

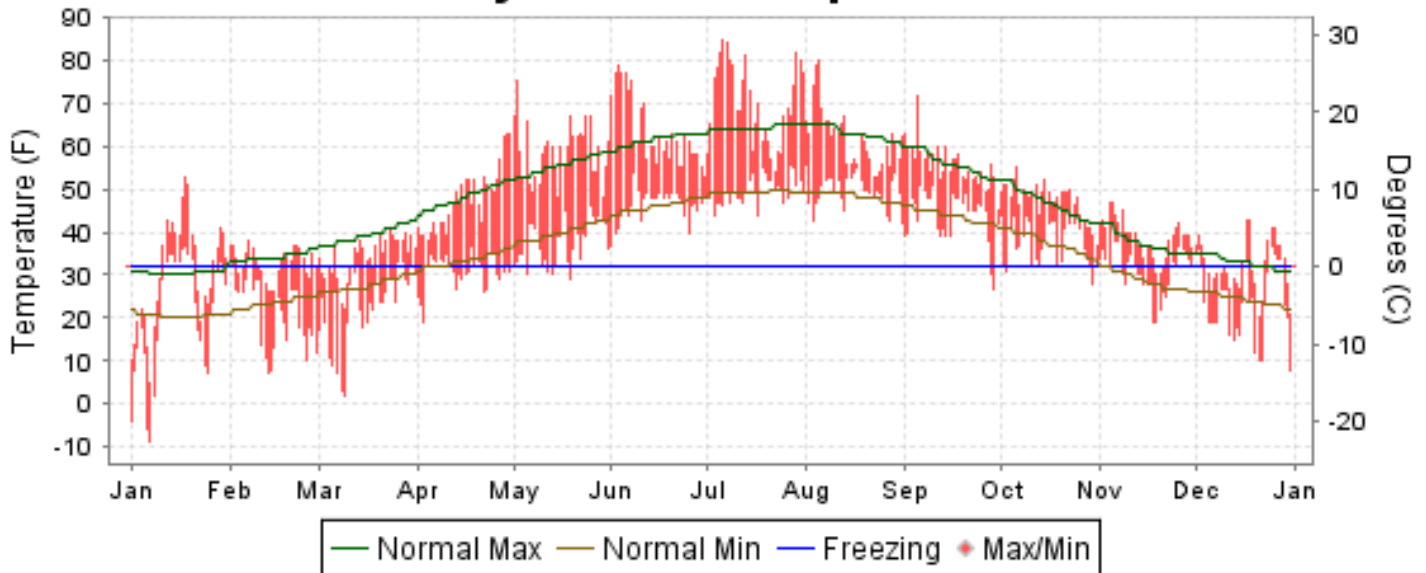


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

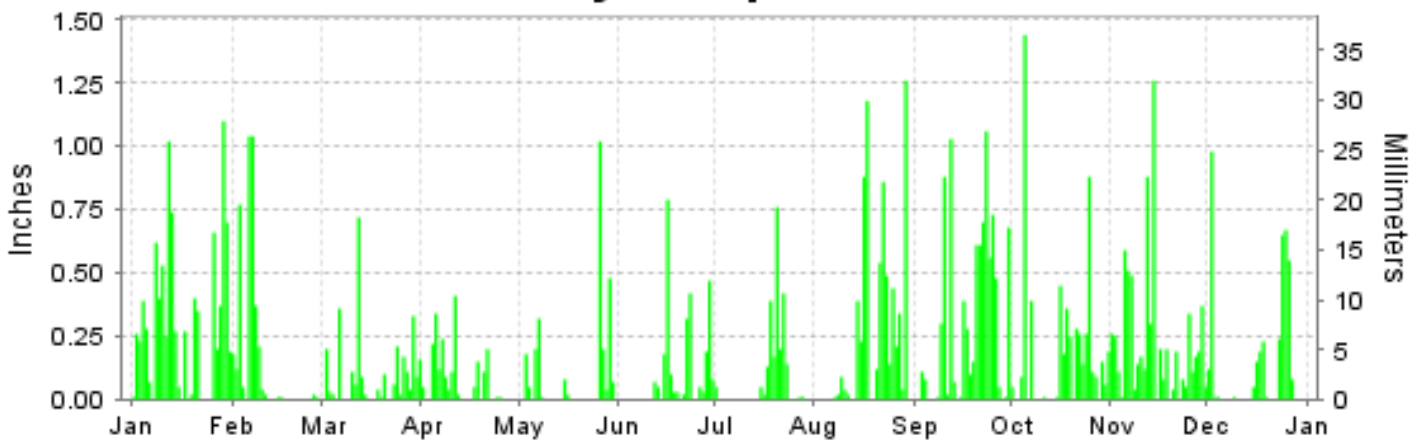
ISSN 0197-9760

## JUNEAU, ALASKA (PAJN)

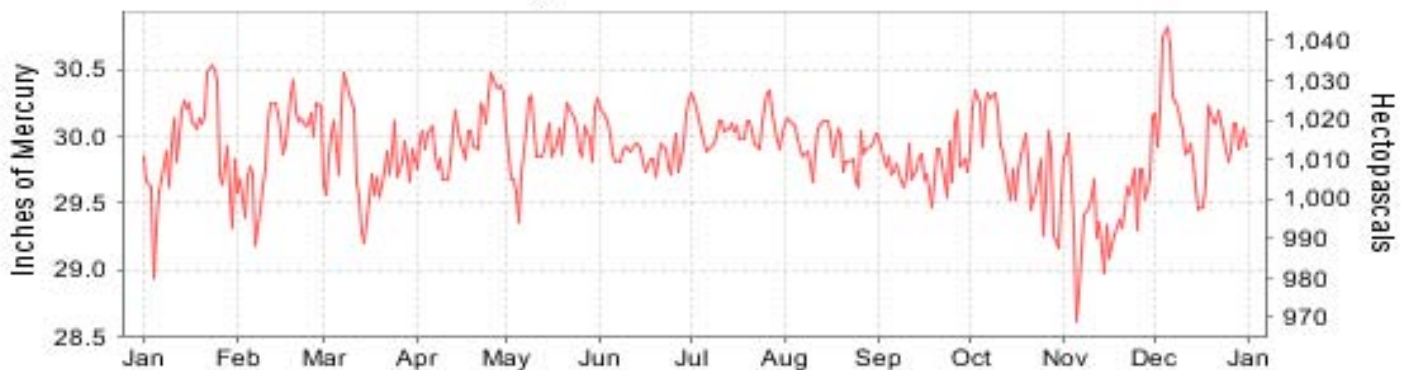
### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## JUNEAU (PAJN)

LATITUDE: 58° 21'N      LONGITUDE: -134° 34'W      ELEVATION (FT): GRND: 22      BARO: 40      TIME ZONE: ALASKA (UTC -9)      WBAN: 25309

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.6	32.8	34.3	47.6	58.8	63.4	70.2	62.0	55.7	47.4	38.8	32.2	47.8	
	HIGHEST DAILY MAXIMUM	53	38	41	63	75	79	85	80	72	55	47	43	85	
	DATE OF OCCURRENCE	18	07	23	30+	02	03	06	05	05	06	05+	18+	JUL 06	
	MEAN DAILY MINIMUM	21.0	21.3	22.7	30.8	37.3	46.3	49.6	49.7	43.8	37.8	31.1	23.6	34.6	
	LOWEST DAILY MINIMUM	-9	7	2	19	29	37	44	42	27	28	19	8	-9	
	DATE OF OCCURRENCE	07	13	09	03	19	01	17+	31	29	30	19+	31	JAN 07	
	AVERAGE DRY BULB	25.8	27.1	28.5	39.2	48.1	54.9	59.9	55.9	49.8	42.6	35.0	27.9	41.2	
	MEAN WET BULB	24.6	26.0	27.1	35.9	43.0	50.1	54.8	52.6	47.8	40.8	34.0	27.0	38.6	
	MEAN DEW POINT	20.6	22.2	22.5	31.3	35.9	45.5	50.3	50.2	45.8	37.0	32.3	24.9	34.9	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	1	8	15	3	1	0	0	0	0	28
	MAXIMUM <= 32°	15	12	10	0	0	0	0	0	0	0	3	17	57	
MINIMUM <= 32°	21	26	29	20	7	0	0	0	2	8	17	24	154		
MINIMUM <= 0°	3	0	0	0	0	0	0	0	0	0	0	0	3		
H/C	HEATING DEGREE DAYS	1210	1057	1123	770	518	296	156	276	450	685	892	1141	8574	
	COOLING DEGREE DAYS	0	0	0	0	0	0	6	0	0	0	0	0	6	
RH	MEAN (PERCENT)	81	82	78	77	67	73	74	84	87	83	89	89	80	
	HOUR 03 LST	83	84	85	92	84	89	88	91	92	85	90	91	88	
	HOUR 09 LST	81	84	80	76	63	73	73	84	89	84	91	90	81	
	HOUR 15 LST	78	75	65	58	48	59	58	75	78	78	88	87	71	
	HOUR 21 LST	81	84	80	82	71	75	75	85	90	84	89	90	82	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	4	2	1	0	0	0	1	1	3	4	1	3	20	
