

2004

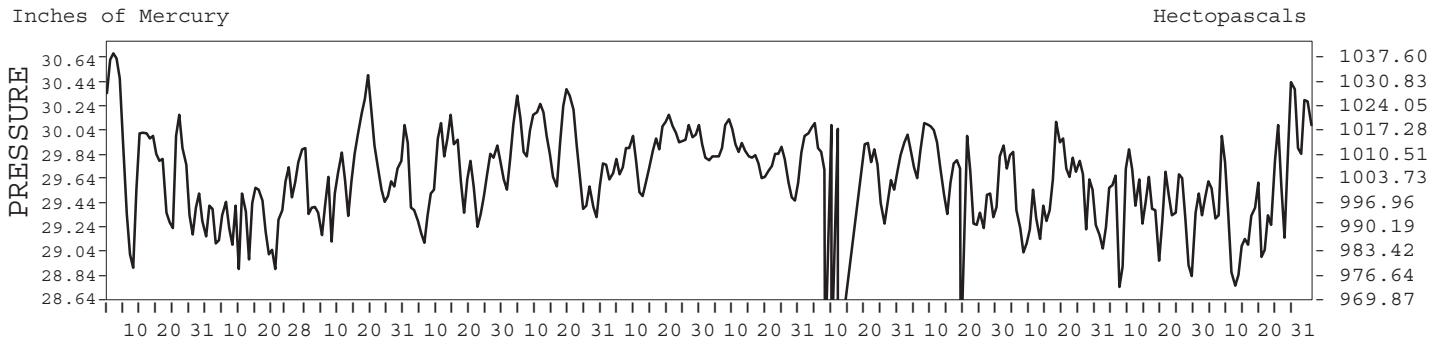
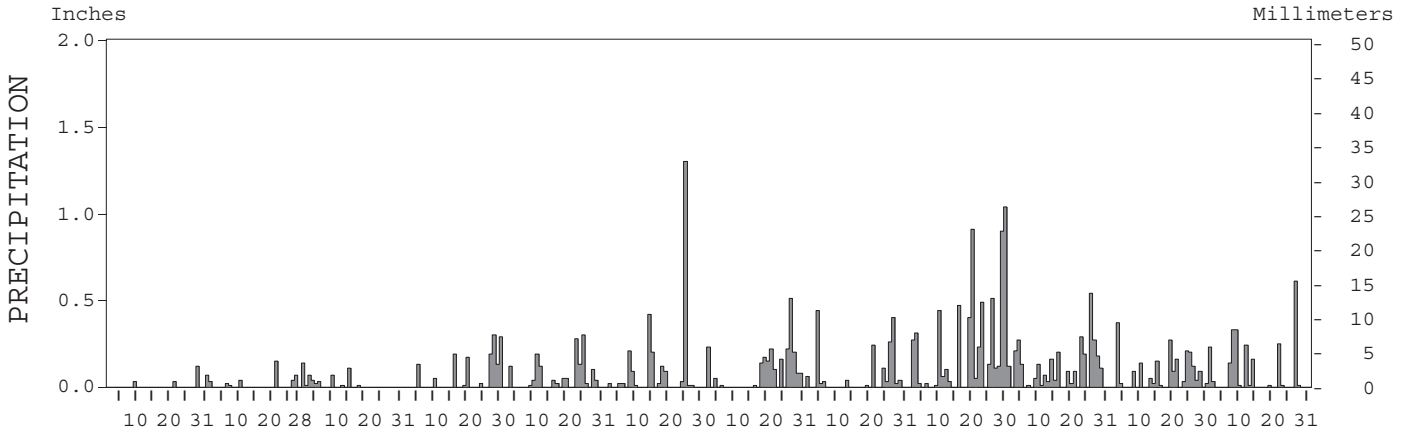
