

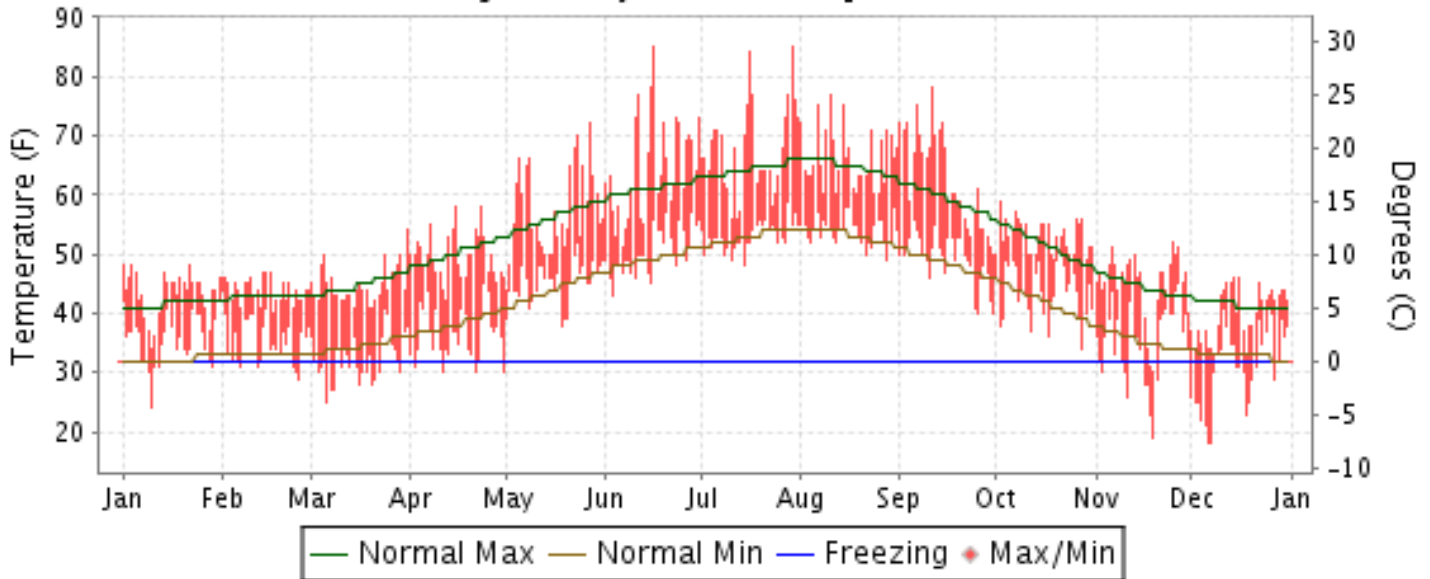


2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

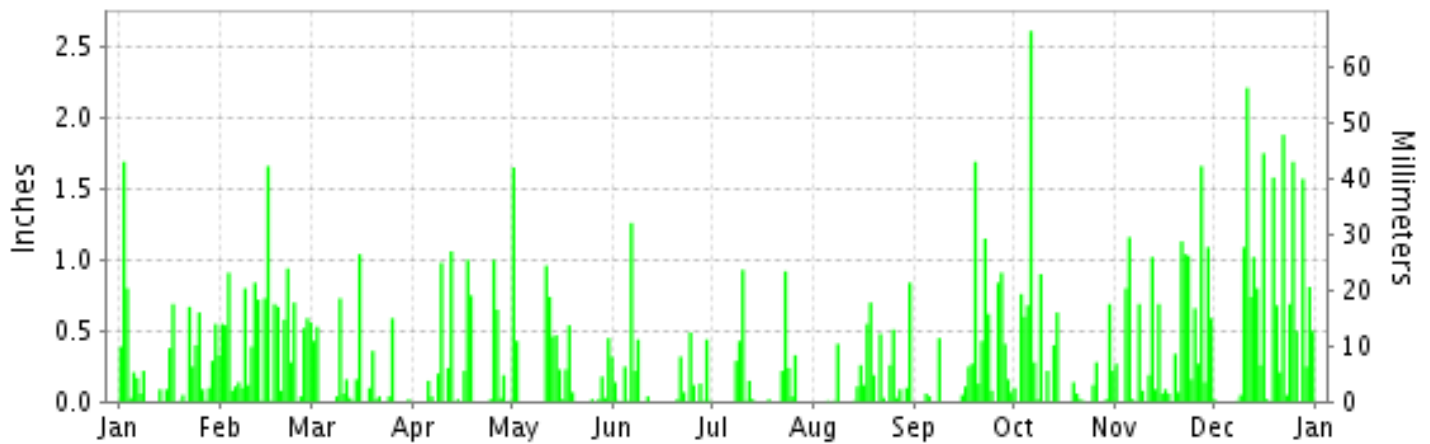
ISSN 0197-9566

ANNETTE, ALASKA (PANT)