	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.)	29.92	29.94	29.82	30.03	29.97	29.91	30.07	29.93	29.79	29.83	29.45	30.04	29.89	
	MEAN SEA-LEVEL PRESS. (IN.)	29.94	29.97	29.85	30.06	30.00	29.94	30.10	29.96	29.82	29.86	29.47	30.07	29.92	
WINDS	RESULTANT SPEED (MPH)	5.7	4.6	5.9	2.5	2.6	1.3	1.0	4.1	5.4	4.9	7.8	3.8	4.1	
	RES. DIR. (TENS OF DEGS.)	09	10	10	12	11	13	11	10	10	10	10	10	11	
	MEAN SPEED (MPH)	6.8	5.7	7.3	5.5	5.5	5.0	4.7	6.3	6.7	5.9	8.6	4.3	6.0	
	PREVAIL.DIR.(TENS OF DEGS.)	09	11	11	11	11	10	09	10	11	11	11	07	11	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	36	36	26	25	25	21	31	35	33	48	32	48	
	DIR. (TENS OF DEGS.)	12	11	11	11	13	11	11	11	11	10	12	13	12	
	DATE OF OCCURRENCE	30	07	26	17	03	27	19	29	10	25	14	17	NOV 14	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	46	46	44	33	32	35	30	39	48	44	62	43	62	
DIR. (TENS OF DEGS.)	11	11	12	11	11	11	10	11	11	11	11	12	11		
DATE OF OCCURRENCE	30	07	26	17	26	27	07	29	10	25	14	17	NOV 14		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	9.38	3.89	2.95	2.17	2.67	2.83	2.35	7.30	8.92	5.65	7.20	3.95	59.26	
	GREATEST 24-HOUR (IN.)	1.42	1.49	0.73	0.47	1.04	0.92	0.83	1.37	1.17	1.52	1.41	0.98	1.52	
	DATE OF OCCURRENCE	29-30	06-07	12-13	10-11	26-27	15-16	19-20	16-17	22-23	04-05	13-14	02	OCT 04-05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	24	14	21	16	12	15	12	19	23	20	27	15	218	
PRECIPITATION 0.10	20	7	10	9	6	7	7	13	16	14	20	9	138		
PRECIPITATION 1.00	2	2	0	0	1	0	0	2	2	1	1	0	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	75.2	30.4	31.3	2.2	0.0	0.0	0.0	0.0	0.0	0.2	19.8	8.9	168.0	
	GREATEST 24-HOUR (IN.)	12.4	8.8	4.7	1.7	0.0	0.0	0.0	0.0	0.0	0.2	5.3	3.9	12.4	
	DATE OF OCCURRENCE	08	03	10	01						31	14	23	JAN 08	
	MAXIMUM SNOW DEPTH (IN.)	33	8	12	4	0	0	0	0	0	0	9	4	33	
	DATE OF OCCURRENCE	11	13+	12+	01							22	24+	JAN 11	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	14	6	9	1	0	0	0	0	0	0	4	3	37		

