

1999

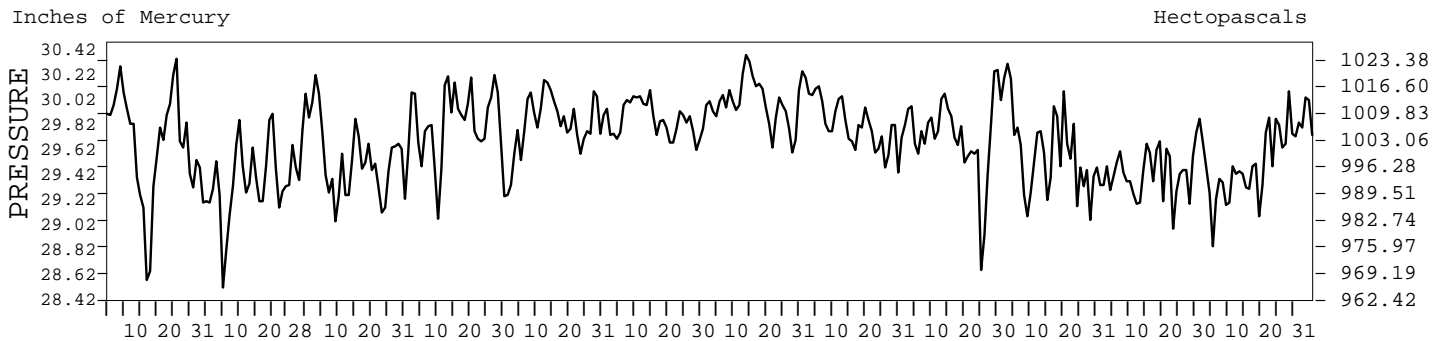
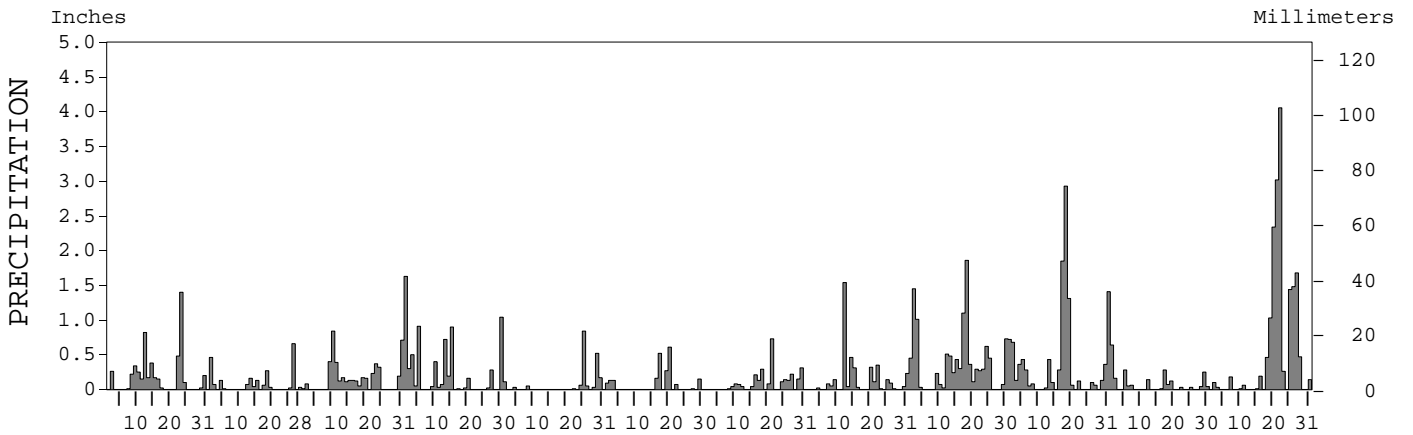