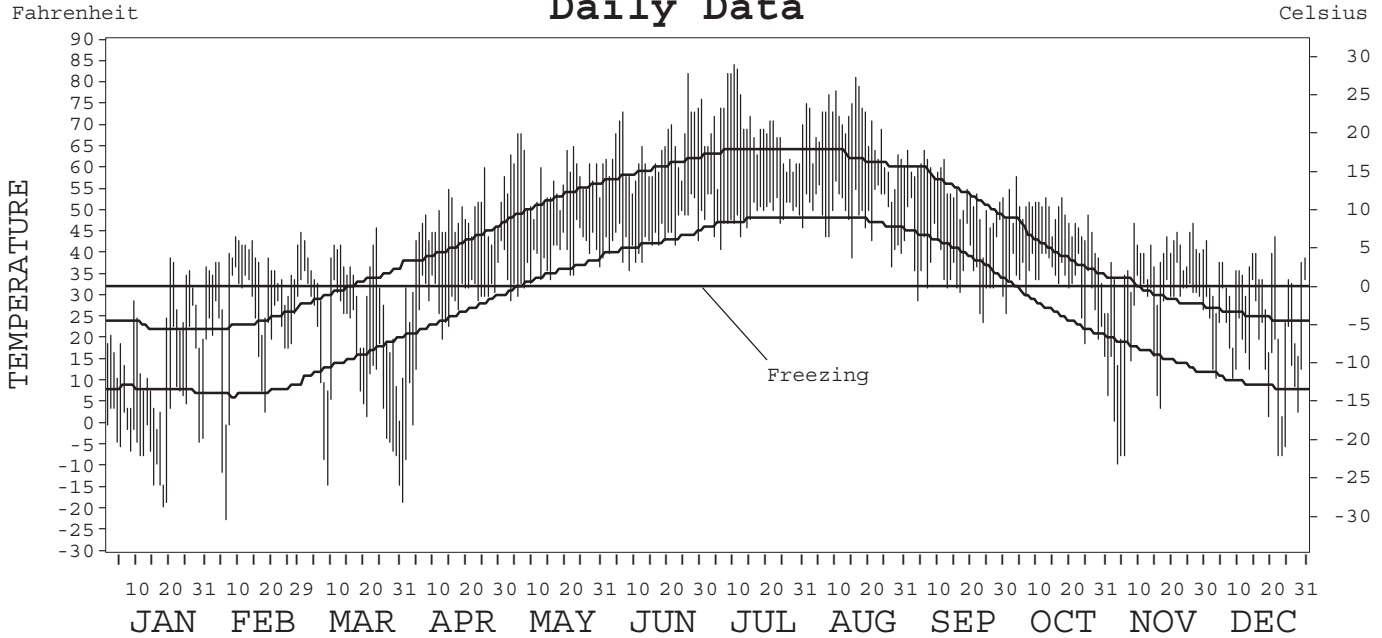
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9787

