	29.86	29.95	29.89	29.73	29.66	29.63	29.54	29.73
WINDS	MEAN SPEED (MPH)	43	10.5	11.0	11.4	11.0	11.2	10.6	10.0	10.4	10.8	10.5	10.7	10.4	10.7
	PREVAIL. DIR (TENS OF DEGS)	3	01	36	09	09	20	21	20	16	16	36	09	01	36
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	52	32	34	45	34	29	28	34	38	28	29	29	52
	DIR. (TENS OF DEGS)		16	35	15	16	09	09	17	17	10	08	09	02	16
	YEAR OF OCCURRENCE		1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	JAN 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	1	62	41	44	54	46	36	33	40	48	37	39	39	62	
DIR. (TENS OF DEGS)		16	09	11	16	10	09	17	17	10	09	09	09	16	
YEAR OF OCCURRENCE		1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	JAN 1999	
PRECIPITATION	NORMAL (IN)	30	1.05	0.81	1.07	1.13	1.34	1.58	2.23	2.95	2.74	2.07	1.48	1.37	19.82
	MAXIMUM MONTHLY (IN)	57	3.02	3.00	2.41	2.99	3.05	3.78	5.08	6.44	7.30	6.35	3.35	3.65	7.30
	YEAR OF OCCURRENCE		1957	1943	1967	1963	1998	1950	1990	1953	1961	1946	1985	1978	SEP 1961
	MINIMUM MONTHLY (IN)	57	0.16	0.11	0.04	T	0.11	0.00	0.32	1.05	0.89	0.03	T	0.12	0.00
	YEAR OF OCCURRENCE		1959	1973	1960	1948	1948	1948	1951	1975	1984	1997	1963	1958	JUN 1948
	MAXIMUM IN 24 HOURS (IN)	57	1.08	1.29	1.03	1.41	0.98	0.92	1.28	2.00	1.69	1.77	1.56	1.17	2.00
	YEAR OF OCCURRENCE		1987	1969	1953	1963	1977	1994	1986	1963	1960	1977	1985	1978	AUG 1963
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.2	9.5	11.1	11.4	12.8	14.1	14.3	16.7	16.5	13.5	11.8	12.2	155.1	
PRECIPITATION ≥ 1.00	30	*	*	0.0	*	0.0	0.0	0.1	0.1	0.2	*	*	*	0.4	
SNOWFALL	NORMAL (IN)	30	8.2	6.7	7.4	5.5	1.2	0.*	0.0	0.0	0.*	3.2	6.5	8.4	47.1
	MAXIMUM MONTHLY (IN)	50	30.6	20.3	20.0	16.0	6.1	1.3	0.0	T	0.6	15.7	17.9	28.4	30.6
	YEAR OF OCCURRENCE		1993	1990	1977	1968	1985	1972		1998	1956	1990	1994	1993	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	50	18.6	9.3	11.0	7.2	3.8	1.2	0.0	T	0.6	8.7	8.6	8.5	18.6
	YEAR OF OCCURRENCE		1993	1962	1981	1999	1985	1972		1998	1956	1990	1948	1990	JAN 1993
	MAXIMUM SNOW DEPTH (IN)	49	17	19	23	13	3	0	0	0	1	10	12	17	23
YEAR OF OCCURRENCE		1987	1956	1954	1966	1985				1981	1961	1961	1999	MAR 1954	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.7	2.0	2.8	2.1	0.4	0.*	0.0	0.0	0.0	1.1	2.5	2.8	16.4	

