

2002

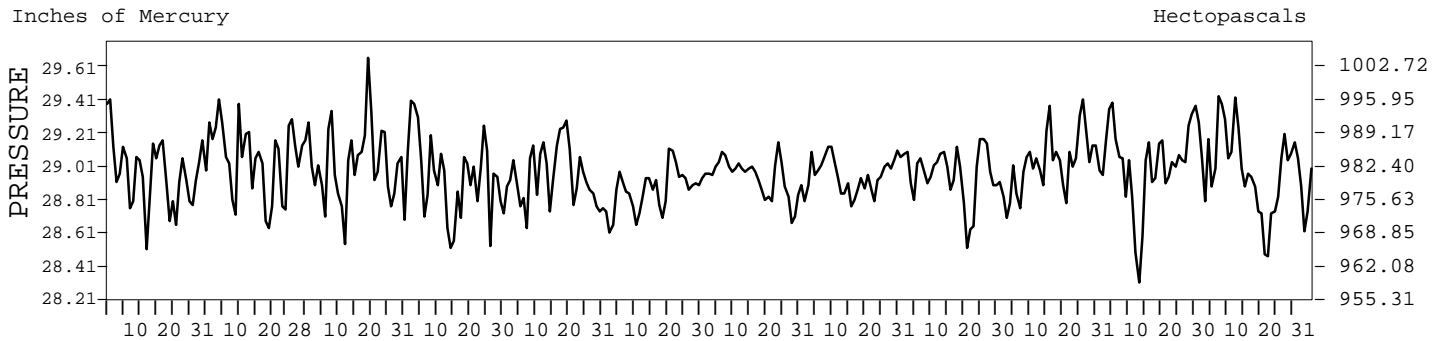
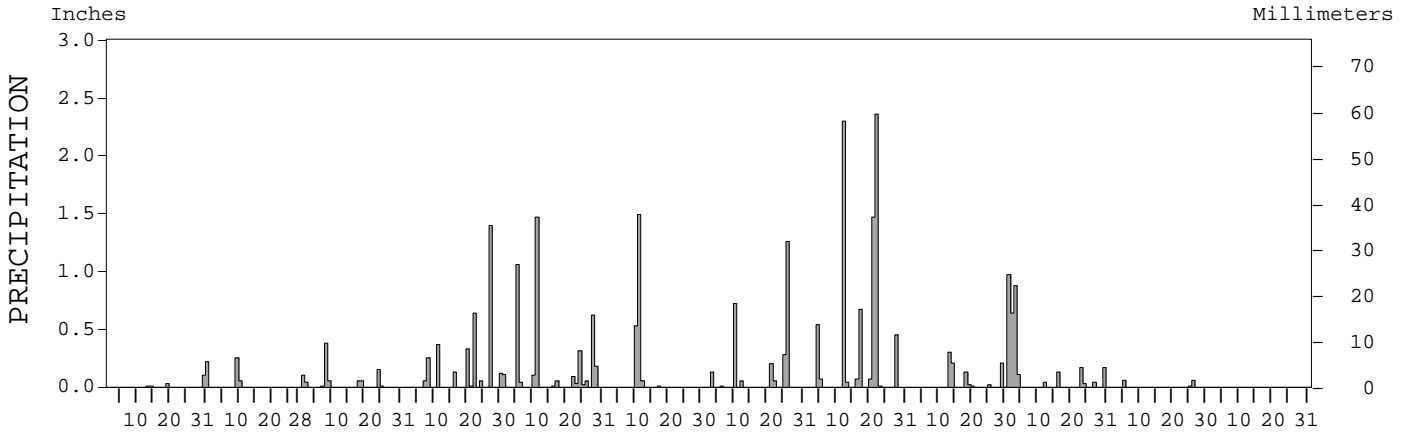
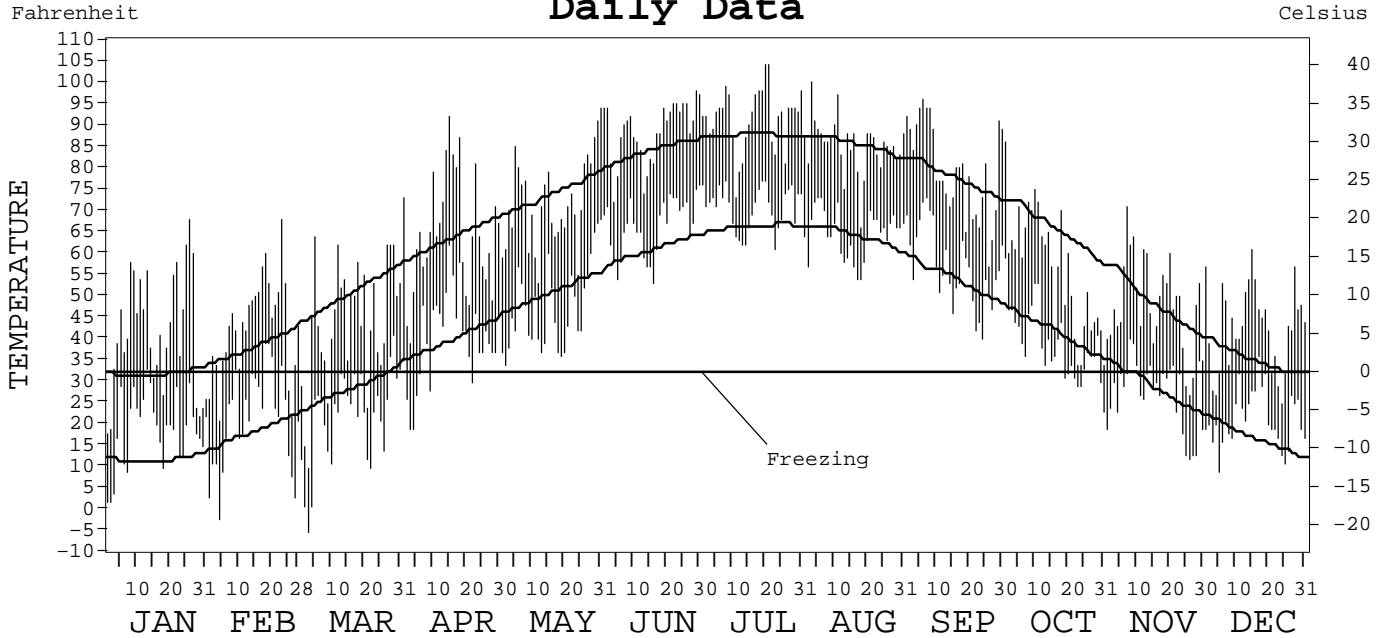
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3172

