

NORMALS, MEANS, AND EXTREMES

ROCHESTER, MN (RST)

LATITUDE: 43° 54' 15" N LONGITUDE: 92° 29' 30" W ELEVATION (FT): GRND: 1323 BARO: 1326 TIME ZONE: CENTRAL (UTC + 6) WBAN: 14925

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	19.9	26.2	38.7	54.8	67.7	76.6	80.1	77.5	69.2	56.9	38.7	24.5	52.6
	MEAN DAILY MAXIMUM	58	21.2	27.0	37.8	55.3	68.1	77.5	81.3	79.0	70.7	58.8	40.8	26.5	53.7
	HIGHEST DAILY MAXIMUM	46	55	63	79	91	92	101	102	99	95	93	75	62	102
	YEAR OF OCCURRENCE		1981	1981	1986	1980	1980	1985	1988	1988	1978	1997	1999	1998	JUL 1988
	MEAN OF EXTREME MAXS.	58	40.2	44.2	60.6	78.2	85.7	90.9	92.1	90.4	86.4	78.8	62.1	45.4	71.2
	NORMAL DAILY MINIMUM	30	3.7	10.6	22.6	34.6	46.1	55.6	60.1	58.0	48.7	37.1	23.7	10.1	34.2
	MEAN DAILY MINIMUM	58	3.7	9.5	20.7	34.5	46.0	55.8	60.0	57.8	48.7	37.9	24.4	11.0	34.2
	LOWEST DAILY MINIMUM	46	-32	-35	-31	5	21	35	42	37	23	11	-20	-33	-35
	YEAR OF OCCURRENCE		1970	1996	1962	1982	1967	1990	1967	1964	1967	1988	1977	1983	FEB 1996
	MEAN OF EXTREME MINS.	58	-20.1	-14.4	-1.9	18.5	30.8	42.0	48.4	45.4	32.6	21.8	4.3	-13.3	16.2
	NORMAL DRY BULB	30	11.8	18.4	30.6	44.7	56.9	66.1	70.1	67.7	58.9	47.0	31.2	17.3	43.4
	MEAN DRY BULB	58	12.5	18.1	29.2	44.9	56.8	66.7	70.7	68.3	59.7	48.3	32.6	18.7	43.9
	MEAN WET BULB	20	14.3	18.6	28.5	40.3	51.5	60.5	64.2	62.9	54.9	42.9	29.5	17.7	40.5
	MEAN DEW POINT	20	10.7	14.9	23.8	34.0	45.5	56.0	60.6	60.3	50.9	37.9	25.5	14.3	36.2
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.3	1.7	3.1	1.5	0.4	*	0.0	0.0	7.1	
MAXIMUM ≤ 32°	30	24.9	18.1	8.5	0.7	0.0	0.0	0.0	0.0	0.0	0.2	8.7	22.2	83.3	
MINIMUM ≤ 32°	30	30.8	27.1	25.4	12.2	1.5	0.0	0.0	0.0	1.1	10.4	24.3	30.4	163.2	
MINIMUM ≤ 0°	30	13.2	7.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.5	33.0	
H/C	NORMAL HEATING DEG. DAYS	30	1650	1305	1066	609	281	65	23	50	208	558	1014	1479	8308
	NORMAL COOLING DEG. DAYS	30	0	0	0	1	30	99	181	135	26	1	0	0	473
RH	NORMAL (PERCENT)	30	80	79	76	68	68	70	74	77	75	72	79	82	75
	HOUR 00 LST	30	81	82	80	75	76	80	85	87	84	78	82	83	81
	HOUR 06 LST	30	82	83	83	80	81	83	87	90	89	84	85	84	84
	HOUR 12 LST	30	76	74	69	58	57	58	61	64	62	60	71	78	66
	HOUR 18 LST	30	79	78	71	58	56	58	62	67	68	67	77	82	69
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	45	3.4	3.1	4.2	2.2	2.0	1.1	1.7	2.6	2.6	1.9	3.2	4.2	32.2
	THUNDERSTORMS	45	0.1	0.2	1.3	3.2	5.7	7.4	7.6	6.2	4.8	2.0	0.6	0.1	39.2
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	36	5.3	5.3	5.5	5.4	5.2	5.0	4.4	4.4	4.7	4.8	5.8	5.6	5.1
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.0	4.9	5.3	5.2	5.0	4.5	4.0	4.1	4.3	4.6	5.4	5.3	4.8
	MEAN NO. DAYS WITH:														