PRECIPITATION (inches) 1999 KING SALMON, AK (AKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.50	0.45	1.81	1.80	0.41	1.13	2.87	4.31	1.59	2.24	0.79	1.33	19.23
1971	0.45	1.62	0.27	0.84	1.43	1.48	3.25	4.30	3.40	2.72	1.13	3.42	24.31
1972	1.30	0.21	0.17	1.37	1.29	1.62	1.08	1.95	2.95	2.57	1.35	0.59	16.45
1973	0.62	0.11	1.25	0.43	1.83	1.48	2.43	3.80	1.41	1.52	0.97	1.10	16.95
1974	0.86	0.55	1.27	1.18	0.57	2.40	2.01	3.19	1.56	2.90	1.20	1.23	18.92
1975	2.14	0.76	0.93	2.65	0.86	2.69	0.74	1.05	3.90	2.10	0.46	1.38	19.66
1976	1.24	0.97	0.78	0.58	1.47	1.34	2.60	1.71	2.64	0.81	2.06	1.77	17.97
1977	0.85	1.35	1.99	1.68	1.72	0.99	1.60	3.16	2.58	3.29	0.58	1.04	20.83
1978	0.70	0.28	0.26	0.58	0.98	2.81	1.66	2.03	1.87	2.84	1.77	3.65	19.43
1979	1.00	0.29	0.39	1.20	0.46	1.80	2.24	2.50	0.91	2.71	2.89	1.09	17.48
1980	1.46	0.83	1.51	0.42	1.61	2.19	2.97	2.36	2.00	2.46	1.19	0.49	19.49
1981	1.76	2.26	1.83	0.49	0.73	2.27	2.17	3.93	1.82	1.59	1.31	0.59	20.75
1982	1.48	0.15	1.37	1.20	1.55	3.04	1.98	1.99	5.14	1.41	0.83	1.37	21.51
1983	0.42	0.25	0.22	2.22	1.37	1.20	1.53	2.33	2.36	2.82	0.98	0.48	16.18
1984	1.17	0.55	0.44	0.43	1.08	1.59	1.30	2.41	0.89	0.57	1.00	1.79	13.22
1985	0.95	0.73	1.27	0.34	1.16	1.23	1.31	3.24	2.64	2.29	3.35	1.58	20.09
1986	1.33	0.19	0.24	0.98	1.01	0.93	2.44	3.22	4.03	2.50	1.91	0.65	19.43
1987	2.38	0.54	0.55	0.81	1.74	1.49	1.94	2.73	2.99	2.47	2.75	1.07	21.46
1988	0.56	0.75	0.74	1.02	2.95	1.11	2.73	2.88	2.17	1.68	1.52	1.60	19.71
1989	0.84	0.93	0.19	0.99	2.32	1.10	3.04	3.15	5.90	2.86	1.58	1.31	24.21
1990	1.44	1.61	1.71	0.89	1.52	1.22	5.08	2.02	2.75	2.38	2.10	3.26	25.98
1991	0.55	0.58	1.56	0.86	1.24	1.63	1.02	1.79	2.10	1.99	1.34	1.26	15.92
1992	0.79	0.92	1.40	0.19	0.74	2.53	3.02	4.73	1.35	1.11	1.45	1.77	20.00
1993	1.48	0.35	0.26	0.50	0.70	0.50	1.01	3.21	4.53	1.98	3.00	2.15	19.67
1994	1.35	1.22	0.91	1.35	1.74	1.71	3.77	3.17	3.46	2.41	2.98	2.28	26.35
1995	0.35	0.49	0.17	1.51	1.44	0.81	2.27	4.73	2.74	1.46	0.13	0.14	16.24
1996	0.70	0.75	0.38	0.87	0.84	2.41	1.27	2.61	2.60	1.06	0.62	0.64	14.75
1997	0.25	0.72	0.13	0.38	0.67	1.14	1.07	3.65	3.52	0.03	1.63	0.75	13.94
1998	0.95	0.34	0.75	0.98	3.05	2.22	1.90	3.59	3.28	3.96	1.62	0.83	23.47
1999	0.48	0.50	0.35	0.63	1.18	2.01	1.91	3.07	3.46	2.22	0.31	1.63	17.75
POR= 57 YRS	1.02	0.85	1.00	0.92	1.23	1.54	2.06	3.11	2.83	1.98	1.46	1.18	19.18