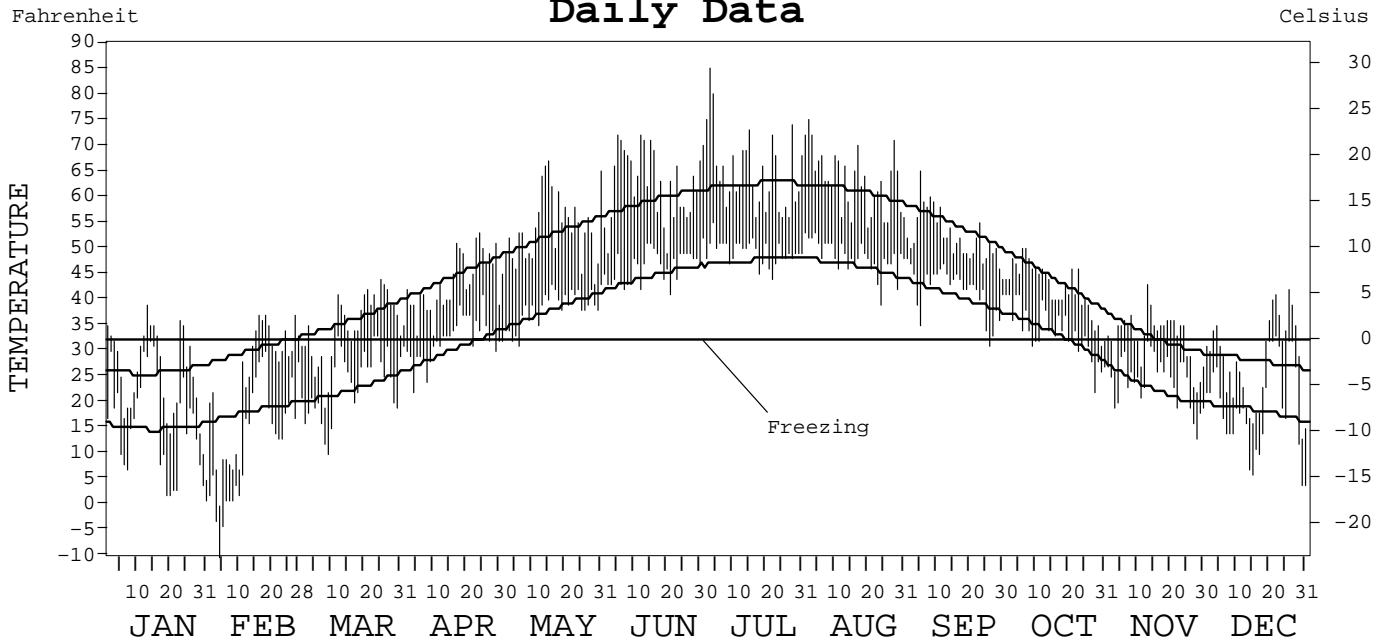
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-0548

