

2004

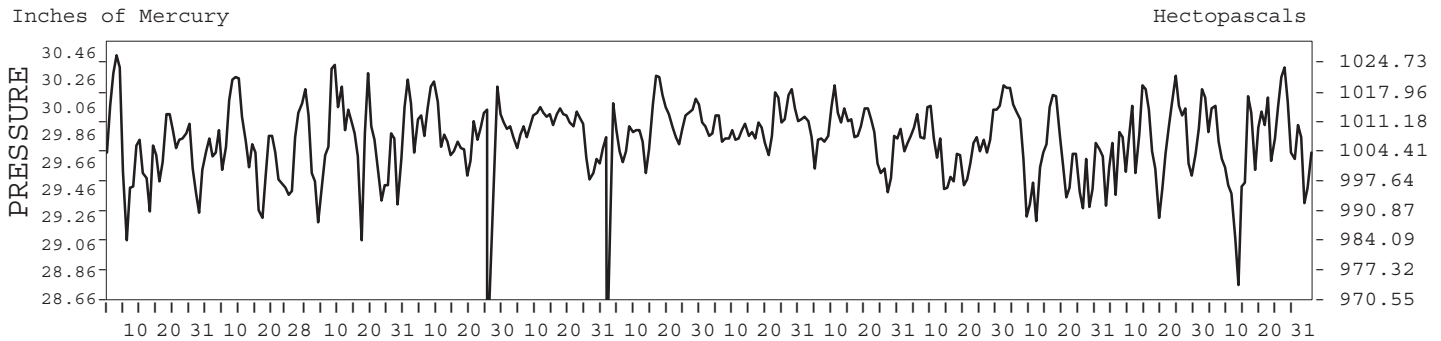
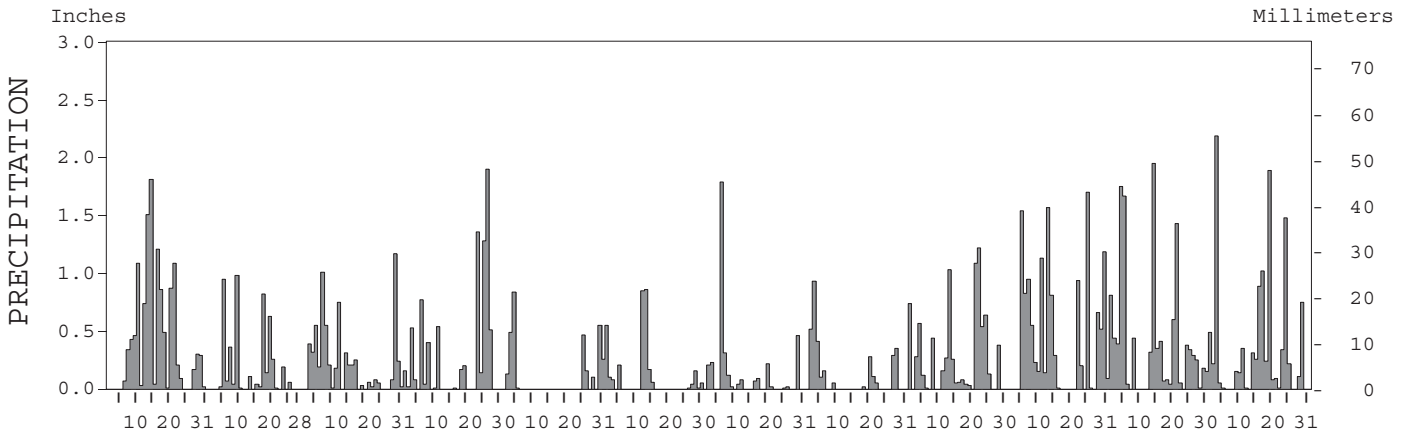