WBAN : 25503

AVERAGE TEMPERATURE (°F) 1999 KING SALMON, AK (AKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	-3	26.4	30.5	29.8	44.8	51.1	52.7	51.7	44.8	29.3	29.3	11.6	33.5
1971	-2.6	12.2	7.8	26.8	37.7	47.3	54.5	54.9	46.8	34.3	21.6	18.6	30.0
1972	6.7	6.2	1.8	22.1	40.9	46.6	55.2	54.4	45.5	36.0	25.4	16.2	29.8
1973	1.8	19.5	19.3	35.9	42.9	51.4	55.6	54.6	47.2	34.1	24.7	17.9	33.7
1974	9.5	0.4	23.2	35.6	45.5	51.2	55.4	57.0	50.6	33.4	20.1	8.0	32.5
1975	4.7	3.9	14.5	25.0	39.4	47.1	54.7	53.6	47.1	32.4	12.7	10.2	28.8
1976	12.3	7.3	15.3	29.5	39.5	46.9	53.2	53.1	45.3	31.5	24.2	19.3	31.5
1977	34.4	30.1	18.8	25.7	39.5	50.5	54.3	56.8	47.0	31.7	14.1	10.6	34.5
1978	28.6	24.8	25.6	37.5	45.2	49.5	54.2	57.1	47.7	36.5	30.0	28.0	38.7
1979	30.1	6.2	30.3	39.6	47.3	52.0	57.8	56.0	50.0	39.4	29.4	4.5	36.9
1980	9.0	20.7	27.6	36.4	41.7	48.9	55.1	51.1	47.0	35.2	26.3	5.3	33.7
1981	29.8	21.9	34.4	35.8	46.8	50.3	55.1	54.8	44.9	33.2	23.4	13.3	37.0
1982	17.0	12.8	23.9	25.5	40.3	48.9	51.5	52.3	46.2	28.1	26.1	24.0	33.1
1983	11.9	18.7	33.2	36.5	46.6	53.8	57.4	54.1	45.5	28.8	30.1	27.2	37.0
1984	17.4	-2.1	36.3	29.2	43.0	52.3	53.7	53.5	48.0	30.1	22.5	24.7	34.1
1985	32.6	10.6	22.6	20.8	39.9	47.4	54.3	52.4	47.4	26.7	25.1	34.2	34.5
1986	16.9	22.1	21.5	28.1	42.1	49.9	53.7	52.2	48.8	36.1	26.3	30.6	35.7
1987	21.1	24.3	29.8	32.3	42.8	49.3	55.9	57.0	45.4	37.5	16.5	9.4	35.1
1988	25.6	26.6	24.8	31.1	44.5	52.8	56.8	53.5	45.8	30.9	13.9	20.8	35.6
1989	-2.9	28.8	23.6	36.1	42.0	51.6	56.3	57.1	51.7	36.7	18.1	19.5	34.9
1990	16.8	-1.8	25.4	39.3	45.8	51.4	56.0	55.9	47.5	31.5	17.3	20.4	33.8
1991	17.5	14.2	25.7	36.4	44.5	50.4	55.2	53.7	50.7	37.2	23.1	15.1	35.3
1992	17.7	3.1	22.0	32.4	42.7	52.6	55.6	53.9	41.0	31.7	23.5	19.2	33.0
1993	15.0	22.7	31.1	41.0	48.3	53.1	57.9	56.0	48.6	38.1	29.6	24.6	38.8
1994	21.2	14.3	19.5	36.0	45.4	51.7	55.7	55.9	48.6	29.9	19.3	14.3	34.3
1995	19.5	23.1	17.4	40.3	46.4	53.2	57.3	54.8	52.5	35.1	18.4	25.0	36.9
1996	15.2	14.0	33.1	34.9	46.5	52.0	55.3	52.9	43.6	29.4	25.6	6.3	34.1
1997	12.8	30.3	20.8	37.7	47.8	54.0	59.8	57.4	50.4	27.6	26.4	7.8	36.1
1998	12.7	22.1	33.1	36.9	42.3	51.7	56.1	51.7	47.2	35.1	28.4	9.6	35.6
1999	11.0	4.4	14.0	31.8	40.1	51.0	54.5	53.9	47.6	28.4	18.7	1.6	29.8
POR= 57 YRS	14.2	15.3	21.6	31.9	42.9	50.6	54.9	54.2	47.2	33.1	22.5	14.0	33.5