# NORMALS, MEANS, AND EXTREMES JUNEAU (PAJN)

**LATITUDE:** 58° 21'N      **LONGITUDE:** -134° 34'W      **ELEVATION (FT):** GRND: 22    BARO: 40      **TIME ZONE:** ALASKA (UTC -9)      **WBAN: 25309**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	30.6	34.3	39.5	48.1	55.7	61.6	64.3	63.1	56.1	46.9	37.6	33.0	47.6
	MEAN DAILY MAXIMUM	65	30.0	34.0	38.6	47.2	55.5	61.4	63.7	62.7	54.9	47.0	37.7	32.6	47.1
	HIGHEST DAILY MAXIMUM	65	57	57	61	74	82	86	90	84	73	61	56	54	90
	YEAR OF OCCURRENCE		1958	1992	1998	2003	1947	1969	1975	2004	1996	2003	1949	1999	JUL 1975
	MEAN OF EXTREME MAXS.	66	42.9	44.0	47.8	59.9	69.6	75.9	78.0	75.6	65.6	55.6	48.0	44.1	58.9
	NORMAL DAILY MINIMUM	30	20.7	23.5	27.8	33.4	40.1	46.1	49.2	48.3	43.8	37.7	28.9	24.4	35.3
	MEAN DAILY MINIMUM	64	19.4	22.9	26.4	32.1	39.2	45.1	48.4	47.6	42.6	37.1	28.5	23.4	34.4
	LOWEST DAILY MINIMUM	65	-22	-22	-15	6	25	31	36	27	23	11	-5	-21	-22
	YEAR OF OCCURRENCE		1972	1968	1972	1963	1972	1971	1950	1948	1972	1984	2006	1949	JAN 1972
	MEAN OF EXTREME MINS.	66	-0.0	4.8	10.0	22.8	30.0	37.1	41.7	39.2	31.8	24.4	12.9	3.9	21.6
	NORMAL DRY BULB	30	25.7	28.9	33.7	40.8	47.9	53.9	56.8	55.7	50.0	42.3	33.3	28.7	41.5
	MEAN DRY BULB	64	24.7	28.5	32.5	39.6	47.4	53.5	56.1	55.2	48.9	42.1	33.1	28.0	40.8
	MEAN WET BULB	25	29.0	29.5	31.5	37.7	44.0	49.8	52.8	52.4	48.1	41.5	34.0	31.4	40.1
	MEAN DEW POINT	25	27.0	27.2	28.5	34.4	40.9	47.3	50.9	50.4	46.8	40.1	32.3	29.8	38.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.1	1.4	5.1	7.2	5.7	0.2	0.0	0.0	0.0	19.7
	MAXIMUM <= 32	30	14.8	8.7	3.0	*	0.0	0.0	0.0	0.0	0.0	0.3	5.3	11.5	43.6
MINIMUM <= 32	30	24.1	21.6	20.5	11.7	1.8	*	0.0	0.0	1.2	6.6	17.1	22.1	126.7	
MINIMUM <= 0	30	3.0	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	1.3	5.8	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1219	1010	973	728	529	335	257	288	453	704	953	1125	8574
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>RH</b>	NORMAL (PERCENT)	30	84	82	80	78	76	77	81	84	89	88	86	86	83
	HOURLY 03 LST	30	85	86	87	89	90	89	89	93	95	92	89	88	89
	HOURLY 09 LST	30	86	85	83	78	76	78	83	86	90	90	88	88	84
	HOURLY 15 LST	30	82	76	69	63	62	65	71	74	80	83	83	86	75
	HOURLY 21 LST	30	85	85	83	81	77	76	80	84	92	91	88	87	84
<b>S</b>	PERCENT POSSIBLE SUNSHINE	33	32	32	37	39	39	34	31	32	26	19	23	20	30
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG (VISIBY <= 1/4 MI)	45	2.1	2.6	2.0	1.1	0.6	0.3	0.2	1.0	2.4	3.4	3.2	2.6	21.5
	THUNDERSTORMS	60	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.2
<b>CLOUDNESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	48	6.2	6.4	6.4	6.4	6.3	6.5	6.6	6.3	6.8	7.0	6.7	6.7	6.5
