

2002

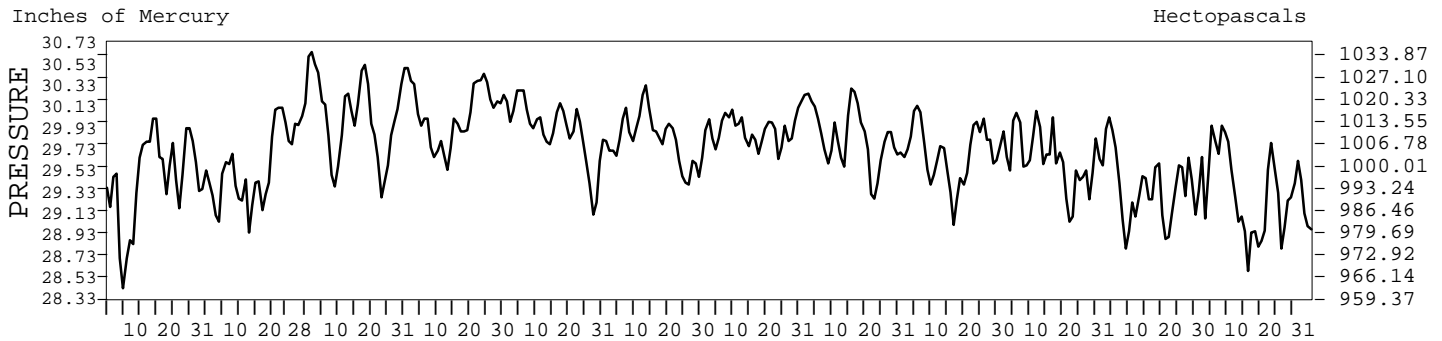
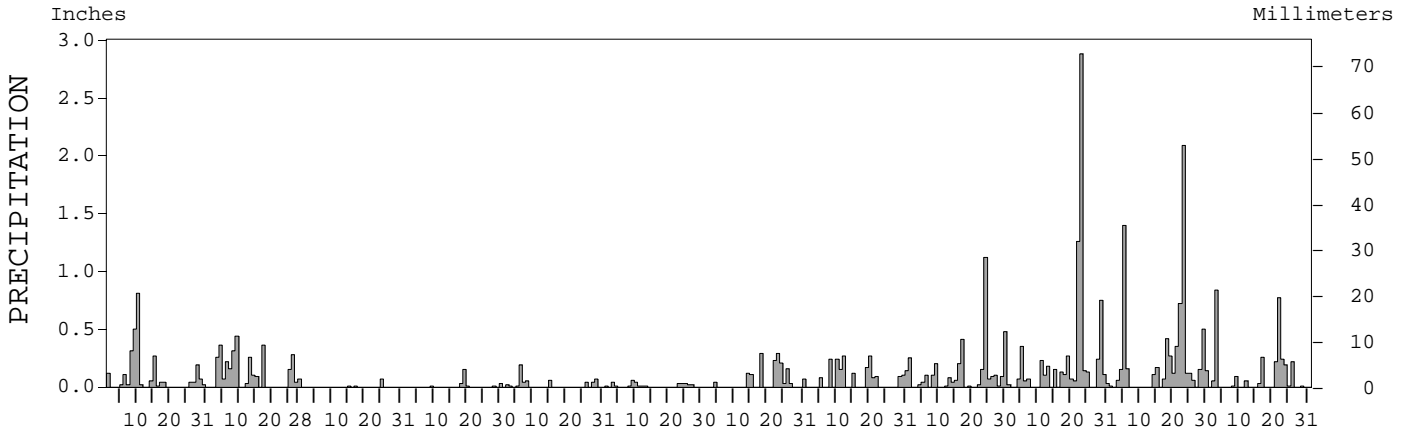
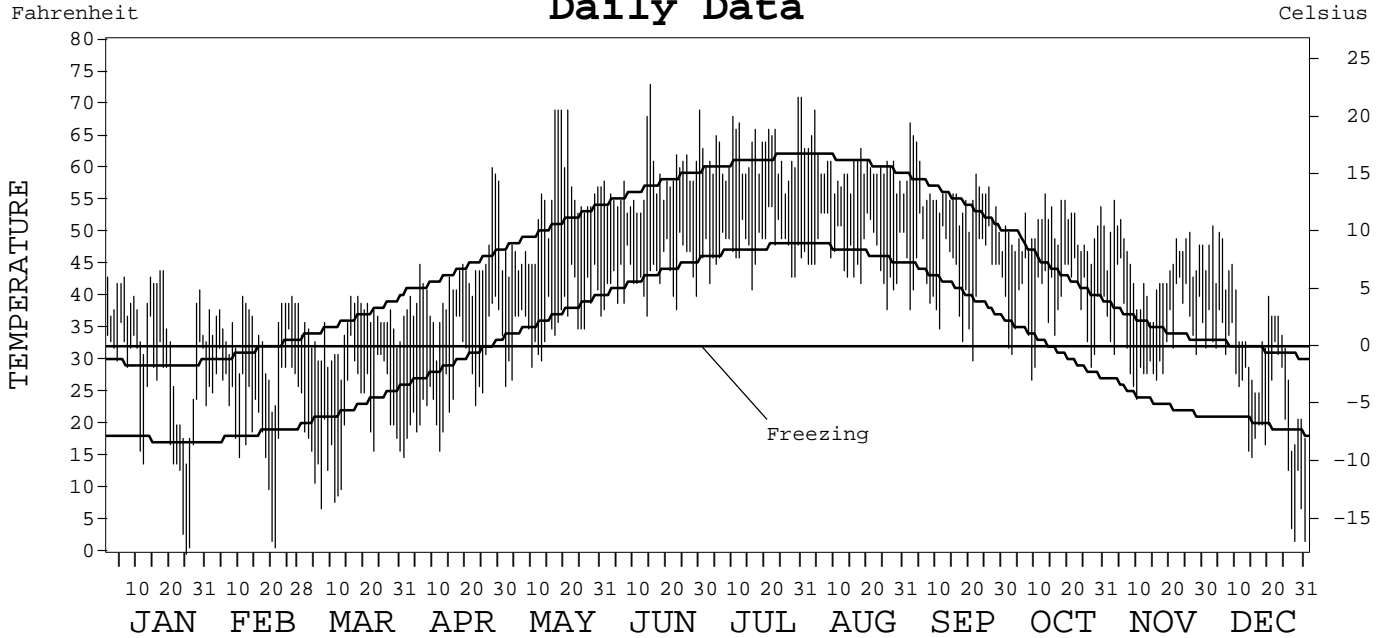
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0197-9744

