

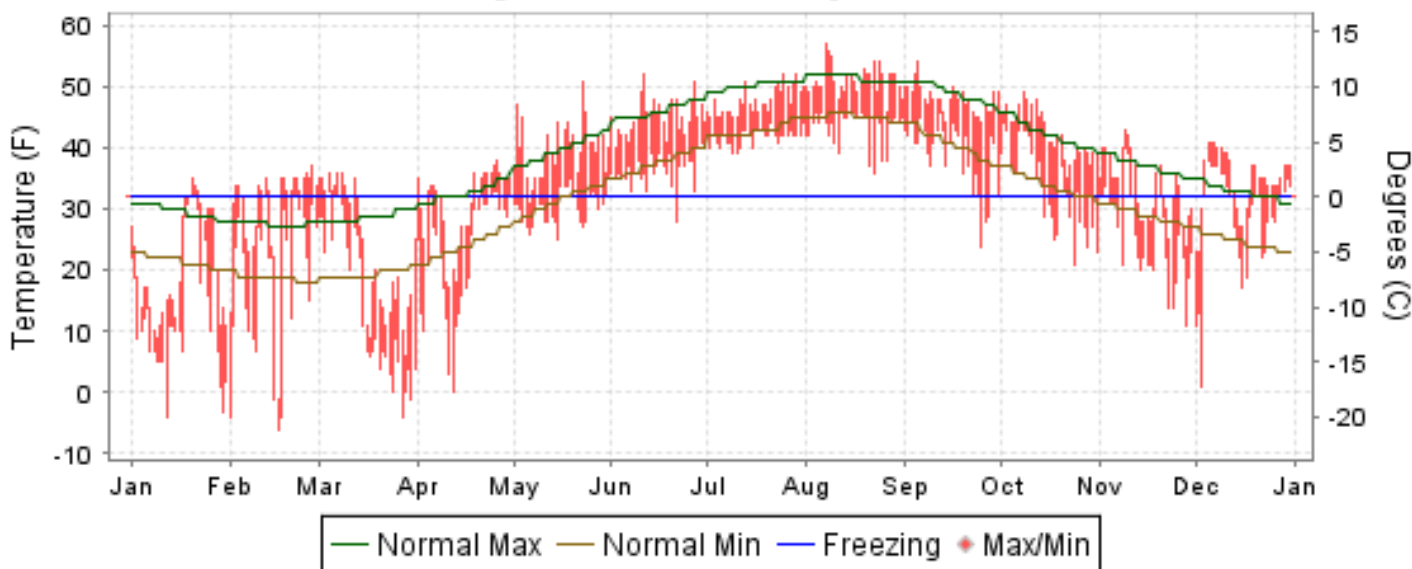


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

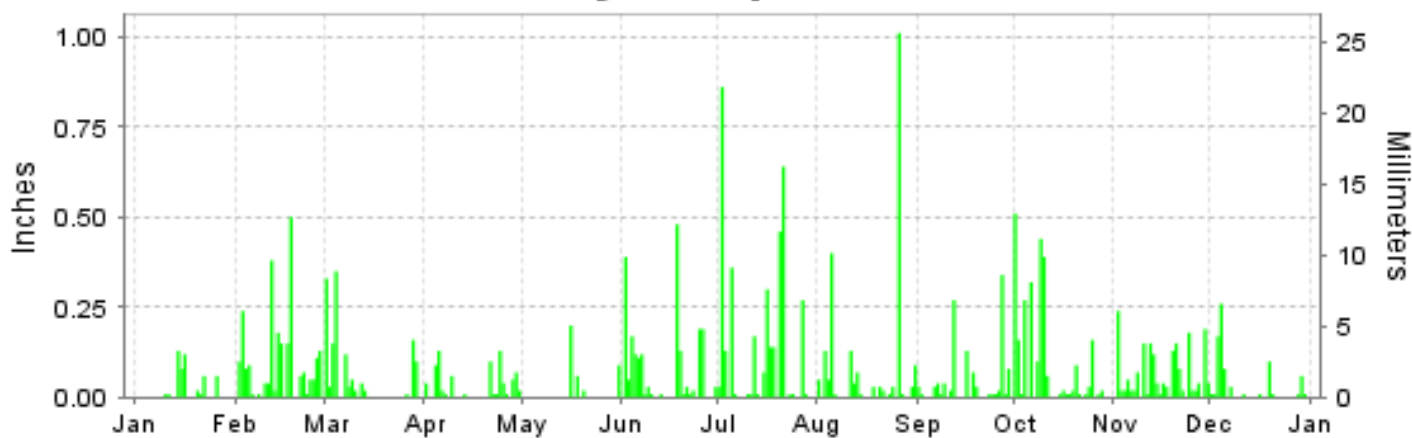
ISSN 0198-0513

ST PAUL ISLAND, ALASKA (PASN)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