	MIDNIGHT-MIDNIGHT (OKTAS)	16	5.2	5.7	6.1	5.9	6.3	6.1	6.2	5.9	6.4	6.6	6.0	6.1	6.0
	MEAN NO. DAYS WITH: CLEAR	48	5.7	4.3	4.4	3.7	3.8	3.4	2.8	3.9	2.7	2.4	3.3	3.2	43.6
	PARTLY CLOUDY	48	2.6	3.0	3.2	4.2	4.4	4.2	4.5	4.7	3.3	2.1	2.3	2.0	40.5
	CLOUDY	48	22.5	21.0	23.4	22.1	22.6	22.4	23.0	21.9	23.4	26.0	24.0	25.2	277.5
<b>PR</b>	MEAN STATION PRESSURE (IN)	25	30.39	30.46	30.40	30.44	30.46	30.48	30.49	30.46	30.43	30.38	30.35	30.37	30.43
	MEAN SEA-LEVEL PRES. (IN)	25	29.84	29.86	29.85	29.89	29.91	29.92	29.94	29.91	29.88	29.83	29.79	29.81	29.87
<b>WINDS</b>	MEAN SPEED (MPH)	25	7.3	7.3	7.8	7.7	7.6	6.9	6.8	6.9	7.9	8.5	7.9	8.0	7.6
	PREVAIL. DIR. (TENS OF DEGS)	28	09	09	11	12	12	11	09	09	09	11	12	12	11
	MAXIMUM 2-MINUTE: SPEED (MPH)	11	48	46	40	37	36	26	30	38	41	47	48	48	48
	DIR. (TENS OF DEGS)		11	12	12	11	12	11	12	12	12	11	12	11	12
	YEAR OF OCCURRENCE		2008	2002	2004	2005	2001	2006	2003	1999	2001	2004	2009	2004	NOV 2009
	MAXIMUM 3-SECOND SPEED (MPH)	11	66	54	49	49	47	35	39	48	53	61	62	60	66
	DIR. (TENS OF DEGS)		11	12	12	11	15	11	10	13	20	11	11	11	11
	YEAR OF OCCURRENCE		2008	2002	2000	2005	1999	2009	2008	1999	2000	2007	2009	2004	JAN 2008
<b>PRECIPITATION</b>	NORMAL (IN)	30	4.81	4.02	3.51	2.96	3.48	3.36	4.14	5.37	7.54	8.30	5.43	5.41	58.33
	MAXIMUM MONTHLY (IN)	65	9.38	8.48	6.50	7.48	9.20	6.22	10.36	12.31	15.14	15.25	13.38	13.61	15.25
	YEAR OF OCCURRENCE		2009	1964	1994	1999	1992	1996	1997	1961	1991	1974	2005	1997	OCT 1974
	MINIMUM MONTHLY (IN)	65	0.94	0.07	0.59	0.27	0.84	1.08	1.15	0.56	2.34	2.71	1.15	0.49	0.07
	YEAR OF OCCURRENCE		1969	1989	1983	1948	2004	1950	1972	1979	1965	1950	1983	1983	FEB 1989
	MAXIMUM IN 24 HOURS (IN)	65	2.74	2.71	1.81	2.05	2.30	2.26	2.46	2.62	3.35	4.66	3.57	3.56	4.66
	YEAR OF OCCURRENCE		1948	1993	1992	1997	1992	1996	2001	1974	1996	1946	2005	1956	OCT 1946
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	19.4	16.3	18.8	17.5	17.1	15.9	16.7	18.1	21.1	23.8	20.3	20.8	225.8
	PRECIPITATION >= 1.00	30	0.7	0.6	0.2	0.2	0.3	0.3	0.5	0.9	1.4	1.5	0.9	0.7	8.2
<b>SNOWFALL</b>	NORMAL (IN)	30	28.8	18.0	11.1	1.0	0.*	0.0	0.0	0.0	0.*	1.1	13.0	20.9	93.9
	MAXIMUM MONTHLY (IN)	65	75.2	86.3	62.7	46.3	1.2	T	0.0	0.0	T	15.6	69.8	54.7	86.3
	YEAR OF OCCURRENCE		2009	1965	2007	1963	1964	1970			1974	1956	1994	1964	FEB 1965
	MAXIMUM IN 24 HOURS (IN)	65	20.1	23.7	31.0	24.2	0.7	T	0.0	0.0	T	8.8	19.4	25.6	31.0
	YEAR OF OCCURRENCE		1975	1949	1948	1963	1945	1970			1974	1956	1994	1962	MAR 1948
	MAXIMUM SNOW DEPTH (IN)	59	38	41	40	33	0	0	0	0	0	7	28	36	41
	YEAR OF OCCURRENCE		1966	1949	1972	1963						1956	2006	1962	FEB 1949
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	7.2	4.9	2.8	0.3	0.0	0.0	0.0	0.0	0.0	0.2	3.4	4.6	23.4