OMAHA (EPPLEY AIRFIELD),  
NEBRASKA (OMA)

## Daily Data



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# METEOROLOGICAL DATA FOR 2002

OMAHA, NE (OMA)

LATITUDE: 41° 18' 37" N      LONGITUDE: 95° 53' 57" W      ELEVATION (FT): GRND: 1025      BARO: 1028      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14942

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	41.5	42.8	44.1	64.8	71.8	88.4	91.5	85.2	79.4	56.1	48.0	42.7	63.0	
	HIGHEST DAILY MAXIMUM	68	68	64	92	94	98	104	100	96	86	71	61	104	
	DATE OF OCCURRENCE	26	23	05	15	31	29	21+	03	06	01	07	15	JUL 21+	
	MEAN DAILY MINIMUM	19.0	21.3	21.9	39.9	47.3	66.1	70.7	64.6	56.9	38.8	27.2	21.4	41.3	
	LOWEST DAILY MINIMUM	2	-2	-5	19	34	53	61	54	40	23	12	9	-5	
	DATE OF OCCURRENCE	02+	04	03	04+	02	16	23	18+	24	31	26	05	MAR 03	
	AVERAGE DRY BULB	30.3	32.1	33.0	52.4	59.6	77.3	81.1	74.9	68.2	47.5	37.6	32.1	52.2	
	MEAN WET BULB	26.1	28.4	28.6	46.4	52.6	67.2	70.8	67.8	60.2	43.0	33.1	27.7	46.0	
	MEAN DEW POINT	18.8	21.2	20.6	39.2	45.8	61.2	66.0	63.8	54.6	38.5	27.0	21.0	39.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	1	2	16	21	4	7	0	0	0	0	51
	MAXIMUM ≤ 32°	8	4	5	0	0	0	0	0	0	0	3	7	27	
MINIMUM ≤ 32°	30	23	28	7	0	0	0	0	0	7	23	30	148		
MINIMUM ≤ 0°	0	1	1	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1072	915	985	400	221	0	0	5	69	546	816	1013	6042	
	COOLING DEGREE DAYS	0	0	0	27	62	377	507	322	170	8	0	0	1473	
RH	MEAN (PERCENT)	67	66	64	64	63	60	64	71	65	75	69	69	66	
	HOUR 00 LST	73	72	71	72	75	67	72	78	73	81	74	75	74	
	HOUR 06 LST	79	78	77	80	82	78	81	87	81	85	82	81	81	
	HOUR 12 LST	58	57	56	55	49	50	53	60	53	65	60	60	56	
	HOUR 18 LST	56	57	52	50	48	44	48	59	48	68	61	59	54	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	2	1	1	0	0	0	0	2	0	2	3	12	
	THUNDERSTORMS	0	0	1	5	11	4	7	11	5	4	0	0	48	
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.)	28.97	29.06	29.05	28.95	28.95	28.87	28.94	28.97	28.94	29.06	29.02	28.97	28.98	
	MEAN SEA-LEVEL PRESS. (IN.)	30.05	30.14	30.12		29.99	29.89		30.00	29.97	30.12	30.09	30.05		
WINDS	RESULTANT SPEED (MPH)	2.5	2.5	3.7	2.3	2.3	3.0	2.4	2.1	1.4	1.3	1.7	0.9	0.2	
	RES. DIR. (TENS OF DEGS.)	31	27	36	17	16	11	11	15	08	35	30	24	12	
	MEAN SPEED (MPH)	9.8	12.2	11.4	12.7	11.0	11.8	9.4	9.0	9.1	9.2	8.3	8.5	10.2	
	PREVAIL. DIR. (TENS OF DEGS.)	35	16	35	17	16	17	16	16	16	17	34	16	16	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	31	33	37	38	40	32	29	46	28	33	37	30	46	
	DIR. (TENS OF DEGS.)	32	35	31	29	16	18	17	30	34	33	33	35	30	
	DATE OF OCCURRENCE	14	10	09	22+	06+	19+	01	17	23	04+	30	30+	AUG 17	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	36	43	45	46	56	43	48	56	33	46	46	36	56	
DIR. (TENS OF DEGS.)	22	34	31	17	24	28	01	30	22	19	34	36	30		
DATE OF OCCURRENCE	25+	10	09	16	05	10	25	17	30	01	29	30+	AUG 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	0.37	0.30	0.84	3.35	4.14	2.08	2.70	8.05	0.90	3.18	0.13	T	26.04	
	GREATEST 24-HOUR (IN.)	0.28	0.30	0.43	1.40	1.47	2.02	1.26	2.38	0.51	1.56	0.07	T	2.38	
	DATE OF OCCURRENCE	30-31	09-10	08-09	27	11	10-11	26	21-22	13-14	01-02	25-26	17+	AUG 21-22	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	5	2	9	10	14	4	8	11	7	10	3	0	83	
PRECIPITATION ≥ 0.10	2	1	3	7	7	2	5	6	4	7	0	0	44		
PRECIPITATION ≥ 1.00	0	0	0	1	2	1	1	3	0	0	0	0	8		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	6.6	2.2	11.1	T	T	0.0	T	T	0.0	1.6	1.5	T	23.0	
	GREATEST 24-HOUR (IN.)	5.0	2.2	5.0	T	T	0.0	T	T	0.0	1.6	1.4	T	5.0	
	DATE OF OCCURRENCE	30-31	09-10	01-02	29+	05		25	12		23	25-26	05+	MAR 01-02	
	MAXIMUM SNOW DEPTH (IN.)	3	6	4	0	0	0	0	0	0	2	1	0	6	
	DATE OF OCCURRENCE	31	02+	25							24	27+		FEB 02+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	2		4	0	0	0	0	0	0	1	1	0			