HEATING DEGREE DAYS (base 65°F) 1999 KING SALMON, AK (AKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	374	404	602	1099	1065	1657	2094	1476	1775	1140	838	523	13047
1971-72	324	306	541	945	1296	1436	1806	1706	1963	1281	739	545	12888
1972-73	298	319	576	888	1177	1508	1962	1268	1411	864	679	402	11352
1973-74	284	318	529	953	1204	1452	1719	1812	1292	875	595	409	11442
1974-75	288	245	427	971	1339	1765	1869	1710	1560	1192	785	529	12680
1975-76	311	347	526	1004	1568	1699	1629	1673	1533	1059	784	536	12669
1976-77	359	362	585	1032	1218	1413	941	969	1427	1173	783	431	10693
1977-78	325	246	531	1025	1524	1687	1123	1121	1214	820	605	458	10679
1978-79	326	237	514	876	1042	1141	1076	1648	1069	754	544	380	9607
1979-80	214	274	441	788	1063	1872	1733	1276	1157	852	716	479	10865
1980-81	301	424	533	917	1155	1849	1086	1206	940	869	559	435	10274
1981-82	298	311	595	981	1242	1603	1483	1461	1263	1180	760	475	11652
1982-83	412	386	557	1134	1162	1266	1644	1293	981	848	566	328	10577
1983-84	229	333	578	1117	1045	1165	1472	1948	880	1067	680	374	10888
1984-85	345	350	504	1075	1270	1246	996	1520	1308	1318	770	523	11225
1985-86	322	384	521	1182	1189	946	1485	1199	1343	1101	701	443	10816
1986-87	344	388	483	892	1156	1058	1353	1133	1087	973	681	467	10015
1987-88	273	241	580	846	1451	1722	1214	1106	1239	1008	627	363	10670
1988-89	246	350	571	1049	1531	1365	2104	1008	1278	860	707	398	11467
1989-90	264	239	392	871	1403	1405	1492	1870	1220	766	590	402	10914
1990-91	270	274	519	1030	1426	1379	1469	1423	1208	852	629	432	10911
1991-92	295	341	420	856	1247	1538	1460	1794	1330	973	687	367	11308
1992-93	282	335	712	1026	1238	1414	1552	1183	1046	715	511	349	10363
1993-94	216	276	487	826	1054	1247	1352	1416	1405	861	598	391	10129
1994-95	285	277	486	1083	1369	1571	1404	1169	1469	732	570	348	10763
1995-96	231	308	370	919	1386	1232	1538	1478	981	895	566	385	10289
1996-97	294	370	637	1095	1175	1811	1612	965	1363	813	524	322	10981
1997-98	157	230	428	1152	1153	1766	1617	1196	981	834	695	393	10602
1998-99	272	408	530	919	1092	1711	1667	1692	1572	988	765	415	12031
1999-	320	337	517	1127	1383	1956							

WBAN : 25503

COOLING DEGREE DAYS (base 65°F) 1999 KING SALMON, AK (AKN)

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	5	0	0	0	0	0	5
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	3	0	0	0	0	3
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	0	0	0	0	0	0	3	0	0	0	0	0	3
1981	0	0	0	0	0	0	0	2	0	0	0	0	2
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	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	1	0	0	0	0	1
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
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	1	2	0	0	0	0	3
1994	0	0	0	0	0	0	2	1	0	0	0	0	3
1995	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	4	2	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	0	0	0	0	0	0	0