**PRECIPITATION (inches) 2009 JUNEAU (PAJN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	3.44	2.83	2.75	5.32	2.53	4.37	6.49	5.61	7.91	11.26	7.10	2.27	61.88
1981	4.66	2.57	1.88	2.11	3.27	2.44	4.25	6.19	11.61	6.18	6.93	2.24	54.33
1982	3.74	1.42	2.52	2.44	5.10	1.86	1.73	5.97	5.10	7.97	2.10	1.17	41.12
1983	4.00	1.69	0.59	2.53	5.37	2.69	3.16	9.52	6.13	4.24	1.15	0.49	41.56
1984	6.06	5.40	3.75	2.11	1.84	4.17	6.92	6.26	3.39	6.69			
1985												8.33	
1986	7.00	3.25	6.08	2.98	2.54	2.76	2.38	6.89	2.40	12.33	5.96	6.42	60.99
1987	3.99	3.13	2.12	2.08	2.60	6.02	2.54	4.54	8.92	10.36	7.17	5.32	58.79
1988	2.58	6.55	4.15	2.25	3.91	2.05	5.21	5.53	5.46	9.71	8.62	4.75	60.77
1989	6.77	0.07	1.33	0.87	3.44	1.10	3.81	2.82	7.29	6.37	6.23	6.78	46.88
1990	3.72	4.54	4.86	1.06	1.72	3.32	4.65	5.35	10.63	6.59	4.89	6.03	57.36
1991	4.16	6.55	4.41	4.73	4.72	3.41	4.85	9.60	15.14	8.63	9.63	9.32	85.15
1992	8.69	7.24	6.37	3.63	9.20	2.98	5.18	5.02	11.45	5.90	7.91	5.73	79.30
1993	9.11	8.09	3.50	1.94	2.19	4.92	2.25	3.20	8.44	9.00	11.06	7.89	71.59
1994	7.05	2.52	6.50	3.68	4.20	1.83	4.32	2.68	11.17	9.15	9.57	6.22	68.89
1995	1.78	2.83	3.01	2.08	2.85	3.45	4.36	5.01	7.43	6.04	2.93	4.58	46.35
1996	2.26	8.43	4.12	2.19	1.80	6.22	3.16	7.91	10.68	6.20	2.75	4.73	60.45
1997	2.73	8.17	3.91	4.41	3.25	3.51	10.36	3.93	8.26	7.85	4.63	13.61	74.62
1998	2.54	1.90	3.71	3.12	2.21	2.50	4.95	6.80	6.17	12.13	1.72	5.45	53.20
1999	8.14	2.66	2.58	7.48	5.69	2.69	4.10	6.77	10.62	12.19	5.77	10.30	78.99
2000	4.82	1.56	5.75	4.40	3.25	5.72	6.65	6.12	10.05	10.11	6.37	4.17	68.97
2001	7.43	4.40	3.33	2.19	5.19	1.65	7.26	3.66	8.37	7.80	3.62	4.49	59.39
2002	3.28	5.62	1.33	0.47	2.37	3.40	4.72	10.50	6.08	10.69	7.95	5.86	62.27
2003	5.68	1.44	3.56	0.86	2.90	3.74	3.44	4.53	11.41	4.44	6.21	5.92	54.13
2004	5.89	5.66	5.59	4.43	0.84	1.30	3.54	2.51	9.23	7.18	8.38	10.67	65.22
2005	5.90	6.12	4.18	2.94	0.89	3.00	5.25	6.58	9.92	9.12	13.38	6.74	74.02
2006	2.93	2.07	1.55	4.24	4.56	5.93	4.43	11.02	13.01	11.78	3.40	9.37	74.29
2007	6.25	3.00	4.81	2.99	4.27	1.85	6.71	2.35	9.09	11.67	3.15	3.75	59.89
2008	4.91	4.92	4.00	4.79	3.87	1.68	8.25	5.33	10.84	15.05	5.89	3.92	73.45
2009	9.38	3.89	2.95	2.17	2.67	2.83	2.35	7.30	8.92	5.65	7.20	3.95	59.26
POR= 65 YRS	4.57	3.83	3.42	2.92	3.37	3.14	4.49	5.29	7.54	8.34	5.71	5.26	57.88