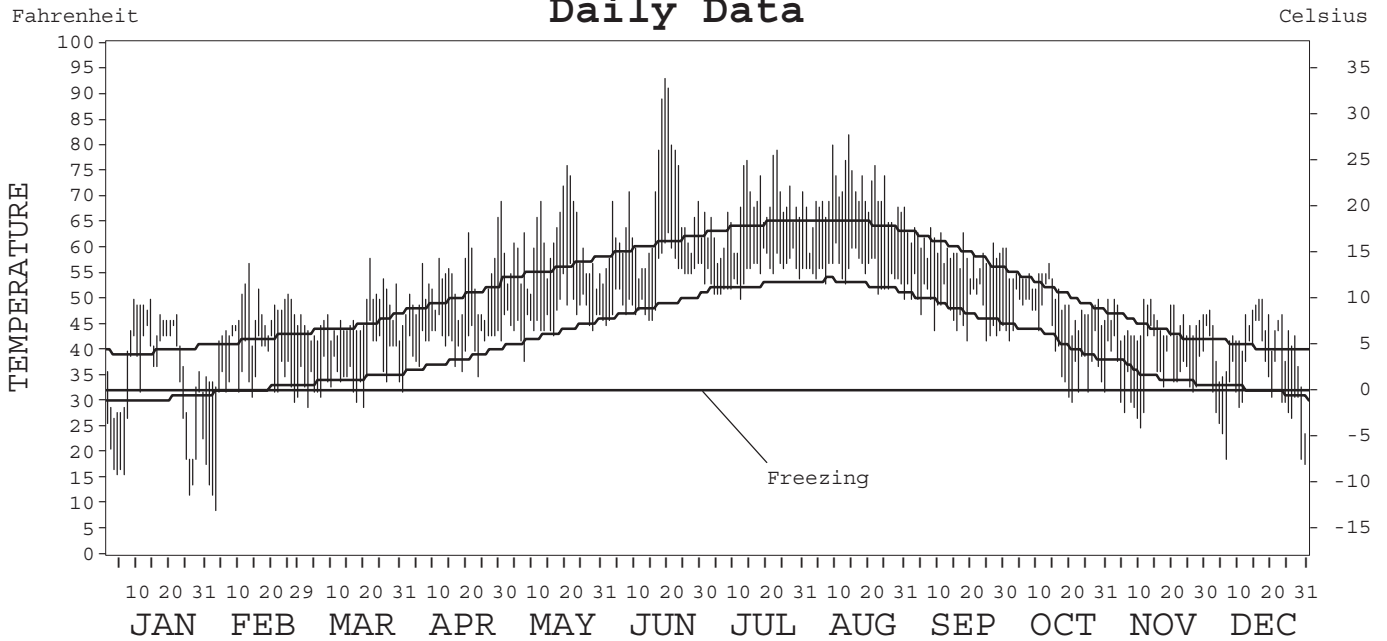
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9566

