

1997

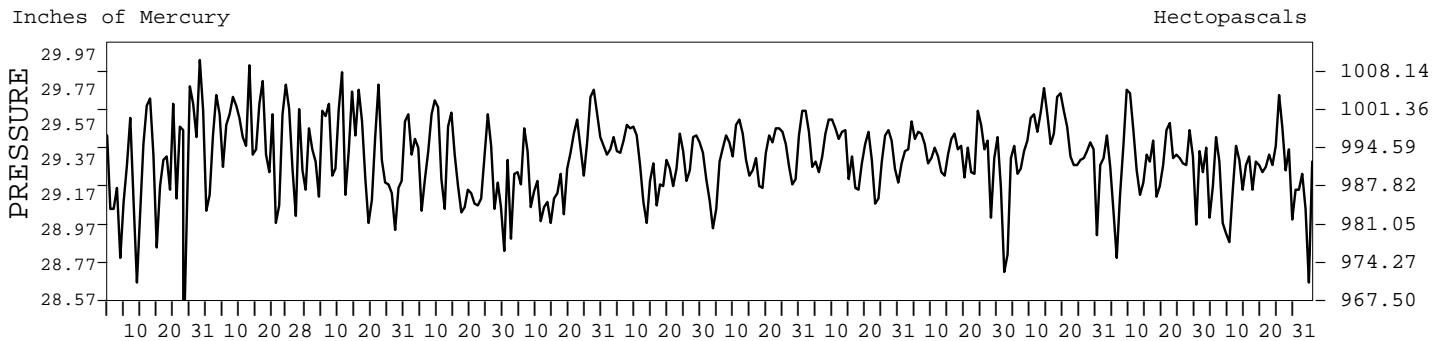
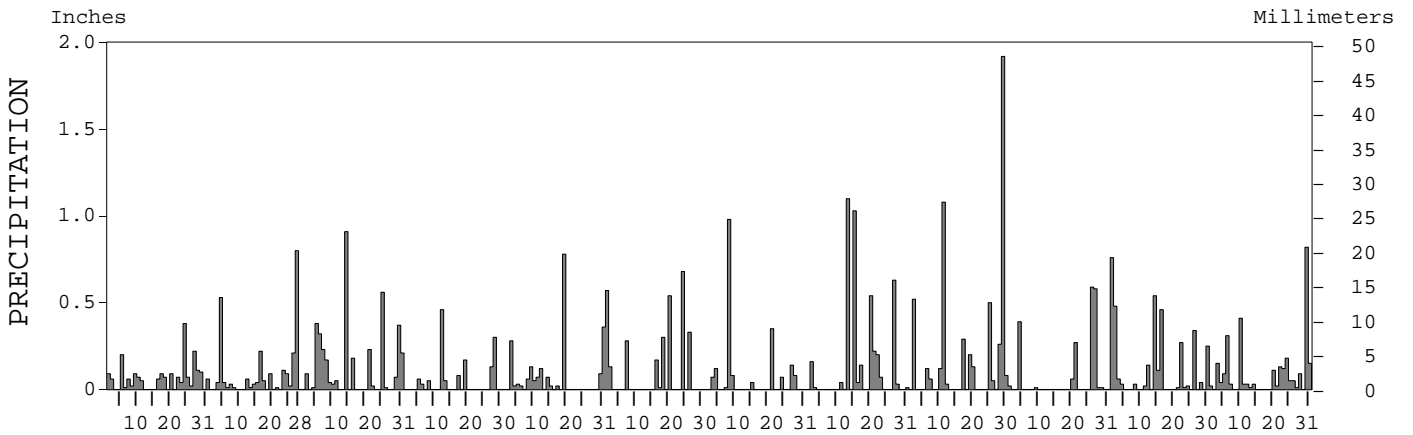