HOMER,  
ALASKA (HOM)

## 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 2002

HOMER, AK (HOM)

LATITUDE: 59° 38' 48" N      LONGITUDE: 151° 28' 36" W      ELEVATION (FT): GRND: 75      BARO: 78      TIME ZONE: ALASKA (UTC + 9)      WBAN: 25507

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	34.6	34.5	34.7	42.6	53.3	58.3	62.5	60.0	55.8	50.4	44.9	34.3	47.2	
	HIGHEST DAILY MAXIMUM	44	40	40	60	69	73	71	69	67	56	55	51	73	
	DATE OF OCCURRENCE	18+	26+	18+	28	21+	15	31+	04	02	13	03	03	JUN 15	
	MEAN DAILY MINIMUM	24.4	22.3	20.5	26.6	36.0	43.3	47.7	46.8	43.2	38.5	33.9	23.5	33.9	
	LOWEST DAILY MINIMUM	0	1	7	15	26	37	41	38	30	27	24	2	0	
	DATE OF OCCURRENCE	25	21	07	01	02	14	16	26	21	09	10	31+	JAN 25	
	AVERAGE DRY BULB	29.5	28.4	27.6	34.6	44.7	50.8	55.1	53.4	49.5	44.5	39.4	28.9	40.5	
	MEAN WET BULB	28.4		24.8	31.4	42.0	47.8	51.9	51.9	47.7	42.8	38.5	28.3		
	MEAN DEW POINT	25.3		16.6	23.4	37.9	44.0	48.7	49.9	45.0	39.8	36.7	25.7		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 70°	0	0	0	0	0	1	2	0	0	0	0	0	0	3
	MAXIMUM ≤ 32°	8	8	9	1	0	0	0	0	0	0	0	12	38	
MINIMUM ≤ 32°	23	27	30	23	6	0	0	0	1	6	15	24	155		
MINIMUM ≤ 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1094	1020	1152	907	624	416	296	353	457	631	763	1114	8827	
	COOLING DEGREE DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
RH	MEAN (PERCENT)	84	82	63	64	77	77	79	86	84	82	89	85	79	
	HOUR 03 LST	84	85	71	72	89	90	88	94	89	86	89	87	85	
	HOUR 09 LST	84	84	67	66	75	77	78	87	85	85	90	86	80	
	HOUR 15 LST	79	76	57	53	66	68	71	79	77	75	86	84	73	
	HOUR 21 LST	85	83	59	64	77	73	78	85	87	85	90	84	79	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	2	0	0	0	0	0	1	2	0	0	1	6	
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0	
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.)	29.45	29.54	30.03	30.06	29.92	29.82	29.92	29.83	29.69	29.65	29.33	29.30	29.71	
	MEAN SEA-LEVEL PRESS. (IN.)	29.64	29.62	30.11	30.15	30.00	29.90	30.00	29.90	29.77	29.73	29.41	29.38	29.80	
WINDS	RESULTANT SPEED (MPH)	2.7	3.8	2.6	2.4	3.4	2.7	3.4	2.4	0.6	2.6	5.0	2.2	0.3	
	RES. DIR. (TENS OF DEGS.)	07	08	04	26	24	24	25	25	20	08	07	06	08	
	MEAN SPEED (MPH)	6.3	7.9	6.2	7.2	6.0	6.6	5.9	5.1	5.7	7.3	6.7	5.1	6.3	
	PREVAIL. DIR. (TENS OF DEGS.)	06	05	06	26	25	25	26	26	24	07	06	05	06	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	33	29	33	32	35	22	24	24	41	43	29	43	
	DIR. (TENS OF DEGS.)	09	25	26	24	25	09	24	15	25	08	09	06	09	
	DATE OF OCCURRENCE	08	12	27	30+	01	08	17+	29	28+	28+	29	22+	NOV 29	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	40	41	35	43	41	44	28	29	29	58	45	45	58	
DIR. (TENS OF DEGS.)	08	12	26	25	26	08	26	14	24	07	09	06	07		
DATE OF OCCURRENCE	08	27	27	20	01	08	03	29	28+	28	29	03	OCT 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.68	3.20	0.09	0.24	0.53	0.33	1.58	2.04	3.65	7.39	7.19	2.99	31.91	
	GREATEST 24-HOUR (IN.)	0.81	0.71	0.07	0.17	0.20	0.07	0.49	0.42	1.15	2.94	2.58	0.91	2.94	
	DATE OF OCCURRENCE	10	08-09	25	18-19	05-06	08-09	23-24	19-20	23-24	22-23	22-23	21-22	OCT 22-23	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	18	16	3	6	10	14	11	13	22	22	20	14	169		
PRECIPITATION ≥ 0.10	7	11	0	1	1	0	7	9	10	15	16	7	84		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	0	1	2	2	0	5		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)		20	10											
DATE OF OCCURRENCE		18	08+												
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