# NORMALS, MEANS, AND EXTREMES

OMAHA, NE (OMA)

LATITUDE: 41° 18' 37" N      LONGITUDE: 95° 53' 57" W      ELEVATION (FT): GRND: 1025      BARO: 1028      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 14942

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	31.7	37.9	50.4	63.2	73.7	83.7	87.4	85.2	77.3	65.2	47.8	34.8	61.5
	MEAN DAILY MAXIMUM	55	31.0	36.8	48.4	63.2	74.2	83.6	87.8	85.3	77.0	65.9	49.1	36.1	61.5
	HIGHEST DAILY MAXIMUM	65	69	78	89	97	99	105	114	110	104	96	83	72	114
	YEAR OF OCCURRENCE		1944	1972	1986	1989	1939	1953	1936	1936	1939	1938	1999	1939	JUL 1936
	MEAN OF EXTREME MAXS.	55	52.5	59.6	74.7	86.1	89.9	96.6	99.2	97.3	92.8	84.8	70.3	58.5	80.2
	NORMAL DAILY MINIMUM	30	11.6	18.0	28.1	39.6	50.7	60.6	65.9	63.8	53.5	41.1	28.1	16.4	39.8
	MEAN DAILY MINIMUM	55	11.6	17.4	27.1	39.8	51.3	61.3	66.5	64.0	54.0	42.0	28.8	17.3	40.1
	LOWEST DAILY MINIMUM	65	-23	-21	-16	5	27	38	44	43	25	13	-9	-23	-23
	YEAR OF OCCURRENCE		1982	1981	1948	1975	1980	1983	1972	1967	1984	1972	1964	1989	DEC 1989
	MEAN OF EXTREME MINS.	55	-9.9	-3.8	6.8	23.8	36.4	47.0	54.9	51.8	37.2	25.1	10.9	-2.8	23.1
	NORMAL DRY BULB	30	21.1	26.9	38.6	51.9	62.4	72.1	76.9	74.1	65.1	53.4	39.0	25.1	50.5
	MEAN DRY BULB	55	21.3	27.2	37.6	51.6	62.7	72.5	77.1	74.7	65.5	54.0	39.0	26.8	50.8
	MEAN WET BULB	17	21.0	24.8	33.0	45.2	55.8	64.9	65.9	64.2	58.5	46.8	34.2	23.0	44.8
	MEAN DEW POINT	17	15.7	19.4	27.5	37.8	50.0	60.3	62.7	61.1	54.0	40.7	28.6	18.4	39.7
NORMAL NO. DAYS WITH:	MAXIMUM $\geq$ 90°	30	0.0	0.0	0.0	0.5	1.5	7.3	13.6	9.2	2.9	0.3	0.0	0.0	35.3
	MAXIMUM $\leq$ 32°	30	15.2	10.6	3.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	2.2	12.4	44.0
	MINIMUM $\leq$ 32°	30	30.2	26.0	21.0	6.7	0.4	0.0	0.0	0.0	0.4	5.8	20.2	29.3	140.0
	MINIMUM $\leq$ 0°	30	7.7	3.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	*	0.2	4.0	16.1
H/C	NORMAL HEATING DEG. DAYS	30	1349	1052	805	424	151	17	1	6	105	384	806	1211	6311
	NORMAL COOLING DEG. DAYS	30	0	0	1	14	60	233	365	296	114	12	0	0	1095
RH	NORMAL (PERCENT)	30	71	71	66	61	64	66	68	71	72	67	71	74	68
	HOUR 00 LST	30	75	77	73	68	72	75	78	80	81	76	77	78	76
	HOUR 06 LST	30	78	79	78	76	79	82	84	86	87	82	81	80	81
	HOUR 12 LST	30	65	63	58	51	54	55	57	59	59	54	62	67	59
	HOUR 18 LST	30	66	64	55	47	50	51	55	58	60	56	65	70	58
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISBY $\leq$ 1/4 MI)	66	2.0	2.0	1.4	0.7	0.9	0.4	0.5	1.6	1.4	1.5	1.5	2.2	16.1
	THUNDERSTORMS	66	0.1	0.4	1.6	4.0	7.5	9.3	8.4	7.7	5.1	2.3	0.8	0.2	47.4
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	49	4.9	5.0	5.3	5.1	5.0	4.6	3.8	3.8	3.8	3.8	4.8	5.0	4.6