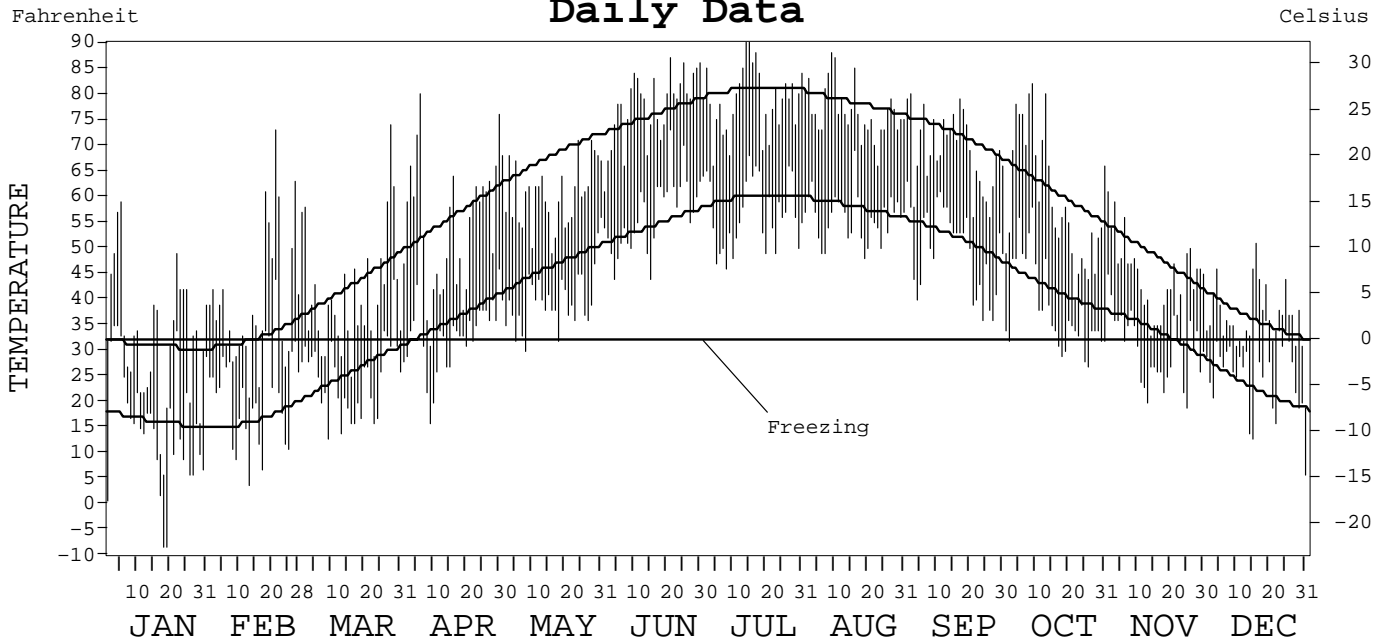
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3660

