

2004

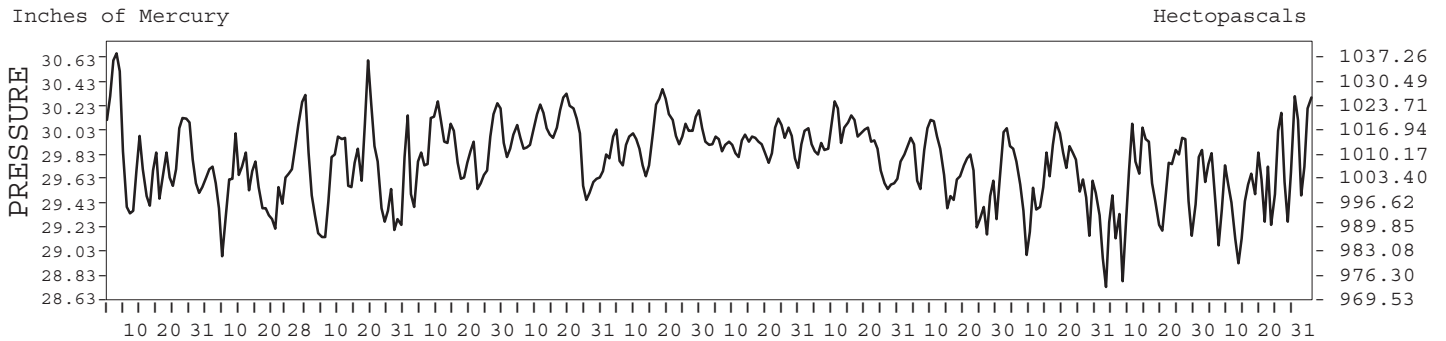
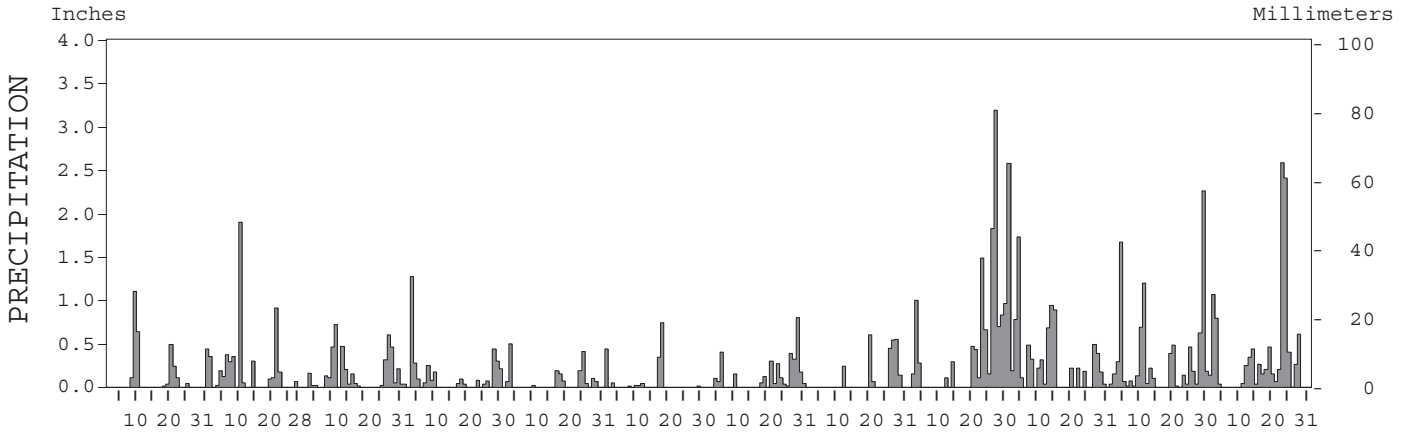
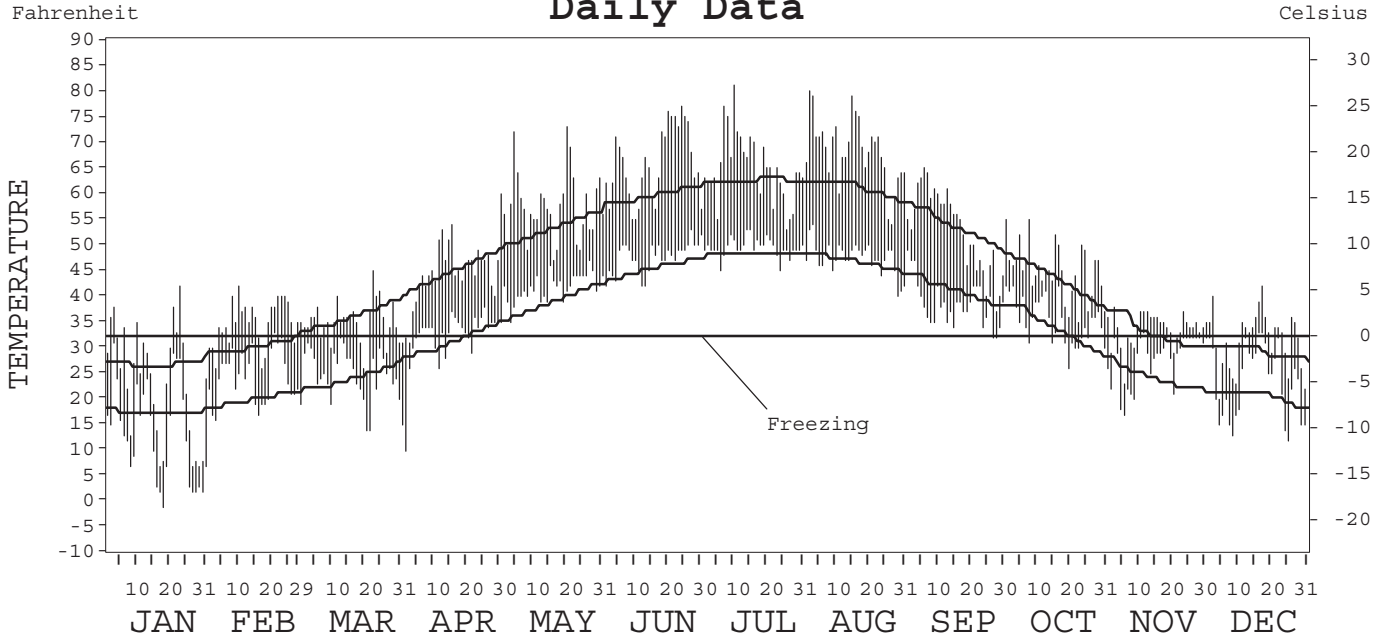
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0548