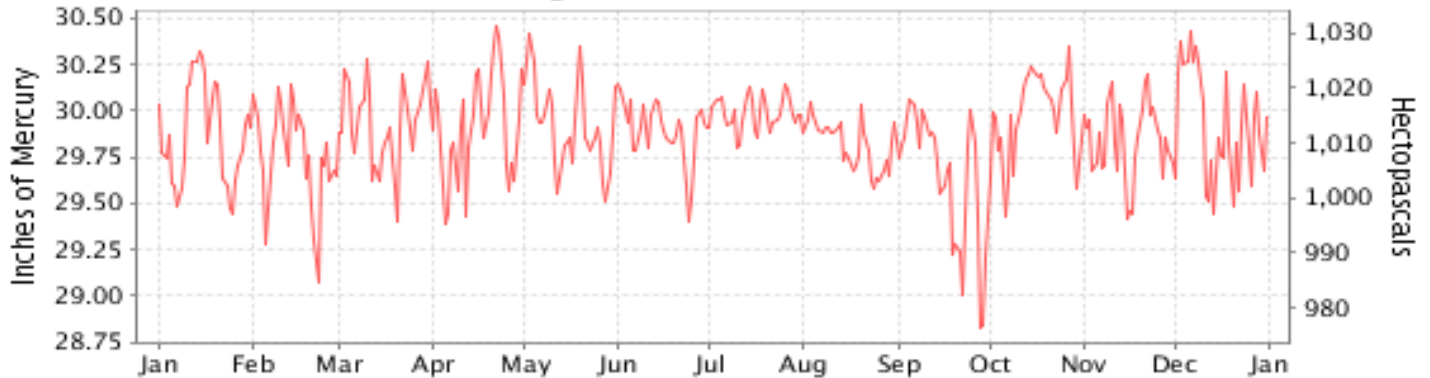
Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2013

ANNETTE (PANT)

LATITUDE: 55° 2'N LONGITUDE: 131° 34'W ELEVATION (FT): GRND: 109 BARO: 114 TIME ZONE: ALASKA (UTC -9) WBAN: 25308

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	43.3	43.8	44.8	49.7	57.5	64.6	67.5	66.1	62.9	53.0	45.0	40.2	53.2	
	HIGHEST DAILY MAXIMUM	48	47	54	58	72	85	85	77	78	59	52	46	85	
	DATE OF OCCURRENCE	22+	16+	31	23+	27	16	29	10	11	02	25	16+	JUL 29	
	MEAN DAILY MINIMUM	35.7	35.6	32.3	36.5	45.2	50.5	53.1	54.0	49.3	43.6	35.1	31.2	41.8	
	LOWEST DAILY MINIMUM	24	29	25	30	38	43	48	49	40	34	19	18	18	
	DATE OF OCCURRENCE	10	25	06	30+	18	03	14	28	30+	28	19	07+	DEC 07+	
	AVERAGE DRY BULB	39.5	39.7	38.5	43.1	51.4	57.6	60.3	60.0	56.1	48.3	40.1	35.7	47.5	
	MEAN WET BULB	38.2	39.0	35.6	39.7	47.4	53.4	56.0	56.7	53.4	47.4	38.8			
	MEAN DEW POINT	35.6	36.8	31.1	34.9	43.7	50.5	53.1	55.1	51.6	46.1	36.2			
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 70	0	0	0	0	2	9	12	8	9	0	0	0	0	40
MAXIMUM <= 32°	0	0	0	0	0	0	0	0	0	0	2	0	0	2	
MINIMUM <= 32°	8	8	18	5	0	0	0	0	0	0	10	17	66		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	780	703	812	650	415	220	152	151	260	509	740	899	6291	
	COOLING DEGREE DAYS	0	0	0	0	0	6	14	2	0	0	0	0	22	
RH	MEAN (PERCENT)	85	88	77	75	79	81	79	87	88	92	86	90	84	
	HOUR 03 LST	87	89	85	84	88	91	91	94	94	96	88	91	90	
	HOUR 09 LST	86	89	76	70	77	77	75	85	86	90	85	91	82	
	HOUR 15 LST	82	83	63	62	68	70	66	75	75	85	84	88	75	
	HOUR 21 LST	87	89	84	83	84	86	85	92	92	95	87	90	88	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	0	0	3	0	1	5	4	3	0	1	18	
	THUNDERSTORMS	0	0	0	0	0	1	0	0	0	0	0	0	1	
PR	MEAN STATION PRESS. (IN.)	29.88	29.76	29.93	29.91	29.92	29.89	29.99	29.82	29.64	29.98	29.84	29.92	29.87	
	MEAN SEA-LEVEL PRESS. (IN.)	30.00	29.89	30.05	30.04	30.04	30.01	30.11	29.94	29.77	30.10	29.96	30.05	30.00	
WINDS	RESULTANT SPEED (MPH)	5.1	5.9	0.4	1.6	1.8	2.4	0.7	3.4	3.5	2.9	2.9	4.3	2.8	
	RES. DIR. (TENS OF DEGS.)	14	15	07	18	15	16	23	14	14	14	13	14	15	
	MEAN SPEED (MPH)	6.3	7.9	5.0	6.6	6.5	4.7	4.5	5.2	6.2	5.3	7.0	8.1	6.1	
	PREVAIL.DIR.(TENS OF DEGS.)	12	14	33	33	14	14	15	14	14	14	12	14	14	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	30	28	38	31	21	20	26	37	35	35	33	38	
	DIR. (TENS OF DEGS.)	13	14	14	14	14	13	14	14	14	14	13	14	14	
	DATE OF OCCURRENCE	02	27	09	09	01	06	17	18	20	03	23	24	APR 09	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	45	45	40	63	48	33	28	38	56	53	47	52	63	
DIR. (TENS OF DEGS.)	15	15	15	14	15	13	15	13	14	14	13	14	14		
DATE OF OCCURRENCE	17	27	09	09	01	06	17	17	20	03	23	24	APR 09		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	8.20	13.36	4.36	6.56	6.82	3.98	3.60	4.71	7.72	8.76	13.40	18.38	99.85	
	GREATEST 24-HOUR (IN.)	2.05	1.85	1.10	1.30	1.79	1.27	1.36	0.86	1.74	2.77	1.82	3.05	3.05	
	DATE OF OCCURRENCE	01-02	14-15	14-15	11-12	01-02	06-07	09-10	29-30	18-19	06-07	22-23	10-11	DEC 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	24	27	17	16	17	17	12	18	18	20	25	23	234	
PRECIPITATION 0.10	16	22	9	11	12	10	8	12	13	15	18	18	164		
PRECIPITATION 1.00	1	1	1	3	1	1	0	0	2	1	7	8	26		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	0.5	T	0.9	T	0.0	0.0	0.0	0.0	0.0	0.0	5.7	3.4	10.5	
	GREATEST 24-HOUR (IN.)	0.5	T	0.4	T	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.3	3.5	
	DATE OF OCCURRENCE	29	27+	21	29+							19	19	NOV 19	
	MAXIMUM SNOW DEPTH (IN.)	0	0	T	0	0	0	0	0	0	0	4	T	4	
	DATE OF OCCURRENCE			21+								20	18	NOV 20	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	0	0	0	0	0	0	0	0	0	0	2	1	3		