WBAN : 25309

**AVERAGE TEMPERATURE (°F) 2009 JUNEAU (PAJN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	19.5	33.8	34.1	42.2	49.4	55.6	55.6	54.7	49.0	44.6	38.7	21.7	41.6
1981	37.6	32.7	39.4	39.1	52.1	54.3	56.1	55.9	49.2	42.8	36.8	26.9	43.6
1982	13.8	21.3	31.8	37.1	45.4	56.3	57.7	54.8	50.3	42.2	30.6	31.6	39.4
1983	30.2	31.8	34.8	42.6	49.7	55.6	57.1	54.6	48.0	42.1	31.8	18.9	41.4
1984	32.0		39.6	43.1	49.1	53.5	55.5	55.3	50.0	40.5			
1985												32.5	
1986	34.3	28.7	35.3	37.3	46.6	54.3	56.8	54.4	50.7	45.8	30.5	36.0	42.6
1987	33.1	34.7	31.8	41.6	47.8	51.6	58.6	57.5	50.1	44.4	40.0	34.3	43.8
1988	27.0	32.6	37.6	41.7	48.5	54.0	53.8	53.9	48.2	44.1	36.2	31.3	42.4
1989	25.5	23.9	29.4	42.7	49.0	55.4	60.1	58.2	52.4	41.7	32.9	36.0	42.3
1990	26.4	25.1	36.4	42.7	49.7	55.0	59.3	58.1	51.2	40.7	26.4	23.7	41.2
1991	24.9	35.3	33.1	41.7	48.2	55.0	55.2	55.0	50.3	40.1	36.3	33.6	42.4
1992	35.7	32.7	36.9	41.1	46.4	55.2	57.0	56.0	46.8	40.5	38.4	25.6	42.7
1993	24.5	30.2	35.8	44.4	52.1	55.8	59.6	57.1	51.2	45.8	36.8	35.9	44.1
1994	27.7	18.4	36.7	43.3	48.1	54.9	57.4	59.3	50.2	43.3	29.4	27.7	41.4
1995	27.2	29.0	30.3	43.4	51.4	55.4	57.0	54.8	53.8		32.4	25.2	
1996	16.6	29.0	32.8	40.7	48.7	54.1	57.7	54.7	48.9	40.2	31.3	26.5	40.1
1997	26.1	35.3	31.5	41.5	51.5	56.6	58.2	58.8	53.3	41.4	37.3	36.7	44.0
1998	24.5	37.1	35.0	42.4	50.1	55.9	57.5	54.2	49.4	42.8	33.1	27.9	42.5
1999	26.6	28.6	33.1	39.5	44.8	53.8	57.4	56.4	49.7	43.5	36.1	35.9	42.1
2000	26.5	31.7	36.3	39.7	46.9	53.0	55.3	54.4	49.0	41.9	37.7	31.2	42.0
2001	36.7	28.2	33.4	40.3	45.2	54.2	55.4	57.2	50.3	41.9	32.9	29.0	42.1
2002	30.6	30.8	28.3	36.3	47.1	54.8	54.6	54.4	49.6	44.3	40.1	31.9	41.9
2003	31.6	31.7	30.5	41.7	46.8	53.7	58.0	54.9	48.8	43.3	30.6	31.8	42.0
2004	25.2	35.5	34.7	41.0	51.7	58.0	59.6	59.4	48.8	41.2	36.8	32.1	43.7
2005	25.2	30.7	37.5	44.0	52.7	56.1	56.3	57.2	51.1	41.7	35.5	33.7	43.5
2006	29.5	28.5	27.8	39.0	47.8	54.5	56.3	53.1	50.0	42.3	19.4	34.3	40.2
2007	31.0	25.1	28.4	38.6	46.8	54.4	56.7	56.5	49.7	42.0	34.9	27.4	41.0
2008	26.0	27.9	35.1	38.3	48.0	50.9	53.3	53.8	49.5	41.1	35.4	22.3	40.1
2009	25.8	27.1	28.5	39.2	48.1	54.9	59.9	55.9	49.8	42.6	35.0	27.9	41.2
POR= 64 YRS	24.7	28.5	32.5	39.6	47.4	53.5	56.1	55.2	48.9	42.1	33.1	28.0	40.8

