

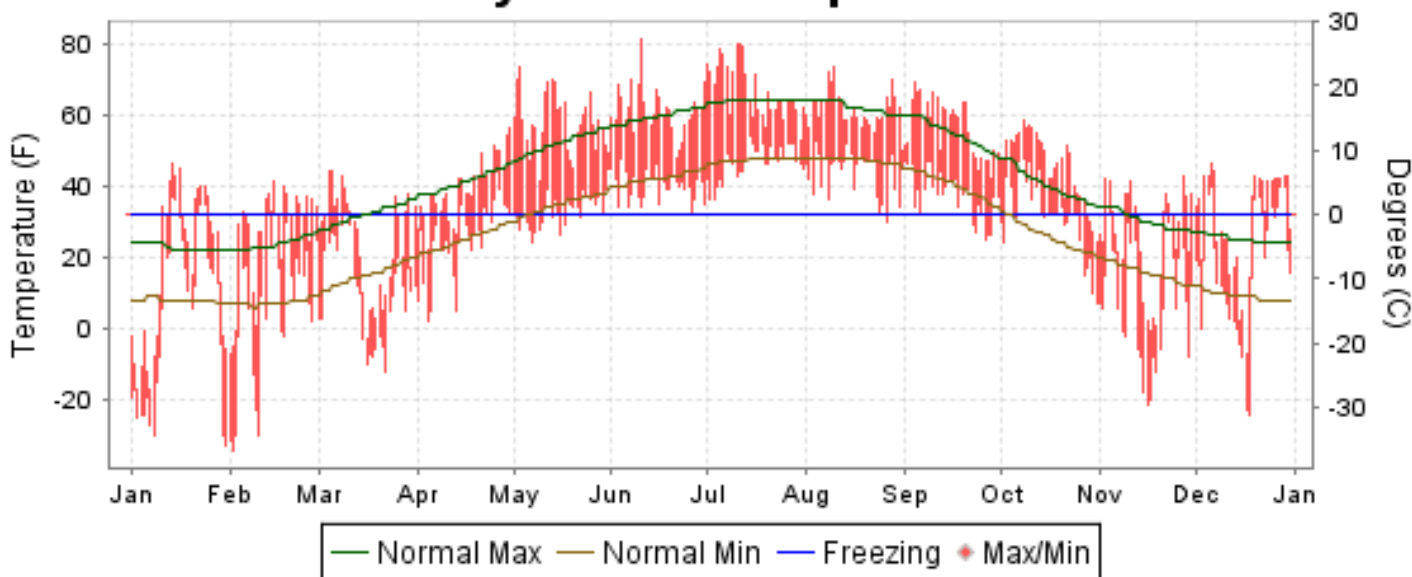


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

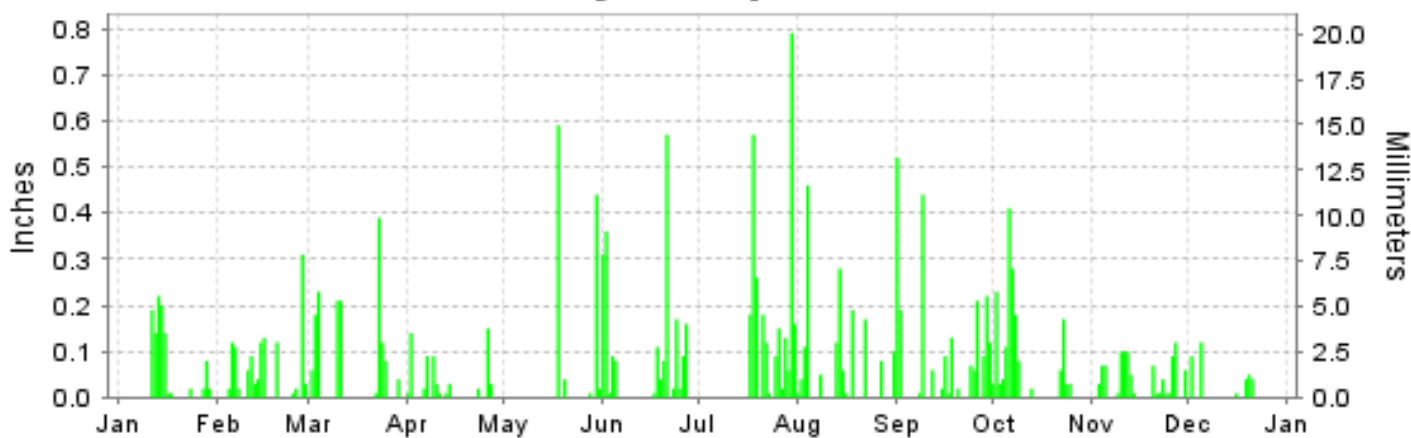