VALDEZ,
ALASKA (VWS)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	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 1999

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	25.4	23.8	34.8	43.1	53.8	62.3	65.0	63.1	52.3	42.3	32.6	28.1	43.9	
	HIGHEST DAILY MAXIMUM	39	37	44	53	67	72	85	75	65	50	43	42	85	
	DATE OF OCCURRENCE	13	27+	25	24	15	12+	03	02	05	07+	13	26	JUL 03	
	MEAN DAILY MINIMUM	15.7	12.7	23.6	32.2	38.2	46.3	49.4	48.3	41.9	33.6	24.2	19.2	32.1	
	LOWEST DAILY MINIMUM	1	-10	10	22	31	41	44	39	31	22	13	4	-10	
	DATE OF OCCURRENCE	31	04	09	04	06	21	22	24	26	28	28	31+	FEB 04	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	18.7	16.3	26.3	34.0	41.4	49.6	52.9	52.1	45.0	35.7	26.1	22.0	35.0	
	MEAN DEW POINT	10.9	7.3	18.9	28.5	35.4	44.9	49.4	49.6	42.8	31.7	20.3	16.8	29.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	5	7	5	0	0	0	0	0	17
	MAXIMUM ≤ 32°	22	20	10	0	0	0	0	0	0	2	11	21	86	
	MINIMUM ≤ 32°	31	28	28	16	3	0	0	0	1	13	30	30	180	
	MINIMUM ≤ 0°	0	3	0	0	0	0	0	0	0	0	0	0	3	
H/C	HEATING DEGREE DAYS	1371	1301	1103	813	577	314	242	281	530	832	1089	1275	9728	
	COOLING DEGREE DAYS	0	0	0	0	0	0	6	0	0	0	0	0	6	
RH	MEAN (PERCENT)	67	62	69	73	70	73	79	84	87	79	72	76	74	
	HOUR 03 LST	67	66	74	81	85	88	93	93	93	83	73	77	81	
	HOUR 09 LST	69	65	69	73	68	73	79	86	90	82	73	76	75	
	HOUR 15 LST	66	59	61	64	56	60	65	70	77	72	68	76	66	
	HOUR 21 LST	66	61	70	74	71	73	79	85	91	79	72	76	75	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	1	2	0	0	2	0	2	0	0	0	7	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	1	1		
CLOUDINESS	AVG. SKY COVER (OKTAS)														
	SUNRISE - SUNSET	6	7	6	6	6	6	6	7	7	7	7	7	6	
	MIDNIGHT - MIDNIGHT	6	6	6	6	6	6	7	7	7	7	6	7	6	
	NUMBER OF DAYS WITH:														
	CLEAR	7	1	7	3	1	3	2	0	1	1	2	1	29	
PARTLY CLOUDY	4	8	4	6	15	5	7	11	3	1	4	6	74		
CLOUDY	20	19	20	21	15	22	22	20	26	29	24	24	262		
PR	MEAN STATION PRESS. (IN.)	29.65	29.38	29.57	29.82	29.81	29.86	30.01	29.82	29.76	29.54	29.45	29.55	29.68	
	MEAN SEA-LEVEL PRESS. (IN.)	29.78	29.48	29.61	29.87	29.86	29.90	30.06	29.86	29.80	29.58	29.50	29.60	29.74	
WINDS	RESULTANT SPEED (MPH)	6.4	8.2	3.0	1.4	3.4	3.8	3.2	2.2	0.6	3.8	7.1	6.1	1.7	
	RES. DIR. (TENS OF DEGS.)	07	06	03	30	25	26	25	25	28	06	07	06	05	
	MEAN SPEED (MPH)	9.3	10.0	6.4	5.4	6.2	6.2	5.2	4.2	3.8	6.0	7.9	8.4	6.6	
	PREVAIL. DIR. (TENS OF DEGS.)	06	06	06	24	24	24	24	24	24	06	06	07	06	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	35	38	29	21	33	21	38	16	40	25	23	40	
	DIR. (TENS OF DEGS.)	34	01	36	36	27	35	27	01	08	01	06	33	01	
	DATE OF OCCURRENCE	27	11	05	25	18	05	10	28	23+	21	09	24	OCT 21	
	PEAK GUST :														
	SPEED (MPH)	59	69	68	45	38	62	36	64	32	55	37	39	69	
DIR. (TENS OF DEGS.)	SE	N	NW	N	NE	N	NE	N	NE	N	SE	NW	N		
DATE OF OCCURRENCE	30	11	05	25	18	05	28	28	22	21	15	24	FEB 11		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	1.55	0.66	0.98	1.63	0.84	0.69	0.73	1.55	1.86	3.28	1.81	4.35	4.35	
	DATE OF OCCURRENCE	22-23	26	10-11	01	25	19-20	21	12-13	18	17-18	31-01	21-22	DEC 21-22	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	17	14	19	18	10	10	17	18	23	22	15	18	201		
PRECIPITATION ≥ 0.10	14	6	16	11	4	7	10	9	19	17	7	14	134		
PRECIPITATION ≥ 1.00	1	0	0	2	0	0	0	1	4	4	0	7	19		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	86.4	36.3	73.9	74.2	2.1	0.0	0.0	0.0	0.0	34.5	40.0	92.8	440.2	
	GREATEST 24-HOUR (IN.)	20.9	11.6	19.3	27.3	2.1	0.0	0.0	0.0	0.0	23.6	28.1	23.2	28.1	
	DATE OF OCCURRENCE	22-23	26	31	01	01	0	0	0	0	31	31-01	19-20	NOV 31-01	
	MAXIMUM SNOW DEPTH (IN.)	40	40	49	60	11	0	0	0	0	8	29	32	60	
	DATE OF OCCURRENCE	22-23	27	10	02	01	0	0	0	0	31	02	20	APR 02	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	13	9	13	10	1	0	0	0	0	4	12	14	76		