ANNETTE,  
ALASKA (ANN)

## Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 2004

## ANNETTE, AK (ANN)

LATITUDE: 55° 02' 36" N      LONGITUDE: 131° 34' 12" W      ELEVATION (FT): GRND: 111      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	38.6	45.7	46.5	53.3	60.3	67.0	67.4	70.0	59.4	51.1	45.6	42.2	53.9	
	HIGHEST DAILY MAXIMUM	50	57	58	69	76	93	79	82	64	60	50	50	93	
	DATE OF OCCURRENCE	14+	13	21	30	20	19	23	14	08+	01	14+	18+	JUN 19	
	MEAN DAILY MINIMUM	30.7	33.8	35.7	41.4	46.7	52.5	55.0	55.4	48.1	41.9	35.7	33.4	42.5	
	LOWEST DAILY MINIMUM	12	9	29	35	38	45	50	50	42	30	25	18	9	
	DATE OF OCCURRENCE	26	03	19+	23	07	01	12	31	25+	21	11	31	FEB 03	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	33.2	38.0	38.6		48.5		58.4	59.4	52.0		39.3	36.6		
	MEAN DEW POINT	28.4	35.0	34.5		43.4		56.4	57.0	50.4		37.0	33.3		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	3	9	9	12	0	0	0	0	0	33
	MAXIMUM ≤ 32°	9	0	0	0	0	0	0	0	0	0	0	1	10	
MINIMUM ≤ 32°	16	11	8	0	0	0	0	0	0	5	8	17	65		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	931	725	734	522	348	198	117	83	328	566	723	837	6112	
	COOLING DEGREE DAYS	0	0	0	0	1	47	8	19	0	0	0	0	75	
RH	MEAN (PERCENT)	78	83	78	77	72	76	86	84	89	83	87	82	81	
	HOUR 03 LST	79	88	85	84	86	89	96	96	97	86	87	85	88	
	HOUR 09 LST	78	83	76	74	67	74	83	80	85	82	85	84	79	
	HOUR 15 LST	77	74	69	66	60	63	76	70	79	79	84	79	73	
	HOUR 21 LST	79	85	82	82	79	80	91	89	93	85	90	83	85	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	2	0	0	3	2	1	3	1	4	0	0	16	
	THUNDERSTORMS	0	0	0	0	0	1	0	0	0	0	0	0	1	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	NUMBER OF DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESS. (IN.)	29.74	29.77	29.80		29.89		29.93	29.85	29.82	29.67	29.86	29.76		
	MEAN SEA-LEVEL PRESS. (IN.)	29.86	29.89	29.92		30.01		30.05	29.97	29.94		29.98	29.88		
WINDS	RESULTANT SPEED (MPH)	6.0	5.8	4.6		0.8		1.0	0.7	2.5	3.9	3.5	3.8		
	RES. DIR. (TENS OF DEGS.)	11	13	15		16		19	18	15	13	15	14		
	MEAN SPEED (MPH)	9.9	8.5	9.0	7.2	6.7	6.3	5.3	4.6	6.3	8.4	7.4	8.5	7.3	
	PREVAIL. DIR. (TENS OF DEGS.)	12	12	14	15	14	13	14	14	15	14	12	12	14	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	30	35	41	37	22	23	16	20	26	37	39	35	41	
	DIR. (TENS OF DEGS.)	14	13	14	14	12	12	15	14	12	14	14	14	14	
	DATE OF OCCURRENCE	14+	17	06	07	29+	11	05	02	12	31	14	16	MAR 06	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	40	46	54	55	30	28	22	29	38	49	51	49	55	
DIR. (TENS OF DEGS.)	14	14	14	15	13	14	14	13	14	13	13	15	15		
DATE OF OCCURRENCE	14	05	28+	07	02	11	05	02	21	31	14	18	APR 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	2.34	1.02	1.23	1.96	1.33	1.40	1.79	1.38	2.07	2.27	2.58	2.21	2.58	
	DATE OF OCCURRENCE	13-14	05-06	06-07	24-25	02-03	11-12	05	01-02	20-21	04-05	03-04	02-03	NOV 03-04	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	22	17	24	16	10	12	15	13	20	21	24	22	216		
PRECIPITATION ≥ 0.10	16	9	16	11	9	6	7	10	14	18	18	16	150		
PRECIPITATION ≥ 1.00	5	0	2	3	0	0	1	0	3	5	4	4	27		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	11.7	0.1	3.3	0.5	0.0	T	0.0	0.0	0.0	T	T	2.1	17.7	
	GREATEST 24-HOUR (IN.)	3.0	0.1	1.5	0.3	0.0	T	0.0	0.0	0.0	T	T	1.9	3.0	
	DATE OF OCCURRENCE	28	04	04	05		01				05	23+	10	JAN 28	
	MAXIMUM SNOW DEPTH (IN.)	6	5	0	0	0	0	0	0	0	0	0	1	6	
	DATE OF OCCURRENCE	30+	01										10	JAN 30+	
	NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	5	0	1	0	0	0	0	0	0	0	0	1	7		

# NORMALS, MEANS, AND EXTREMES

## ANNETTE, AK (ANN)

LATITUDE: 55° 02' 36" N      LONGITUDE: 131° 34' 12" W      ELEVATION (FT): GRND: 111      BARO: 114      TIME ZONE: ALASKA (UTC + 9)      WBAN: 25308