	MIDNIGHT-MIDNIGHT (OKTAS)	22	4.5	4.5	4.8	4.7	4.6	4.4	3.8	3.7	3.8	3.8	4.6	4.7	4.3
	MEAN NO. DAYS WITH: CLEAR	49	8.8	7.3	7.1	7.3	7.4	8.0	11.2	12.2	12.3	12.9	8.6	8.0	111.1
	PARTLY CLOUDY	49	7.9	7.4	8.0	8.5	9.6	11.4	12.1	10.1	7.6	8.1	7.4	7.5	105.6
CLOUDY	49	14.3	13.5	15.9	14.2	14.1	10.6	7.7	8.7	10.2	10.1	13.9	15.4	148.6	
PR	MEAN STATION PRESSURE (IN)	17	29.03	29.03	28.95	28.89	28.86	28.86	28.92	28.94	28.96	28.99	28.99	29.06	28.96
	MEAN SEA-LEVEL PRES. (IN)	13	30.11	30.14	30.05	29.94	29.91	29.90	29.93	29.98	30.00	30.05	30.04	30.14	30.02
WINDS	MEAN SPEED (MPH)	47	10.8	10.9	12.1	12.4	10.8	9.9	8.8	8.7	9.3	9.8	10.8	10.8	10.4
	PREVAIL. DIR (TENS OF DEGS)	32	33	35	35	16	16	16	16	16	16	16	16	16	16
	MAXIMUM 2-MINUTE: SPEED (MPH)	6	45	39	40	51	57	37	56	46	36	48	45	39	57
	DIR. (TENS OF DEGS)		33	33	19	20	16	36	03	30	19	11	28	33	16
	YEAR OF OCCURRENCE		1997	2000	1999	2001	1998	2000	2001	2002	2000	1998	1998	2000	MAY 1998
	MAXIMUM 5-SECOND: SPEED (MPH)	6	53	47	47	64	86	46	70	56	41	57	55	48	86
DIR. (TENS OF DEGS)		33	30	30	19	17	16	02	30	19	11	28	33	17	
YEAR OF OCCURRENCE		1997	1999	2000	2001	1998	1998	2001	2002	2000	1998	1998	1997	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	0.77	0.80	2.13	2.94	4.44	3.95	3.86	3.21	3.17	2.21	1.82	0.92	30.22
	MAXIMUM MONTHLY (IN)	65	3.70	2.97	5.96	8.48	10.33	10.81	10.34	12.26	13.75	5.25	4.70	5.42	13.75
	YEAR OF OCCURRENCE		1949	1965	1973	1999	1959	1947	1993	1999	1965	1997	1983	1984	SEP 1965
	MINIMUM MONTHLY (IN)	65	T	0.09	0.12	0.23	0.56	1.03	0.39	0.61	0.41	T	0.03	T	T
	YEAR OF OCCURRENCE		1986	1981	1956	1936	1948	1972	1983	1984	1953	1952	1976	1943	JAN 1986
	MAXIMUM IN 24 HOURS (IN)	59	1.52	2.24	1.45	2.82	4.16	4.27	3.37	10.48	6.47	3.13	2.53	3.03	10.48
	YEAR OF OCCURRENCE		1967	1954	1990	1999	1987	1994	1958	1999	1965	1968	1948	1984	AUG 1999
	NORMAL NO. DAYS WITH: PRECIPITATION $\geq$ 0.01	30	6.1	5.9	8.9	9.7	11.7	10.2	9.3	8.6	9.1	6.9	6.2	7.1	99.7
PRECIPITATION $\geq$ 1.00	30	0.1	0.1	0.5	0.6	1.1	1.2	1.0	1.0	1.1	0.5	0.4	0.1	7.7	
SNOWFALL	NORMAL (IN)	30	6.3	5.9	4.5	1.2	0.0	0.0	0.0	0.0	0.*	0.3	3.4	5.5	27.1
	MAXIMUM MONTHLY (IN)	64	25.7	25.4	27.2	10.0	2.0	T	T	T	T	7.2	12.0	19.9	27.2
	YEAR OF OCCURRENCE		1936	1965	1948	1992	1945	1994	1995	2002	1985	1941	1957	1969	MAR 1948
	MAXIMUM IN 24 HOURS (IN)	57	13.1	18.3	13.0	9.9	2.0	T	T	T	T	7.2	8.7	10.2	18.3
	YEAR OF OCCURRENCE		1949	1965	1948	1992	1945	1994	1995	2002	1985	1941	1957	1969	FEB 1965
	MAXIMUM SNOW DEPTH (IN)	53	17	18	27	8	0	0	0	0	0	5	9	17	27
YEAR OF OCCURRENCE		1984	1965	1960	1992						1997	1957	1983	MAR 1960	
NORMAL NO. DAYS WITH: SNOWFALL $\geq$ 1.0	30	1.9	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.2	1.3	2.0	9.2	