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	25.9	30.0	35.9	44.2	52.5	59.1	62.3	60.8	54.1	43.4	32.4	27.8	44.0
	MEAN DAILY MAXIMUM	24	28.4	30.4	36.7	44.7	53.3	59.8	62.3	60.7	53.3	43.2	32.7	29.3	44.6
	HIGHEST DAILY MAXIMUM	28	46	52	53	62	78	86	85	82	74	58	50	52	86
	YEAR OF OCCURRENCE		1991	1991	1998	1995	1993	1997	1999	1994	1996	1995	1977	1983	JUN 1997
	MEAN OF EXTREME MAXS.	24	39.6	41.5	45.9	55.4	65.9	72.7	75.2	74.5	65.3	53.8	42.5	40.8	56.1
	NORMAL DAILY MINIMUM	30	15.0	18.1	22.4	29.9	37.8	44.4	47.5	46.2	40.4	32.7	22.4	18.0	31.2
	MEAN DAILY MINIMUM	24	19.7	20.6	25.0	31.4	39.2	45.3	48.2	46.6	41.2	33.5	24.1	20.7	33.0
	LOWEST DAILY MINIMUM	28	-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.	24	4.4	6.2	13.0	21.8	32.9	39.4	43.1	39.8	32.3	22.6	12.2	6.3	22.8
	NORMAL DRY BULB	30	20.5	24.1	29.2	37.1	45.2	51.8	54.9	53.5	47.2	38.1	27.4	22.9	37.7
	MEAN DRY BULB	24	24.1	25.6	30.8	38.1	46.2	52.6	55.3	53.6	47.2	38.3	28.4	24.9	38.8
	MEAN WET BULB	16	22.1	23.2	27.4	34.6	42.2	48.8	52.0	50.4	44.5	34.9	25.4	24.5	35.8
	MEAN DEW POINT	16	16.2	16.5	19.8	28.4	37.1	44.8	49.2	47.7	41.5	28.9	18.4	19.0	30.6
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	17.1	12.9	5.4	1.2	0.0	0.0	0.0	0.0	0.0	1.5	12.7	18.1	68.9	
MINIMUM ≤ 32°	30	29.0	26.8	29.3	18.6	1.1	0.0	0.0	0.1	1.3	11.4	27.5	29.7	174.8	
MINIMUM ≤ 0°	30	1.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.1	
H/C	NORMAL HEATING DEG. DAYS	30	1380	1145	1110	837	614	396	313	357	534	834	1128	1305	9953
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	78	72	73	72	75	78	83	85	84	78	74	77	77
	HOUR 03 LST	30	79	75	77	81	87	90	93	94	91	82	75	77	83
	HOUR 09 LST	30	76	75	75	73	76	79	84	86	87	80	75	77	79
	HOUR 15 LST	30	75	69	66	63	64	67	71	73	74	73	71	76	70
	HOUR 21 LST	30	78	73	76	75	74	77	83	87	87	79	74	76	78
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	22	0.9	1.1	0.6	0.4	0.1	0.3	3.0	3.9	2.3	1.0	1.1	1.0	15.7
	THUNDERSTORMS	22	0.0	0.1	0.0	0.0	0.0	0.2	0.1	0.1	0.4	0.1	0.1	0.0	1.1
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	19	6.1	6.1	5.5	5.9	6.1	6.4	6.6	6.2	6.4	6.1	5.8	6.3	6.1
	MIDNIGHT-MIDNIGHT (OKTAS)	22	5.8	5.5	5.4	5.7	6.1	6.4	6.6	6.2	6.2	6.2	5.5	5.9	6.0
	MEAN NO. DAYS WITH:														
CLEAR	20	5.8	5.7	7.8	5.7	3.8	3.1	3.0	3.9	3.0	4.8	5.6	4.6	56.8	
PARTLY CLOUDY	20	3.6	3.0	4.0	5.1	6.3	5.9	4.4	5.5	4.5	3.2	3.7	2.2	51.4	