		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.7	41.9	44.7	49.8	55.7	60.3	64.1	64.6	59.6	51.4	44.2	40.7	51.4	
	MEAN DAILY MAXIMUM	56	39.0	41.8	44.1	49.6	55.9	60.6	64.2	64.6	59.7	51.7	44.4	40.4	51.3	
	HIGHEST DAILY MAXIMUM	57	61	65	64	82	88	93	90	89	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.	56	49.9	50.5	53.3	62.7	71.5	75.8	78.6	78.3	70.4	60.1	53.5	50.3	62.9	
	NORMAL DAILY MINIMUM	30	30.4	32.3	34.2	37.7	43.1	48.3	52.4	52.6	48.0	41.7	35.1	32.1	40.7	
	MEAN DAILY MINIMUM	56	29.6	32.1	33.5	37.5	42.8	48.2	52.1	52.4	48.1	41.9	35.4	31.8	40.4	
	LOWEST DAILY MINIMUM	57	1	2	1	21	31	37	40	40	33	18	-3	1	-3	
	YEAR OF OCCURRENCE		1982	1956	1955	1954	1971	1965	1973	1983	1984	1985	1964	1985	NOV 1985	
	MEAN OF EXTREME MINS.	56	14.8	19.5	23.1	29.8	35.3	42.2	46.6	46.1	39.7	31.7	23.7	16.9	30.8	
	NORMAL DRY BULB	30	35.1	37.1	39.5	43.8	49.4	54.3	58.2	58.6	53.8	46.5	39.7	36.4	46.0	
	MEAN DRY BULB	56	34.3	37.0	38.9	43.5	49.4	54.5	58.2	58.6	53.8	46.8	39.8	36.0	45.9	
	MEAN WET BULB	21	35.3	35.6	37.2	41.1	46.3	51.0	52.3	52.8	49.1	45.1	38.5	36.2	43.4	
	MEAN DEW POINT	21	31.1	29.7	31.0	34.9	40.0	45.3	49.5	50.3	47.0	42.5	35.2	33.0	39.1	
	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	0.0	
MAXIMUM ≤ 32°	30	4.6	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	3.2	11.7		
MINIMUM ≤ 32°	30	16.8	13.2	11.1	3.9	0.2	0.0	0.0	0.0	0.0	1.9	10.0	14.2	71.3		
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		
H/C	NORMAL HEATING DEG. DAYS	30	928	781	775	637	484	321	215	206	337	572	760	885	6901	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	5	8	0	0	0	0	13	
RH	NORMAL (PERCENT)															
	HOUR 03 LST	30	84	80	82	84	86	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															
S	PERCENT POSSIBLE SUNSHINE															
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG (VISBY ≤ 1/4 MI)	40	0.9	0.7	0.7	0.5	1.1	1.3	2.1	2.0	3.1	1.7	0.9	0.5	15.5	
	THUNDERSTORMS	40	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.2	0.3	0.4	0.1	1.6	
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)	19	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	43	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	43	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	43	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)	14	29.73	29.71	29.73	29.83	29.89	29.89	29.93	29.91	29.87	29.78	29.70	29.68	29.80	
	MEAN SEA-LEVEL PRES. (IN)	21	29.84	29.89	29.89	29.94	29.99	30.02	30.10	30.05	30.02	29.89	29.82	29.84	29.94	
WINDS	MEAN SPEED (MPH)	38	11.6	11.5	10.5	10.4	8.9	8.4	7.7	8.1	8.9	11.4	11.9	12.2	10.1	
	PREVAIL. DIR (TENS OF DEGS)	13	11	11	13	14	14	14	14	14	14	14	11	11	14	
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	8	40	46	41	37	35	29	32	32	38	48	41	44	48	
	DIR. (TENS OF DEGS)		14	13	14	14	14	14	13	14	13	13	14	13	13	
	YEAR OF OCCURRENCE		2003	1999	2004	2004	2001	2002	1998	2001	2003	1998	2001	2003	OCT 1998	
	MAXIMUM 5-SECOND:															
	SPEED (MPH)	8	56	62	54	55	49	43	41	44	49	64	53	60	64	
	DIR. (TENS OF DEGS)		12	13	14	15	14	13	13	14	14	12	14	15	12	
YEAR OF OCCURRENCE		2003	1999	2004	2004	2001	2002	1998	2001	1999	1998	2001	2003	OCT 1998		
PRECIPITATION	NORMAL (IN)	30	9.67	8.05	7.96	7.37	5.73	4.72	4.26	6.12	9.49	13.86	12.21	11.39	100.83	
	MAXIMUM MONTHLY (IN)	57	20.69	18.06	23.57	21.35	14.68	10.40	10.85	20.72	17.40	34.87	28.09	28.90	34.87	
	YEAR OF OCCURRENCE		1958	1965	1960	1949	1966	1956	1959	1958	1987	1958	1959	1959	OCT 1958	
	MINIMUM MONTHLY (IN)	57	0.77	0.12	2.13	1.23	1.57	0.61	0.56	0.71	2.52	7.03	3.61	3.86	0.12	
	YEAR OF OCCURRENCE		1950	1989	1983	1948	1968	1982	1971	1954	1965	2002	1970	1983	FEB 1989	
	MAXIMUM IN 24 HOURS (IN)	57	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	20.1	18.6	20.8	19.2	16.7	15.4	14.5	15.2	17.7	23.7	22.5	22.8	227.2	
PRECIPITATION ≥ 1.00	30	2.8	1.9	1.6	1.9	1.3	0.7	0.9	1.9	2.9	4.6	4.1	3.3	27.9		
SNOWFALL	NORMAL (IN)	30	11.3	10.1	7.1	2.9	0.*	0.0	0.0	0.0	0.0	0.1	3.6	8.3	43.4	
	MAXIMUM MONTHLY (IN)	57	36.3	33.4	46.9	22.2	5.0	T	0.0	0.0	0.0	4.2	24.8	44.8	46.9	
	YEAR OF OCCURRENCE		1974	1974	1971	1971	1964	1996				1956	1994	1964	MAR 1971	
	MAXIMUM IN 24 HOURS (IN)	57	12.3	14.2	11.8	14.0	5.0	T	0.0	0.0	0.0	3.2	9.6	14.5	14.5	
	YEAR OF OCCURRENCE		1972	1948	1971	1971	1964	1996				1956	1973	2001	DEC 2001	
	MAXIMUM SNOW DEPTH (IN)	55	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	3.2	3.0	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.1	1.2	2.5	12.5	