# NORMALS, MEANS, AND EXTREMES

## HOMER, AK (HOM)

LATITUDE: 59° 38' 48" N      LONGITUDE: 151° 28' 36" W      ELEVATION (FT): GRND: 75      BARO: 78      TIME ZONE: ALASKA (UTC + 9)      WBAN: 25507

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	29.3	31.4	36.3	43.4	50.6	57.0	61.0	60.8	54.8	44.1	35.2	31.6	44.6
	MEAN DAILY MAXIMUM	54	28.7	31.2	35.7	42.8	50.5	56.7	60.7	60.5	54.8	44.1	35.1	29.8	44.2
	HIGHEST DAILY MAXIMUM	59	51	51	53	63	71	80	81	78	69	64	55	51	81
	YEAR OF OCCURRENCE		1994	1954	1974	1965	1997	1953	1993	1944	1997	1954	2002	2002	JUL 1993
	MEAN OF EXTREME MAXS.	54	42.6	42.8	45.4	52.4	60.1	66.8	69.5	69.3	62.4	53.8	46.5	43.2	54.6
	NORMAL DAILY MINIMUM	30	17.5	18.3	22.5	29.3	36.7	43.0	47.2	46.7	41.0	31.4	23.5	20.0	31.4
	MEAN DAILY MINIMUM	54	16.4	17.7	21.5	28.7	35.6	42.0	46.2	46.0	40.5	30.7	22.9	17.8	30.5
	LOWEST DAILY MINIMUM	59	-24	-19	-21	-9	6	29	34	31	20	2	-7	-16	-24
	YEAR OF OCCURRENCE		1989	1999	1971	1944	1949	1950	1959	1955	1956	1975	1990	1964	JAN 1989
	MEAN OF EXTREME MINS.	54	-2.7	-3	5.7	17.6	27.2	34.3	38.8	36.7	29.2	17.4	7.4	-3	17.6
	NORMAL DRY BULB	30	22.7	24.7	29.0	35.4	42.8	49.3	53.4	53.3	47.6	37.5	28.6	24.3	37.4
	MEAN DRY BULB	54	22.6	24.5	28.7	35.8	42.9	49.4	53.4	53.3	47.6	37.3	29.1	23.9	37.4
	MEAN WET BULB	17	24.5	23.5	27.9	33.9	40.7	47.0	48.7	48.2	43.0	33.9	26.5	24.9	35.2
	MEAN DEW POINT	17	21.3	18.8	22.2	28.4	33.5	42.7	45.8	45.6	39.7	29.9	22.7	21.6	31.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 70°	30	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.9	0.0	0.0	0.0	0.0	2.0	
MAXIMUM ≤ 32°	30	16.8	13.5	8.1	1.6	*	0.0	0.0	0.0	0.0	1.8	10.7	15.5	68.0	
MINIMUM ≤ 32°	30	27.3	24.7	26.6	22.1	8.9	0.2	0.0	0.0	3.4	17.1	25.3	27.0	182.6	
MINIMUM ≤ 0°	30	4.6	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.8	11.4	
H/C	NORMAL HEATING DEG. DAYS	30	1290	1125	1103	860	663	451	338	349	514	844	1069	1215	9821
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	0	0	0	0	0	0	0	0	0
RH	NORMAL (PERCENT)	30	80	78	74	74	74	76	80	82	81	78	79	79	78
	HOUR 03 LST	30	81	80	79	81	84	88	91	90	89	83	80	80	84
	HOUR 09 LST	30	81	81	77	74	73	75	79	82	84	82	80	80	79
	HOUR 15 LST	30	77	73	68	65	65	67	71	72	71	70	75	78	71
	HOUR 21 LST	30	80	79	75	74	73	73	77	82	83	79	79	79	78
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	34	0.7	0.9	0.6	0.5	0.4	0.4	1.1	1.7	0.8	0.2	0.5	0.9	8.7
	THUNDERSTORMS	34	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.2	
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	15	5.4	5.5	5.6	5.8	6.2	5.8	5.7	5.3	5.5	5.5	5.3	5.1	5.6
	MIDNIGHT-MIDNIGHT (OKTAS)	15	5.1	4.7	4.9	5.2	5.6	5.3	5.5	5.2	5.5	5.5	5.0	5.0	5.2