NORMALS, MEANS, AND EXTREMES ANNETTE (PANT)

LATITUDE: 55° 2'N **LONGITUDE:** 131° 34'W **ELEVATION (FT):** GRND: 109 BARO: 114 **TIME ZONE:** ALASKA (UTC -9) **WBAN: 25308**

ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.6	42.7	44.9	50.2	56.3	61.1	64.3	64.7	59.3	51.6	44.6	41.5	51.9
	MEAN DAILY MAXIMUM	72	39.1	41.6	44.1	49.2	56.1	60.5	64.1	64.6	59.4	51.5	44.2	40.6	51.3
	HIGHEST DAILY MAXIMUM	66	61	65	64	82	88	93	89	90	82	71	67	62	93
	YEAR OF OCCURRENCE		1981	1993	1994	1976	1963	2004	1976	1960	1989	1964	1970	1962	JUN 2004
	MEAN OF EXTREME MAXS.	72	49.7	50.7	53.2	62.6	71.7	76.2	78.5	78.3	70.4	60.3	53.5	50.0	62.9
	NORMAL DAILY MINIMUM	30	32.4	32.7	34.5	38.3	44.0	49.2	52.9	53.1	48.4	41.9	35.4	32.8	41.3
	MEAN DAILY MINIMUM	72	30.0	31.9	33.5	37.2	43.0	48.1	52.1	52.4	48.0	41.9	35.2	31.9	40.4
	LOWEST DAILY MINIMUM	66	1	2	1	21	31	37	40	40	33	18	-3	1	-3
	YEAR OF OCCURRENCE		1982	1956	1955	1954	1971	2012	1973	1973	1983	1984	1985	1964	NOV 1985
	MEAN OF EXTREME MINS.	72	14.5	19.5	23.1	29.8	35.5	42.3	46.7	46.2	39.7	31.5	23.5	17.1	30.8
	NORMAL DRY BULB	30	37.0	37.7	39.7	44.2	50.2	55.1	58.6	58.9	53.8	46.7	40.0	37.1	46.6
	MEAN DRY BULB	72	34.6	36.7	38.8	43.2	49.5	54.4	58.1	58.5	53.7	46.7	39.7	36.3	45.9
	MEAN WET BULB	30	34.3	34.3	35.7	39.6	45.0	50.2	54.0	54.7	50.8	44.2	37.4	34.7	42.9
	MEAN DEW POINT	30	32.6	32.2	33.2	37.5	42.9	48.6	52.7	53.4	49.7	43.0	35.9	33.3	41.3
	NORMAL NO. DAYS WITH: MAXIMUM >= 70	30	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1
	MAXIMUM <= 32	30	3.2	1.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	2.4	8.6
MINIMUM <= 32	30	13.0	11.9	9.2	2.0	0.1	0.0	0.0	0.0	0.0	1.4	8.4	12.7	58.7	
MINIMUM <= 0	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	
H/C	NORMAL HEATING DEG. DAYS	30	868	764	784	623	461	299	205	196	335	566	750	863	6714
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	4	6	7	0	0	0	0	17
RH	NORMAL (PERCENT)	30													
	HOUR 03 LST	30	84	80	82	84	87	89	91	91	92	89	84	83	86
	HOUR 09 LST	30	83	79	77	73	73	76	79	81	84	85	83	83	80
	HOUR 15 LST	30	79	73	69	66	65	67	70	72	75	79	80	81	73
	HOUR 21 LST	30													
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	0.9	0.8	0.7	0.6	0.8	0.5	1.5	2.0	2.8	1.4	0.3	0.6	12.9
	THUNDERSTORMS	61	0.0	0.0	0.1	0.0	0.0	0.1	0.1	0.2	0.1	0.2	0.3	0.1	1.2
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	42	6.4	6.6	6.4	6.3	6.2	6.5	6.2	6.0	6.1	6.7	6.5	6.6	6.4
	MIDNIGHT-MIDNIGHT (OKTAS)	20	5.9	6.1	5.8	5.8	5.7	5.9	5.9	5.6	5.8	6.2	6.0	6.0	5.9
	MEAN NO. DAYS WITH: CLEAR	42	4.4	3.0	3.7	3.5	3.8	2.5	3.4	3.9	3.6	2.1	3.0	2.8	39.7