PRECIPITATION (inches) 2002 OMAHA (EPPLEY AIRFIELD), NE (OMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	1.44	0.87	5.96	3.60	4.94	1.56	4.98	1.27	8.04	2.60	1.43	1.65	38.34
1974	0.63	0.16	0.80	1.72	2.65	1.79	0.79	4.17	2.54	2.74	1.41	0.81	20.21
1975	2.01	1.06	1.78	3.37	3.72	4.30	0.46	1.80	2.16	0.01	2.85	0.46	23.98
1976	0.11	1.39	2.13	2.98	3.55	2.84	1.52	0.62	1.64	1.35	0.03	0.21	18.37
1977	0.93	0.38	3.72	3.28	6.05	2.40	4.69	8.63	5.05	4.38	2.90	0.35	42.76
1978	0.15	0.76	1.04	4.61	5.05	2.19	5.89	3.87	6.01	0.96	1.09	0.50	32.12
1979	1.11	0.30	4.59	2.58	2.84			2.07	3.36	3.12	1.23	0.14	
1980	0.93	0.52	1.40	1.72	2.50	8.99	3.63	6.98	0.82	2.70	0.11	0.04	30.34
1981	0.20	0.09	0.88	1.33	4.13	2.14	1.87	4.80	1.51	1.92	2.60	0.86	22.33
1982	1.83	0.26	1.90	1.22	9.92	4.16	2.46	3.21	2.27	1.10	1.81	1.17	31.31
1983	0.86	0.68	3.65	1.00	2.81	6.52	0.39	1.24	2.45	2.16	4.70	0.63	27.09
1984	0.38	0.62	2.32	4.77	4.92	5.56	1.58	0.61	2.55	3.87	0.52	5.42	33.12
1985	0.56	1.88	1.36	3.16	2.46	1.73	3.27	1.50	2.71	1.36	0.85	0.37	21.21
1986	T	1.00	2.51	4.96	4.88	2.37	2.77	3.86	8.11	4.86	0.99	0.89	37.20
1987	0.08	0.55	4.14	2.24	8.64	3.29	6.72	10.16	1.56	1.33	1.60	1.01	41.32
1988	0.42	0.18	0.14	1.57	4.68	1.60	2.68	1.78	2.63	0.14	2.55	0.95	19.32
1989	1.10	0.86	0.40	1.80	0.83	5.05	3.06	1.80	6.46	1.55	0.15	0.74	23.80
1990	0.59	0.34	4.01	0.36	5.08	3.88	6.36	0.81	0.81	1.71	1.15	1.18	26.28
1991	1.08	0.26	2.85	4.46	4.07	7.79	2.96	3.67	1.37	3.76	3.51	1.75	37.53
1992	1.41	1.18	3.08	3.19	2.27	1.44	7.31	1.57	6.86	2.22	3.01	1.15	34.69
1993	1.42	0.93	2.67	2.26	4.90	8.03	10.34	7.53	2.29	1.18	0.66	0.51	42.72
1994	0.50	1.01	0.15	1.46	1.73	8.54	3.60	1.97	3.32	1.37	1.64	1.21	26.50
1995	0.80	0.47	2.50	4.26	7.07	1.28	3.14	2.52	2.75				
1996			0.83	2.36	7.57	2.96	2.39	2.19	4.90	1.64	2.46	0.32	
1997	0.29	0.69	1.08	3.66	1.54	4.51	4.69	1.33	4.30	5.25	2.30	0.57	30.21
1998	1.13	1.27	4.13	3.53	4.71	8.23	7.77	3.85	0.85	2.65	1.48	0.13	39.73
1999	0.59	1.40	1.31	8.48	4.50	3.75	3.07	12.26	1.64	0.03	1.11	0.57	38.71
2000	0.17	1.95	0.81	2.85	2.69	5.52	5.03	1.30	0.64	1.93	3.27	0.95	27.11
2001	1.61	1.53	1.38	2.37	8.78	2.29	2.06	1.95	2.39	2.10	1.55	0.67	28.68
2002	0.37	0.30	0.84	3.35	4.14	2.08	2.70	8.05	0.90	3.18	0.13	T	26.04
POR= 130 YRS	0.75	0.89	1.56	2.73	3.97	4.49	3.73	3.46	3.07	2.03	1.25	0.90	28.83