	MEAN NO. DAYS WITH:														
	CLEAR	15	7.7	6.8	6.1	5.4	3.7	3.9	3.3	5.3	4.8	5.2	5.9	7.4	65.5
PARTLY CLOUDY	15	4.2	4.4	6.3	6.3	6.8	8.1	8.6	7.7	7.0	5.2	5.3	5.3	75.2	
CLOUDY	15	19.1	17.1	18.7	18.3	20.5	17.9	19.1	18.1	18.1	20.6	18.9	18.3	224.7	
PR	MEAN STATION PRESSURE (IN)	22	29.56	29.58	29.60	29.72	29.73	29.82	29.90	29.88	29.68	29.53	29.48	29.49	29.66
	MEAN SEA-LEVEL PRES. (IN)	17	29.60	29.72	29.74	29.79	29.89	30.00	29.98	29.93	29.78	29.65	29.59	29.58	29.77
WINDS	MEAN SPEED (MPH)	37	7.2	7.2	7.6	7.9	7.7	7.6	6.8	6.4	6.6	7.1	7.2	7.3	7.2
	PREVAIL. DIR (TENS OF DEGS)	22	05	05	06	24	25	25	25	25	05	05	05	05	05
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	5	31	33	32	38	32	35	25	31	38	41	43	69	69
	DIR. (TENS OF DEGS)		09	25	22	09	25	09	14	02	01	08	09	04	04
	YEAR OF OCCURRENCE		2002	2002	2000	2001	2002	2002	2001	2000	1999	2002	2002	1999	DEC 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	5	46	49	44	49	44	44	35	44	49	58	45	69	69	
DIR. (TENS OF DEGS)		12	13	24	08	25	08	13	36	03	07	09	04	04	
YEAR OF OCCURRENCE		2000	2000	2000	2001	2001	2002	2001	2000	1999	2002	2002	1999	DEC 1999	
PRECIPITATION	NORMAL (IN)	30	2.61	2.04	1.82	1.21	1.07	0.96	1.45	2.28	3.37	2.77	2.87	3.00	25.45
	MAXIMUM MONTHLY (IN)	66	8.65	5.62	6.02	4.09	2.31	3.37	3.79	5.56	6.18	8.55	8.72	8.01	8.72
	YEAR OF OCCURRENCE		2001	1978	1981	1988	1998	1941	1948	1939	1990	1969	1983	1939	NOV 1983
	MINIMUM MONTHLY (IN)	66	0.18	0.12	0.03	0.01	0.08	0.05	0.16	0.47	0.83	0.83	0.12	0.00	0.00
	YEAR OF OCCURRENCE		1996	1979	1989	1954	1974	2001	1953	1978	1969	1992	1955	1933	DEC 1933
	MAXIMUM IN 24 HOURS (IN)	65	2.32	1.68	1.83	1.48	1.06	1.22	1.38	1.80	1.66	2.94	3.20	2.35	3.20
	YEAR OF OCCURRENCE		1984	1941	1987	1980	1977	1978	1980	1936	1990	2002	1983	2001	NOV 1983
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	12.9	12.1	11.6	10.0	10.2	10.2	10.8	13.1	15.6	14.8	12.2	14.4	147.9	
PRECIPITATION ≥ 1.00	30	0.0	0.1	0.1	0.1	*	*	0.1	0.2	0.3	0.3	0.2	0.4	1.8	
SNOWFALL	NORMAL (IN)	30	10.1	13.0	10.2	3.6	0.4	0.0	0.0	0.0	0.*	2.9	8.5	13.6	62.3
	MAXIMUM MONTHLY (IN)	62	33.8	46.0	38.1	17.4	6.6	T	0.0	0.0	0.5	21.9	37.4	54.7	54.7
	YEAR OF OCCURRENCE		1962	1974	1976	1972	1971	1963			1962	1976	1945	1979	DEC 1979
	MAXIMUM IN 24 HOURS (IN)	62	24.0	19.2	15.2	7.4	6.0	T	0.0	0.0	0.4	8.9	24.5	20.2	24.5
	YEAR OF OCCURRENCE		1939	1945	1954	1972	1971	1963			1968	1997	1945	1979	NOV 1945
	MAXIMUM SNOW DEPTH (IN)	49	26	27	40	23	8	0	0	0	0	13	17	35	40
	YEAR OF OCCURRENCE		1956	1969	1999	1972	1972					1976	1981	1959	MAR 1999
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.8	3.9	2.9	1.3	0.0	0.0	0.0	0.0	0.0	0.8	2.5	3.9	19.1	