	PARTLY CLOUDY	42	3.7	4.1	4.7	5.8	6.7	6.5	6.0	5.9	5.6	3.9	3.3	3.7	59.9
	CLOUDY	42	22.9	21.2	22.5	20.7	20.5	21.1	20.9	20.6	20.1	24.2	23.0	23.7	261.4
PR	MEAN STATION PRESSURE(IN)	30	29.72	29.78	29.75	29.82	29.87	29.90	29.95	29.91	29.87	29.77	29.68	29.72	29.81
	MEAN SEA-LEVEL PRES. (IN)	30	29.84	29.90	29.87	29.94	29.99	30.02	30.07	30.03	29.99	29.89	29.80	29.84	29.93
WINDS	MEAN SPEED (MPH)	30	9.1	8.8	9.0	8.3	7.6	7.3	6.5	6.6	7.2	8.3	9.1	9.2	8.1
	PREVAIL.DIR.(TENS OF DEGS)	22	12	12	12	14	15	15	15	15	14	14	12	12	15
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	40	46	45	38	35	30	32	32	38	48	44	45	48
	DIR. (TENS OF DEGS)		14	13	13	14	14	13	13	14	14	13	14	14	13
	YEAR OF OCCURRENCE		2007	1999	2010	2013	2001	2009	1998	2001	2011	1998	2008	2009	OCT 1998
	MAXIMUM 3-SECOND SPEED (MPH)	17	61	62	64	63	49	43	46	46	56	69	70	67	70
	DIR. (TENS OF DEGS)		13	13	14	14	14	13	14	13	14	15	15	13	15
	YEAR OF OCCURRENCE		2007	1999	2010	2013	2001	2010	2006	2011	2013	2008	2009	2011	NOV 2009
PRECIPITATION	NORMAL (IN)	30	10.73	7.31	8.05	6.77	5.56	4.88	4.65	6.96	9.79	13.92	12.29	10.72	101.63
	MAXIMUM MONTHLY (IN)	66	20.69	18.06	23.57	21.35	14.68	10.40	10.85	20.72	18.09	34.87	28.09	28.90	34.87
	YEAR OF OCCURRENCE		1958	1965	1960	1949	1966	1956	1959	1958	2011	1958	1959	1959	OCT 1958
	MINIMUM MONTHLY (IN)	66	0.77	0.12	2.13	1.23	1.57	0.61	0.56	0.71	2.52	5.44	3.61	3.41	0.12
	YEAR OF OCCURRENCE		1950	1989	1983	1948	1968	1982	1971	1954	1965	2012	1970	2009	FEB 1989
	MAXIMUM IN 24 HOURS (IN)	66	4.65	5.58	4.02	4.75	4.29	3.79	2.63	4.68	5.04	7.59	5.19	5.20	7.59
	YEAR OF OCCURRENCE		1962	1965	1966	1956	1958	1962	1967	1956	1952	1958	1957	1959	OCT 1958
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	22.1	17.6	21.6	18.8	15.9	15.4	14.9	15.8	18.7	23.6	23.6	23.0	231.0
	PRECIPITATION >= 1.00	30	3.1	1.8	1.7	1.6	1.4	0.9	1.0	2.3	3.0	4.6	3.8	2.9	28.1
SNOWFALL	NORMAL (IN)	30	7.6	7.2	6.9	1.4	0.1	0.0	0.0	0.0	0.0	0.1	3.5	8.1	34.9
	MAXIMUM MONTHLY (IN)	66	36.3	33.4	46.9	22.2	5.0	T	0.0	T	0.0	4.2	24.8	44.8	46.9
	YEAR OF OCCURRENCE		1974	1974	1971	1971	1964	1996		2012		1956	1994	1964	MAR 1971
	MAXIMUM IN 24 HOURS (IN)	66	12.3	14.2	11.8	14.0	5.0	T	0.0	T	0.0	3.2	9.6	14.5	14.5
	YEAR OF OCCURRENCE		1972	1948	1971	1971	1964	1996		2012		1956	1973	2001	DEC 2001
	MAXIMUM SNOW DEPTH (IN)	64	42	40	25	3	4	0	0	0	0	2	10	30	42
	YEAR OF OCCURRENCE		1965	1969	1972	1972	1964					1985	1973	1964	JAN 1965
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.7	2.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.5	11.3