WBAN : 14942

AVERAGE TEMPERATURE (°F) 2002 OMAHA (EPPLEY AIRFIELD), NE (OMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	22.6	28.6	44.3	50.4	59.4	73.3	75.5	77.6	64.2	57.3	39.8	22.7	51.3
1974	18.8	30.6	42.1	52.6	61.9	69.8	82.2	70.5	59.7	55.3	40.7	28.9	51.1
1975	22.5	22.4	31.7	49.4	66.2	72.5	78.9	79.7	62.6	58.2	41.6	30.9	51.4
1976	25.5	37.5	40.4	56.8	60.2	72.7	79.0	76.3	67.4	48.5	33.3	24.1	51.8
1977	13.3	33.2	41.6	59.0	70.2	75.1	80.6	72.5	67.4	53.1	39.7	26.2	52.7
1978	12.0	15.7	35.7	52.6	61.7	73.7	77.3	75.5	71.1	53.7	39.6	24.4	49.4
1979	10.7	17.3	39.8	50.0	61.8	72.7	76.0	75.7	66.7		35.8	30.3	
1980	22.4	20.3	32.9	50.7	61.6	73.1	79.6	76.6	64.7	49.0	40.3	26.1	49.8
1981	24.1	28.4	40.8	57.4	58.6	72.6	76.6	71.0	64.8	50.2	40.6	22.9	50.7
1982	9.4	22.6	34.8	47.7	62.9	65.5	77.1	72.6	64.7	55.0	37.1	28.3	48.1
1983	24.9	30.1	37.3	43.5	56.5	69.6	79.4	81.5	67.0	52.2	38.5	7.3	49.0
1984	19.6	33.2	30.3	46.6	57.7	71.8	75.1	76.5	61.9	52.2	39.4	27.1	49.3
1985	19.1	23.6	43.4	54.9	63.4	67.2	74.1	69.4	62.1	52.7	28.5	16.4	47.9
1986	29.4	22.8	42.8	51.9	61.3	73.9	77.9	70.1	67.9	53.7	34.4	29.4	51.3
1987	28.6	36.8	42.8	55.3	67.3	74.2	77.8	70.9	64.8	48.3	43.4	30.9	53.4
1988	21.1	23.9	40.7	50.5	67.3	76.3	76.4	77.3	66.2	49.1	40.0	29.5	51.5
1989	32.4	16.0	37.9	54.6	62.4	69.4	77.4	74.4	63.0	53.9	36.2	17.7	49.6
1990	33.5	31.3	42.7	50.8	58.5	73.5	74.8	75.3	69.0	53.3	42.9	21.2	52.2
1991	16.3	34.2	42.5	54.2	67.3	74.6	75.8	74.3	66.0	52.1	30.6	31.8	51.6
1992	32.6	36.7	43.6	50.0	61.8	69.4	71.1	68.4	64.0	53.5	35.4	27.9	51.2
1993	19.5	22.2	35.6	47.7	61.4	70.0	75.1	75.2	59.7	50.9	35.0	29.4	48.5
1994	18.1	22.9	42.1	51.3	64.5	74.1	73.2	72.6	67.1	55.3	41.4	28.7	50.9
1995	23.0	31.5	39.3	47.9	58.1	71.8	78.7	79.6					
1996			33.0	49.2	59.4	72.8	73.4	72.8	63.1	54.0	32.9	22.2	
1997	19.0	29.5	41.6	45.7	58.0	73.4	77.2	73.4	66.5	54.0	35.3	29.9	50.3
1998	25.8	36.0	32.5	52.0	66.5	69.6	76.8	75.6	71.6	55.8	43.6	30.9	53.1
1999	22.6	35.5	39.5	51.6	62.3	70.8	80.4	72.8	63.8	53.3	47.0	31.0	52.6
2000	27.1	36.2	44.6	51.9	66.0	70.5	75.1	77.1	67.8	57.5	33.4	15.6	51.9
2001	26.6	21.4	35.0	55.5	63.5	71.6	79.0	75.7	65.0	53.5	49.4	32.0	52.4
2002	30.3	32.1	33.0	52.4	59.6	77.3	81.1	74.9	68.2	47.5	37.6	32.1	52.2
POR= 129 YRS	22.0	26.8	37.8	51.6	62.6	72.2	77.3	75.0	66.2	54.5	39.2	27.0	51.0