ST PAUL ISLAND (PASN)

LATITUDE: 57° 9' N LONGITUDE: -170° 13' W ELEVATION (FT): GRND: 35 BARO: 27 TIME ZONE: ALASKA (UTC -9) WBAN: 25713

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	21.0	30.0	23.5	30.7	39.9	45.2	47.7	51.2	48.0	42.5	33.6	34.6	37.3	
	HIGHEST DAILY MAXIMUM	35	37	36	38	51	52	52	57	54	49	43	41	57	
	DATE OF OCCURRENCE	20	27	08+	26	23	11	29+	07	05	08	09	07+	AUG 07	
	MEAN DAILY MINIMUM	13.2	18.8	14.8	22.8	30.2	36.4	41.7	43.4	38.9	33.5	25.4	28.2	28.9	
	LOWEST DAILY MINIMUM	-4	-6	-4	0	25	28	39	36	24	21	11	1	-6	
	DATE OF OCCURRENCE	12	16	27	12	15	21	10+	22	25	24	28	03	FEB 16	
	AVERAGE DRY BULB	17.1	24.4	19.2	26.8	35.1	40.8	44.7	47.3	43.5	38.0	29.5	31.4	33.2	
	MEAN WET BULB	17.4		18.5	26.4	33.4		44.0	46.4	42.3	36.5	28.5			
	MEAN DEW POINT	14.6		15.5	24.9	31.6		43.3	45.5	40.0	33.6	24.7			
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	MAXIMUM <= 32°	2	10	21	14	1	0	0	0	0	0	14	8	70	
	MINIMUM <= 32°	31	28	30	28	25	1	0	0	6	14	27	21	211	
MINIMUM <= 0°	2	4	4	1	0	0	0	0	0	0	0	0	11		
H/C	HEATING DEGREE DAYS	1476	1129	1416	1140	922	719	623	543	638	829	1059	1034	11528	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	86	90	84	92	90	95	97	94	88	84	80	89	89	
	HOUR 03 LST	85	91	86	94	95	98	98	97	91	87	80	89	91	
	HOUR 09 LST	86	91	88	93	93	97	98	97	91	87	80	89	91	
	HOUR 15 LST	84	88	81	89	80	89	93	90	83	77	80	87	85	
	HOUR 21 LST	86	90	84	92	91	95	96	95	89	85	80	90	89	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	4	3	7	7	12	20	14	3	2	0	2	75	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	29.69	29.76	29.85	29.82	30.06		29.75	29.85	29.72	29.65	29.45	29.44		
	MEAN SEA-LEVEL PRESS. (IN.)	29.72		29.88	29.86	30.09		29.79	29.89	29.76	29.68	29.45	29.51		
WINDS	RESULTANT SPEED (MPH)	11.3	5.9	5.1	3.2	6.4		4.8	2.6	7.7	3.6				
	RES. DIR. (TENS OF DEGS.)	04	17	35	08	03		16	31	35	06				
	MEAN SPEED (MPH)	17.8	20.3	17.0	16.2	12.9	11.2	13.0	12.2	13.7	12.5		17.1		
	PREVAIL.DIR.(TENS OF DEGS.)	01	22	01	16	35	12	13	26	35	02	32	08	01	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	47	72	51	43	30	26	36	38	35	41	55	53	72	
	DIR. (TENS OF DEGS.)	32	26	36	03	05	14	32	07	16	19	26	06	26	
	DATE OF OCCURRENCE	16	25	28	09	30	18	22	26	27	10	11	03	FEB 25	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	56	91	63	49	36	32	47	48	43	53	69	63	91	
DIR. (TENS OF DEGS.)	32	27	24	03	05	14	13	07	15	06	25	10	27		
DATE OF OCCURRENCE	16	25	05	09	30	18	02	26	27	06	11	05	FEB 25		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.50	2.47	1.41	0.80	0.37	2.11	3.64	2.15	1.16	2.66	1.86	0.77	19.90	
	GREATEST 24-HOUR (IN.)	0.16	0.65	0.50	0.15	0.20	0.60	0.93	1.02	0.35	0.67	0.26	0.41	1.02	
	DATE OF OCCURRENCE	14-15	17-18	03-04	24-25	16	18-19	20-21	26-27	27-28	01-02	02-03	03-04	AUG 26-27	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	21	13	16	4	19	19	18	18	21	25	13	196	
PRECIPITATION 0.10	2	9	6	3	1	9	10	4	3	8	8	3	66		
PRECIPITATION 1.00	0	0	0	0	0	0	0	1	0	0	0	0	1		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	8.6	17.7	9.0	4.1	T	0.0	0.0	0.0	T	0.7	11.0	4.0	55.1	
	GREATEST 24-HOUR (IN.)	2.7	4.0	4.0	1.0	T	0.0	0.0	0.0	T	0.6	1.9	2.1	4.0	
	DATE OF OCCURRENCE	16	18	28	09	30+				26+	24	29+	03	MAR 28	
	MAXIMUM SNOW DEPTH (IN.)	8	13	5	5	T	0	0	0	0	T	3	5	13	
	DATE OF OCCURRENCE	17	19+	29	03+	05+					28+	27+	04	FEB 19+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	3	6	3	1	0	0	0	0	0	0	3	2	18		