VALDEZ, ALASKA (VWS)

Daily Data



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METEOROLOGICAL DATA FOR 2004

VALDEZ, AK (VWS)

LATITUDE: 61° 08' 0" N LONGITUDE: 146° 21' 0" W ELEVATION (FT): GRND: 37 BARO: 52 TIME ZONE: ALASKA (UTC + 9) WBAN: 26442

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	23.7	34.9	34.8	45.0	57.5	65.7	64.8	68.2	53.1	44.9	33.6	31.5	46.5	
	HIGHEST DAILY MAXIMUM	42	42	45	60	73	77	81	80	65	55	38	42	81	
	DATE OF OCCURRENCE	23	10	22	30	20	24	10	02	06	08+	03	18	JUL 10	
	MEAN DAILY MINIMUM	13.5	24.2	24.7	32.4	41.8	47.6	49.5	47.4	38.6	35.3	27.8	23.5	33.9	
	LOWEST DAILY MINIMUM	-1	16	14	10	35	42	45	40	32	26	17	12	-1	
	DATE OF OCCURRENCE	18	03	21+	01	03	13+	24+	29	28+	20	06	26	JAN 18	
	AVERAGE DRY BULB	18.6	29.6	29.8	38.7	49.7	56.7	57.2	57.8	45.9	40.1	30.7	27.5	40.2	
	MEAN WET BULB	15.5	27.9	27.4	35.4	45.3	51.8	53.8	52.8	41.9	37.4	29.9			
	MEAN DEW POINT	4.5	24.2	21.8	30.6	40.8	47.9	51.6	49.2	37.4	33.4	27.3			
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	2	10	7	14	0	0	0	0	0	33
MAXIMUM ≤ 32°	24	8	8	2	0	0	0	0	0	0	8	14	64		
MINIMUM ≤ 32°	31	28	31	9	0	0	0	0	2	10	29	29	169		
MINIMUM ≤ 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1429	1022	1085	780	470	243	235	220	568	763	1021	1154	8990	
	COOLING DEGREE DAYS	0	0	0	0	0	0	1	4	0	0	0	0	5	
RH	MEAN (PERCENT)	56	81	75	76	76	76	86	79	77	81	87	76	77	
	HOUR 03 LST	57	84	80	84	89	92	96	94	87	84	86	78	84	
	HOUR 09 LST	53	86	75	74	76	75	88	79	78	83	86	76	77	
	HOUR 15 LST	56	73	67	65	61	60	74	62	64	75	86	77	68	
	HOUR 21 LST	60	83	76	78	74	77	86	85	81	81	88	76	79	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	1	0	0	0	0	5	5	0	2	2	0	15	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	2	0	1	1	3	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)	5	7	6	7	6	5	7	4	6	7	8			
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)	4	7	6	7	6	5	7	4	6	7	8			
	SATELLITE (> 12,000 FT.)														
NUMBER OF DAYS WITH:															
CLEAR	9	2	5	2	5	9	2	12	5	2	1				
PARTLY CLOUDY	10	5	8	6	7	3	5	13	9	5	0				
CLOUDY	12	22	18	22	19	18	24	6	16	24	29				
PR	MEAN STATION PRESS. (IN.)	29.83	29.62	29.67	29.89	29.96	30.01	29.95	29.92	29.69	29.55	29.63			
	MEAN SEA-LEVEL PRESS. (IN.)	29.87	29.66	29.72	29.94	30.01	30.06	29.99	29.96	29.74	29.60	29.67			
WINDS	RESULTANT SPEED (MPH)	9.4	2.3	3.6	0.4	3.5	4.1	2.7	2.4	0.7	2.0	3.0			
	RES. DIR. (TENS OF DEGS.)	06	06	04	28	25	26	25	25	34	06	06			
	MEAN SPEED (MPH)	13.0	4.3	6.9	4.5	5.5	6.2	4.5	4.6	5.2	5.3	5.4	7.6	6.1	
	PREVAIL. DIR. (TENS OF DEGS.)	06	06	07	24	24	24	24	24	24	06	07	07	24	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	46	20	48	17	23	24	20	18	24	28	20	41	48	
	DIR. (TENS OF DEGS.)	03	06	03	03	07	02	02	02	01	07	09	01	03	
	DATE OF OCCURRENCE	06	17+	18	08	04	23	15	04	17	24	02	29+	MAR 18	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	62	29	77	28	43	33	29	36	43	43	33	77	77	
DIR. (TENS OF DEGS.)	N	NE	N	W	NE	W	W	NE	NW	NE	E	36	36		
DATE OF OCCURRENCE	06	17	18	04+	04	23	21	02	04	24	01	29	DEC 29		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.21	5.28	4.23	3.48	2.23	1.23	3.36	2.58	15.23	8.41	9.56	10.74	69.54	
	GREATEST 24-HOUR (IN.)	1.10	1.90	0.72	1.27	0.50	0.74	0.80	0.60	3.23	1.73	2.26	2.59	3.23	
	DATE OF OCCURRENCE	09	10	10	02	02	17	28	19	25-26	03	28	22	SEP 25-26	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	10	15	21	16	12	8	17	7	17	20	25	20	188	
PRECIPITATION ≥ 0.10	7	11	12	7	7	2	11	6	17	17	17	16	130		
PRECIPITATION ≥ 1.00	1	1	0	1	0	0	0	0	5	1	3	3	15		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	70.3	56.4	72.4	28.2	0.0	0.0	0.0	0.0	4.0	8.8	69.6	69.8	379.5	
	GREATEST 24-HOUR (IN.)	30.0	11.4	10.6	22.3	0.0	0.0	0.0	0.0	4.0	3.5	11.8	23.2	30.0	
	DATE OF OCCURRENCE	09	10	26	02					28	23	09	22	JAN 09	
	MAXIMUM SNOW DEPTH (IN.)	56	50	54	65	3	0	0	0	2	3	20	47	65	
	DATE OF OCCURRENCE	10	11	29	03	01				29	24	10	24	APR 03	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	6	10	15	3	0	0	0	0	1	3	13	13	64		

