

NORMALS, MEANS, AND EXTREMES

MINNEAPOLIS, MN (MSP)

LATITUDE: 44° 52' 59" N LONGITUDE: 93° 13' 44" W ELEVATION (FT): GRND: 871 BARO: 874 TIME ZONE: CENTRAL (UTC + 6) WBAN: 14922

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	21.9	28.4	40.6	57.0	70.1	79.0	83.3	80.4	71.1	58.4	40.1	26.4	54.7	
	MEAN DAILY MAXIMUM	61	21.7	27.5	39.0	56.3	68.8	78.5	83.4	80.8	71.2	59.3	40.8	26.8	54.5	
	HIGHEST DAILY MAXIMUM	67	58	61	83	95	96	102	105	102	98	90	77	68	105	
	YEAR OF OCCURRENCE		1944	2000	1986	1980	1978	1985	1988	1947	1976	1997	1999	1998	JUL 1988	
	MEAN OF EXTREME MAXS.	61	41.0	45.5	62.0	79.3	87.5	93.3	94.9	93.5	88.9	80.2	61.6	46.0	72.8	
	NORMAL DAILY MINIMUM	30	4.3	11.8	23.5	36.2	48.5	57.8	63.0	60.8	50.8	38.9	24.8	10.9	35.9	
	MEAN DAILY MINIMUM	61	4.4	10.1	22.1	36.1	47.9	57.9	63.1	60.8	50.8	39.6	25.2	11.6	35.8	
	LOWEST DAILY MINIMUM	67	-34	-32	-32	2	18	34	43	39	26	13	-17	-29	-34	
	YEAR OF OCCURRENCE		1970	1996	1962	1962	1967	1945	1972	1974	1997	1974	1997	1964	1983	JAN 1970
	MEAN OF EXTREME MINS.	61	-19.1	-12.8	-1	20.7	32.7	43.8	51.7	48.9	35.1	24.9	5.6	-11.2	18.4	
	NORMAL DRY BULB	30	13.1	20.1	32.1	46.6	59.3	68.4	73.2	70.6	61.0	48.7	32.5	18.7	45.4	
	MEAN DRY BULB	61	13.0	18.8	30.6	46.2	58.2	68.2	73.3	70.9	61.0	49.5	33.0	19.3	45.2	
	MEAN WET BULB	21	14.6	19.5	28.9	40.8	51.7	61.5	65.7	64.0	55.8	43.7	29.8	19.0	41.2	
	MEAN DEW POINT	21	9.2	14.0	22.0	31.7	44.3	55.7	61.0	59.7	51.0	37.4	24.4	14.2	35.4	
	NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.7	2.7	5.6	3.0	0.9	*	0.0	0.0	13.0		
MAXIMUM ≤ 32°	30	23.6	16.7	7.1	0.4	0.0	0.0	0.0	0.0	0.0	0.1	8.0	20.4	76.3		
MINIMUM ≤ 32°	30	30.8	26.8	24.1	10.1	0.7	0.0	0.0	0.0	0.5	7.3	23.7	30.2	154.2		
MINIMUM ≤ 0°	30	12.9	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	7.5	29.9		
H/C	NORMAL HEATING DEG. DAYS	30	1616	1273	1034	560	222	44	7	20	178	516	978	1428	7876	
	NORMAL COOLING DEG. DAYS	30	0	0	0	4	41	146	259	190	56	3	0	0	699	
RH	NORMAL (PERCENT)	30	71	71	67	59	60	64	66	69	70	67	72	74	68	
	HOUR 00 LST	30	74	75	72	65	66	72	75	78	77	73	76	77	73	
	HOUR 06 LST	30	75	77	77	74	75	78	81	84	84	80	80	79	79	
	HOUR 12 LST	30	68	65	60	50	50	54	55	58	58	58	66	70	59	
	HOUR 18 LST	30	69	67	60	48	48	52	54	58	60	59	68	72	60	
S	PERCENT POSSIBLE SUNSHINE	58	53	59	57	58	61	66	72	69	62	55	39	42	58	
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG (VISBY ≤ 1/4 MI)	67	1.2	1.4	1.3	0.5	0.5	0.5	0.3	0.6	0.8	0.9	1.1	1.3	10.4	
	THUNDERSTORMS	67	0.0	0.2	1.0	2.6	5.2	7.8	7.6	6.4	4.3	1.8	0.6	0.1	37.6	
CLOUDINESS	MEAN:															
	SUNRISE-SUNSET (OKTAS)	58	5.1	5.0	5.4	5.3	5.1	4.9	4.2	4.2	4.4	4.6	5.7	5.5	5.0	
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.9	4.8	5.1	5.0	4.8	4.5	4.0	4.0	4.2	4.6	5.3	5.2	4.7	