NORMALS, MEANS, AND EXTREMES

ST PAUL ISLAND (PASN)

LATITUDE: 57° 9' N LONGITUDE: -170° 13' W ELEVATION (FT): GRND: 35 BARO: 27 TIME ZONE: ALASKA (UTC -9) WBAN: 25713

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	29.8	27.6	28.8	32.8	39.8	46.2	50.3	51.6	49.2	42.5	37.1	32.9	39.1
	MEAN DAILY MAXIMUM	63	29.6	27.4	29.0	32.7	39.4	45.7	50.0	51.4	48.9	42.2	37.0	32.6	38.8
	HIGHEST DAILY MAXIMUM	92	48	44	50	49	59	62	65	66	61	54	50	52	66
	YEAR OF OCCURRENCE		1916	1917	1980	1993	1997	2000	2008	1987	1979	1916	1915	1936	AUG 1987
	MEAN OF EXTREME MAXS.	63	38.8	37.2	37.8	40.2	46.6	53.0	56.6	56.3	53.3	48.5	43.2	40.1	46.0
	NORMAL DAILY MINIMUM	30	21.5	18.9	19.5	24.0	31.5	37.6	43.0	45.1	40.7	34.1	29.1	24.7	30.8
	MEAN DAILY MINIMUM	63	21.5	18.7	19.9	24.4	31.3	37.2	42.7	44.8	40.8	33.9	29.2	24.4	30.7
	LOWEST DAILY MINIMUM	92	-26	-16	-19	-8	8	16	28	29	22	12	4	-5	-26
	YEAR OF OCCURRENCE		1919	1991	1971	1976	1971	1985	1961	1981	1992	1983	2008	1916	JAN 1919
	MEAN OF EXTREME MINS.	63	4.2	1.5	2.3	9.5	23.0	29.6	36.0	37.3	30.2	23.3	16.5	8.7	18.5
	NORMAL DRY BULB	30	25.7	23.3	24.2	28.4	35.7	41.9	46.7	48.4	45.0	38.3	33.1	28.8	35.0
	MEAN DRY BULB	63	25.5	23.1	24.5	28.6	35.4	41.6	46.4	48.1	44.8	38.0	33.1	28.5	34.8
	MEAN WET BULB	25	24.0	23.2	23.7	27.8	34.1	40.7	45.7	47.5	44.0	36.9	31.4	27.5	33.9
	MEAN DEW POINT	25	21.6	20.6	21.7	25.6	32.4	39.4	45.0	46.8	42.5	34.4	28.8	25.2	32.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	MAXIMUM <= 32	30	15.9	15.9	17.5	11.9	2.2	0.0	0.0	0.0	0.0	0.6	5.0	11.4	80.4
	MINIMUM <= 32	30	25.5	25.3	28.4	25.9	17.1	3.3	0.3	0.1	2.6	11.8	19.3	23.5	183.1
MINIMUM <= 0	30	1.1	2.8	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.7	
H/C	NORMAL HEATING DEG. DAYS	30	1220	1174	1250	1097	911	693	569	518	603	828	957	1122	10942
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30					87	90	93	93	88	82	82		
	HOURLY 03 LST	30	83	85	86	87	90	95	96	95	90	84	82	84	88
	HOURLY 09 LST	30	83	85	87	87	89	92	95	95	89	84	82	84	88
	HOURLY 15 LST	30	83	84	83	81	81	83	88	89	83	78	79	83	83
	HOURLY 21 LST	30					87	89	93	93	89	83	82		
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	45	2.3	2.8	3.8	3.6	6.8	10.7	12.9	11.7	3.2	1.0	1.1	2.0	61.9
	THUNDERSTORMS	57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	62	6.6	6.4	6.3	6.6	7.1	7.3	7.5	7.4	7.0	6.8	6.7	6.9	6.9
	MIDNIGHT-MIDNIGHT (OKTAS)	24	6.3	6.1	6.1	6.5	7.0	7.3	7.7	7.6	7.0	6.8	6.7	6.8	6.8
	MEAN NO. DAYS WITH: CLEAR	66	2.3	2.6	3.2	2.2	1.1	1.1	0.6	0.7	0.7	0.7	1.2	1.5	17.9