NORMALS, MEANS, AND EXTREMES

VALDEZ, AK (VWS)

LATITUDE: 61° 08' 0" N LONGITUDE: 146° 21' 0" W ELEVATION (FT): GRND: 37 BARO: 52 TIME ZONE: ALASKA (UTC + 9) WBAN: 26442

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	26.6	30.0	35.8	44.4	52.9	59.4	62.3	60.8	53.3	43.0	32.7	29.1	44.2
	MEAN DAILY MAXIMUM	29	28.5	30.9	36.6	44.7	53.6	60.2	62.3	61.0	53.5	43.4	33.0	29.6	44.8
	HIGHEST DAILY MAXIMUM	33	46	52	53	67	78	86	85	83	74	58	50	52	86
	YEAR OF OCCURRENCE		1991	1991	1998	2003	1993	1997	1999	2003	1996	1995	2002	1983	JUN 1997
	MEAN OF EXTREME MAXS.	29	39.7	41.4	45.8	56.0	66.4	73.1	75.4	75.3	65.5	53.7	42.9	41.0	56.4
	NORMAL DAILY MINIMUM	30	17.2	19.6	23.8	30.9	38.6	45.0	48.0	46.4	40.9	33.4	23.9	20.2	32.3
	MEAN DAILY MINIMUM	29	19.9	21.3	24.9	31.4	39.2	45.4	48.3	46.6	41.1	33.8	24.5	21.1	33.1
	LOWEST DAILY MINIMUM	33	-20	-10	-6	5	21	31	33	32	25	8	1	-6	-20
	YEAR OF OCCURRENCE		1972	1999	1972	1972	1972	1972	1972	1984	1983	1975	1989	1980	JAN 1972
	MEAN OF EXTREME MINS.	29	5.1	7.6	12.6	21.3	32.8	39.6	43.3	39.8	32.4	23.1	12.7	6.7	23.1
	NORMAL DRY BULB	30	21.9	24.8	29.8	37.7	45.8	52.2	55.2	53.6	47.1	38.2	28.3	24.7	38.3
	MEAN DRY BULB	29	24.3	26.2	30.7	38.1	46.4	52.8	55.4	53.7	47.3	38.6	28.7	25.2	39.0
	MEAN WET BULB	21	22.5	24.1	27.4	34.4	42.2	48.9	52.1	50.5	44.5	35.4	26.4	24.5	36.1
	MEAN DEW POINT	21	16.7	18.0	19.5	27.8	36.8	45.0	49.4	47.9	41.2	29.9	20.0	19.1	30.9
	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	19.4	13.6	6.1	0.9	0.0	0.0	0.0	0.0	0.0	1.3	12.5	18.4	72.2	
MINIMUM ≤ 32°	30	29.5	26.7	28.5	16.7	1.3	0.0	0.0	*	1.3	11.9	27.1	29.7	172.7	
MINIMUM ≤ 0°	30	1.2	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.8	
H/C	NORMAL HEATING DEG. DAYS	30	1336	1126	1091	821	596	383	306	353	537	832	1101	1251	9733
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	74	72	70	72	73	76	82	84	84	74	72	76	76
	HOUR 03 LST	30	75	74	74	81	85	90	93	93	91	77	74	77	82
	HOUR 09 LST	30	74	73	70	70	72	77	83	85	86	76	73	77	76
	HOUR 15 LST	30	72	68	63	61	61	64	70	73	73	67	68	76	68
	HOUR 21 LST	30	74	74	72	75	73	76	83	86	87	75	73	77	77
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	27	0.9	1.2	0.7	0.4	0.1	0.3	2.9	4.2	2.0	1.3	1.1	1.0	16.1
	THUNDERSTORMS	27	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.2	0.5	0.1	0.1	0.0	1.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	23	6.1	6.1	5.3	5.8	6.0	6.3	6.7	6.1	6.3	6.1	6.0	6.3	6.1
	MIDNIGHT-MIDNIGHT (OKTAS)	26	5.8	5.7	5.2	5.6	6.1	6.4	6.7	6.1	6.2	6.2	5.7	5.9	6.0
	MEAN NO. DAYS WITH:														
CLEAR	24	5.4	5.2	8.0	5.7	4.1	3.2	2.8	4.1	3.3	4.3	5.3	4.5	55.9	