**KING SALMON,
ALASKA (PAKN)**

ISSN 0197-9787

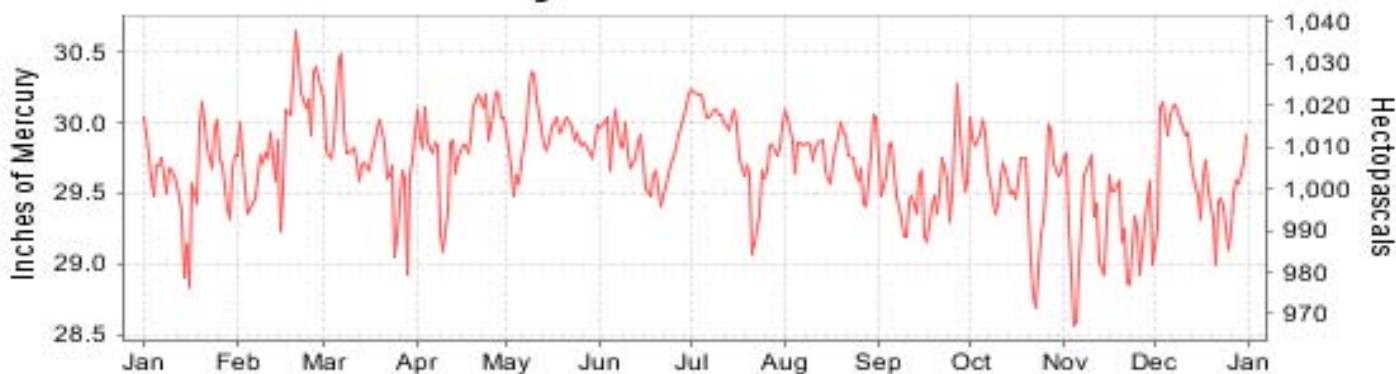
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

KING SALMON (PAKN)