	PARTLY CLOUDY	66	5.6	5.9	7.2	5.8	3.8	3.0	2.2	2.6	5.3	7.2	6.3	5.3	60.2
	CLOUDY	66	23.1	19.8	20.6	22.0	26.1	25.8	27.7	27.2	23.6	22.7	22.1	23.8	284.5
PR	MEAN STATION PRESSURE(IN)	26	29.49	29.57	29.70	29.74	29.81	29.84	29.90	29.84	29.69	29.66	29.56	29.42	29.69
	MEAN SEA-LEVEL PRES. (IN)	26	29.58	29.62	29.74	29.78	29.84	29.87	29.93	29.87	29.72	29.69	29.61	29.48	29.73
WINDS	MEAN SPEED (MPH)	26	18.6	18.8	17.1	16.2	14.1	12.6	11.5	12.4	14.7	16.1	17.7	17.8	15.6
	PREVAIL.DIR.(TENS OF DEGS)	23	01	06	36	36	36	05	26	24	35	36	36	02	01
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	63	72	55	56	45	40	37	52	48	59	58	59	72
	DIR. (TENS OF DEGS)		10	26	27	25	20	31	01	25	19	27	09	09	26
	YEAR OF OCCURRENCE		2000	2009	1998	2001	1997	2008	2003	2000	2005	2005	2000	2001	FEB 2009
	MAXIMUM 3-SECOND SPEED (MPH)	13	75	91	64	68	54	53	47	61	58	71	69	69	91
	DIR. (TENS OF DEGS)		11	27	27	25	19	31	13	26	20	28	25	08	27
YEAR OF OCCURRENCE		2008	2009	1998	2001	1997	2008	2009	2000	2005	2005	2009	2001	FEB 2009	
PRECIPITATION	NORMAL (IN)	30	1.74	1.25	1.12	1.12	1.21	1.41	1.91	2.96	2.79	2.70	2.87	2.13	23.21
	MAXIMUM MONTHLY (IN)	87	8.26	5.69	3.28	3.21	3.11	3.59	5.85	9.32	6.02	6.21	5.40	4.50	9.32
	YEAR OF OCCURRENCE		1997	1964	1973	1979	1931	1958	1950	1953	1924	1987	1993	2000	AUG 1953
	MINIMUM MONTHLY (IN)	87	0.25	0.02	0.08	0.08	0.13	0.01	0.32	0.17	0.62	0.96	0.67	0.08	0.01
	YEAR OF OCCURRENCE		1918	1984	1960	1992	2001	1995	1931	1977	1977	1977	1939	1933	JUN 1995
	MAXIMUM IN 24 HOURS (IN)	87	7.59	1.51	1.26	2.09	1.27	1.48	1.92	2.00	1.74	1.93	1.76	1.15	7.59
	YEAR OF OCCURRENCE		1997	1932	1973	2008	1931	1949	1950	1984	1993	1949	1925	1930	JAN 1997
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	18.6	14.6	16.0	13.9	14.3	12.7	14.7	17.7	18.8	20.9	22.5	21.1	205.8
PRECIPITATION >= 1.00	30	0.1	0.0	*	*	0.0	*	0.1	0.3	0.3	0.1	0.1	0.0	1.0	
SNOWFALL	NORMAL (IN)	30	10.0	9.5	10.0	6.1	1.6	0.1	0.0	0.0	0.*	2.2	7.6	9.2	56.3
	MAXIMUM MONTHLY (IN)	84	50.6	55.8	31.4	19.1	12.7	2.0	T	0.0	1.0	14.0	27.3	33.9	55.8
	YEAR OF OCCURRENCE		2002	1964	1973	1928	1971	1927	2008		1965	1948	1964	2006	FEB 1964
	MAXIMUM IN 24 HOURS (IN)	83	17.7	13.6	12.4	10.0	4.0	2.0	T	0.0	1.0	10.9	13.4	11.4	17.7
	YEAR OF OCCURRENCE'		2002	1964	1973	1966	1935	1927	2008		1965	1978	1964	2001	JAN 2002
	MAXIMUM SNOW DEPTH (IN)	58	25	37	50	32	18	2	0	0	0	11	18	26	50
	YEAR OF OCCURRENCE		2007	2000	1949	2000	1971	1975				1978	1964	2006	MAR 1949
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.5	3.1	2.7	1.9	0.3	0.0	0.0	0.0	0.0	0.3	2.4	3.0	17.2