PARTLY CLOUDY	24	4.2	3.2	4.4	5.6	6.7	6.0	4.6	6.3	4.9	3.7	3.6	2.6	55.8	
CLOUDY	24	21.4	19.8	18.6	18.7	20.3	20.8	22.6	19.5	20.6	22.2	20.1	22.6	247.2	
PR	MEAN STATION PRESSURE (IN)	25	29.66	29.75	29.75	29.81	29.89	29.93	29.99	29.92	29.82	29.67	29.61	29.64	29.79
	MEAN SEA-LEVEL PRES. (IN)	21	29.70	29.79	29.81	29.85	29.92	29.97	30.03	29.95	29.84	29.70	29.66	29.65	29.82
WINDS	MEAN SPEED (MPH)	21	7.8	7.7	7.0	5.2	5.8	5.9	5.0	4.2	4.9	6.4	7.3	6.8	6.2
	PREVAIL. DIR (TENS OF DEGS)	24	06	06	06	24	24	24	24	24	24	06	06	06	06
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	27	58	56	48	46	33	35	39	38	46	40	53	54	58
	DIR. (TENS OF DEGS)		36	34	03	01	34	03	19	01	01	01	01	35	36
	YEAR OF OCCURRENCE		1989	1979	2004	1996	2000	1996	2003	1999	1988	1999	1978	1979	JAN 1989
PEAK GUST:															
SPEED (MPH)	25	94	94	82	63	52	62	41	64	69	69	77	75	94	
DIR. (TENS OF DEGS)		N	E	NE	N	NE	N	N	N	NE	N	N	N	E	
YEAR OF OCCURRENCE		1980	2001	1995	1996	1996	1999	1987	1999	2003	1997	1995	1990	FEB 2001	
PRECIPITATION	NORMAL (IN)	30	6.02	5.53	4.49	3.55	3.08	3.01	3.84	6.62	9.59	8.58	5.51	7.59	67.41
	MAXIMUM MONTHLY (IN)	33	15.18	14.47	9.99	8.11	6.65	6.05	8.96	18.23	16.69	15.43	20.59	17.34	20.59
	YEAR OF OCCURRENCE		2001	1996	1979	1977	1998	1987	1981	1981	1982	1979	1976	1989	NOV 1976
	MINIMUM MONTHLY (IN)	33	0.01	0.57	0.81	0.57	0.70	0.93	1.25	2.08	2.78	2.49	0.42	1.34	0.01
	YEAR OF OCCURRENCE		1974	1989	1983	1981	1996	1983	1993	1987	1973	1990	1975	1983	JAN 1974
	MAXIMUM IN 24 HOURS (IN)	27	3.75	3.05	2.20	2.08	2.23	1.71	1.98	3.42	3.26	3.96	3.42	4.35	4.35
	YEAR OF OCCURRENCE		1981	1996	1981	2002	1994	1989	1981	1981	1982	1983	1992	1999	DEC 1999
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	17.1	14.9	15.4	14.2	16.6	15.0	16.9	16.7	19.9	18.4	15.0	17.9	198.0	
PRECIPITATION ≥ 1.00	30	1.5	1.6	0.8	0.5	0.3	0.2	0.3	1.5	2.9	2.3	1.5	2.6	16.0	
SNOWFALL	NORMAL (IN)	30	65.3	57.5	56.0	22.0	1.2	0.0	0.0	0.0	0.4	11.9	41.0	74.6	329.9
	MAXIMUM MONTHLY (IN)	33	148.5	180.0	113.9	74.2	24.0	0.0	0.0	0.0	6.0	39.0	108.2	137.1	180.0
	YEAR OF OCCURRENCE		1990	1996	1985	1999	2001				1996	1983	1994	1991	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	27	47.5	38.1	41.5	33.3	15.1	0.0	0.0	0.0	5.4	23.6	28.1	37.3	47.5
	YEAR OF OCCURRENCE		1990	1996	1995	1992	2001				1996	1999	1999	2002	JAN 1990
	MAXIMUM SNOW DEPTH (IN)	28	107	94	104	88	51	0	0	0	2	12	41	60	107
YEAR OF OCCURRENCE		1990	1990	1990	1990	1977				2004	1982	1994	1994	JAN 1990	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	10.9	9.3	10.1	4.5	0.4	0.0	0.0	0.0	0.1	3.0	8.1	12.0	58.4	