KING SALMON,  
ALASKA (AKN)

## Daily Data



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

# METEOROLOGICAL DATA FOR 2004

## KING SALMON, AK (AKN)

LATITUDE: 58° 41' 01" N      LONGITUDE: 156° 39' 14" W      ELEVATION (FT): GRND: 33      BARO: 36      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	18.5	35.3	29.0	46.0	57.5	64.7	68.9	68.5	54.7	47.4	37.4	31.0	46.6	
	HIGHEST DAILY MAXIMUM	39	45	46	60	68	82	84	81	64	58	47	44	84	
	DATE OF OCCURRENCE	20	29	23	25	06+	26	10	16	06+	04	27+	22	JUL 10	
	MEAN DAILY MINIMUM	1.1	21.5	12.4	27.1	38.4	44.3	48.9	49.0	37.2	32.8	22.0	16.5	29.3	
	LOWEST DAILY MINIMUM	-19	-22	-18	-8	29	36	41	37	24	16	-9	-7	-22	
	DATE OF OCCURRENCE	18	06	31	01	03	08	06	27	24	31	04	24+	FEB 06	
	AVERAGE DRY BULB	9.8	28.4	20.7	36.6	48.0	54.5	58.9	58.8	46.0	40.1	29.7	23.8	37.9	
	MEAN WET BULB	9.0	26.7	19.1	33.5	44.0	50.2	55.2			37.9	29.0	23.0		
	MEAN DEW POINT	5.3	23.2	13.1	28.9	40.3	46.1	52.2			34.9	26.4	20.0		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	8	12	16	0	0	0	0	0	36
	MAXIMUM ≤ 32°	26	6	15	3	0	0	0	0	0	1	5	14	70	
MINIMUM ≤ 32°	31	23	28	20	3	0	0	0	11	10	25	29	180		
MINIMUM ≤ 0°	18	3	8	2	0	0	0	0	0	0	3	3	37		
H/C	HEATING DEGREE DAYS	1701	1056	1368	849	522	307	182	192	565	764	1052	1268	9826	
	COOLING DEGREE DAYS	0	0	0	0	0	1	2	6	0	0	0	0	9	
RH	MEAN (PERCENT)	80	81	73	75	78	75	81	82	83	83	85	84	80	
	HOUR 03 LST	81	82	80	85	90	89	93	92	92	90	87	84	87	
	HOUR 09 LST	82	83	77	77	80	76	83	88	90	88	85	86	83	
	HOUR 15 LST	77	75	63	61	62	61	65	66	65	70	81	81	69	
	HOUR 21 LST	82	83	75	78	79	73	77	82	86	85	86	84	81	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	3	1	4	6	1	2	7	4	3	5	0	37	
	THUNDERSTORMS	0	0	0	0	0	0	3	0	0	0	1	0	4	
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.)	29.76	29.36	29.69	29.65	29.89	29.89	29.83			29.49	29.41	29.55		
	MEAN SEA-LEVEL PRESS. (IN.)	29.82	29.41	29.75	29.70	29.94	29.94	29.88			29.55	29.49	29.61		
WINDS	RESULTANT SPEED (MPH)	5.5	4.5	2.5	5.0	4.4	3.1	2.1			2.0	5.8	2.4		
	RES. DIR. (TENS OF DEGS.)	03	08	01	10	19	13	17			21	14	07		
	MEAN SPEED (MPH)	9.0	10.1	11.3	10.9	8.5	8.3	7.0	7.1	7.5	9.5	10.1	8.8	9.0	
	PREVAIL. DIR. (TENS OF DEGS.)	01	01	01	10	17	10	17	10	17	15	16	10	01	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	41	45	38	39	43	30	28	30	32	37	35	37	45	
	DIR. (TENS OF DEGS.)	10	16	17	10	18	19	17	18	16	28	17	06	16	
	DATE OF OCCURRENCE	26	08	09	05	16	18	27+	13	29	23	27	15	FEB 08	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	62	58	49	52	51	38	37	37	38	46	47	47	62	
DIR. (TENS OF DEGS.)	10	10	35	10	19	09	11	16	16	27	11	10	10		
DATE OF OCCURRENCE	26	10	18	05	16	03	25	13	29	24	02	21	JAN 26		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.25	0.50	0.37	1.48	1.51	2.57	2.39	1.64	6.74	3.09	2.31	2.22	25.07	
	GREATEST 24-HOUR (IN.)	0.12	0.15	0.11	0.49	0.41	1.33	0.63	0.64	1.04	0.68	0.39	0.62	1.33	
	DATE OF OCCURRENCE	28	21	14	26-27	22-23	23-24	25-26	25-26	29	25-26	02-03	26-27	JUN 23-24	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	4	8	9	10	15	15	16	12	22	21	19	14	165	
PRECIPITATION ≥ 0.10	1	2	1	7	7	5	10	5	16	12	9	7	82		
PRECIPITATION ≥ 1.00	0	0	0	0	0	1	0	0	1	0	0	0	2		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	6.2	5.3	4.2	1.3	0.0	0.0	0.0	0.0	0.8	0.4	7.9	22.8	48.9	
	GREATEST 24-HOUR (IN.)	2.6	1.9	1.8	1.3	0.0	0.0	0.0	0.0	0.4	0.4	2.5	5.6	5.6	
	DATE OF OCCURRENCE	28	21	14	04					27+	25	02-03	26	DEC 26	
	MAXIMUM SNOW DEPTH (IN.)	3	3	1	T	0	0	0	0	0	0	5	8	8	
	DATE OF OCCURRENCE	31+	28+	15+	05+							09	15+	DEC 15+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	3	2	1	1	0	0	0	0	0	0	4	7	18		