CLOUDY	20	21.6	19.7	19.1	19.5	21.0	21.0	22.2	20.3	21.2	21.8	19.4	22.7	249.5	
PR	MEAN STATION PRESSURE (IN)	20	29.66	29.74	29.74	29.80	29.90	29.93	29.99	29.92	29.83	29.67	29.60	29.66	29.79
	MEAN SEA-LEVEL PRES. (IN)	16	29.70	29.78	29.80	29.83	29.93	29.97	30.03	29.96	29.87	29.71	29.65	29.67	29.82
WINDS	MEAN SPEED (MPH)	18	7.6	8.5	6.7	5.0	5.8	5.9	5.1	4.2	4.9	6.6	7.8	6.8	6.2
	PREVAIL. DIR (TENS OF DEGS)	19	07	06	06	24	24	24	24	24	24	06	06	06	06
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	22	58	56	46	46	30	35	24	38	46	40	53	54	58
	DIR. (TENS OF DEGS)		36	34	35	01	03	03	28	01	01	01	01	35	36
	YEAR OF OCCURRENCE		1989	1979	1996	1996	1996	1996	1989	1999	1988	1999	1978	1979	JAN 1989
PEAK GUST:															
SPEED (MPH)	20	94	83	82	63	52	62	41	64	69	69	77	75	94	
DIR. (TENS OF DEGS)		N	NE	NE	N	NE	N	N	N	SW	N	N	N	N	
YEAR OF OCCURRENCE		1980	1995	1995	1996	1996	1999	1987	1999	1992	1997	1995	1990	JAN 1980	
PRECIPITATION	NORMAL (IN)	30	5.60	5.13	4.70	3.16	3.83	3.08	3.84	5.96	8.37	8.07	5.50	6.80	64.04
	MAXIMUM MONTHLY (IN)	28	12.53	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		1981	1996	1979	1977	1998	1987	1981	1981	1982	1979	1976	1989	NOV 1976
	MINIMUM MONTHLY (IN)	28	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)	22	3.75	3.05	2.20	2.03	2.23	1.71	1.98	3.42	3.26	3.96	3.42	4.35	4.35
	YEAR OF OCCURRENCE		1981	1996	1981	1989	1994	1989	1981	1981	1982	1983	1992	1999	DEC 1999
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	18.1	14.4	15.4	13.9	17.1	15.9	16.8	17.5	20.6	20.3	15.9	17.7	203.6	
PRECIPITATION ≥ 1.00	30	1.6	1.5	0.7	0.6	0.0	0.4	0.5	1.5	3.0	2.9	1.6	3.1	17.4	
SNOWFALL	NORMAL (IN)	30	60.6	50.8	53.4	22.3	0.6	0.0	0.0	0.0	T	11.7	39.2	77.1	315.7
	MAXIMUM MONTHLY (IN)	28	148.5	180.0	113.9	74.2	10.7	0.0	0.0	0.0	6.0	39.0	108.2	137.1	180.0
	YEAR OF OCCURRENCE		1990	1996	1985	1999	1998				1996	1983	1994	1991	FEB 1996
	MAXIMUM IN 24 HOURS (IN)	22	47.5	38.1	41.5	33.3	8.9	0.0	0.0	0.0	5.4	23.6	28.1	29.2	47.5
	YEAR OF OCCURRENCE		1990	1996	1995	1992	1998				1996	1999	1999	1981	JAN 1990
	MAXIMUM SNOW DEPTH (IN)	23	107	94	104	88	51	0	0	0	1	12	41	60	107
YEAR OF OCCURRENCE		1990	1990	1990	1990	1977				1996	1982	1994	1994	JAN 1990	
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	10.5	8.5	10.1	5.1	0.2	0.0	0.0	0.0	0.0	2.9	8.5	12.2	58.0	