PRECIPITATION (inches) 2013 ANNETTE (PANT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	11.82	11.41	8.35	5.71	5.30	9.37	6.77	7.23	5.45	13.26	8.35	7.85	100.87
1985	11.86	9.65	8.18	7.55	4.17	3.27	1.74	5.18	6.52	12.40	4.77	9.81	85.10
1986	12.82	3.20	9.93	7.18	6.51	3.60	4.11	3.28	5.71	23.51	11.74	10.21	101.80
1987	10.81	8.65	4.69	11.32	8.31	7.46	1.07	3.71	17.40	7.04	17.82	12.16	110.44
1988	9.49	6.06	13.72	7.14	8.91	5.36	7.16	8.01	8.58	11.29	13.97	8.51	108.20
1989	15.28	0.12	4.41	1.93	2.68	3.00	1.77	2.33	5.22	13.90	17.43	17.80	85.87
1990	10.04	5.78	9.91	3.98	3.77	6.21	2.67	5.76	6.66	14.76	7.09	12.53	89.16
1991	8.44	10.20	6.79	4.45	5.78	4.29	8.16	9.21	10.81	17.72	23.32	22.89	132.06
1992	15.53	6.24	8.01	10.17	7.80	4.77	3.69	4.19	17.19	11.30	14.11	8.94	111.94
1993	12.06	16.53	6.36	5.85	4.71	3.53	4.16	3.43	5.47	11.56	14.59	17.05	105.30
1994	13.99	7.04	9.76	5.95	6.91	5.36	4.23	3.56	13.19	14.35	15.53	9.81	109.68
1995	4.44	5.20	7.12	5.64	2.65	2.96	4.58	4.93	5.99	15.41	16.10	11.47	86.49
1996	6.78	8.38	6.38	8.00	2.50	7.56	1.09	5.02	9.60	15.37	7.53	8.19	86.40
1997	9.48	9.45	7.83	8.53	2.43	5.93	5.98	5.59	11.28	13.00	8.48	18.76	106.74
1998	6.75	5.53	5.04	6.07	3.08	3.59	3.77	13.78	10.80	10.25	7.15	11.03	86.84
1999	11.08	9.55	6.85	7.34	12.05	7.55	5.23	9.58	13.17	15.58	14.18	10.12	122.28
2000	9.54	6.08	13.92	7.86	5.73	3.47	7.95	11.22	11.25	9.76	12.35	5.71	104.84
2001	16.68	4.86	9.05	6.31	13.37	6.01	6.06	10.12	14.02	15.93	10.40	9.90	122.71
2002	8.77	10.68	3.76	2.63	6.61	6.51	3.19	13.92	9.83	7.03	10.68	11.58	95.19
2003	12.53	4.53	7.49	4.49	7.08	6.51	3.03	11.28	13.96	16.41	10.59	11.38	109.28
2004	12.13	4.71	7.05	7.96	3.56	2.60	3.69	4.01	7.40	14.32	12.12	10.81	90.36
2005	12.99	11.08	12.33	5.89	2.08	3.82	8.60	5.98	6.65	16.20	19.77	10.77	116.16
2006	10.00	5.23	3.70	12.57	5.41	3.55	5.09	5.90	11.56	8.26	10.64	17.31	99.22
2007	9.95	7.49	11.83	10.88	3.56	2.44	5.91	4.22	7.20	23.40	8.95	9.63	105.46
2008	6.97	11.38	8.35	6.95	8.70	7.10	8.94	11.81	5.58	14.58	14.31	7.56	112.23
2009	11.98	6.91	7.67	4.31	3.74	3.00	3.62	8.96	13.09	9.85	12.41	3.41	88.95
2010	10.00	6.95	14.00	4.72	2.60	8.17	3.51	5.93	13.01	21.85	10.49	6.03	107.26
2011	10.24	5.46	6.49	4.01	6.76	2.06	7.92	14.61	18.09	16.01	11.72	10.28	113.65
2012	13.93	6.15	9.53	4.52	10.20	8.24	8.25	4.09	12.27	5.44	12.40	8.21	103.23
2013	8.20	13.36	4.36	6.56	6.82	3.98	3.60	4.71	7.72	8.76	13.40	18.38	99.85
POR= 72 YRS	10.13	8.49	8.53	7.81	6.06	4.89	4.92	6.86	9.91	15.48	12.46	11.53	107.07