PRECIPITATION (inches) 2004 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	5.24	3.98	2.00	5.42	1.95	2.74	4.30	3.41	12.83	5.51	0.42	6.36	54.16
1976	7.00	2.27	3.80	5.47	2.53	1.00	1.87	3.03	12.58	9.53	20.59	8.29	77.96
1977	11.76	7.95	3.45	8.11	2.89	1.81	2.24	2.50	12.53	5.81	0.70	2.66	62.41
1978	4.18	6.18	2.14	1.25	2.14	3.28	3.81	2.17	4.94	15.38	3.27	6.07	54.81
1979	2.66	1.00	9.99	1.09	1.09	2.91	6.04	6.20	8.05	15.43	13.82	5.14	73.42
1980	8.56	9.64	3.27	2.90	3.32	3.22	7.70	6.72	4.78	9.21	4.73	5.08	69.13
1981	12.53	7.13	6.87	0.57	1.87	4.57	8.96	18.23	6.24	11.80	6.76	7.77	93.30
1982	0.99	1.77	5.42	2.44	1.22	3.27	4.83	2.73	16.69	8.10	5.15	8.96	61.57
1983	3.10	3.24	0.81	7.15	2.06	0.93	6.32	10.53	7.91	14.15	1.94	1.34	59.48
1984	10.55	7.37	3.89	3.06	0.71	3.63	3.99	6.12	5.00	6.01	4.21	6.51	61.05
1985	10.30	5.38	8.20	2.78	4.74	2.09	1.86	7.36	10.59	3.77	2.49	16.87	76.43
1986	7.21	7.34	3.59	1.72	1.86	1.40	5.27	7.64	4.93	8.57	7.15	15.73	72.41
1987	12.42	5.65	1.24	1.63	3.85	6.05	2.84	2.08	10.61	15.33	6.49	8.69	76.88
1988	4.33	9.76	9.52	5.29	2.76	5.04	3.46	12.78	9.31	11.02	2.59	15.11	90.97
1989	6.01	0.57	1.49	5.30	5.99	5.88	3.18	6.66	16.43	9.21	8.06	17.34	86.12
1990	9.51	5.90	7.88	3.08	2.34	3.04	3.14	5.66	16.05	2.49	0.97	7.31	67.37
1991	6.47	6.13	4.50	4.82	4.30	2.02	4.01	5.68	11.07	5.12	3.89	9.58	67.59
1992	9.55	9.01	9.88	2.80	1.88	3.11	3.63	8.96	6.01	10.47	14.25	5.59	85.14
1993	7.06	7.93	2.62	1.57	2.86	1.59	1.25	13.18	16.16	11.90	8.64	10.28	85.04
1994	4.62	2.44	9.81	3.79	6.28	2.58	2.62	3.34	9.94	7.62	7.85	8.41	69.30
1995	5.86	3.23	4.60	2.10	6.29	3.36	4.94	3.04	14.21	3.61	1.41	2.68	55.33
1996	0.23	14.47	3.33	2.49	0.70	2.81	4.91	7.78	6.63	4.70	1.46	1.42	50.93
1997	4.91	8.40	1.33	1.53	3.50	2.94	2.45	13.34	10.55	3.59	7.16	8.45	68.15
1998	2.67	2.77	2.58	6.57	6.65	4.15	3.20	8.07	8.71	7.93	1.71	2.64	57.65
1999	5.14	2.14	4.70	7.27	1.87	2.14	2.78	3.97	11.37	11.89	2.20	16.96	72.43
2000	9.78	6.22	4.71	2.29	2.21	1.32	3.26	3.84	7.58	7.89	7.05	6.20	62.35
2001	15.18	6.87	6.21	5.08	3.61	1.08	6.09	3.85	5.97	7.10	2.68	5.89	69.61
2002	9.00	5.54	1.32	4.22	2.22	3.07	3.36	10.71	8.41	15.40	15.06	5.81	84.12
2003	3.86	14.23	1.70	1.42	3.57	4.43	4.27	8.34	4.76	7.18	4.65	6.60	65.01
2004	3.21	5.28	4.23	3.48	2.23	1.23	3.36	2.58	15.23	8.41	9.56	10.74	69.54
POR= 33 YRS	6.41	5.81	4.38	3.65	2.97	2.89	3.80	6.57	9.54	8.80	5.96	7.59	68.37