PRECIPITATION (inches) 2002 HOMER, AK (HOM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0.84	1.26			2.30	2.03	0.32	2.10	2.82	1.59	1.77	2.01	
1974	0.74	4.30	0.55	1.32	0.08	0.43	1.56	1.94	4.08	3.33	4.56	3.58	26.47
1975	2.50	3.38	1.64	2.17	1.94	0.93	0.99	0.51	3.48	1.90	1.02	4.07	24.53
1976	2.67	0.37	4.04	1.98	0.56	0.65	0.35	2.28	4.95	3.78	6.90	3.86	32.39
1977	4.40	2.98	2.13	1.60	2.19	0.95	0.31	2.42	1.69	3.51	0.39	0.12	22.69
1978	1.88	5.62	0.97	0.63	0.68	2.47	1.57	0.47	2.22	4.24	2.79	5.00	28.54
1979	2.21	0.12	1.75	0.95	0.70	1.10	1.83	1.18	3.45	5.04	8.52	5.26	32.11
1980	4.39	4.40	2.13	3.27	2.28	1.34	2.99	2.82	2.59	4.57	3.04	1.19	35.01
1981	6.68	2.22	6.02	0.10	1.72	0.57	3.73	3.73	2.20	2.36	4.52	4.25	38.10
1982	0.94	0.38	1.44	0.96	0.28	0.93	1.05	1.10	5.19	1.58	1.61	4.13	19.59
1983	1.46	1.57	0.67	1.05	0.54	0.49	1.00	2.20	1.96	2.43	8.72	0.22	22.31
1984	4.81	2.24	1.22	1.59	0.42	0.87	1.02	4.17	3.86	1.21	0.88	1.92	24.21
1985	4.23	1.02	3.69	1.48	1.49	0.85	2.93	2.46	3.06	0.92	0.90	2.36	25.39
1986	3.77	2.20	0.07	0.22	1.09	0.29	2.20	2.93	4.16	5.56	2.54	7.78	32.81
1987	6.26	2.95	2.45	0.77	1.06	1.07	1.08	0.59	5.12	6.87	2.33	1.99	32.54
1988	4.71	3.95	4.34	4.09	0.91	0.89	0.77	3.22	1.29	2.43	1.85	5.51	33.96
1989	1.90	0.27	0.03	1.13	1.12	0.66	2.10	2.80	4.09	4.08	1.20	2.65	22.03
1990	3.07	1.54	0.33	0.40	1.10	1.20	0.64	2.39	6.18	1.66	0.16	1.48	20.15
1991	1.40	1.40	1.95	0.81	1.54	1.30	1.50	2.20	3.40	0.92	1.73	5.87	24.02
1992	4.33	1.15	3.76	0.49	0.33	0.45	1.36	2.63	1.06	0.83	4.50	2.56	23.45
1993	2.13	1.60	2.00	1.01	0.37	0.60	1.19	2.99	3.95	1.69	3.11	4.37	25.01
1994	0.96	1.31	2.45	0.75	1.08	0.78	1.18	0.80	3.33	1.98	3.06	3.84	21.52
1995	2.07	2.03	0.99	0.85	1.00	1.14	2.37	3.18	4.11	1.88	0.32	0.41	20.35
1996	0.18	2.17	0.21	0.97	0.46	1.24	0.27	1.76	3.20	1.23	0.38	0.88	12.95
1997	2.23	1.84	0.43	0.62	0.57	1.16	1.05	2.34	4.81	1.01	5.87		
1998					2.31	1.45	1.67	3.85	2.04	2.60	2.89	1.32	
1999	2.67	1.54	2.72	0.87	0.98	0.70	1.07	2.88	4.11	3.79	2.31	2.86	26.50
2000	1.85	0.57	1.85	0.36	0.14	0.65	2.59	1.12	2.23	2.57	4.98	4.97	23.88
2001	8.65	2.41	3.05	1.45	0.28	0.05	3.13	3.01	2.47	1.84	1.13	4.32	31.79
2002	2.68	3.20	0.09	0.24	0.53	0.33	1.58	2.04	3.65	7.39	7.19	2.99	31.91
POR= 59 YRS	2.34	1.81	1.53	1.11	0.98	0.94	1.60	2.43	3.04	3.08	2.90	2.69	24.45