WBAN : 25308

AVERAGE TEMPERATURE (°F) 2013 ANNETTE (PANT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	39.6	40.4	43.6	43.6	48.1	52.4	55.7	57.0	52.9	44.6	37.8	33.4	45.8
1985	42.0	34.8	38.4	40.8	48.3	51.7	59.9	56.2	52.3	43.4	27.6	38.3	44.5
1986	40.9	33.9	43.3	42.1	48.0	54.0	57.5	58.4	54.8	51.3	39.8	40.5	47.0
1987	38.8	41.2	38.9	43.5	48.8	53.4	58.9	60.2	53.9	47.3	43.7	38.2	47.2
1988	34.3	38.9	40.5	43.4	49.6	53.2	55.8	57.7	52.6	48.9	42.2	35.8	46.1
1989	34.0	31.2	38.0	46.7	50.6	56.5	59.8	60.0	56.7	46.4	40.6	43.1	47.0
1990	35.9	33.8	41.4	47.0	52.2	56.2	62.1	61.2	55.2	44.8	36.0	33.1	46.6
1991	32.0	40.8	36.9	43.7	49.8	54.6	57.4	59.2	54.5	45.1	43.9	41.5	46.6
1992	41.2	41.0	41.8	44.9	50.6	57.1	59.6	59.2	50.9	46.2	43.2	33.8	47.5
1993	33.5	41.0	41.0	47.5	55.7	57.2	60.8	61.3	56.7	49.5	41.0	41.5	48.9
1994	41.8	32.2	42.0	47.0	50.9	55.3	59.6	62.3	54.1	47.0	37.3	36.5	47.2
1995	38.5	38.1	39.6	47.8	53.5	57.3	60.6	57.5	57.9	47.4	41.3	37.2	48.1
1996	28.2	38.3	40.8	45.3	49.8	53.7	58.1	57.8	51.5	45.1	36.6	31.2	44.7
1997	35.1	39.9	36.8	44.1	52.2	55.7	58.4	62.1	55.7	46.6	43.0	41.7	47.6
1998	35.2	43.4	41.6	44.0	52.2	57.6	59.2	57.1	52.4	47.9	40.2	35.0	47.2
1999	35.4	36.3	38.7	42.3	45.1	52.1	56.3	56.5	50.1	45.4	40.5	38.4	44.8
2000	32.6	36.4	40.5	42.6	47.8	54.6	57.2	56.4	52.2	46.3	42.3	36.7	45.5
2001	40.7	35.3	38.1	43.0	45.6	52.4	56.0	58.5	53.1	45.2	39.4	37.2	45.4
2002	37.7	36.4	34.9	42.3	49.0	55.8	57.6	58.2	54.0	48.9	47.6	42.4	47.1
2003	43.3	40.0	40.1	46.8	50.4	56.6	59.6	59.0	55.3	50.3	38.5	38.6	48.2
2004	34.7	39.8	41.1	47.4	53.5	59.8	61.2	62.7	53.8	46.5	40.7	37.8	48.3
2005	35.5	37.8	41.7	47.4	54.3	57.4	57.5	60.2	54.4	47.2	41.3	40.6	47.9
2006	38.8	36.2	36.2	42.2	49.6	56.4	58.8	56.9	53.9	46.9	33.5	39.0	45.7
2007	35.9	37.9	37.2	43.1	48.4	54.8	58.6	60.0	53.6	47.0	40.0	33.7	45.9
2008	34.0	36.7	38.8	41.4	50.1	52.0	55.2	57.7	54.0	44.3	40.4	31.0	44.6
2009	34.3	32.4	35.1	42.9	49.7	56.4	61.4	59.9	54.1	47.3	41.5	33.8	45.7
2010	42.1	42.3	40.9	44.8	51.5	54.9	60.3	60.6	54.5	47.1	39.2	37.1	47.9
2011	36.0	33.0	39.1	41.6	48.9	55.1	56.2	56.4	53.7	46.7	37.2	36.9	45.1
2012	32.8	38.1	37.1	44.8	47.1	52.9	57.0	57.7	53.6	44.3	41.5	35.4	45.2
2013	39.5	39.7	38.5	43.1	51.4	57.6	60.3	60.0	56.1	48.3	40.1	35.7	47.5
POR= 72 YRS	34.6	36.7	38.8	43.2	49.5	54.4	58.1	58.5	53.7	46.7	39.7	36.3	45.9

HEATING DEGREE DAYS (base 65°F) 2013 ANNETTE (PANT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	278	242	354	627	807	970	705	837	819	719	509	393	7260
1985-86	159	269	377	661	1113	820	742	866	667	681	520	322	7197
1986-87	225	199	299	420	748	751	805	659	804	639	492	350	6391
1987-88	189	154	328	540	631	823	945	751	757	643	468	349	6578
1988-89	279	219	366	491	678	898	953	940	829	538	439	249	6879
1989-90	158	152	248	570	725	675	895	871	728	533	389	254	6198
1990-91	119	127	288	617	862	983	1018	673	864	635	463	310	6959
1991-92	228	197	309	612	626	721	732	690	713	595	441	240	6104
1992-93	164	176	415	576	648	961	970	666	735	516	291	229	6347
1993-94	125	134	247	471	712	719	713	912	707	533	433	283	5989
1994-95	168	101	319	552	823	877	816	746	779	509	350	240	6280
1995-96	147	228	207	538	704	854	1134	770	740	586	464	334	6706
1996-97	211	221	401	610	845	1040	920	698	870	622	390	271	7099
1997-98	200	106	271	562	654	714	916	596	718	621	392	218	5968
1998-99	183	239	373	522	737	920	911	796	807	673	609	380	7150
1999-00	267	262	441	600	729	818	998	826	753	665	528	307	7194
2000-01	234	262	376	572	675	869	746	826	830	651	593	372	7006
2001-02	273	200	348	606	762	856	837	796	926	675	490	274	7043
2002-03	224	205	322	490	517	693	665	693	766	539	446	248	5808
2003-04	164	185	287	443	787	810	931	725	734	522	348	198	6134
2004-05	117	83	328	566	723	837	907	753	715	521	326	236	6112
2005-06	224	152	311	544	705	747	807	802	886	677	471	257	6583
2006-07	190	244	327	555	936	797	893	752	856	647	506	298	7001
2007-08	193	150	337	551	744	962	953	815	806	703	455	383	7052
2008-09	296	219	322	635	731	1050	948	908	920	658	468	256	7411
2009-10	155	164	320	542	697	958	704	630	742	598	409	298	6217
2010-11	158	164	308	546	771	860	894	891	797	696	495	293	6873
2011-12	270	259	330	561	828	862	994	775	859	600	546	364	7248
2012-13	241	217	336	635	700	913	780	703	812	650	415	220	6622
2013-	152	151	260	509	740	899							