SNOWFALL (inches) 1999 KING SALMON, AK (AKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	T	8.3	1.4	8.6	4.3	15.2	1.6	8.9	2.5	T	50.8
1971-72	0.0	0.0	0.0	7.9	3.9	15.1	11.7	2.1	1.9	8.7	0.1	1.3	52.7
1972-73	0.0	0.0	T	0.8	8.0	2.1	3.0	0.8	8.1	2.2	0.6	0.0	25.6
1973-74	0.0	0.0	T	2.0	2.1	12.7	11.9	5.3	4.6	5.1	T	0.0	43.7
1974-75	0.0	0.0	0.0	T	4.3	10.9	19.1	6.3	8.7	14.3	2.9	0.0	66.5
1975-76	0.0	0.0	0.0	0.8	3.9	13.9	12.0	3.2	6.7	6.2	3.2	0.0	49.9
1976-77	0.0	0.0	0.0	2.0	10.9	11.0	2.1	11.9	20.0	4.6	T	0.0	62.5
1977-78	0.0	0.0	T	4.3	5.3	4.5	3.9	3.7	2.2	0.6	T	0.0	24.5
1978-79	0.0	0.0	0.0	1.0	2.2	14.1	4.4	0.2	1.1	T	T	0.0	23.0
1979-80	0.0	0.0	0.0	T	8.5	9.7	11.5	11.1	9.0	T	0.8	0.0	50.6
1980-81	0.0	0.0	0.0	0.3	6.1	6.8	10.5	11.3	15.8	0.6	T	T	51.4
1981-82	0.0	0.0	0.5	0.3	4.8	5.9	5.7	T	8.3	8.3	T	0.0	33.8
1982-83	0.0	0.0	0.0	2.8	2.0	2.9	4.0	2.0	T	6.0	0.1	0.0	19.8
1983-84	0.0	0.0	T	9.9	2.3	2.8	8.4	5.5	T	4.0	0.3	0.0	33.2
1984-85	0.0	0.0	0.0	3.4	7.3	3.8	3.7	6.4	8.9	3.4	6.1	0.0	43.0
1985-86	0.0	0.0	0.0	2.5	9.3	3.6	13.5	1.8	2.5	9.8	1.3	0.0	44.3
1986-87	0.0	0.0	0.0	2.3	2.5	4.8	24.7	2.7	2.7	9.4	T	0.0	49.1
1987-88	0.0	0.0	T	0.1	13.2	8.9	3.3	10.1	9.4	4.4	1.2	0.0	50.6
1988-89	0.0	0.0	T	3.4	12.7	9.2	14.9	3.7	5.1	1.5	2.1	0.0	52.6
1989-90	0.0	0.0	T	0.4	12.3	12.4	14.9	20.3	13.5	3.4	0.2	0.0	77.4
1990-91	0.0	0.0	T	15.7	6.7	18.9	3.1	4.3	14.0	2.8	0.0	0.0	65.5
1991-92	0.0	0.0	0.0	T	9.0	9.4	7.2	8.6	8.7	0.5	T	T	43.4
1992-93	0.0	0.0	T	0.9	7.9	8.0	30.6	5.5	5.2	1.8	T	T	59.9
1993-94	0.0	0.0	T	2.0	5.1	28.4	11.0	3.2	7.7	5.6	0.2	T	63.2
1994-95	0.0	0.0	0.0	8.4	17.9	16.0	5.9	2.0	2.0	0.4	T	T	52.6
1995-96	0.0	0.0	0.0	2.1	2.4	1.5	2.9	7.3	1.7	5.7	1.9	0.3	25.8
1996-97	0.0	0.0	0.3	2.6	0.1	8.5	3.7	5.2	2.3	T	T	0.0	22.7
1997-98	0.0	0.0	0.0	0.6	10.4	13.1	17.3	1.9	4.4	2.2	0.6	0.0	50.5
1998-99	0.0	T	T	11.3	5.1	3.4	8.0	12.2	2.5	11.7	0.4	T	54.6
1999-	0.0	0.0	0.0	3.2	4.1	24.9							
POR= 49 YRS	0.0	0.0	0.0	3.2	6.5	9.3	8.1	6.5	6.7	4.5	0.9	0.0	45.7

WBAN : 25503

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
KING SALMON,
ALASKA (AKN)

King Salmon is located in that area of southwestern Alaska which joins the Alaskan Peninsula and the Alaskan mainland. It is located about 1/4 mile from the Naknek River and lies 18 miles inland from the shores of Kvichak Bay, an arm of the much larger Bristol Bay. The terrain surrounding the station for a radius of 30 to 60 miles to the north through east to south-southwest is gently rolling, barren tundra. Some 60 miles to the east and southeast, however, the Aleutian Range rises to peaks a little above the 7,000-foot level. This mountain range extends in a northeast-southwest direction. The southern end of the Kuskokwim Range reaches southward to an area roughly 100 miles directly west of King Salmon. Nearness to the ocean tends to provide King Salmon with a climate that is predominantly maritime in character, with diurnal and seasonal temperature ranges normally confined to rather narrow limits. However, the area occasionally experiences definite continental influences that cause temperature extremes which tend to exaggerate the climatic conditions generally prevailing. Extreme temperatures range from upper 80s to readings near -40 degrees, but days in summer with maximum readings reaching 80 degrees are extremely rare. In fact, July, the warmest month, has an average of only five days with temperatures reaching 70 degrees or above.