WBAN : 25507

AVERAGE TEMPERATURE (°F) 2002 HOMER, AK (HOM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	11.8	21.8	29.6		41.5	48.2	52.4	51.3	45.8	35.9	22.9	24.6	
1974	14.1	19.5	26.0	36.5	42.7	49.4	52.9	53.9	49.7	38.4	29.7	24.1	36.4
1975	18.6	18.7	26.0	32.7	42.1	47.9	52.9	52.3	47.9	36.9	22.2	19.1	34.8
1976	22.2	20.9	26.6	35.0	41.7	48.0	53.8	52.7	46.7	36.6	35.5	31.4	37.6
1977	37.1	35.6	27.0	35.1	41.8	51.2	54.3	55.9	48.5	38.6	21.1	17.2	38.6
1978	29.4	30.6	31.9	38.1	44.3	49.0	53.0	54.8	47.4	40.2	32.0	29.7	40.0
1979	30.7	15.6	32.9	38.4	43.8	48.7	55.0	54.6	50.7	42.5	36.0	18.6	39.0
1980	18.8	31.5	32.1	39.2	44.2	50.0	53.1	51.3	48.0	39.8	32.0	12.5	37.7
1981	35.5	28.9	36.2	37.3	46.9	49.3	54.5	53.7	47.5	39.4	30.2	25.2	40.4
1982	21.2	21.0	30.6	33.4	41.9	49.0	52.7	52.6	48.2	32.8	32.4	32.3	37.3
1983	23.3	30.3	36.1	38.4	46.1	51.8	54.6	54.1	46.8	38.8	34.6	29.2	40.3
1984	26.7	22.6	38.0	36.5	43.9	52.3	54.6	54.9	49.1	39.6	30.3	30.7	39.9
1985	36.0	20.4	30.0	27.9	41.4	46.9	53.5	51.8	47.1	32.8	24.9	35.1	37.3
1986	29.8	26.9	26.8	32.1	42.1	50.0	53.1	52.5	47.7	40.4	31.7	33.8	38.9
1987	29.6	32.1	31.6	36.7	44.3	50.1	54.7	54.9	46.4	39.7	31.2	24.7	39.7
1988	27.8	30.5	33.5	36.6	45.0	51.2	55.3	53.9	46.0	37.5	26.4	27.4	39.3
1989	11.0	25.8	27.4	37.9	43.5	50.2	55.2	56.7	50.9	38.1	25.8	30.4	37.7
1990	22.6	14.1	32.4	39.9	46.7	51.8	54.7	55.2	48.9	37.1	20.4	25.5	37.4
1991	24.3	24.9	29.6	38.6	43.9	50.3	54.1	52.7	50.3	38.9	32.5	27.3	39.0
1992	27.9	20.7	28.2	36.6	43.3	52.3	55.5	53.9	42.8	36.2	31.7	23.5	37.7
1993	24.2	27.3	33.5	40.5	48.0	51.1	56.5	55.8	49.1	40.8	32.5	32.4	41.0
1994	30.2	33.2	28.0	39.0	45.3	51.8	54.5	55.5	47.7	37.1	25.3	25.2	38.6
1995		26.3	22.9	41.0	46.0	51.7	55.0	53.5	51.7	41.1	26.4	28.0	
1996	18.8	23.1	33.5	38.6	44.8	51.0	54.8	53.8	46.5	32.1	29.6	21.3	37.3
1997	21.6	35.8	28.6	39.3	47.0	52.2	57.4	56.4	51.2	34.3	34.3	21.5	40.0
1998	23.3	30.6	33.9	37.8	43.5	50.3	54.3	51.9	47.8	39.3	31.9	22.1	38.9
1999	19.9	12.5	24.4	34.9	41.5	50.5	54.1	53.7	48.4	36.3	26.7	22.3	35.4
2000	17.5	31.8	32.2	36.7	43.7	50.5	53.5	52.3	46.1	38.4	35.8	35.0	39.5
2001	32.7	30.7	32.4	38.1	41.8	52.0	54.8	55.1	48.7	34.1	28.0	19.5	39.0
2002	29.5	28.4	27.6	34.6	44.7	50.8	55.1	53.4	49.5	44.5	39.4	28.9	40.5
POR= 58 YRS	22.8	24.9	28.5	35.6	42.9	49.4	53.3	53.1	47.4	37.5	29.3	23.9	37.4