	MEAN NO. DAYS WITH:															
CLEAR	58	8.3	7.7	7.1	6.9	7.0	7.2	9.8	10.0	9.8	9.8	5.5	6.4	95.5		
PARTLY CLOUDY	58	7.3	6.9	7.4	7.7	9.1	10.4	11.8	11.2	8.5	7.5	6.4	6.4	100.6		
CLOUDY	58	15.4	13.7	16.5	15.3	14.8	12.4	9.5	9.8	11.8	13.7	18.1	18.2	169.2		
PR	MEAN STATION PRESSURE (IN)	32	29.17	29.18	29.10	29.06	29.04	29.03	29.08	29.11	29.12	29.11	29.17	29.11	29.11	
	MEAN SEA-LEVEL PRES. (IN)	21	30.12	30.12	30.05	29.96	29.93	29.92	29.96	30.00	30.01	30.02	30.05	30.10	30.02	
WINDS	MEAN SPEED (MPH)	56	10.5	10.3	11.3	12.3	11.3	10.4	9.5	9.3	10.0	10.6	10.9	10.2	10.6	
	PREVAIL. DIR (TENS OF DEGS)	37	31	31	31	36	14	14	15	14	18	31	31	31	31	
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	9	35	37	37	45	49	48	40	35	39	38	39	39	49	
	DIR. (TENS OF DEGS)		29	31	29	28	22	33	22	26	23	31	28	31	22	
	YEAR OF OCCURRENCE		2004	2002	2004	2000	1998	1998	1999	2000	2004	2001	2005	2004	MAY 1998	
	MAXIMUM 5-SECOND:															
SPEED (MPH)	9	47	47	49	59	64	60	52	46	48	47	49	52	64		
DIR. (TENS OF DEGS)		32	33	32	28	26	29	21	26	23	29	28	31	26		
YEAR OF OCCURRENCE		2004	2002	2000	2000	1998	2005	1999	2000	2004	2001	2005	2004	MAY 1998		
PRECIPITATION	NORMAL (IN)	30	1.04	0.79	1.86	2.31	3.24	4.34	4.04	4.05	2.69	2.11	1.94	1.00	29.41	
	MAXIMUM MONTHLY (IN)	67	3.63	2.14	4.75	7.00	8.03	9.82	17.90	9.31	7.53	5.68	5.29	4.27	17.90	
	YEAR OF OCCURRENCE		1967	1981	1965	2001	1962	1990	1987	1977	1942	1971	1991	1982	JUL 1987	
	MINIMUM MONTHLY (IN)	67	0.10	0.06	0.32	0.16	0.61	0.22	0.58	0.43	0.41	0.01	0.02	T	T	
	YEAR OF OCCURRENCE		1990	1964	1994	1987	1967	1988	1975	1946	1940	1952	1939	1943	DEC 1943	
	MAXIMUM IN 24 HOURS (IN)	67	1.21	1.10	1.66	2.23	3.03	3.28	10.00	7.36	3.55	4.83	2.91	2.47	10.00	
	YEAR OF OCCURRENCE		1967	1966	1965	1975	1965	2003	1987	1977	1942	2005	1940	1982	JUL 1987	
	NORMAL NO. DAYS WITH:															
PRECIPITATION ≥ 0.01	30	9.9	7.5	10.2	11.3	10.9	11.1	10.4	10.4	9.8	8.4	9.1	9.7	118.7		
PRECIPITATION ≥ 1.00	30	*	*	0.1	0.3	0.5	1.2	1.0	1.0	0.6	0.4	0.3	0.1	5.5		
SNOWFALL	NORMAL (IN)	30	13.5	8.2	10.4	3.1	0.1	0.0	0.0	0.0	0.*	0.6	10.0	10.0	55.9	
	MAXIMUM MONTHLY (IN)	62	46.4	26.5	40.0	21.8	3.0	T	T	T	1.7	8.2	46.9	33.2	46.9	
	YEAR OF OCCURRENCE		1982	1962	1951	1983	1946	1995	1994	1992	1942	1991	1991	1969	NOV 1991	
	MAXIMUM IN 24 HOURS (IN)	62	18.5	9.3	14.7	13.6	3.0	T	T	T	1.7	8.2	21.0	16.5	21.0	
	YEAR OF OCCURRENCE		1982	1939	1985	1983	1946	1995	1994	1992	1942	1991	1991	1982	NOV 1991	
	MAXIMUM SNOW DEPTH (IN)	55	38	30	27	10	2	0	0	0	0	1	23	21	38	
	YEAR OF OCCURRENCE		1982	1967	1965	1985	1984					1969	1991	1991	JAN 1982	
NORMAL NO. DAYS WITH:																
SNOWFALL ≥ 1.0	30	4.1	3.0	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.1	2.8	2.9	16.9		