**HEATING DEGREE DAYS (base 65°F) 2009 JUNEAU (PAJN)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	283	308	472	628	783	1333	843	899	786	772	392	316	7815
1981-82	269	275	469	682	841	1175	1579	1214	1021	830	601	257	9213
1982-83	220	310	435	699	1027	1029	1073	924	931	663	470	275	8056
1983-84	237	317	502	701	991	1423	1014		780	649	486	338	
1984-85	286	291	444	754									
1985-86						1001	943	1011	913	822	564	316	
1986-87	249	319	423	587	1028	891	982	841	1020	697	526	394	7957
1987-88	199	222	440	635	744	944	1169	935	844	691	508	324	7655
1988-89	338	338	497	641	855	1040	1217	1144	1097	663	491	283	8604
1989-90	159	210	370	713	959	890	1191	1109	879	661	467	295	7903
1990-91	180	210	407	748	1152	1274	1238	823	981	694	516	298	8521
1991-92	294	303	435	764	855	966	902	930	865	712	571	292	7889
1992-93	240	274	540	750	791	1217	1250	966	899	612	394	271	8204
1993-94	166	240	406	588	838	891	1147	1298	869	641	514	299	7897
1994-95	229	171	437	668	1061	1150	1165	1003	1066	641	416	285	8292
1995-96	241	309	329		971	1229	1493	1038	993	719	498	322	
1996-97	218	312	476	764	1004	1187	1196	826	1031	698	414	252	8378
1997-98	203	183	345	725	823	869	1247	776	926	673	457	266	7493
1998-99	224	331	463	681	951	1141	1181	1012	978	758	619	329	8668
1999-00	230	264	452	660	858	895	1184	959	882	751	552	354	8041
2000-01	295	322	471	710	813	1040	873	1026	972	734	605	320	8181
2001-02	292	235	434	709	956	1111	1060	951	1131	856	549	299	8583
2002-03	316	325	455	636	740	1019	1027	927	1064	690	555	330	8084
2003-04	210	306	478	665	1026	1020	1225	849	933	713	406	220	8051
2004-05	163	172	478	730	838	1011	1222	954	848	622	373	260	7671
2005-06	265	240	413	715	877	961	1094	1019	1147	774	526	306	8337
2006-07	264	364	444	700	1361	943	1048	1108	1130	784	559	313	9018
2007-08	251	257	452	707	895	1159	1200	1071	919	794	519	415	8639
2008-09	357	338	457	732	882	1317	1210	1057	1123	770	518	296	9057
2009-	156	276	450	685	892	1141							

WBAN : 25309

**COOLING DEGREE DAYS (base 65°F) 2009 JUNEAU (PAJN)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	0	1	0	0	0	0	0	0	1
1981	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	2	0	0	0	0	0	0	2
1983	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	0		0	0	0	0	0	0	0	0			
1985												0	
1986	0	0	0	0	0	2	0	0	0	0	0	0	2
1987	0	0	0	0	0	0	5	0	0	0	0	0	5
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	14	0	0	0	0	0	14
1990	0	0	0	0	0	1	8	3	0	0	0	0	12
1991	0	0	0	0	0	6	0	0	0	0	0	0	6
1992	0	0	0	0	0	6	0	0	0	0	0	0	6
1993	0	0	0	0	0	0	5	0	0	0	0	0	5
1994	0	0	0	0	0	0	0	2	0	0	0	0	2
1995	0	0	0	0	0	1	0	0	0		0	0	
1996	0	0	0	0	0	0	2	0	0	0	0	0	2
1997	0	0	0	0	0	6	0	0	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	2	3	0	0	0	0	5
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	3	0	0	0	0	0	3
2004	0	0	0	0	0	17	2	5	0	0	0	0	24
2005	0	0	0	0	0	0	0	2	0	0	0	0	2
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	6	0	0	0	0	0	6