PRECIPITATION (inches) 2009 ST PAUL ISLAND (PASN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	1.13	0.37	0.99	0.76	0.83	3.05	1.20	3.78	2.82	2.85	2.06	0.84	20.68
1981	1.58	0.52	0.79	0.54	1.45	1.15	0.85	2.50	1.07	2.48	2.63	1.01	16.57
1982	0.95	0.38	1.47	0.65	1.40	1.08	1.82	1.64	2.31	1.99	3.01	2.17	18.87
1983	0.28	1.09	0.14	2.43	1.08	0.55	2.39	3.44	2.34	2.22	3.32	3.98	23.26
1984	1.22	0.02	0.31	0.48	0.82	0.85	0.91	4.09	2.93	1.76	3.77	3.54	20.70
1985	2.86	0.84	1.56	1.23	2.04	1.91	1.04	2.27	3.75	4.22	4.56	2.41	28.69
1986	1.11	0.39	0.09	0.83	1.17	1.23	3.25	5.50	4.81	2.45	3.61	3.19	27.63
1987	3.36	1.99	2.02	1.53	1.47	2.94	3.13	3.46	4.69	6.21	1.24	3.28	35.32
1988	1.38	1.40	0.28	1.32	1.74	1.73	0.36	3.93	2.59	2.58	3.53	3.37	24.21
1989	2.12	2.56	0.53	2.33	1.91	0.95	2.00	1.81	3.61	2.94	3.92	1.77	26.45
1990	2.50	2.45	1.25	0.31	1.56	0.53	2.01	3.43	3.38	3.69	4.39	2.87	28.37
1991	1.45	1.16	2.88	0.22	1.00	1.10	2.02	3.99	4.95	2.47	1.60	2.17	25.01
1992	1.18	1.81	1.05	0.08	0.88	2.51	2.80	5.12	3.50	2.89	2.51	2.72	27.05
1993	2.28	1.68	1.27	0.89	1.52	0.86	2.05	3.31	4.92	3.12	5.40	0.97	28.27
1994	1.55	2.62	1.54	0.30	0.66	1.65	2.93	3.99	3.63	1.87	3.95	2.29	26.98
1995	0.74	1.59	0.48	2.54	0.68	0.01	0.93	1.91	2.05	3.12	1.33	1.08	16.46
1996	1.63	1.79	0.94	0.17	0.92	1.95	2.71	2.74	2.85	1.04	1.84	.87	19.45
1997	8.26	0.75	0.34	0.34	1.77	1.02	1.94	3.24	2.21	1.32	4.04	0.82	26.05
1998	0.46	0.11	1.58	2.37	2.79	2.40	1.22	3.60	2.44	3.24	3.18	3.28	26.67
1999	1.68	0.84	2.15	1.73	0.51	1.73	3.16	3.75	2.47	2.64	2.65	0.69	24.00
2000	2.37	1.88	0.76	1.37	0.52	2.34	2.16	2.78	2.49	3.14	4.26	4.50	28.57
2001	1.76	2.32	0.61	1.77	0.13	0.77	3.24	3.85	3.61	4.77	2.37	1.78	26.98
2002	3.31	1.38	1.39	0.93	2.04	0.61	0.97	1.83	2.80	3.68	2.52	2.88	24.34
2003	1.63	1.04	0.43	1.34	0.59	1.37	0.67	1.61	0.78	1.23	2.36	2.45	15.50
2004	0.56	0.57	0.92	0.77	1.10	0.48	1.37	1.90	2.40	5.74	3.65	1.77	21.23
2005	1.79	1.56	1.98	0.83	0.76	0.41	0.97	3.45	5.65	2.92	2.01	2.82	25.15
2006	1.56	1.70	1.72	1.33	0.92	0.37	0.89	3.78	2.31	3.74	1.25	2.44	22.01
2007	1.98	0.66	0.20	0.45	0.75	1.64	0.95	3.11	3.65	3.88	2.34	1.66	21.27
2008	1.68	0.78	1.37	1.15	0.57	1.45	2.21	0.88	1.16	3.70	1.40	2.60	18.95
2009	0.50	2.47	1.41	0.80	0.37	2.11	3.64	2.15	1.16	2.66	1.86	0.77	19.90
POR= 63 YRS	1.82	1.34	1.28	1.19	1.22	1.31	2.01	3.03	2.79	2.94	2.72	2.04	23.69