ROCHESTER,
NEW YORK (ROC)

Daily Data



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NATIONAL CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

James H. ...
ACTING DIRECTOR

NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 1997

ROCHESTER, NY (ROC)

LATITUDE: 43° 07' 00" N LONGITUDE: 77° 40' 36" W ELEVATION (FT): GRND: 547 BARO: 547 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14768

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	32.7	39.5	41.1	54.2	60.7	77.6	78.8	76.6	68.9	59.7	44.3	36.5	55.9	
	HIGHEST DAILY MAXIMUM	59	73	74	80	71	87	90	88	80	82	61	51	90	
	DATE OF OCCURRENCE	05	21	28	06	28+	21	15+	09	02	09	01	16	JUL 15+	
	MEAN DAILY MINIMUM	15.9	21.5	24.6	33.3	40.0	56.5	56.7	55.9	49.7	38.5	30.4	25.8	37.4	
	LOWEST DAILY MINIMUM	-8	4	13	16	30	44	46	48	36	27	19	6	-8	
	DATE OF OCCURRENCE	19+	13	9	09	8	15+	8	19	27+	26	25	31	JAN 19+	
	AVERAGE DRY BULB	24.3	30.5	32.9	43.8	50.4	67.1	67.8	66.3	59.3	49.1	37.4	31.2	46.7	
	MEAN WET BULB		27.7	29.8	37.9	44.8	61.2	62.8	61.2	55.7	45.2	34.9	29.5		
	MEAN DEW POINT		22.0	24.2	29.7	38.0	57.0	59.1	58.0	52.9	41.1	30.9	25.4		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	0	2	0	0	0	0	0	0	2
	MAXIMUM ≤ 32°	14	10	5	1	0	0	0	0	0	0	1	7	38	
	MINIMUM ≤ 32°	27	25	28	11	3	0	0	0	0	8	19	27	148	
MINIMUM ≤ 0°	2	0	0	0	0	0	0	0	0	0	0	0	2		
H/C	HEATING DEGREE DAYS	1255	960	989	628	448	114	32	29	181	492	822	1041	6922	
	COOLING DEGREE DAYS	0	0	0	1	0	45	126	75	15	8	0	0	339	
RH	MEAN (PERCENT)	74	72	72	61	65	73	74	78	81	76	79	79	74	
	HOUR 01 LST	76	73	78	71	74	87	89	91	91	88	82	82	82	
	HOUR 07 LST	79	80	82	73	72	84	88	90	92	89	83	84	83	
	HOUR 13 LST	67	63	62	48	52	56	57	60	66	56	68	71	60	
	HOUR 19 LST	73	71	70	56	56	62	62	71	80	76	81	77	70	
S	PERCENT POSSIBLE SUNSHINE	25		34											
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	1	0	0	1	0	1	3	1	2	1	10	
	THUNDERSTORMS	0	0	0	0	3	4	2	4	2	2	0	0	17	
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.)		29.51	29.40	29.34	29.31	29.37	29.39	29.40	29.37	29.47	29.35	29.27		
	MEAN SEA-LEVEL PRESS. (IN.)		30.13	30.02	29.95	29.91	29.96	29.98	29.99	29.97	30.07	29.95	29.89		
WINDS	RESULTANT SPEED (MPH)		8.2	5.4	5.5	7.0	3.2	2.8	2.4	3.9	3.5	3.0	5.3		
	RES. DIR. (TENS OF DEGS.)		25	27	28	27	25	24	25	25	25	26	26		
	MEAN SPEED (MPH)	13.9	11.9	11.7	10.4	11.1	7.3	7.7	6.7	8.2	7.5	9.3	9.8	9.6	
	PREVAIL. DIR. (TENS OF DEGS.)	24	25	26	25	25	22	22	22	22	23	26	25	25	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	41	59	36	41	41	31	32	28	36	38	38	26	59	
	DIR. (TENS OF DEGS.)	25	25	19	25	25	26	24	26	26	25	27	24	25	
	DATE OF OCCURRENCE	25	22	14	07	01	25	03	16	29	27	26	26+	FEB 22	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	49	75	48	62	54	41	41	34	43	48	47	37	75	
DIR. (TENS OF DEGS.)	24	24	18	25	24	25	24	26	25	25	27	24	24		
DATE OF OCCURRENCE	25	27	14	07	03	25	03	16	29	27	26	15	FEB 27		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.03	2.40	3.88	1.33	2.12	3.01	1.94	4.22	5.36	1.94	3.57	2.88	34.68	
	GREATEST 24-HOUR (IN.)	0.38	1.01	0.91	0.48	0.78	0.68	1.06	1.10	2.16	1.16	1.17	0.82	2.16	
	DATE OF OCCURRENCE	24	26-27	14-15	12-13	19	24	08-09	13	28-29	26-27	01-02	30	SEP 28-29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	22	19	18	9	15	9	10	14	14	9	17	22	178	
PRECIPITATION ≥ 0.10	5	5	10	4	5	8	4	8	10	4	9	9	81		
PRECIPITATION ≥ 1.00	0	0	0	0	0	0	0	2	2	0	0	0	4		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	24.8	13.3	26.4	1.3	T	0.0	0.0	0.0	0.0	0.1	21.6	26.4	113.9	
	GREATEST 24-HOUR (IN.)	3.7	4.2	6.4	0.7	T	0.0	0.0	0.0	0.0	0.1	10.6	8.5	10.6	
	DATE OF OCCURRENCE	18	16	16	08	09					27	14	30	NOV 14	
	MAXIMUM SNOW DEPTH (IN.)	6	5	8	1	0	0	0	0	0	0	8	8	8	
	DATE OF OCCURRENCE	01	17	09	01							17+	30	DEC 30	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	11	5	7	0	0	0	0	0	0	0	5	4	32		

NORMALS, MEANS, AND EXTREMES

ROCHESTER, NY (ROC)

LATITUDE: 43° 07' 00" N LONGITUDE: 77° 40' 36" W ELEVATION (FT): GRND: 547 BARO: 547 TIME ZONE: EASTERN (UTC+ 5) WBAN: 14768