## SNOWFALL (inches) 2009 JUNEAU (PAJN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	0.5	40.5	2.4	16.4	0.5	2.2	0.0	0.0	62.5
1981-82	0.0	0.0	0.0	0.0	4.0	6.0	69.2	29.6	8.4	1.1	T	0.0	118.3
1982-83	0.0	0.0	0.0	2.0	0.4	10.8	40.1	15.7	0.2	T	0.0	0.0	69.2
1983-84	0.0	0.0	0.0	0.0	8.1	13.3	43.1	0.7	1.0	T	T	0.0	66.2
1984-85	0.0	0.0	0.0	0.0									
1985-86						2.0	10.3	7.4	30.4	4.4	T	0.0	
1986-87	0.0	0.0	0.0	T	22.1	1.4	3.3	1.4	7.3	T	0.0	0.0	35.5
1987-88	0.0	0.0	0.0	T	4.6	6.8	3.5	8.0	1.0	0.5	0.0	0.0	24.4
1988-89	0.0	0.0	0.0	0.0	4.8	11.3	44.7	0.2	10.0	T	0.0	0.0	71.0
1989-90	0.0	0.0	0.0	0.6	32.5	6.4	36.5	39.4	0.6	0.0	0.0	0.0	116.0
1990-91	0.0	0.0	0.0	0.0	48.8	33.2	31.8	15.5	9.4	0.8	T	0.0	139.5
1991-92	0.0	0.0	0.0	5.4	7.7	49.3	14.3	12.4	4.1	T	T	0.0	93.2
1992-93	0.0	0.0	0.0	1.1	4.4	25.0	32.5	36.8	2.6	T	0.0	0.0	102.4
1993-94	0.0	0.0	0.0	0.0	4.3	10.4	61.2	32.4	22.9	T	0.0	0.0	131.2
1994-95	0.0	0.0	0.0	0.0	69.8	25.8	8.6	14.0	28.4	T	0.0	0.0	146.6
1995-96	0.0	0.0	0.0	0.0	2.9	23.0	20.8	33.1	5.5	T	0.0	0.0	85.3
1996-97	0.0	0.0	0.0	.5	2.5	4.6	12.3	17.3	19.2	0.4	0.0	0.0	56.8
1997-98	0.0	0.0	0.0	1.9	1.2	14.9	12.9	0.5					
1998-99						22.8	53.1	34.2	7.3	1.1	T	0.0	
1999-00	0.0	0.0	0.0	T	5.1	19.9	13.6	4.6	T	T	0.0	0.0	43.2
2000-01	0.0	0.0	T	2.3	1.0	2.3	7.6	14.9	0.6	T	T	0.0	28.7
2001-02	0.0	0.0	0.0	3.4	3.1	25.5	18.9	28.9	2.5	T	0.0	0.0	82.3
2002-03	0.0	0.0	0.0	0.0	0.0	17.7	15.3	6.2	17.7	T	0.0	0.0	56.9
2003-04	0.0	0.0	0.0	0.0	24.9	11.9	34.2	2.8	18.5	T	0.0	0.0	92.3
2004-05	0.0	0.0	0.0	T	1.9	10.8	46.7	16.6	1.0	1.6	0.0	0.0	78.6
2005-06	0.0	0.0	0.0	0.0	8.3	4.6	30.8	3.2	6.9	0.5	T	0.0	54.3
2006-07	0.0	0.0	0.0	T	64.2	25.4	27.5	10.6	62.7	0.0	0.0	0.0	190.4
2007-08	0.0	0.0	0.0	0.0	4.5	12.6	22.9	43.9	13.5	13.7	T	0.0	111.1
2008-09	0.0	0.0	0.0	4.6	3.8	32.7	75.2	30.4	31.3	2.2	0.0	0.0	180.2
2009-	0.0	0.0	0.0	0.2	19.8	8.9							
POR= 64 YRS	0.0	0.0	T	1.1	11.4	21.5	26.2	18.8	14.0	2.5	T	0.0	95.5

WBAN : 25309

### 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 METADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a></p> <p><b>NOTE:</b> 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 JUNEAU ALASKA (PAJN)

Juneau lies well within the area of maritime influences which prevail over the coastal areas of southeastern Alaska, and is in the path of most storms that cross the Gulf of Alaska. Consequently, the area has little sunshine, generally moderate temperatures, and abundant precipitation. In contrast with the characteristic lack of sunshine there are greatly appreciated intervals, sometimes lasting for several days at a stretch, during which clear skies prevail. The rugged terrain exerts a fundamental influence upon local temperatures and the distribution of precipitation, creating considerable variations in both weather elements within relatively short distances.

Temperature variations, both daily and seasonal, are usually confined to relatively narrow limits by the dominant maritime influences. There are, however, periods of comparatively severe cold, which usually start with strong northerly winds, and are most often caused by the flow of cold air from northwestern Canada through nearby mountain passes and over the Juneau ice field. These are generally of brief duration. During such periods strong, gusty winds, known locally as Taku Winds, often occur especially in downtown Juneau, Douglas, and other local areas, but generally they are not felt in the Mendenhall Valley. At times these are strong enough to cause considerable damage. During periods of calm or light winds, temperature differences within short distances are frequently very pronounced. Variations in local sunlight and air drainage patterns produce wide differences in temperatures particularly between upland or sloping areas and areas of low, flat terrain. Juneau International Airport, located on low, flat terrain formed by the Mendenhall River delta, and in the path of drainage air from the Mendenhall Glacier, averages about 10 days a year with minimum readings below zero. Downtown Juneau, located on a sloping portion of a rugged mountain area, experiences on the average only about one day each year with minimum readings below zero. At the airport the growing season averages 146 days, from May 4 to September 28, while the downtown average is 181 days, from April 22 to October 21.

The months of February to June mark the period of lightest precipitation, with monthly averages of about 3 inches. After June the monthly amounts increase gradually, reaching an average of 7.71 inches in October. Due to the rugged topography, precipitation throughout the year tends to vary greatly within short distances. At the Juneau Airport, yearly precipitation is 53 inches while downtown, only 8 miles away, it is 93 inches. The maximum yearly amount received in the city is almost double the maximum received at the airport.

Although a trace of snow has fallen as early as September 9, first falls usually occur in the latter part of October, and sometimes not until the first part of December. On the average there is very little accumulation on the ground at low levels until the last of November, although at higher elevations, and particularly on mountain tops, a cover is usually established in early October. Snow accumulation usually reaches its greatest depth during the middle of February. Individual storms may produce heavy falls as late as the first half of May. However, snow cover is usually gone before the middle of April. Ice accumulations due to alternating thawing and freezing of snow or due to freezing precipitation are frequent problems in the Juneau area during the winter months.

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