WBAN : 25713

AVERAGE TEMPERATURE (°F) 2009 ST PAUL ISLAND (PASN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	27.2	23.7	31.6	30.9	38.1	44.5	47.5	46.5	44.2	37.1	33.9	29.9	36.3
1981	27.9	23.9	30.7	34.3	40.4	43.0	47.8	47.3	44.3	37.7	30.8	28.1	36.4
1982	26.4	27.6	29.5	28.9	35.2	41.4	44.2	48.4	42.8	38.3	34.8	29.6	35.6
1983	22.4	28.3	27.8	31.8	36.9	43.7	47.3	48.1	44.1	36.9	30.8	34.4	36.0
1984	26.8	9.9	24.7	26.0	33.5	43.3	46.2	48.9	46.1	39.0	34.5	32.8	34.3
1985	33.8	23.5	21.9	20.2	34.8	38.7	45.8	47.5	44.4	37.2	37.2	33.9	34.9
1986	22.1	25.7	20.4	27.9	35.9	42.5	47.3	47.8	46.5	39.1	35.2	31.7	35.2
1987	27.4	27.9	29.4	29.5	36.6	42.9	47.7	49.3	43.4	38.5	28.1	25.9	35.6
1988	27.3	24.2	17.8	25.8	35.1	42.2	47.7	48.7	44.9	39.2	29.5	27.5	34.2
1989	22.3	34.1	30.4	33.8	37.8	42.6	47.3	49.8	47.1	40.2	30.2	29.4	37.1
1990	27.0	19.6	26.3	30.6	37.7	43.3	47.8	48.9	44.1	38.2	33.5	31.9	35.7
1991	25.0	9.6	27.6	27.9	36.4	41.9	48.5	49.3	45.8	40.7	33.7	26.7	34.4
1992	24.6	25.1	20.7	27.8	33.5	42.4	45.8	47.7	42.2	37.3	30.9	27.0	33.8
1993	22.5	26.3	27.1	33.4	37.4	43.1	49.4	50.9	46.0	41.0	36.4	27.8	36.8
1994	26.7	29.4	17.6	25.7	33.9	42.1	47.7	48.3	44.6	37.2	32.5	28.2	34.5
1995	21.7	21.8	20.5	26.6	36.6	41.2	47.2	49.8	47.3	38.5	32.8	32.8	34.7
1996	30.6	26.5	33.0	31.7	39.6	45.1	48.4	50.3	45.1	39.6	36.2	31.4	38.1
1997	25.7	25.3	23.3	30.3	38.7	42.9	48.4	49.7	46.5	38.2	33.2	24.2	35.5
1998	22.1	21.5	29.7	31.6	35.9	42.2	47.9	47.9	44.8	37.9	33.0	28.3	35.2
1999	26.3	24.4	23.6	28.2	34.4	40.9	45.7	46.1	45.2	36.0	31.9	17.3	33.3
2000	17.7	30.5	27.4	31.0	35.9	42.9	47.6	49.4	45.1	39.5	36.3	34.7	36.5
2001	29.5	30.6	28.4	32.1	34.2	41.8	45.7	48.5	45.2	37.0	34.4	22.0	35.8
2002	23.1	17.5	31.2	32.6	38.8	43.4	47.5	50.1	46.9	40.9	35.0	30.1	36.4
2003	29.3	28.2	28.7	35.3	37.9	44.3	47.8	49.2	46.3	40.0	35.5	30.1	37.7
2004	28.0	27.6	26.2	31.1	40.1	45.1	49.5	51.3	46.9	41.1	34.2	29.2	37.5
2005	33.5	27.4	28.5	27.7	38.1	48.5	52.5	52.4	47.9	40.4	31.0	30.5	38.2
2006	17.5	26.5	30.6	27.1	35.0	41.2	47.7	48.4	44.6	39.1	34.4	23.6	34.6
2007	20.2	30.2	17.6	29.5	32.9	40.5	46.3	49.2	47.8	39.0	33.7	28.5	34.6
2008	25.3	16.6	16.3	27.8	33.5	39.9	44.3	47.1	45.9	35.4	28.5	29.4	32.5
2009	17.1	24.4	19.2	26.8	35.1	40.8	44.7	47.3	43.5	38.0	29.5	31.4	33.2
POR= 63 YRS	25.5	23.1	24.5	28.6	35.4	41.6	46.4	48.1	44.8	38.0	33.1	28.5	34.8