HEATING DEGREE DAYS (base 65°F) 2002 HOMER, AK (HOM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	385	416	568	894	1258	1247	1571	1269	1201	848	686	464	10807
1974-75	368	336	455	817	1052	1261	1439	1293	1199	960	703	506	10389
1975-76	367	387	504	863	1274	1413	1321	1271	1184	892	716	502	10694
1976-77	342	376	541	875	880	1033	856	816	1171	890	712	409	8901
1977-78	322	273	490	813	1311	1476	1097	957	1022	800	635	472	9668
1978-79	366	310	522	761	984	1088	1056	1375	987	792	651	481	9373
1979-80	302	316	422	692	861	1432	1426	968	1014	768	638	446	9285
1980-81	362	415	507	773	984	1617	906	1003	885	822	554	465	9293
1981-82	319	339	516	787	1040	1228	1350	1230	1057	941	710	471	9988
1982-83	373	377	499	990	972	1006	1286	966	892	789	577	389	9116
1983-84	317	331	538	801	904	1103	1177	1223	828	851	645	376	9094
1984-85	315	303	469	779	1037	1056	892	1247	1078	1106	727	538	9547
1985-86	349	400	531	994	1199	921	1082	1064	1177	980	704	447	9848
1986-87	361	383	511	758	995	958	1090	914	1028	841	633	441	8913
1987-88	312	306	548	778	1007	1240	1146	997	969	845	613	406	9167
1988-89	292	334	566	846	1150	1160	1672	1089	1159	808	659	437	10172
1989-90	299	251	418	828	1170	1069	1306	1417	1005	744	559	390	9456
1990-91	312	297	476	856	1331	1218	1254	1116	1093	785	647	433	9818
1991-92	329	372	434	801	969	1166	1141	1277	1137	846	666	371	9509
1992-93	287	339	657	887	990	1281	1259	1051	971	729	522	411	9384
1993-94	258	279	472	741	966	1002	1073	1165	1142	770	602	387	8857
1994-95	318	290	511	857	1185	1225	1079	1079	1300	714	580	392	9488
1995-96	302	347	390	734	1153	1142	1426	1211	968	783	620	412	9488
1996-97	310	340	552	1012	1054	1344	1341	813	1121	764	549	379	9579
1997-98	230	260	406	943	917	1342	1287	955	957	808	657	434	9196
1998-99	327	401	509	790	986	1319	1390	1466	1251	896	721	427	10483
1999-00	334	344	489	885	1140	1315	1467	957	1010	843	655	430	9869
2000-01	350	386	558	818	871	924	995	954	1002	801	712	385	8756
2001-02	312	298	479	950	1103	1405	1094	1020	1152	907	624	416	9760
2002-	296	353	457	631	763	1114							

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COOLING DEGREE DAYS (base 65°F) 2002 HOMER, AK (HOM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	0	0	0	0	0	0	0
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	0	0	0	0	0	0
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	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0