# NORMALS, MEANS, AND EXTREMES

## KING SALMON, AK (AKN)

LATITUDE: 58° 41' 01" N      LONGITUDE: 156° 39' 14" W      ELEVATION (FT): GRND: 33      BARO: 36      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	22.8	23.8	32.0	41.3	52.1	59.5	63.8	62.2	54.9	40.5	30.5	25.1	42.4
	MEAN DAILY MAXIMUM	55	22.3	24.1	30.7	40.6	51.9	59.7	63.4	61.8	54.8	40.7	30.6	22.6	41.9
	HIGHEST DAILY MAXIMUM	62	53	57	56	67	80	88	86	84	74	67	56	49	88
	YEAR OF OCCURRENCE		1963	1991	1943	2003	1997	1953	1951	1968	1974	1954	1986	2002	JUN 1953
	MEAN OF EXTREME MAXS.	55	41.7	42.6	45.1	53.2	65.3	73.2	77.7	74.2	64.6	54.4	46.0	42.0	56.7
	NORMAL DAILY MINIMUM	30	8.0	7.4	15.1	24.9	34.8	42.2	47.5	47.4	40.3	26.0	15.9	9.3	26.6
	MEAN DAILY MINIMUM	55	7.3	7.8	14.1	24.4	34.0	41.6	46.7	46.7	39.7	25.7	16.0	6.8	25.9
	LOWEST DAILY MINIMUM	62	-48	-41	-42	-15	4	29	33	25	15	-12	-28	-38	-48
	YEAR OF OCCURRENCE		1989	1993	1971	1985	1945	1999	1993	1984	2003	1983	1988	2001	JAN 1989
	MEAN OF EXTREME MINS.	55	-23.8	-20.9	-11.7	5.8	24.3	33.0	38.4	35.9	25.3	6.6	-8.6	-20.7	7.0
	NORMAL DRY BULB	30	15.4	15.6	23.5	33.1	43.5	50.9	55.7	54.8	47.6	33.3	23.2	17.2	34.5
	MEAN DRY BULB	55	14.8	16.1	22.4	32.5	43.1	50.6	55.1	54.3	47.3	33.1	23.4	14.7	34.0
	MEAN WET BULB	17	17.4	18.2	22.9	31.2	39.8	47.2	51.8	51.2	42.4	31.6	22.9	19.2	33.0
	MEAN DEW POINT	17	14.0	13.9	17.0	24.9	32.6	42.5	48.8	48.3	39.2	28.4	20.3	16.4	28.9
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	17.6	15.9	11.9	4.3	0.1	0.0	0.0	0.0	0.0	5.6	14.5	16.9	86.8	
MINIMUM ≤ 32°	30	27.6	25.6	27.1	24.2	10.6	0.4	0.0	0.3	5.5	21.5	25.3	27.8	195.9	
MINIMUM ≤ 0°	30	10.8	11.1	6.3	1.0	0.0	0.0	0.0	0.0	0.0	0.8	5.7	10.5	46.2	
H/C	NORMAL HEATING DEG. DAYS	30	1538	1384	1286	957	667	425	290	317	521	984	1254	1481	11104
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	82	77	75	73	71	74	80	81	80	81	84	83	78
	HOUR 03 LST	30	84	82	82	84	86	88	92	92	89	87	87	84	86
	HOUR 09 LST	30	85	83	80	76	74	76	84	86	86	87	88	84	82
	HOUR 15 LST	30	80	71	64	59	55	57	65	68	66	68	79	81	68
	HOUR 21 LST	30	84	81	78	74	69	70	77	82	83	83	87	84	79
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	49	2.2	1.5	1.6	1.8	2.5	3.1	4.3	4.1	2.6	2.3	3.0	2.5	31.5
	THUNDERSTORMS	49	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.2	0.1	0.0	0.1	0.0	1.6