HEATING DEGREE DAYS (base 65°F) 2002 OMAHA (EPPLLEY AIRFIELD), NE (OMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0	0	90	254	750	1302	1427	955	702	379	140	31	6030
1974-75	0	15	191	300	726	1115	1311	1189	1024	469	72	11	6423
1975-76	0	0	141	251	695	1051	1219	791	757	261	177	4	5347
1976-77	0	0	61	522	947	1265	1598	883	579	219	10	1	6085
1977-78	0	1	28	361	754	1196	1637	1375	910	372	160	17	6811
1978-79	0	0	39	350	754	1255	1676	1333	775	451	156	12	6801
1979-80	1	6	65	867	1070	1318	1290	987	440	158	4	4	6017
1980-81	0	3	108	491	735	1198	1259	1018	743	241	221	0	7079
1981-82	7	3	85	452	723	1299	1721	1183	930	518	102	56	6421
1982-83	0	13	115	315	829	1131	1240	971	854	638	278	37	7272
1983-84	0	0	102	405	789	1786	1401	916	1071	552	243	7	6203
1984-85	0	3	184	391	766	1166	1416	1153	666	325	88	45	6682
1985-86	0	13	217	378	1089	1501	1095	1176	689	389	134	1	5389
1986-87	0	15	40	338	913	1096	1122	784	685	322	67	7	6053
1987-88	1	32	67	512	639	1048	1353	1185	748	433	29	6	6151
1988-89	1	7	56	488	744	1095	1002	1368	844	380	143	23	6091
1989-90	0	7	140	356	855	1460	973	935	684	460	206	15	5969
1990-91	4	1	75	371	662	1350	1506	859	695	338	108	0	5659
1991-92	0	0	123	402	1027	1022	999	816	656	449	154	11	6710
1992-93	2	26	114	359	881	1141	1403	1192	904	514	140	34	6496
1993-94	0	1	171	448	895	1097	1448	1174	702	432	120	8	5963
1994-95	0	5	83	302	698	1116	1296	931	791	507	213	21	6674
1995-96	1	0	0	347	956	1321	1417	986	981	471	211	22	5943
1996-97	0	0	130	347	956	1321	1417	986	719	572	226	0	5444
1997-98	1	7	57	399	884	1082	1207	806	1000	390	52	58	5162
1998-99	0	0	22	287	634	1050	1307	818	781	396	122	27	6561
1999-00	0	2	112	366	535	1047	1168	828	625	391	72	16	5516
2000-01	0	1	87	242	940	1526	1185	1214	925	301	120	20	6516
2001-02	0	0	87	360	462	1014	1072	915	985	400	221	0	5516
2002-	0	5	69	546	816	1013							

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COOLING DEGREE DAYS (base 65°F) 2002 OMAHA (EPPLLEY AIRFIELD), NE (OMA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1973	0	0	0	3	23	257	332	395	74	22	0	0	1106
1974	0	0	0	11	52	182	540	193	39	4	0	0	1021
1975	0	0	0	7	115	242	441	464	76	44	0	0	1389
1976	0	0	0	21	34	240	440	358	139	17	0	0	1249
1977	0	0	0	45	179	310	489	236	105	0	0	0	1364
1978	0	0	7	5	67	287	386	333	231	5	0	0	1321
1979	0	0	0	8	64	249	344	345	122	0	0	0	1264
1980	0	0	0	15	61	254	459	368	107	0	0	0	941
1981	0	0	0	24	29	235	372	196	85	0	0	0	886
1982	0	0	0	5	43	78	383	252	113	12	0	0	1359
1983	0	0	0	0	20	183	453	519	167	17	0	0	1034
1984	0	0	0	6	22	220	320	366	96	4	0	0	774
1985	0	0	0	30	44	116	290	156	137	1	0	0	1039
1986	0	0	10	5	26	276	408	181	133	0	0	0	1176
1987	0	0	0	39	145	292	407	221	69	2	1	0	1325
1988	0	0	0	5	109	351	364	394	99	3	0	0	1123
1989	0	0	10	77	68	159	395	306	89	19	0	0	1185
1990	0	0	0	41	9	277	316	327	199	12	4	0	1315
1991	0	0	5	21	184	295	345	295	161	9	0	0	655
1992	0	0	0	7	63	150	198	136	90	11	0	0	909
1993	0	0	0	0	35	188	322	324	21	19	0	0	1093
1994	0	0	0	28	108	287	262	248	151	9	0	0	1111
1995	0	0	0	0	8	230	431	458					1265
1996	0	0	0	8	46	264	266	250	79	14	0	0	1079
1997	0	0	0	0	18	260	388	273	110	62	0	0	1199
1998	0	0	1	6	108	205	373	336	227	9	0	0	1217
1999	0	0	0	0	43	208	484	248	84	12	0	0	1473
2000	0	0	0	2	110	188	317	385	179	18	0	0	
2001	0	0	0	27	80	225	439	342	93	10	1	0	
2002	0	0	0	27	62	377	507	322	170	8	0	0	