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COOLING DEGREE DAYS (base 65°F) 2013 ANNETTE (PANT)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	0	0	0	0	0	0	0	0	0
1985	0	0	0	0	0	0	7	2	0	0	0	0	9
1986	0	0	0	0	0	0	0	3	1	0	0	0	4
1987	0	0	0	0	0	10	5	10	0	0	0	0	25
1988	0	0	0	0	0	0	0	1	2	0	0	0	3
1989	0	0	0	0	0	1	5	2	5	0	0	0	13
1990	0	0	0	0	0	1	36	17	0	0	0	0	54
1991	0	0	0	0	0	6	3	23	0	0	0	0	32
1992	0	0	0	0	0	10	5	5	0	0	0	0	20
1993	0	0	0	0	10	0	4	26	5	0	0	0	45
1994	0	0	0	0	0	0	9	21	0	0	0	0	30
1995	0	0	0	0	0	16	14	0	0	0	0	0	30
1996	0	0	0	0	0	1	6	0	0	0	0	0	7
1997	0	0	0	0	0	1	0	24	0	0	0	0	25
1998	0	0	0	0	1	4	10	0	0	0	0	0	15
1999	0	0	0	0	0	0	3	4	0	0	0	0	7
2000	0	0	0	0	0	1	0	2	0	0	0	0	3
2001	0	0	0	0	0	0	0	5	0	0	0	0	5
2002	0	0	0	0	0	7	1	0	0	0	0	0	8
2003	0	0	0	0	0	2	4	4	0	0	0	0	10
2004	0	0	0	0	1	47	8	19	0	0	0	0	75
2005	0	0	0	0	0	14	0	11	0	0	0	0	25
2006	0	0	0	0	0	5	0	0	0	0	0	0	5
2007	0	0	0	0	0	0	3	2	0	0	0	0	5
2008	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	7	52	14	0	0	0	0	73
2010	0	0	0	0	0	0	16	34	0	0	0	0	50
2011	0	0	0	0	0	0	3	0	0	0	0	0	3
2012	0	0	0	0	0	6	1	0	0	0	0	0	7
2013	0	0	0	0	0	6	14	2	0	0	0	0	22

SNOWFALL (inches) 2013 ANNETTE (PANT)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.4	6.5	7.4	2.3	23.2	7.9	2.3	0.4	T	50.4
1985-86	0.0	0.0	0.0	1.5	5.4	1.2	1.1	1.8	0.2	5.2	T	0.0	16.4
1986-87	0.0	0.0	0.0	0.0	6.4	T	5.6	4.9	13.2	3.4	T	0.0	33.5
1987-88	0.0	0.0	0.0	0.0	1.5	7.3	3.1	3.2	3.6	4.7	T	T	23.4
1988-89	0.0	0.0	0.0	0.0	5.6	8.4	14.2	T	11.5	T	0.0	0.0	39.7
1989-90	0.0	0.0	0.0	0.0	T	0.0	4.4			0.0	0.0	0.0	
1990-91	0.0	0.0	0.0	0.0			T			0.8	T	0.0	
1991-92	0.0	0.0	0.0	0.6	0.0	2.0	1.1	6.5	T	0.0	0.0	0.0	10.2
1992-93	0.0	0.0	0.0	0.0	0.0		20.5	4.7	T	0.0	0.0	0.0	
1993-94	0.0	0.0	0.0	0.0	0.6	T	0.1	21.6	T	T	T	0.0	22.3
1994-95	0.0	0.0	0.0	0.0	24.8	10.2	T	4.0	8.5	T	0.0	0.0	47.5
1995-96	0.0	0.0	0.0	T	8.9	5.3	1.5	4.9	T	5.1	0.0	T	25.7
1996-97	0.0	0.0					11.4	0.0		T	0.0	0.0	
1997-98	0.0	0.0	0.0	T	T	4.0	8.8	T	2.2	0.2	0.0	0.0	15.2
1998-99	0.0	0.0	0.0	0.0	T	7.9	17.7	27.9	21.7	3.4	0.2	0.0	78.8
1999-00	0.0	0.0	0.0	0.0	1.9	8.5	15.1	3.5	2.1	4.0	0.0	0.0	35.1
2000-01	0.0	0.0	0.0	0.0	T	3.1	1.7	5.2	9.9	0.4	0.2	0.0	20.5
2001-02	0.0	0.0	0.0	T	2.0	32.5	13.5	20.9	3.7	2.3	0.0	0.0	74.9
2002-03	0.0	0.0	0.0	0.0	0.0	4.3	1.0	T	6.4	1.9	T	0.0	13.6
2003-04	0.0	0.0	0.0	0.0	1.5	9.9	11.7	0.1	3.3	0.5	0.0	T	27.0
2004-05	0.0	0.0	0.0	T	T	2.1	10.1	5.4	6.8	0.4	0.0	0.0	24.8
2005-06	0.0	0.0	0.0	T	11.4	5.2	7.8	6.2	15.0	3.8	0.7	0.0	50.1
2006-07	0.0	0.0	0.0	0.0	13.9	17.5	7.7	4.4	30.1	T	0.0	0.0	73.6
2007-08	0.0	0.0	0.0	T	0.4	16.5	14.3	21.9	8.6	1.8	0.0	0.0	63.5
2008-09	0.0	0.0	0.0	0.0	1.6	21.1	28.2	10.0	21.2	1.1	0.0	0.0	83.2
2009-10	0.0	0.0	0.0	0.0	1.4	2.8	0.4	T	3.0	0.7	0.0	0.0	8.3
2010-11	0.0	0.0	0.0	0.0	1.0	6.4	1.7	8.1	4.9	0.4	0.0	0.0	22.5
2011-12	0.0	0.0	0.0	0.0	11.3	2.9	14.1	7.0	14.3	0.8	0.0	0.0	50.4
2012-13	0.0	T	0.0	T	0.0	11.4	0.5	T	0.9	T	0.0	0.0	12.8
2013-	0.0	0.0	0.0	0.0	5.7	3.4							
POR= 70 YRS	0.0	T	0.0	0.1	3.5	10.2	10.9	9.2	8.4	1.9	0.1	T	44.3