WBAN : 26442

AVERAGE TEMPERATURE (°F) 2004 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	19.6	21.1	27.6	35.3	44.0	50.2	55.3	54.5	46.5	37.3	23.4	19.7	36.2
1976	22.3	19.4	29.0	36.5	43.6	52.8	55.6	53.6	46.2	36.7	33.7	28.2	38.1
1977	30.5	32.0	30.1	36.2	42.9	51.3	55.7	54.9	48.3	40.9	24.4	19.0	38.9
1978	26.7	28.8	31.9	39.7	46.2	50.5	52.8	55.3	48.4	38.3	29.4	24.7	39.4
1979	25.1	15.5	31.8	38.4	46.2	51.3	55.6	54.4	49.8	41.5	33.1	19.8	38.5
1980	21.1	29.8	31.5	39.5	44.9	51.3	54.6	51.9	47.0	38.8	33.9	14.5	38.2
1981	33.5	26.8	34.2	37.5	49.7	52.3	53.3	51.4	46.4	39.4	27.3	24.5	39.7
1982	15.4	23.6	29.3	35.5	45.0	51.7	54.1	54.1	46.4	34.1	27.3	26.0	36.9
1983	20.7	28.1	31.8	37.3	46.2	53.7	55.2	52.0	45.0	37.9	30.1	24.8	38.6
1984	24.1	26.3	35.1	38.6	47.2	52.6	54.5	54.3	47.8	39.3	27.0	26.1	39.4
1985	32.9	20.1	29.3	32.6	42.4	48.5	53.9	50.9	46.1	34.4	21.7	29.8	36.9
1986	28.0	27.5	27.7	32.1	46.1	52.0	55.3	50.8	48.3	40.6	27.7	31.1	38.9
1987	28.2	30.9	28.8	38.1	45.9	49.4	55.6	55.1	46.6	39.7	33.5	26.8	39.9
1988	25.2	28.1	33.5	38.2	45.6	52.2	54.6	52.5	46.5	38.8	28.3	27.2	39.2
1989	15.7	23.7	30.2	39.6	46.4	52.2	57.8	54.6	48.3	38.1	23.5	30.2	38.4
1990	21.0	15.5	32.6	40.3	47.5	53.9	55.6	54.5	47.7	38.7	22.0	23.6	37.7
1991	23.7	28.8	30.6	39.0	45.6	53.8	53.8	53.8	47.3	39.0	30.4	27.6	39.5
1992	29.4	25.2	29.5	38.4	45.9	53.4	55.3	51.4	43.3	35.6	31.1	23.0	38.5
1993	21.9	28.4	32.2	41.8	50.2	54.4	58.7	54.2	46.1	40.8	30.7	28.7	40.7
1994	24.8	21.2	30.7	39.3	45.3	53.9	55.2	56.4	47.8	39.3	23.9	24.7	38.5
1995	24.3	26.5	26.7	41.6	47.4	53.3	54.4	54.1	49.4	40.5	30.0	23.7	39.3
1996	15.8	24.3	32.8	38.5	49.9	54.8	56.2	53.8	46.4	34.7	25.1	25.2	38.1
1997	22.2	31.9	29.4	40.2	49.4	56.7	57.3	55.4	49.6	37.2	33.2	28.1	40.9
1998	23.6	31.5	32.5	39.2	45.1	53.3	56.0	52.4	48.0	39.0	30.8	24.3	39.6
1999	20.6	18.3	29.2	37.7	46.0	54.3	57.2	55.7	47.1	38.0	28.4	23.7	38.0
2000	21.7	29.4	32.8	38.4	46.8	53.3	54.0	54.7	48.3	38.2	31.9	28.7	39.9
2001	31.3	28.8	31.1	37.6	44.1	54.7	54.2	54.2	47.3	36.1	27.0	21.3	39.0
2002	27.0	26.1	27.5	35.3	47.6	53.5	55.8	53.5	48.6	42.6	37.9	28.2	40.3
2003	28.2	31.1	29.1	40.8	47.9	53.5	57.6	53.6	49.4	41.8	26.8	27.1	40.6
2004	18.6	29.6	29.8	38.7	49.7	56.7	57.2	57.8	45.9	40.1	30.7	27.5	40.2
POR= 33 YRS	23.3	25.5	30.3	37.5	46.0	52.4	55.6	53.9	47.4	38.5	28.7	25.0	38.7