HEATING DEGREE DAYS (base 65°F) 2009 ST PAUL ISLAND (PASN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	527	541	613	839	1018	1138	1188	1044	1093	1074	915	702	10692
1982-83	638	507	661	819	900	1092	1313	1019	1147	988	868	632	10584
1983-84	541	519	620	862	1018	942	1178	1592	1245	1166	968	646	11297
1984-85	579	492	561	796	909	993	959	1154	1326	1338	926	783	10816
1985-86	589	537	612	852	824	957	1323	1093	1378	1104	895	670	10834
1986-87	543	527	546	796	885	1029	1160	1034	1098	1057	871	656	10202
1987-88	526	480	642	816	1097	1205	1160	1179	1454	1170	916	677	11322
1988-89	530	499	595	792	1059	1155	1319	859	1067	930	834	666	10305
1989-90	543	463	532	763	1037	1093	1172	1265	1193	1027	840	648	10576
1990-91	525	494	619	825	935	1023	1232	1548	1153	1105	880	685	11024
1991-92	505	483	570	746	935	1181	1243	1150	1367	1109	966	672	10927
1992-93	587	529	680	853	1014	1172	1309	1077	1170	945	849	648	10833
1993-94	477	431	564	737	850	1146	1181	990	1459	1171	958	681	10645
1994-95	530	510	607	855	967	1133	1335	1203	1370	1146	875	707	11238
1995-96	546	463	522	813	959	991	1061	1112	986	995	781	590	9819
1996-97	507	451	589	780	857	1034	1209	1104	1289	1035	808	654	10317
1997-98	511	464	546	827	948	1259	1324	1210	1092	996	896	676	10749
1998-99	523	523	599	834	952	1131	1191	1130	1278	1098	941	716	10916
1999-00	592	578	589	892	987	1471	1457	995	1157	1014	896	654	11282
2000-01	535	475	587	784	853	932	1095	956	1130	981	947	691	9966
2001-02	591	505	589	860	912	1325	1291	1325	1041	963	806	643	10851
2002-03	534	455	534	740	893	1075	1100	1024	1118	883	832	615	9803
2003-04	524	486	555	766	876	1076	1142	1079	1198	1006	764	589	10061
2004-05	476	418	535	736	917	1104	972	1045	1122	1111	827	489	9752
2005-06	379	383	508	756	1015	1063	1463	1070	1060	1128	922	705	10452
2006-07	512	508	606	797	910	1277	1380	966	1466	1058	988	725	11193
2007-	573	485	510	799	933	1124							
2007-08	573	485	510	799	933	1124	1226	1395	1504	1109	971	747	11376
2008-09	636	548	567	911	1087	1094	1476	1129	1416	1140	922	719	11645
2009-	623	543	638	829	1059	1034							