Cloud coverage in the King Salmon area is generally quite high, averaging about eight-tenths the year around. Mountain ranges to the south, east, and west tend to provide uplift for air moving toward King Salmon from these directions and produce considerable cloudiness which is carried out across the local area. When the wind movement is inland from the southwest, the air arrives carrying a high moisture content to condense in low level cloudiness, and this action contributes to the frequent fog occurrences all months of the year. Fog development is most frequent during the months of July and August. During the winter months the high moisture content of the air causes substantial accumulations of frost on outside objects.

Seasonal snowfall averages about 45 inches, with the maximum depth on the ground during the winter season averaging about 10 inches. This indicates the extent of melting that takes place with the snow accumulation. Although most of the snow is received during periods of general snowfall over most of the southwestern mainland, a considerable amount of snow is brought in as snow showers which move inland from the Bristol Bay area. These showers are generally quite local and usually of short duration, but they often follow in rapid succession to bring sizeable accumulations of snow within relatively short periods of time. December has the greatest monthly average snowfall amount.

From December through March the area experiences rather strong winds, due to the passage of eastward-moving Aleutian lows. The strongest winds are usually from a northerly direction, developing after the low centers have passed on east of the local area. Winds of 50 mph or more have occurred in all months with extremes above 90 mph.

Ice in the bay near King Salmon usually becomes safe for man around November 11, with the Naknek River becoming safe for man around November 25. Break-up on the bay averages about April 6, with the break-up on the river averaging about April 18.

The average date of the last freeze is late May and the average date of the first freeze is early September. The average growing season is 100 days.

STATION LOCATION

KING SALMON, ALASKA

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATED * GAGE	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND											
							WIND INSTRUMENT	TEMPERATURE	RELATIVE HUMIDITY	PRECIPITATION	SUNSHINE	THUNDER	RAINFALL	WIND	8 INCH			
CAA Radio Control Bldg. Airport	12/24/41	2/20/42		58°41'	156°39'	59	31	5							3		Shelter 75 feet east of building. Rain gage 20 feet south of shelter.	
USAF Weather Station CAA Control Building	2/20/42	11/01/55	No Change	58°41'	156°39'	49		5							3		Shelter 50 feet NW of building. Rain gage west of shelter.	
CAA Control Building King Salmon Airport	11/01/55	9/26/56	No Change	58°41'	156°39'	44	38	5	4						3		Weather Bureau began operation. No change in instrumental locations.	
CAA Control Building King Salmon Airport	9/26/56	9/02/57	No Change	58°41'	156°39'	44	38	6	6						3		Shelter and rain gage moved to position 60 feet W of building.	
FAA Control Building King Salmon Airport	9/02/57	6/14/60	No Change	58°41'	156°39'	44	38	7	6				4		3		Shielded weighing rain gage installed 300 feet WNW of 8-inch gage. Exposure excellent.	
FAA Control Building King Salmon Airport	6/14/60	1/25/62	No Change	58°41'	156°39'	44	20	7	6					7	3		Weighing rain gage moved to location 70 feet W of office. Wind equipment moved to open area 850 feet NNE, 4/26/61.	
King Salmon Airport	1/25/62	06/01/98	2420 ft. WNW	58°41'	156°39'	d49	a20	e6	e6	NA	NA	5	3 b g3	c5 f6	NA	a - 38 feet to 2/5/62. b - Removed 1967. c - Commissioned 2400 feet ESE of thermometer site 1/1/64. d - 43 feet until resurvey of 9/29/66. e - Stand-by status after 1/1/64. f - Minor adjustment and type change 7/13/85. g - Installed 4/30/87.		
King Salmon Airport	06/01/98	Present	NA	58°41'	156°39'	57									S	ASOS Commissioned 06/01/98		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (704) 271-4800

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