HEATING DEGREE DAYS (base 65°F) 2004 VALDEZ, AK (VWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	292	317	548	854	1241	1401	1319	1315	1107	848	655	358	10255
1976-77	285	346	558	873	934	1137	1060	920	1076	858	680	403	9130
1977-78	280	305	496	741	1210	1422	1181	1008	1021	754	575	429	9422
1978-79	374	294	491	820	1059	1244	1229	1379	1020	792	575	402	9679
1979-80	287	326	449	724	948	1397	1353	1016	1032	762	617	405	9316
1980-81	315	401	535	804	925	1561	970	1065	948	819	470	370	9183
1981-82	359	415	551	784	1122	1250	1531	1151	1101	880	612	392	10148
1982-83	330	332	552	951	1124	1200	1369	1029	1022	823	578	334	9644
1983-84	297	397	595	830	1039	1237	1260	1119	919	787	547	366	9393
1984-85	316	326	510	789	1134	1202	989	1252	1101	967	693	485	9764
1985-86	338	429	561	942	1294	1085	1140	1041	1150	979	577	384	9920
1986-87	295	433	494	752	1112	1046	1134	950	1115	799	589	464	9183
1987-88	295	298	546	778	939	1180	1229	1066	967	798	596	379	9071
1988-89	313	379	548	802	1097	1166	1521	1151	1072	757	569	377	9752
1989-90	219	316	496	829	1236	1072	1357	1378	995	733	534	327	9492
1990-91	288	320	510	805	1282	1277	1271	1009	1058	771	595	329	9515
1991-92	340	343	525	802	1028	1152	1100	1152	1093	792	583	343	9253
1992-93	296	412	644	903	1009	1296	1329	1018	1010	689	453	312	9371
1993-94	199	329	559	744	1022	1116	1238	1217	1058	764	607	327	9180
1994-95	299	261	508	791	1225	1243	1255	1073	1178	697	537	346	9413
1995-96	323	332	462	755	1046	1274	1518	1175	987	786	461	299	9418
1996-97	264	341	553	932	1190	1232	1321	923	1096	736	477	249	9314
1997-98	233	291	454	859	946	1136	1276	935	1002	768	611	347	8858
1998-99	273	383	503	802	1020	1254	1371	1301	1103	813	577	314	9714
1999-00	242	281	530	832	1089	1275	1335	1027	991	792	552	343	9289
2000-01	335	311	495	822	986	1118	1039	1007	1044	816	643	304	8920
2001-02	330	328	521	889	1132	1349	1169	1082	1154	885	533	340	9712
2002-03	279	349	485	690	804	1134	1134	946	1107	720	523	335	8506
2003-04	228	348	458	711	1138	1169	1429	1022	1085	780	470	243	9081
2004-	235	220	568	763	1021	1154							

WBAN : 26442

COOLING DEGREE DAYS (base 65°F) 2004 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1975	0	0	0	0	0	0	0	0	0	0	0	0	0
1976	0	0	0	0	0	0	0	0	0	0	0	0	0
1977	0	0	0	0	0	0	0	0	0	0	0	0	0
1978	0	0	0	0	0	0	0	0	0	0	0	0	0
1979	0	0	0	0	0	0	4	0	0	0	0	0	4
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	1	0	0	0	0	1
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	12	0	0	0	0	0	12
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	1	0	0	0	0	0	1
1990	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	0	0	0	0	0	0	0	0	0	0	0	0	0
1992	0	0	0	0	0	0	0	0	0	0	0	0	0
1993	0	0	0	0	0	0	11	3	0	0	0	0	14
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	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	6	0	0	0	0	0	6
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	2	0	0	0	0	0	0	2
2003	0	0	0	0	0	0	5	1	0	0	0	0	6
2004	0	0	0	0	0	0	1	4	0	0	0	0	5

SNOWFALL (inches) 2004 VALDEZ, AK (VWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1975-76	0.0	0.0	0.0	14.7	6.8	84.1	96.1	33.2	75.5	40.6	T	0.0	351.0
1976-77	0.0	0.0	0.0	25.8	44.7	101.5	54.0	26.2	52.9	71.4	2.8	0.0	379.3
1977-78	0.0	0.0	0.0	0.6	17.5	41.2	32.4	75.9	27.8	0.7	0.0	0.0	196.1
1978-79	0.0	0.0	0.0	19.8	28.0	82.2	45.6	12.1	112.6	12.0	T	0.0	312.3
1979-80	0.0	0.0	0.0	T	31.8	105.5	37.3	86.5	36.4	3.9	0.0	0.0	301.4
1980-81	0.0	0.0	0.0	4.7	27.4	60.2	24.5	61.3	57.9	4.6	0.0	0.0	240.6
1981-82	0.0	0.0	T	2.5	75.6	70.1	17.0	4.6	74.6	13.2	T	0.0	257.6
1982-83	0.0	0.0	0.0	35.0	59.4	56.9	60.2	31.1	10.9	51.0	0.0	0.0	304.5
1983-84	0.0	0.0	0.0	39.0	17.8	24.7	80.5	100.8	15.6	17.6	0.0	0.0	296.0
1984-85	0.0	0.0	0.0	0.5	29.3	60.8	37.9	59.5	113.9	31.1	5.8	0.0	338.8
1985-86	0.0	0.0	0.0	2.4	32.0	55.1	91.9	47.7	50.1	20.7	0.0	0.0	299.9
1986-87	0.0	0.0	0.0	1.2	55.9	95.2	128.0	84.2	10.1	10.1	0.0	0.0	384.7
1987-88	0.0	0.0	0.0	0.8	48.1	85.6	33.4	79.2	86.5	19.9	0.0	0.0	353.5
1988-89	0.0	0.0	0.0	8.6	37.5	110.0	109.6	8.9	22.6	15.6	0.0	0.0	312.8
1989-90	0.0	0.0	0.0	19.2	76.1	123.3	158.5	84.0	79.0	20.6	0.0	0.0	560.7
1990-91	0.0	0.0	0.0	5.1	16.7	91.9	66.5	68.3	69.1	9.5	T	0.0	327.1
1991-92	0.0	0.0	0.0	6.4	59.9	137.1	86.5	85.7	100.2	38.9	1.9	0.0	516.6
1992-93	0.0	0.0	4.6	9.4	57.0	47.7	90.4	85.4	47.6	1.3	0.0	0.0	343.4
1993-94	0.0	0.0	0.0	4.4	75.6	86.5	42.7	13.5	95.6	23.1	0.2	0.0	341.6
1994-95	0.0	0.0	0.0	10.9	108.2	124.5	65.4	17.4	61.6	2.4	6.5	0.0	396.9
1995-96	0.0	0.0	0.0	2.0	5.8	9.3	4.1	180.0	45.5	20.6	0.0	0.0	267.3
1996-97	0.0	0.0	6.0	30.1	22.2	16.6	68.1	59.1	25.1	3.4	0.0	0.0	230.6
1997-98	0.0	0.0	0.0	15.1	35.7	97.1	43.5	35.2	20.0	20.1	10.7	0.0	277.4
1998-99	0.0	0.0	T	1.0	17.0	50.1	86.4	36.3	73.9	74.2	2.1	0.0	341.0
1999-00	0.0	0.0	0.0	34.5	40.0	92.8	116.2	48.2	38.5	5.4	1.4	0.0	377.0
2000-01	0.0	0.0	0.0	22.4	39.9	38.5	107.0	63.6	39.7	56.2	24.0	0.0	391.3
2001-02	0.0	0.0	0.0	26.0	24.1	66.8	80.4	98.4	26.6	14.7	T	0.0	337.0
2002-03	0.0	0.0	0.0	0.2	7.1	76.0	48.4	92.6	22.8	T	3.3	0.0	250.4
2003-04	0.0	0.0	0.0	0.0	33.2	93.2	70.3	56.4	72.4	28.2	0.0	0.0	353.7
2004-	0.0	0.0	4.0	8.8	69.6	69.8							
POR= 32 YRS	0.0	0.0	0.3	11.0	40.9	74.8	63.8	57.7	50.7	22.2	2.3	0.0	323.7