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COOLING DEGREE DAYS (base 65°F) 2009 ST PAUL ISLAND (PASN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	0	0	0	0	0	0	0	0	0
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	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	0	0	0	0	0	0
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	0	0	0	0	0	0	0
1994	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
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 ST PAUL ISLAND (PASN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1981-82	0.0	0.0	0.0	0.9	9.1	4.8	2.1	1.5	5.8	3.0	T	0.0	27.2
1982-83	0.0	0.0	T	0.2	4.0	10.7	2.9	8.4	1.2	5.3	0.2	0.0	32.9
1983-84	0.0	0.0	T	4.8	7.4	1.7	6.5	0.2	3.0	3.0	3.3	0.0	29.9
1984-85	0.0	0.0	0.0	2.9	3.4	3.7	4.5	7.8	10.1	13.3	2.2	0.7	48.6
1985-86	0.0	0.0	0.0	1.7	2.5	3.7	12.6	3.2	1.1	4.8	1.9	0.0	31.5
1986-87	0.0	0.0	0.0	T	3.6	4.9	13.5	16.1	13.2	3.3	2.4	0.0	57.0
1987-88	0.0	0.0	T	0.9	10.3	18.6	6.5	7.0	4.9	11.7	1.9	0.0	61.8
1988-89	0.0	0.0	0.0	2.8	25.7			6.8	3.6	5.5	1.4	0.0	
1989-90	0.0	0.0	0.0	0.7	18.2	10.6	23.4	25.1	16.6	2.9	0.1	0.0	97.6
1990-91	0.0	0.0	0.2	3.3	9.7	7.2	7.3	3.9	12.1	2.7	1.7	0.0	48.1
1991-92	0.0	0.0	0.0	0.8	4.3	19.0	13.1	7.8	15.2	1.5	0.5	0.0	62.2
1992-93	0.0	0.0	T	2.0	10.6	6.0	10.0	16.7	6.3	4.6	0.7	0.0	56.9
1993-94	0.0	0.0	T	T	4.1	13.3	5.1	3.7	17.7	5.7	3.6	0.0	53.2
1994-95	0.0	0.0	T	T	8.9	6.4	10.0	15.1	4.6	9.9	0.3	T	55.2
1995-96	0.0	0.0	0.0	0.5	4.3	2.4	7.5	9.7	3.6	0.8	T	T	28.8
1996-97	0.0	0.0	T	.1	5.5	10.4							
1997-98													
1998-99		0.0	T	4.0	10.8	24.4	19.7	9.0	29.8	13.1	0.1	0.0	
1999-00	0.0	0.0	0.0	6.3	9.6	10.7	26.9	22.3	8.3	13.3	T	T	97.4
2000-01	0.0	0.0	0.0	T	2.5	6.9	7.4	14.1	3.2	2.3	0.7	0.0	37.1
2001-02	0.0	0.0	0.0	2.7	7.2	28.4	50.6	28.7	6.6	1.9	T	0.0	126.1
2002-03	0.0	0.0	0.0	1.1	6.4	11.3	15.8	12.6	0.9	3.4	0.6	0.0	52.1
2003-04	0.0	0.0	0.0	0.6	13.8	19.3	13.6	11.9	11.3	5.0	0.0	0.0	75.5
2004-05	0.0	0.0	T	1.3	12.0	16.5	3.7	12.8	22.9	11.6	0.2	0.0	81.0
2005-06	0.0	0.0	T	3.7	11.1	15.7	33.7	23.2	11.5	18.4	1.7	0.0	119.0
2006-07	0.0	0.0	0.0	4.6	2.2	33.9	28.6	3.7	2.9	6.7	0.8	0.0	83.4
2007-	0.0	0.0	0.0	3.8	5.9	12.2							
2007-08	0.0	0.0	0.0	3.8	5.9	12.2	16.7	12.0	11.7	4.4	2.4	T	69.1
2008-09	T	0.0	0.0	4.9	8.3	7.3	8.6	17.7	9.0	4.1	T	0.0	59.9
2009-	0.0	0.0	T	0.7	11.0	4.0							
POR= 59 YRS	T	0.0	T	2.7	7.3	10.4	12.1	10.6	9.9	6.1	1.9	0.1	61.1

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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. 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 EIGHTS(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

ST. PAUL ISLAND

ALASKA (PASN)

St. Paul Island, one of the Pribilof group, is located in the central-southeast Bering Sea area. The climate is typically maritime, resulting in considerable cloudiness, heavy fog, high humidity, and rather well restricted daily temperature ranges. Humidities remain uniformly high from May to late September, and during the summer period there is almost continuous low cloudiness and occasional heavy fog. The differences between the high and low temperatures for the entire year are only slightly above 7 degrees, and the greatest monthly variation in March is slightly less than 12 degrees. Temperatures remain on the cool side even during the summer with extreme highs usually around the middle 50s. Although record low readings fall well below the zero mark, such extremely cold days are rather rare. There are only five days each winter with temperatures falling below the zero mark. The climatic environment makes the Pribilofs ideal for their numerous summer inhabitants, the Alaskan Fur Seals.

In spite of an environment of high humidities, precipitation on St. Paul Island is surprisingly light. The annual average of near 24 inches is slightly below the average for Alaska as a whole. April is generally the driest month, with a gradual increase of precipitation until a monthly total of over 3 inches is reached during August, September, and October. This is followed by a gradual decrease during the succeeding months until the return of April.

Frequent windy periods are characteristic of the island area throughout the year. Frequent storms occur from October to April, and these often are accompanied by gale-force winds to produce general blizzard conditions. Under the influence of prolonged north and northeasterly winds between January and April, the ice pack occasionally moves south to surround the island. During recent years, the southward limit of this movement has been between St. Paul and St. George Islands, some 40 miles to the southeast of St. Paul.

Thunderstorms are extremely rare on St. Paul Island.

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