## PRECIPITATION (inches) 2004 ANNETTE, AK (ANN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	11.30	7.51	4.43	7.95	3.92	5.56	4.94	6.57	9.93	8.82	9.20	14.88	95.01
1976	16.61	9.94	11.92	8.79	9.78	4.44	6.61	7.56	13.15	11.40	10.02	15.49	125.71
1977	5.88	16.50	7.46	7.31	3.08	6.46	4.15	2.01	5.66	15.31	11.68	5.94	91.44
1978	3.01	6.10	7.67	5.84	3.92	0.95	1.78	6.00	11.66	15.95	14.39	11.35	88.62
1979	6.51	7.18	9.69	2.24	9.81	6.86	2.44	2.77	12.42	10.35	10.20	12.34	92.81
1980	4.89	8.14	9.72	16.88	4.55	0.81	6.72	6.56	8.09	18.35	17.37	14.11	116.19
1981	10.21	6.41	10.57	10.33	4.69	5.31	2.19	7.31	13.17	8.25	16.61	9.26	104.31
1982	8.80	3.53	6.16	7.48	7.56	0.61	4.73	1.85	5.54	15.55	8.57	7.31	77.69
1983	10.73	6.30	2.13	3.97	4.61	3.50	6.65	11.29	8.37	15.53	8.51	3.86	85.45
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
POR= 63 YRS	10.25	8.61	8.46	7.96	6.13	4.95	4.78	6.93	9.87	15.69	12.46	11.76	107.85

WBAN : 25308

## AVERAGE TEMPERATURE (°F) 2004 ANNETTE, AK (ANN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	30.5	30.3	35.1	40.6	46.9	50.6	56.2	55.9	53.8	46.0	37.2	37.3	43.4
1976	38.1	34.2	36.7	44.5	48.4	54.2	58.3	58.5	55.4	47.0	42.6	39.4	46.4
1977	37.2	43.7	39.5	44.6	49.9	53.3	56.3	62.9	53.5	46.7	35.6	30.0	46.1
1978	34.2	39.0	38.9	45.1	47.6	57.6	58.0	58.5	53.7	48.1	38.7	34.2	46.1
1979	30.7	31.6	41.3	44.0	47.7	52.4	59.1	60.5	55.4	49.0	43.1	37.2	46.0
1980	30.8	40.8	38.3	44.4	50.2	56.5	56.9	58.2	53.5	49.4	43.8	34.2	46.4
1981	45.6	39.6	42.7	42.4	52.2	53.0	60.1	60.2	54.1	46.8	43.2	36.2	48.0
1982	29.4	33.0	38.2	40.0	46.7	57.0	57.8	56.4	54.6	45.7	36.8	38.0	44.5
1983	40.3	43.2	42.9	47.1	50.9	55.3	58.1	57.7	52.0	46.7	41.5	32.9	47.4
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
POR= 64 YRS	34.6	37.0	38.9	43.4	49.5	54.1	58.1	58.6	53.9	46.9	39.8	36.2	45.9