LATITUDE: 58° 41'N LONGITUDE: -156° 39'W ELEVATION (FT): GRND: 47 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	17.7	26.5	24.7	39.4	57.8	61.2	66.7	61.3	56.6	45.9	26.3	30.6	42.9	
	HIGHEST DAILY MAXIMUM	46	41	44	56	73	81	80	73	69	58	43	46	81	
	DATE OF OCCURRENCE	14	15	05+	30	03	10	11+	10	04	08	27	06	JUN 10	
	MEAN DAILY MINIMUM	3.7	5.4	11.0	25.0	33.2	39.9	46.6	43.7	37.6	31.7	7.9	17.1	25.2	
	LOWEST DAILY MINIMUM	-33	-34	-12	2	24	32	36	30	25	7	-21	-24	-34	
	DATE OF OCCURRENCE	31	02	22	04	07	26	03+	26	26	31	16	18	FEB 02	
	AVERAGE DRY BULB	10.7	16.0	17.9	32.2	45.5	50.6	56.7	52.5	47.1	38.8	17.1	23.9	34.1	
	MEAN WET BULB	11.5		16.9	30.2	40.0	46.3	52.4	49.4	44.0	37.1	17.0	22.3		
	MEAN DEW POINT	7.6		12.1	25.9	32.4	41.9	48.5	46.2	40.8	34.4	13.8	18.6		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	3	2	12	3	0	0	0	0	0	20
	MAXIMUM <= 32°	21	16	19	6	0	0	0	0	0	4	17	13	96	
	MINIMUM <= 32°	27	28	30	23	14	1	0	1	5	16	28	23	196	
MINIMUM <= 0°	13	9	8	0	0	0	0	0	0	0	11	6	47		
H/C	HEATING DEGREE DAYS	1673	1366	1455	976	597	428	252	382	530	804	1426	1266	11155	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	80	80	76	78	65	74	76	80	81	84	83	80	78	
	HOUR 03 LST	80	84	81	85	85	89	91	93	91	89	85	79	86	
	HOUR 09 LST	81	82	80	80	70	78	81	87	91	90	84	81	82	
	HOUR 15 LST	77	72	67	69	45	59	60	65	63	72	79	78	67	
	HOUR 21 LST	82	82	79	78	59	72	73	80	85	86	83	80	78	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	1	2	3	3	4	5	6	5	4	3	2	38	
	THUNDERSTORMS	0	0	0	0	0	3	0	0	0	0	0	0	3	
CLOUDNESS	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.)	29.63	29.89	29.75	29.88	29.91	29.80	29.86	29.79	29.55	29.58	29.27	29.64	29.71	
	MEAN SEA-LEVEL PRESS. (IN.)	29.69	29.95	29.80	29.94	29.96	29.85	29.93	29.85	29.60	29.64	29.33	29.70	29.77	
WINDS	RESULTANT SPEED (MPH)	3.7	1.6	1.2	3.5	0.5	3.5	4.6	2.0	1.9	3.0	1.7	7.6	1.3	
	RES. DIR. (TENS OF DEGS.)	05	19	32	14	34	19	17	22	05	05	36	09	12	
	MEAN SPEED (MPH)	9.7	9.1	11.1	11.6	9.4	7.8	8.8	8.2	7.3	8.9	8.4	10.7	9.3	
	PREVAIL.DIR.(TENS OF DEGS.)	36	36	34	16	36	22	17	18	03	36	36	10	36	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	56	46	47	45	28	32	43	26	28	44	33	43	56	
	DIR. (TENS OF DEGS.)	14	23	09	15	15	15	10	09	03	09	10	10	14	
	DATE OF OCCURRENCE	16	25	25	26	31	04	25	03	24	09	30	05	JAN 16	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	72	63	59	58	36	39	56	37	39	59	44	61	72	
DIR. (TENS OF DEGS.)	16	25	09	16	15	17	09	08	03	10	09	11	16		
DATE OF OCCURRENCE	16	25	25	26	31	08	25	03	24	09	30	04	JAN 16		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.05	1.23	1.53	0.63	1.10	2.12	2.72	1.68	2.26	1.70	0.96	0.35	17.33	
	GREATEST 24-HOUR (IN.)	0.33	0.34	0.39	0.15	0.59	0.61	0.94	0.57	0.52	0.53	0.19	0.12	0.94	
	DATE OF OCCURRENCE	11-12	27-28	23	26	18	01-02	30-31	03-04	01	06-07	26-27	05	JUL 30-31	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	11	15	10	12	5	15	13	13	16	14	18	6	148	
PRECIPITATION 0.10	5	6	6	2	2	6	9	7	7	6	4	1	61		
PRECIPITATION 1.00	0	0	0	0	0	0	0	0	0	0	0	0	0		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	9.3	8.5	29.9	8.4	T	T	0.0	0.0	T	T	17.9	1.5	75.5	
	GREATEST 24-HOUR (IN.)	2.4	1.8	7.2	2.4	T	T	0.0	0.0	T	T	4.0	0.8	7.2	
	DATE OF OCCURRENCE	29	06	23	02	20+	26			25	26+	27	02	MAR 23	
	MAXIMUM SNOW DEPTH (IN.)	7	9	10	6	0	0	0	0	0	0	8	6	10	
	DATE OF OCCURRENCE	13+	12+	25	03+							28+	04+	MAR 25	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	4	3	10	3	0	0	0	0	0	0	6	0	26		

NORMALS, MEANS, AND EXTREMES KING SALMON (PAKN)