SNOWFALL (inches) 2002 OMAHA (EPPLEY AIRFIELD), NE (OMA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1973-74	0.0	0.0	0.0	0.0	4.1	10.7	11.5	2.4	4.2	0.8	0.0	0.0	33.7
1974-75	0.0	0.0	0.0	0.0	5.4	8.1	22.7	11.9	5.1	4.6	0.0	0.0	57.8
1975-76	0.0	0.0	0.0	0.0	6.3	0.6	1.8	7.1	4.2	0.0	0.0	0.0	20.0
1976-77	0.0	0.0	0.0	1.4	0.5	2.8	14.4	0.1	3.7	1.6	0.0	0.0	24.5
1977-78	0.0	0.0	0.0	0.0	T	4.0	1.4	17.0	6.5	T	0.0	0.0	28.9
1978-79	0.0	0.0	0.0	0.0	2.0	5.6	10.0	1.4	6.0	1.1	0.0	0.0	26.1
1979-80	0.0	0.0	0.0	2.0	T	1.3	5.0	3.0	9.2	T	0.0	0.0	20.5
1980-81	0.0	0.0	0.0	2.0	T	0.5	3.6	3.0	T	0.0	0.0	0.0	9.1
1981-82	0.0	0.0	0.0	T	1.0	7.0	2.4	3.0	8.0	2.9	0.0	0.0	24.3
1982-83	0.0	0.0	0.0	T	T	4.0	6.5	9.0	9.0	3.0	0.0	0.0	31.5
1983-84	0.0	0.0	0.0	0.0	6.9	13.5	3.3	2.0	14.2	T	0.0	0.0	39.9
1984-85	0.0	0.0	0.0	T	T	5.0	4.0	4.0	6.0	T	0.0	0.0	19.0
1985-86	0.0	0.0	T	0.0	5.0	4.5	T	7.7	T	0.3	0.0	0.0	17.5
1986-87	0.0	0.0	0.0	0.0	1.8	5.5	1.2	1.6	10.5	T	0.0	0.0	20.6
1987-88	0.0	0.0	0.0	T	9.0	2.0	2.0	2.2	0.8	0.0	0.0	0.0	16.0
1988-89	0.0	0.0	0.0	0.0	4.3	2.7	1.4	11.8	3.3	T	T	0.0	23.5
1989-90	0.0	0.0	0.0	T	1.2	5.3	5.2	4.0	6.7	0.1	0.0	T	22.5
1990-91	0.0	0.0	0.0	T	1.1	10.1	14.9	0.3	4.1	1.1	0.0	T	31.6
1991-92	0.0	0.0	0.0	2.5	8.8	T	0.3	1.1	0.4	10.0	0.0	0.0	23.1
1992-93	0.0	0.0	0.0	0.0	5.8	3.9	13.0	8.5	4.1	1.5	0.0	T	36.8
1993-94	0.0	0.0	0.0	T	2.8	3.1	3.5	8.8	1.4	1.2	0.0	T	20.8
1994-95	0.0	0.0	0.0	0.0	2.0	12.1	5.5	3.0	4.8	0.4	T	0.0	27.8
1995-96	T	0.0	0.0										
1996-97						6.2			T				
1997-98													
1998-99						4.0	6.0	12.2	5.8	0.4	0.0	0.0	
1999-00					T	4.1	1.6	7.7	T	T	0.0	T	
2000-01	0.0	0.0	0.0	0.0	2.7	18.1	6.9	10.4	0.7	T	T	T	38.8
2001-02	0.0	0.0	0.0	T	T	1.8	6.6	2.2	11.1	T	T	0.0	21.7
2002-	T	T	0.0	1.6	1.5	T							
POR= 63 YRS	T	0.0	T	0.3	2.6	5.6	7.1	6.6	6.0	1.0	0.1	T	29.3

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REFERENCE NOTES:

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. 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  
OMAHA (EPPLEY AIRFIELD),  
NEBRASKA (OMA)

Omaha, Nebraska, is situated on the west bank of the Missouri River. The river level at Omaha is normally about 965 feet above sea level and the rolling hills in and around Omaha rise to about 1,300 feet above sea level. The climate is typically continental with relatively warm summers and cold, dry winters. It is situated midway between two distinctive climatic zones, the humid east and the dry west. Fluctuations between these two zones produce weather conditions for periods that are characteristic of either zone, or combinations of both. Omaha is also affected by most low pressure systems that cross the country. This causes periodic and rapid changes in weather, especially during the winter months.

Most of the precipitation in Omaha falls during sharp showers or thunderstorms, and these occur mostly during the growing season from April to September. Of the total precipitation, about 75 percent falls during this six-month period. The rain occurs mostly as evening or nighttime showers and thunderstorms. Although winters are relatively cold, precipitation is light, with only 10 percent of the total annual precipitation falling during the winter months.

Sunshine is fairly abundant, ranging around 50 percent of the possible in the winter to 75 percent of the possible in the summer.

# STATION LOCATION

OMAHA (EPPLEY AIRFIELD),  
NEBRASKA

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 THERMOMETER	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE	RAINING GAUGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE: <u>AIRPORT</u>  FAA Air Cargo Building+ Eppley Airfield  + General Aviation Bldg., eff. 8/1/86.  Eppley Airfield	6/1/77	02/22/96	app.1 mi. SSW	41°18'	95°54'	977	j20	m5 n5	n5		j3 p	4 n4	j4 k4 nUN qUN	S	FAA operation. j. Not moved 6/1/77. k. Type change 9/22/79. m. Installed 4/1983. Station type changed from FAA to FCWOS 6/1/86. n. Minor move 7/18/86. p. Removed 7/18/86. q. Type change 7/18/86.  ASOS Commissioned 02/22/96 r. Ground elevation.		

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