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HEATING DEGREE DAYS (base 65°F) 2004 ANNETTE, AK (ANN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	271	276	328	584	825	852	827	888	867	610	509	315	7152
1976-77	216	194	283	550	666	787	856	591	786	604	462	344	6339
1977-78	262	119	338	560	876	1077	951	721	800	590	534	216	7044
1978-79	213	196	333	519	780	947	1055	930	728	621	532	373	7227
1979-80	176	137	280	490	652	854	1050	698	819	612	454	252	6474
1980-81	247	217	337	475	629	946	596	705	683	672	389	353	6249
1981-82	156	158	321	560	648	887	1096	893	824	740	561	232	7076
1982-83	224	263	305	592	839	828	755	605	679	529	432	287	6338
1983-84	209	222	387	561	699	987	779	709	654	639	518	371	6735
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-	117	83	328	566	723	837							

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COOLING DEGREE DAYS (base 65°F) 2004 ANNETTE, AK (ANN)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	0	0	8	0	0	0	0	0	8
1976	0	0	0	0	0	0	16	1	0	0	0	0	17
1977	0	0	0	0	0	0	0	60	0	0	0	0	60
1978	0	0	0	0	0	1	5	0	0	0	0	0	6
1979	0	0	0	0	0	0	1	8	0	0	0	0	9
1980	0	0	0	0	0	3	0	12	0	0	0	0	15
1981	0	0	0	0	0	0	11	17	0	0	0	0	28
1982	0	0	0	0	0	0	10	0	0	0	0	0	10
1983	0	0	0	0	0	2	1	0	0	0	0	0	3
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

SNOWFALL (inches) 2004 ANNETTE, AK (ANN)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	0.0	4.1	25.2	18.9	22.5	18.4	5.6	T	0.0	94.7
1976-77	0.0	0.0	0.0	1.5	T	1.8	0.7	1.2	1.1	3.1	0.0	0.0	9.4
1977-78	0.0	0.0	0.0	0.0	2.8	24.2	0.8	0.2	9.7	T	0.0	0.0	37.7
1978-79	0.0	0.0	0.0	0.0	7.4	10.3	17.5	30.4	4.9	1.2	T	0.0	71.7
1979-80	0.0	0.0	0.0	0.0	0.4	13.1	25.6	3.6	5.4	T	T	0.0	48.1
1980-81	0.0	0.0	0.0	0.0	2.4	9.0	0.0	0.1	0.7	T	0.0	0.0	12.2
1981-82	0.0	0.0	0.0	T	T	17.6	17.8	17.6	6.7	T	T	0.0	59.7
1982-83	0.0	0.0	0.0	T	T	1.4	9.8	0.2	T	0.0	0.0	0.0	11.4
1983-84	0.0	0.0	0.0	T	0.1	8.6	0.3	3.8	T	0.3	0.2	0.0	13.3
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-	0.0	0.0	0.0	T	T	2.1							
POR= 56 YRS	0.0	0.0	0.0	0.2	3.2	10.6	11.6	10.2	8.1	2.2	0.1	T	46.2

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REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2004  
ANNETTE,  
ALASKA (ANN)

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 LOCATION

ANNETTE, ALASKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	REMARKS
						SEA LEVEL GROUND TEMPERATURE	GROUND								HYGROMETER		
							WIND INSTRUMENT	EXTREME THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	WINDHANG	8 INCH RAIN GAGE				
*NOTE: <u>AIRPORT</u> Annette Airport (CAA) + (USCG Hangar) + Federal Aviation Airport (Eff. 1959)++ ++ Annette Island AP (Eff. 1975)	7/1/50	6/7/77	Not Moved	55°02'	131°34'	110	62 a53 c20	12	12	NA	NA	b5	2	NA d4	NA	Instrument relocations and additions. a. Effective 7/6/50. b. Inoperative 4/23/53-12/31/53. c. Effective 3/5/60. d. Commissioned 1250' NE of thermometer site 4/1/60.	
Annette Island Airport	6/7/77	09/01/96	400 ft. NNE	55°02'	131°34'	109	30 f30	10	10	NA	NA e3	6	3	NA g6	NA	e. Installed 9/1/80. f. Minor adjustment 1/18/85. g. Commissioned 10/1/85.	
Annette Island Airport	09/01/96	Present	NA	55°03'	131°34'	h111									S	ASOS Commissioned 09/01/96 h. Ground elevation.	

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