	CLEAR	36	7.4	7.3	6.3	6.1	6.8	6.7	8.4	8.7	9.1	8.5	5.0	6.0	86.3
PARTLY CLOUDY	36	7.1	6.2	7.1	7.4	8.8	10.7	11.9	11.1	7.3	7.8	5.6	6.3	97.3	
CLOUDY	36	16.5	14.8	17.6	16.4	15.4	12.7	10.7	11.2	13.6	14.7	19.4	18.7	181.7	
PR	MEAN STATION PRESSURE (IN)	31	28.63	28.62	28.56	28.54	28.54	28.54	28.59	28.62	28.62	28.61	28.59	28.63	28.59
	MEAN SEA-LEVEL PRES. (IN)	18	30.10	30.11	30.04	29.95	29.94	29.93	29.97	30.02	30.03	30.04	30.04	30.10	30.02
WINDS	MEAN SPEED (MPH)	47	13.0	12.6	13.2	13.7	12.4	11.4	10.0	9.8	10.9	12.0	13.0	12.8	12.1
	PREVAIL. DIR (TENS OF DEGS)	32	31	31	31	31	18	18	19	18	18	18	30	31	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	45	44	47	51	47	48	43	38	36	45	47	44	51
	DIR. (TENS OF DEGS)		19	32	29	23	31	31	27	36	31	29	29	31	23
	YEAR OF OCCURRENCE		2005	2002	1999	2001	1997	1999	2002	2005	1997	2001	1998	2004	APR 2001
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	52	52	57	62	64	59	58	54	49	55	56	58	64	
DIR. (TENS OF DEGS)		19	31	28	22	21	31	26	35	31	28	18	31	21	
YEAR OF OCCURRENCE		2005	2002	1999	2001	1998	1999	2002	2005	1997	2001	1998	2004	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	0.94	0.75	1.88	3.01	3.53	4.00	4.61	4.33	3.12	2.20	2.01	1.02	31.40
	MAXIMUM MONTHLY (IN)	46	2.53	2.21	3.58	7.30	8.41	12.51	12.33	9.52	10.50	6.08	5.90	2.83	12.51
	YEAR OF OCCURRENCE		1967	1971	1990	2001	1982	2000	1978	1979	1986	1970	1991	1982	JUN 2000
	MINIMUM MONTHLY (IN)	46	0.07	0.04	0.32	0.94	1.17	0.94	1.02	0.34	0.38	0.27	0.06	0.22	0.04
	YEAR OF OCCURRENCE		1961	1964	1994	2000	1963	1985	1975	2003	1975	1965	1967	1967	FEB 1964
	MAXIMUM IN 24 HOURS (IN)	46	1.42	1.05	2.04	3.97	5.23	4.80	7.47	3.89	6.01	2.81	2.64	1.35	7.47
	YEAR OF OCCURRENCE		1967	1984	1966	1990	2000	2000	1981	1991	1978	1966	1991	1982	JUL 1981
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	9.6	7.8	10.7	11.7	11.6	11.4	10.7	10.1	9.8	8.6	9.6	9.3	120.9	
PRECIPITATION ≥ 1.00	30	*	0.0	0.2	0.5	0.8	0.8	1.3	1.0	0.8	0.3	0.4	*	6.1	
SNOWFALL	NORMAL (IN)	30	11.9	7.8	9.0	4.3	0.*	0.0	0.0	0.0	0.*	1.0	7.1	11.6	52.7
	MAXIMUM MONTHLY (IN)	42	30.2	19.1	25.2	16.4	0.3	T	T	T	0.8	5.4	22.5	35.3	35.3
	YEAR OF OCCURRENCE		1996	1962	1985	1983	1967	1993	1994	1989	1961	1979	1985	2000	DEC 2000
	MAXIMUM IN 24 HOURS (IN)	42	15.4	9.3	19.8	13.7	0.3	T	T	T	0.8	5.4	9.2	9.0	19.8
	YEAR OF OCCURRENCE		1982	1983	2005	1988	1967	1993	1994	1989	1961	1979	1991	1985	MAR 2005
	MAXIMUM SNOW DEPTH (IN)	53	29	21	20	11	1	0	0	0	0	4	11	20	29
	YEAR OF OCCURRENCE		1982	1979	1951	1988	1954					1979	1983	1969	JAN 1982
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	3.1	2.5	3.0	1.1	0.0	0.0	0.0	0.0	0.0	0.2	2.4	3.3	15.6	