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)	31	29.51	29.56	29.61	29.70	29.73	29.80	29.90	29.81	29.69	29.61	29.49	29.49	29.66
	MEAN SEA-LEVEL PRES. (IN)	20	29.58	29.68	29.71	29.74	29.83	29.86	29.95	29.90	29.72	29.65	29.59	29.52	29.73
WINDS	MEAN SPEED (MPH)	48	10.5	11.0	11.3	10.9	10.9	10.3	9.9	10.0	10.5	10.5	10.6	10.2	10.6
	PREVAIL. DIR (TENS OF DEGS)	8	01	09	01	09	20	10	20	20	16	36	36	01	01
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	6	53	67	43	46	43	33	32	37	38	47	39	43	67
	DIR. (TENS OF DEGS)		16	15	16	15	18	11	17	16	10	10	10	15	15
	YEAR OF OCCURRENCE		2000	2000	2003	2001	2004	2002	2003	2000	1999	2002	2002	2003	FEB 2000
MAXIMUM 5-SECOND:															
SPEED (MPH)	6	62	76	56	55	51	46	39	44	48	62	56	59	76	
DIR. (TENS OF DEGS)		10	15	01	15	19	10	18	17	10	10	10	10	15	
YEAR OF OCCURRENCE		2004	2000	2003	2001	2004	2002	2003	2000	1999	2002	2002	2000	FEB 2000	
PRECIPITATION	NORMAL (IN)	30	1.03	0.72	0.79	0.94	1.35	1.70	2.15	2.89	2.81	2.10	1.54	1.39	19.41
	MAXIMUM MONTHLY (IN)	62	3.02	3.00	2.41	2.99	3.05	3.78	5.08	6.44	7.30	6.35	3.89	3.65	7.30
	YEAR OF OCCURRENCE		1957	1943	1967	1963	1998	1950	1990	1953	1961	1946	2003	1978	SEP 1961
	MINIMUM MONTHLY (IN)	62	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)	62	1.08	1.29	1.03	1.41	0.98	1.33	1.28	2.00	1.69	1.77	1.56	1.17	2.00
	YEAR OF OCCURRENCE		1987	1969	1953	1963	1977	2004	1986	1963	1960	1977	1985	1978	AUG 1963
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.3	8.7	9.8	11.2	12.8	14.0	14.7	16.3	16.9	13.2	12.6	12.9	154.4	
PRECIPITATION ≥ 1.00	30	*	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	*	0.1	*	0.5	
SNOWFALL	NORMAL (IN)	30	10.0	5.6	6.4	4.2	0.8	0.*	0.0	0.0	0.*	3.0	6.5	9.7	46.2
	MAXIMUM MONTHLY (IN)	55	30.6	20.3	20.0	16.0	6.1	1.3	0.0	T	0.8	15.7	17.9	28.4	30.6
	YEAR OF OCCURRENCE		1993	1990	1977	1968	1985	1972		1998	2004	1990	1994	1993	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	55	18.6	9.3	11.0	7.2	4.7	1.2	0.0	T	0.6	8.7	8.6	8.5	18.6
	YEAR OF OCCURRENCE		1993	1962	1981	1999	2003	1972		1998	1956	1990	1948	1990	JAN 1993
	MAXIMUM SNOW DEPTH (IN)	54	20	19	23	13	3	0	0	0	1	10	12	17	23
	YEAR OF OCCURRENCE		2000	1956	1954	1966	1985				1981	1961	1961	1999	MAR 1954
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.1	1.8	2.4	1.7	0.2	0.0	0.0	0.0	0.0	1.0	2.3	2.8	15.3	