LATITUDE: 58° 41'N **LONGITUDE:** -156° 39'W **ELEVATION (FT):** GRND: 47 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	84	21.8	24.2	30.2	40.3	52.1	58.3	62.6	61.6	54.3	41.4	29.6	22.5	41.6
	HIGHEST DAILY MAXIMUM	67	53	57	56	69	85	88	86	84	74	67	56	50	88
	YEAR OF OCCURRENCE		2007	1991	1943	2005	2006	1953	1951	1968	1974	1954	1986	2007	JUN 1953
	MEAN OF EXTREME MAXS.	86	42.2	42.8	45.1	53.7	65.8	72.9	77.7	74.1	64.7	54.4	45.8	42.4	56.8
	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	85	7.3	9.8	13.6	24.1	34.0	40.6	46.4	46.5	39.3	26.7	15.4	7.5	25.9
	LOWEST DAILY MINIMUM	67	-48	-43	-42	-15	4	27	33	25	15	-12	-28	-38	-48
	YEAR OF OCCURRENCE		1989	2006	1971	1985	1945	2006	1993	1984	2003	1983	1988	2001	JAN 1989
	MEAN OF EXTREME MINS.	86	-22.7	-19.1	-11.1	5.6	24.3	32.8	38.4	35.6	25.5	6.5	-8.9	-19.8	7.3
	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	85	14.6	17.0	21.9	32.2	43.1	49.7	54.5	54.1	46.8	34.0	22.6	15.1	33.8
	MEAN WET BULB	24	16.3	17.9	21.0	30.1	38.8	46.3	51.2	50.9	44.4	31.5	21.3	17.8	32.3
	MEAN DEW POINT	24	13.9	14.8	17.7	26.5	35.1	43.1	49.2	49.0	42.0	29.2	19.7	16.0	29.7
	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
	HOURLY 03 LST	30	84	83	83	84	86	88	92	92	89	87	87	84	87
	HOURLY 09 LST	30	85	83	80	76	74	76	84	86	86	87	88	85	83
	HOURLY 15 LST	30	80	71	64	59	55	57	65	68	66	68	79	81	68
	HOURLY 21 LST	30	84	81	78	74	69	70	77	82	83	83	87	85	79
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	2.1	1.3	1.5	1.8	2.4	2.8	3.9	4.4	2.7	2.4	3.2	2.5	31.0
	THUNDERSTORMS	60	0.0	0.0	0.0	0.0	0.1	0.5	0.5	0.2	0.1	0.0	0.0	0.0	1.4
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	43	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)	26	29.53	29.61	29.66	29.69	29.78	29.81	29.87	29.81	29.66	29.58	29.53	29.46	29.67
	MEAN SEA-LEVEL PRES. (IN)	26	29.61	29.68	29.72	29.74	29.83	29.87	29.93	29.87	29.71	29.63	29.60	29.53	29.73
WINDS	MEAN SPEED (MPH)	26	9.9	10.4	10.6	10.4	10.0	9.4	8.9	9.1	9.7	9.4	9.6	9.7	9.8
	PREVAIL.DIR.(TENS OF DEGS)	13	01	36	36	09	21	20	21	21	17	36	36	36	01
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	56	67	47	46	55	40	43	37	41	53	41	45	67
	DIR. (TENS OF DEGS)		14	15	09	15	15	10	10	16	10	16	15	09	15
	YEAR OF OCCURRENCE		2009	2000	2009	2005	2008	2008	2009	2000	2005	2006	2007	2008	FEB 2000
	MAXIMUM 3-SECOND SPEED (MPH)	11	72	76	59	58	69	56	56	44	56	66	56	61	76
	DIR. (TENS OF DEGS)		16	15	09	16	15	10	09	23	10	16	10	11	15
YEAR OF OCCURRENCE		2009	2000	2009	2009	2008	2008	2009	2005	2005	2006	2002	2009	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)	67	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)	67	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)	67	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	15.4
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)	60	30.6	20.3	29.9	16.0	6.1	1.3	0.0	T	0.8	15.7	17.9	28.4	30.6
	YEAR OF OCCURRENCE		1993	1990	2009	1968	1985	1972		1998	2004	1990	2009	1993	JAN 1993
	MAXIMUM IN 24 HOURS (IN)	60	18.6	9.3	11.6	7.2	4.7	1.2	0.0	T	0.6	8.7	8.6	8.5	18.6
	YEAR OF OCCURRENCE'		1993	1962	2005	1999	2003	1972		1998	1956	1990	1948	1990	JAN 1993
	MAXIMUM SNOW DEPTH (IN)	59	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) 2009 KING SALMON (PAKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	.62	.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
2005	0.42	0.27	0.41	0.52	2.14	1.34	3.08	3.09	6.01	1.12	1.23	1.89	21.52
2006	1.43	1.25	0.85	2.17	1.04	2.21	2.06	5.64	3.60	3.94	0.41	1.18	25.78
2007	1.00	0.20	0.40	0.70	1.41	3.20	1.74	1.60	6.10	2.68	1.08	1.51	21.62
2008	1.26	0.38	0.77	1.09	0.60	1.34	2.53	1.62	3.30	2.70	0.74	1.69	18.02
2009	1.05	1.23	1.53	0.63	1.10	2.12	2.72	1.68	2.26	1.70	0.96	0.35	17.33
POR= 81 YRS	1.00	0.91	0.97	0.95	1.29	1.56	2.44	3.28	3.10	2.17	1.39	1.25	20.31