SNOWFALL (inches) 2002 HOMER, AK (HOM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	T	20.5	6.0	8.9	46.0	6.1	4.5	0.0	0.0	92.0
1974-75	0.0	0.0	0.0	T	18.0	38.3	16.3	18.9	17.1	9.6	1.0	0.0	119.2
1975-76	0.0	0.0	0.0	0.0	4.4	16.5	11.3	1.2	38.1	13.0	0.0	0.0	84.5
1976-77	0.0	0.0	0.0	21.9	16.5	14.1	T	T	18.8	4.4	0.5	0.0	76.2
1977-78	0.0	0.0	0.2	3.2	4.6	0.4	9.7	27.9	6.7	T	0.0	0.0	52.7
1978-79	0.0	0.0	0.0	T	1.4	20.3	11.4	T	5.3	3.0	0.0	0.0	41.4
1979-80	0.0	0.0	0.0	1.2	18.8	54.7	13.1	21.1	3.1	T	0.0	0.0	112.0
1980-81	0.0	0.0	0.0	4.9	2.8	8.5	11.1	8.3	6.9	0.1	0.0	0.0	42.6
1981-82	0.0	0.0	T	7.9	13.8	10.7	6.8	1.9	2.9	3.2	T	0.0	47.2
1982-83	0.0	0.0	0.0	1.7	5.0	1.3	11.0	1.1	T	1.0	0.0	0.0	21.1
1983-84	0.0	0.0	0.0	7.7	13.7	2.9	8.3	32.2	0.6	7.1	T	0.0	72.5
1984-85	0.0	0.0	0.0	0.0	0.9	5.5	3.6	13.1	29.8	9.9	0.4	0.0	63.2
1985-86	0.0	0.0	0.0	3.7	6.1	1.7	15.5	6.8	0.5	0.7	T	0.0	35.0
1986-87	0.0	0.0	0.0	0.0	13.8	8.2	11.0	6.3	T	0.8	0.0	0.0	40.1
1987-88	0.0	0.0	0.0	0.0	6.5	15.3	8.2	9.8	4.5	T	0.0	0.0	44.3
1988-89	0.0	0.0	0.0	0.2	11.4	14.5	9.0	T	T	T	T	0.0	35.1
1989-90	0.0	0.0	T	0.6	3.6	10.6	17.7	17.8	1.0	T	0.0	0.0	51.3
1990-91	0.0	0.0	0.0	1.2	2.4	5.2	5.3	13.7	17.9	0.7	T	0.0	46.4
1991-92	0.0	0.0	0.0	1.0	7.9	30.7	12.0	19.8	19.5	T	0.0	0.0	90.9
1992-93	0.0	0.0	T	0.3	9.6	14.7	9.3	6.0	5.1	0.0	0.0	0.0	45.0
1993-94	0.0	0.0	0.0	T	0.6	9.7	3.0	8.8	17.2	0.3	0.0	0.0	39.6
1994-95	0.0	0.0	0.0	1.8	10.7	20.1	13.0	3.2	17.0	T	0.0	0.0	65.8
1995-96	0.0	0.0	0.0	T	3.0	2.3	2.3	34.8	1.5	3.3	0.0	0.0	47.2
1996-97	0.0	0.0	T	7.3	0.1	11.2	20.4	2.1	4.6	3.7	0.0	0.0	49.4
1997-98	0.0	0.0	0.0	11.2	9.7								
1998-99													
1999-00													
2000-01													
2001-02													
2002-													
POR= 53 YRS	0.0	0.0	0.0	2.3	7.3	13.0	10.1	11.9	9.4	3.2	0.4	T	57.6

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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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2002  
HOMER,  
ALASKA (HOM)

Homer Airport is located at the head of Coal Bay, on the north shore of Kachemak Bay just to the east of its confluence with Cook Inlet. The shoreline to either side of the station curves toward the north, such that water lies within a mile to the south, west and east. To the northwest through northeast the ground has a gradual rise to 500 feet at a distance of 1 1/2 miles and then rises abruptly to 1,000 feet at a distance of 2 miles from the station. The nearest 1,500-foot elevation in this direction is Lookout Mountain, 4 miles to the north and northeast. The nearest 2,000-foot elevation lies about 12 miles to the southeast across Kachemak Bay, in the foothills of the Kenai Mountains. The width of the bay in this direction is approximately 9 miles. Continuing southeastward beyond Kachemak Bay, at a distance of 15 to 20 miles, is the ridgeline of the northeast-southwest oriented Kenai Mountains with elevations of 4,000 to 6,000 feet.

The climate of Homer is marine but with precipitation amounts modified by the Kenai Mountains. The annual precipitation is reduced when air being lifted over mountains leaves most of its moisture on the windward side. For this reason the usual Gulf Coast amount of near 60 inches is reduced to less than half that amount. The relatively low annual snowfall is a reflection of the mild winter temperatures. Often precipitation will begin as snow but turn to rain shortly afterwards. The occurrence of the heaviest monthly amounts during the fall and winter months is the result of the increased frequency of storms into the Western Gulf of Alaska during those months.

Temperatures experienced at Homer are more nearly representative of marine climate than is precipitation. Winters are mild, seldom getting colder than zero, and summers are cool with the maximum temperature seldom going above 70 degrees. The growing season is about 100 days.

Surface winds at the station are seldom strong even in winter. However, a short distance to the southeast, over Kachemak Bay, and to the west over Cook Inlet, wind speeds requiring warnings to small craft are fairly common in winter and summer.

The occurrence of a thunderstorm is rare. Heavy fog is infrequent and of short duration, but patchy ground fog is common in spring and fall.

# STATION LOCATION

HOMER, 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
						SEA LEVEL		GROUND									
						GROUND TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER			
*NOTE: <u>AIRPORT</u> FAA Station Municipal Airport	12/12/42	12/01/97	2 mi. E	59°38'	151°30'	67 a63 b67	30	5 b22	5 b22				c23	3 b23	d7	CAA became FAA in 1959. Station type changed to WBAS/FAA 9/14/67. a. Effective 11/23/70. b. Moved to roof 9/1/81. c. Installed on roof 11/1/83. d. Commissioned 11/29/84.	
Homer Airport	12/01/97	Present	NA	59°39'	151°29'	e75									S	ASOS Commissioned 12/01/97 e. Ground elevation.	

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