PRECIPITATION (inches) 2004 KING SALMON, AK (AKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	0.95	0.73	0.32	0.63	1.18	1.99	3.11	2.28	3.30	2.13	2.20	0.69	19.51
2001	0.85	1.88	0.58	1.35	0.63	0.21	3.51	2.37	1.64	3.61	0.14	0.80	17.57
2002	2.40	0.49	0.15	0.99	0.71	1.46	2.50	3.55	3.96	3.30	1.33	0.57	21.41
2003	0.46	1.37	0.15	0.93	1.84	2.30	2.45	4.53	1.57	1.87	3.89	0.77	22.13
2004	0.25	0.50	0.37	1.48	1.51	2.57	2.39	1.64	6.74	3.09	2.31	2.22	25.07
POR= 62 YRS	1.04	0.88	0.97	0.95	1.25	1.57	2.14	3.11	2.89	2.06	1.52	1.18	19.56

WBAN : 25503

AVERAGE TEMPERATURE (°F) 2004 KING SALMON, AK (AKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	4.2	30.3	30.4	34.9	42.5	50.6	54.2	54.2	45.9	34.7	32.8	33.9	37.4
2001	25.2	28.5	25.5	35.8	40.5	53.0	54.5	55.6	48.5	27.7	19.0	7.6	35.1
2002	23.3	19.3	26.9	33.4	45.9	52.4	55.8	55.2	48.7	42.8	34.5	20.9	38.3
2003	28.5	35.7	19.9	37.7	44.3	52.4	56.9	56.6	45.9	37.0	26.4	11.6	37.7
2004	9.8	28.4	20.7	36.6	48.0	54.5	58.9	58.8	46.0	40.1	29.7	23.8	37.9
POR= 62 YRS	14.5	16.4	22.0	32.3	43.1	50.7	55.0	54.3	47.2	33.4	23.0	14.5	33.9

HEATING DEGREE DAYS (base 65°F) 2004 KING SALMON, AK (AKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	320	337	517	1127	1383	1956	1876	1000	1068	894	692	425	11595
2000-01	326	328	568	934	959	954	1228	1018	1218	868	751	351	9503
2001-02	316	283	487	1149	1375	1774	1286	1274	1174	944	584	372	11018
2002-03	278	296	481	681	910	1358	1122	817	1391	810	633	373	9150
2003-04	246	258	568	859	1152	1649	1701	1056	1368	849	522	307	10535
2004-	182	192	565	764	1052	1268							

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COOLING DEGREE DAYS (base 65°F) 2004 KING SALMON, AK (AKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	1	0	0	0	0	0	1
2003	0	0	0	0	0	0	3	6	0	0	0	0	9
2004	0	0	0	0	0	1	2	6	0	0	0	0	9

SNOWFALL (inches) 2004 KING SALMON, AK (AKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0.0	0.0	0.0	3.2	4.1	24.9	14.2	4.4	3.7	1.0	0.4	0.0	55.9
2000-01	0.0	0.0	0.0	0.3	4.9	0.6	6.5	7.3	4.5	7.9	2.6	0.0	34.6
2001-02	0.0	0.0	0.0	1.9	2.2	14.4	22.2	17.8	2.3	1.2	T	T	62.0
2002-03	0.0	0.0	0.0	0.0	0.7	5.1	3.9	0.6	4.8	4.0	4.7	0.0	23.8
2003-04	0.0	0.0	0.0	6.9	12.9	7.0	6.2	5.3	4.2	1.3	0.0	0.0	43.8
2004-	0.0	0.0	0.8	0.4	7.9	22.8							
POR= 54 YRS	0.0	0.0	T	3.0	6.4	9.4	8.4	6.6	6.5	4.3	1.0	0.0	45.6

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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 (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</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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2004  
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										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE  M = AMOS T = AUTOB S = ASOS W = AWOS  REMARKS	
						SEA LEVEL		GROUND										TEMPERATURE
						GROUND	SITE	WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE RAIN GAUGE	8 INCH RAIN GAUGE			
*NOTE: <u>AIRPORT</u>																		
King Salmon Airport	1/25/62	06/01/98	2420 ft. WNW	58°41'	156°39'	d49	a20 g3	e6	e6				5	3 b	c5 f6	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		58°41'	156°39'	h33										ASOS Commissioned 06/01/98 h. Ground elevation.		

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\* NOTES: For earlier station history see previous edition.