PRECIPITATION (inches) 1999 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1972	1.76	2.66	3.61		4.35	2.78	1.44	3.19			6.85	1.52	
1973	4.63	3.07	3.43	3.75	2.51	3.22	1.68	9.35	2.78	4.35	2.43	3.35	44.55
1974	0.01	5.21	1.55	5.93	0.79	2.08	2.34	4.22	7.59	12.90	9.78	6.42	58.82
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
POR= 28 YRS	6.05	5.45	4.49	3.69	2.98	2.99	3.73	6.67	9.72	8.71	5.59	7.65	67.72

WBAN : 26442

AVERAGE TEMPERATURE (°F) 1999 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1972	12.0	19.0	20.7	28.8	41.6	49.3	58.8	58.0			28.4	19.2	
1973	13.5	21.2	31.0	38.2	44.0	50.2	53.9	51.3	45.9	36.8	22.8	23.1	36.0
1974	14.6	21.1	26.9	37.5	47.2	52.5	54.7	55.2	49.5	38.1	33.8	25.1	38.0
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
POR= 28 YRS	22.8	24.9	30.3	37.5	45.8	52.2	55.4	53.8	47.2	38.2	28.3	24.7	38.4

HEATING DEGREE DAYS (base 65°F) 1999 VALDEZ, AK (VWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1972-73	222	213			1085	1411	1533	1212	1054	795	647	435	
1973-74	332	413	795	863	1258	1302	1558	1226	1176	825	565	369	10682
1974-75	312	298	457	828	1036	1230	1402	1223	1154	887	647	437	9911
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-	242	281	530	832	1089	1275							

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COOLING DEGREE DAYS (base 65°F) 1999 VALDEZ, AK (VWS)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1972	0	0	0	0	0	0	0	0	0	0	0	0	0
1973	0	0	0	0	0	0	0	0	0	0	0	0	0
1974	0	0	0	0	0	0	0	0	0	0	0	0	0
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

SNOWFALL (inches) 1999 VALDEZ, AK (VWS)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1972-73	0.0	0.0	0.0	4.4	64.6	25.4	83.2	48.7	46.6	10.1	T	0.0	283.0
1973-74	0.0	0.0	0.0	1.0	26.7	40.3	T	77.8	22.4	15.0	0.0	0.0	183.2
1974-75	0.0	0.0	0.0	10.8	38.2	90.6	90.3	65.8	37.4	29.0	1.8	0.0	363.9
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-	0.0	0.0	0.0	34.5	40.0	92.8							
POR= 27 YRS	0.0	0.0	0.2	11.0	42.0	75.9	60.3	55.2	52.5	22.5	1.8	0.0	321.4

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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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999 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													AUGUST 1949 TO OCTOBER 1952 * * * * *	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS		
						SEA LEVEL	GROUND																
							G	W	I	N	D	E	S	E	E	O	R	R				S	E
Sherman Street	9/13/09	4/01/18		61°07'	146°16'	11																	Billings residence.
McKinley Street	4/01/18	2/01/22		61°07'	146°16'																		"Jim Fish" Building.
Copper Block Building	2/01/22	3/16/23		61°07'	146°16'	20																	
Power Plant	3/16/23	7/01/34	4 mi. SSW	61°04'	146°19'	100																	
Signal Corps office	6/15/39	6/12/39	4 mi. NNE	61°07'	146°16'	12																	
Hobart & Leavell Sts.	6/12/39	8/15/43	225 yds.	61°07'	146°16'	12	32																Data file begins July 1935.
Orphanage office	8/15/43	7/24/44	200 yds. NE	61°07'	146°16'	13	24																
Orphanage	7/24/44	5/10/46	1.5 blks. S	61°07'	146°16'	13	34																
Hobart Street	5/10/46	6/07/48	1.5 blks. N	61°07'	146°16'	13	32																
Court Street	6/07/48	4/18/52	0.5 blks. E	61°07'	146°16'	15	34																
Court Street	4/18/52	10/25/56	0.5 Dlk.	61°07'	146°16'	15	34																
Court Street	10/25/56	8/12/62	300 ft. SSE	61°07'	146°16'	15	34																
Hobart Street	8/12/62	5/16/64	1.5 blks. N	61°07'	146°16'	15	35																
Kennedy office	5/16/64	12/11/69	1.1 mi. NNE	61°08'	146°15'	60	29																
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																	
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														
Coast Guard Bldg.	3/16/77	Present	0.3 mi. WSW	61°08'	146°21'	37	b54 c54	5 d3		NA	NA	NA	3	NA c6	NA f7								

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