WBAN : 25503

AVERAGE TEMPERATURE (°F) 2009 KING SALMON (PAKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2005	23.2	23.6	29.0	31.1	47.6	53.7	57.3	56.4	49.1	35.1	10.7	27.1	37.0
2006	0.5	22.7	17.8	30.1	44.9	51.3	54.7	52.4	48.5	39.7	15.2	10.4	32.4
2007	10.9	21.3	5.7	38.4	43.2	50.6	55.3	56.9	49.6	34.8	31.4	18.5	34.7
2008	6.5	8.9	23.4	28.7	42.6	48.5	52.6	53.9	47.9	28.5	14.8	20.7	31.4
2009	10.7	16.0	17.9	32.2	45.5	50.6	56.7	52.5	47.1	38.8	17.1	23.9	34.1
POR= 85 YRS	14.6	17.0	21.9	32.2	43.1	49.7	54.5	54.1	46.8	34.1	22.6	15.1	33.8

HEATING DEGREE DAYS (base 65°F) 2009 KING SALMON (PAKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
2004-05	182	192	565	764	1052	1268	1288	1153	1109	1013	534	333	9453
2005-06	233	262	470	920	1622	1169	1997	1181	1458	1043	617	401	11373
2006-07	313	385	488	776	1485	1690	1672	1216	1829	792	669	425	11740
2007-08	297	249	453	929	1001	1436	1807	1621	1282	1084	685	489	11333
2008-09	376	338	505	1123	1499	1367	1673	1366	1455	976	597	428	11703
2009-	252	382	530	804	1426	1266							

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COOLING DEGREE DAYS (base 65°F) 2009 KING SALMON (PAKN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	1	3	0	0	0	0	4
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0

SNOWFALL (inches) 2009 KING SALMON (PAKN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	.3	2.6	.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
2004-05	0.0	0.0	0.8	0.4	7.9	22.8	2.8	4.8	21.8	6.9	0.0	0.0	68.2
2005-06	0.0	0.0	T	0.5	12.6	5.1	17.3	15.8	13.0	14.9	T	0.0	79.2
2006-07	0.0	0.0	0.0	2.6	3.1	20.7	7.0	2.7	5.8	0.7	0.6	0.0	43.2
2007-08	0.0	0.0	T	3.8	3.8	8.8	6.8	3.9	9.7	5.2	1.3	T	43.3
2008-09	0.0	0.0	T	2.1	10.4	12.3	9.3	8.5	29.9	8.4	T	T	80.9
2009-	0.0	0.0	T	T	17.9	1.5							
POR= 69 YRS	0.0	T	T	2.8	6.2	8.7	8.2	7.1	7.0	3.9	0.7	0.1	44.7

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 (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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2009

KING SALMON

ALASKA (PAKN)

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.

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