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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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p>	<p>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 STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p>NOTE: The "Period of Record:(POR)" for all "averages" is based on "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2013 ANNETTE ALASKA (PANT)

Annette is located on Annette Island, one of the islands at the southern tip of the Alexander Archipelago of southeastern Alaska and is 20 airline miles south of Ketchikan.

Due to the proximity of Pacific Ocean waters, particularly to the south and west, the climate of Annette is maritime. Temperatures are relatively mild and daily variations between high and low readings are confined within rather narrow limits, with the ranges between average maximum and minimum readings for all months of the year averaging 8 to 13 degrees. Periods of sub-freezing temperatures seldom extend beyond ten days duration. A minimum reading below zero is a rare occurrence. Conversely, extreme high temperatures occur infrequently during the summer months. Temperatures reach the middle 80s nearly every summer. It is not unusual for daily maximum readings to remain in the 50s during the summer months.

Because it is located almost directly in the path of easterly-moving storms crossing the Gulf of Alaska, Annette experiences frequent and relatively heavy precipitation with annual amounts closely approximating that of the immediate coastal regions of Washington and Oregon. October

and November are usually the wettest months and the greatest percentage of precipitation, even in the winter months, occurs in the form of rain. Some snow, mixed with rain, may occur as early as October. However, appreciable snowfall seldom occurs from late March to late November. Accumulated snow depths of a foot or more are infrequent and, because of moderating temperatures, snow cover seldom persists beyond a week or two. Topography has a pronounced effect on precipitation in this region and Annette averages 65 percent as much as Ketchikan, only 20 miles to the north. Despite relatively heavy precipitation, flood damage is seldom of consequence because of the small drainage areas and steep topography which provide rapid escape of surface runoff into the sea.

Strong southeasterly winds are frequent from October through March. Thick fogs are infrequent and of short duration. Thunderstorms average one or two a year and generally are the result of frontal activity. The considerable amount of cloudiness prevalent over this area results in a corresponding low percentage of possible sunshine.

Station History

ANNETTE, AK

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ANNETTE	1942-09-01	1942-09-30	55° 1'	-131° 34'			AIRWAYS
ANNETTE	1941-01-01	1941-10-31	55° 1'	-131° 34'			AIRWAYS
ANNETTE	1943-11-01	1943-12-31	55° 1'	-131° 34'			AIRWAYS
ANNETTE ISLAND AP	1996-09-01	2008-04-01	55° 2'	-131° 34'	109		ASOS, COOP
ANNETTE ISLAND AP	2008-04-01	2010-11-25	55° 2'	-131° 34'	109		ASOS, COOP
ANNETTE ISLAND AP	2010-11-25	Present	55° 2'	-131° 34'	109		AIRWAYS, ASOS, COOP
ANNETTE ISLAND AP	1977-06-07	1992-06-26	55° 1'	-131° 34'	109	400 FT NE	COOP, WXSVC
ANNETTE	1947-01-01	1947-07-01	55° 1'	-131° 34'			AIRWAYS
ANNETTE ISLAND AP	1975-12-01	1977-06-07	55° 1'	-131° 34'	110		COOP, WXSVC
ANNETTE	1947-07-01	1973-01-01	55° 1'	-131° 34'	110		AIRWAYS, COOP
ANNETTE ISLAND AP	1992-06-26	1996-09-01	55° 1'	-131° 34'	109	400 UN E	COOP, WXSVC
ANNETTE	1973-01-01	1975-12-01	55° 1'	-131° 34'	110		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	2008-04-01	Present	DAILY	2400	PCPNX		
TEMP	1991-08-01	1995-07-01	DAILY	2400	MXMN		
PRECIP	1991-08-01	1995-07-01	DAILY		UNIV	RCRD	
TEMP	2008-04-01	Present	DAILY	2400	ATEMP		
PRECIP	1995-07-01	1996-09-01	DAILY	2400	UNIV	RCRD	
TEMP	1995-07-01	1996-09-01	DAILY	2400	MXMN		
TEMP	1996-09-01	1997-01-01	DAILY	2400	HYGR		
PRECIP	1997-01-01	2008-04-01	DAILY	2400	TB	RCRD	
PRECIP	1996-09-01	1997-01-01	DAILY	2400	TB	RCRD	
PRECIP	1997-01-01	2008-04-01	HOURLY	2400	TB	RCRD	
TEMP	1997-01-01	2008-04-01	DAILY	2400	HYGR		
TEMP	1941-01-01	1991-08-01	DAILY	2400			
PRECIP	1941-01-01	1991-08-01	DAILY		UNIV	RCRD	
PRECIP	2008-04-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	

* For explanation of codes and abbreviations see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

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