WBAN : 26442

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 VALDEZ, ALASKA (VWS)

Valdez is located on the Valdez Arm, a rather well sheltered extension of Prince William Sound. Snow-capped mountains, containing extensive glacier areas, extend almost continuously from southeast of Valdez through north to west-southwest, with rugged but normally unglaciated mountains to the south and southwest. Active glaciers extend to within 5 to 10 miles of Valdez to the north and reach down to the level of the glacial plain on which Valdez is located. This level glacial plain is for the most part a well forested area except for the tidal marshes east and the glacial drainage area further east.

The terrain surrounding Valdez exerts a pronounced influence on practically all aspects of the local weather and climate. The effects of the surrounding mountains are to channel the local winds. From October through April the prevailing direction is northeast, and from May through September the prevailing direction is from the southwest. During the winter, high pressure in the interior and low pressure in the gulf may cause east to north winds of about 100 knots to flow out of passes and river canyons.

Precipitation is abundant the year around, but builds up noticeably during late summer and fall. The heaviest precipitation usually occurs in September and October, and almost one-third of the total annual rainfall occurs in these two months. Snowfall during the winter months is very heavy.

There is considerable cloudiness during the entire year, but slightly less than is realized at Alaskan points farther southeast.

Although the high mountain ridges to the north provide a considerable barrier to the flow of cold, continental air from the interior during the winter months, there is a definite offsetting factor in the downslope drainage from the snowfields and glacier areas on the southern slopes of these mountains. The coldest temperatures realized at Valdez appear to be related to the downslope flow of cold air, although temperatures only rarely dip below zero. The nearby snow and ice fields combine with the ocean areas to provide a moderating effect on the summertime high temperatures which have seldom reached the middle 80s. Considerable variations occur in practically all weather elements within relatively short distances.

The growing season averages slightly over 100 days, extending from May 26 to September 12. In addition, the glacier nature of the plain, the ruggedness of other surrounding terrain, and the cold water runoff from glacier melt tends to keep most available agricultural soil at temperatures too cool for desirable vegetation development during the growing season.

STATION LOCATION

VALDEZ, ALASKA

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	RAINING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE:																	
<u>AIRPORT</u>																	
Polar Airways office Valdez Airport	2/04/71	10/10/72	200 ft. W	61°08'	146°15'	49	34	5	5								
Bank Building, Valdez	10/11/72	10/01/73	3.3 mi. W	61°08'	146°21'	a87			5	5							a. Estimated value.
Day Building, Valdez	10/01/73	1/07/75	100 ft. S	61°08'	146°21'	28	26	5	5								
Radar Building, Valdez	1/08/75	3/16/77	0.3 mi. SE	61°08'	146°21'	23	32	5	5								
National Weather Service Office	3/16/77	Present	0.3 mi. WSW	61°08'	146°21'	37	b54 c54	5	5 d3	NA	NA	NA	3	NA e6	NA f7		b. Moved to new site 3/14/77. c. Minor move 8/9/82. d. Type change and minor move 1/20/83. e. Installed 11/8/84. f. Installed 6/13/86.

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* NOTES: For earlier station history see previous edition.