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	30.9	32.5	42.7	55.9	67.8	75.8	80.7	78.1	71.8	60.5	47.8	35.8	56.7
	MEAN DAILY MAXIMUM	50	31.3	32.9	41.7	55.8	67.6	77.6	82.0	79.9	72.0	61.2	47.7	36.0	57.1
	HIGHEST DAILY MAXIMUM	57	74	73	84	93	94	100	98	99	99	91	81	72	100
	YEAR OF OCCURRENCE		1950	1997	1945	1990	1987	1953	1993	1948	1953	1951	1950	1982	JUN 1953
	MEAN OF EXTREME MAXS.	50	53.0	53.5	68.3	78.9	85.8	91.0	92.9	91.0	88.0	80.2	69.0	56.5	75.7
	NORMAL DAILY MINIMUM	30	16.3	16.6	25.7	35.9	46.3	54.3	59.6	57.8	51.7	41.6	33.3	22.4	38.5
	MEAN DAILY MINIMUM	50	16.9	17.2	25.1	36.1	46.0	55.6	60.4	58.8	51.4	41.6	32.9	22.8	38.7
	LOWEST DAILY MINIMUM	57	-17	-19	-6	13	26	35	42	36	28	20	5	-16	-19
	YEAR OF OCCURRENCE		1994	1979	1980	1982	1979	1949	1963	1965	1947	1972	1971	1942	FEB 1979
	MEAN OF EXTREME MINS.	50	-2.5	-1.9	6.5	22.0	32.3	41.9	48.5	46.4	37.0	28.0	17.9	2.9	23.2
	NORMAL DRY BULB	30	23.6	24.6	34.3	45.9	57.1	65.1	70.2	68.0	61.7	51.1	40.5	29.1	47.6
	MEAN DRY BULB	50	24.1	25.1	33.4	46.0	56.9	66.6	71.2	69.3	61.8	51.4	40.3	29.3	47.9
	MEAN WET BULB	13	23.4	23.4	30.3	41.0	50.7	59.9	64.6	63.2	56.4	46.1	36.2	27.6	43.6
	MEAN DEW POINT	13	18.3	18.1	24.1	34.5	44.8	55.1	60.5	59.7	52.8	41.6	31.5	23.0	38.7
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	0.4	1.6	4.3	2.0	0.7	0.0	0.0	0.0	9.1	
MAXIMUM ≤ 32°	30	17.0	14.5	6.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	11.5	51.0	
MINIMUM ≤ 32°	30	28.9	25.4	23.0	11.1	1.2	0.0	0.0	0.0	0.1	4.1	15.1	26.0	134.9	
MINIMUM ≤ 0°	30	3.0	2.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.4	
H/C	NORMAL HEATING DEG. DAYS	30	1283	1131	952	573	270	62	10	33	137	435	735	1113	6734
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	25	65	171	126	38	0	0	0	425
RH	NORMAL (PERCENT)	30	74	74	71	67	67	69	70	74	77	74	76	78	73
	HOUR 01 LST	30	76	78	76	76	78	82	83	87	87	82	80	79	80
	HOUR 07 LST	30	77	79	78	77	77	80	82	87	88	84	82	81	81
	HOUR 13 LST	30	69	68	62	55	54	55	54	58	60	60	67	72	61
	HOUR 19 LST	30	74	73	69	62	60	60	60	67	74	74	76	78	69
S	PERCENT POSSIBLE SUNSHINE	57	35	41	49	53	59	66	69	66	59	49	31	31	51
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	57	0.9	0.6	1.5	1.0	1.1	1.1	0.6	0.8	1.3	1.7	0.8	1.0	12.4
	THUNDERSTORMS	57	0.1	0.1	0.9	2.0	3.6	5.1	6.2	5.7	3.1	0.9	0.4	0.2	28.3
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	56	6.6	6.3	5.8	5.4	5.3	4.9	4.6	4.7	4.9	5.3	6.4	6.6	5.6
	MIDNIGHT-MIDNIGHT (OKTAS)	32	6.5	6.2	5.7	5.3	5.0	4.7	4.3	4.5	4.7	5.2	6.3	6.5	5.4
	MEAN NO. DAYS WITH:														
	CLEAR	56	2.0	2.4	4.6	6.1	6.0	7.2	7.8	7.7	7.0	6.4	2.1	2.0	61.3
PARTLY CLOUDY	56	6.6	6.7	8.1	7.7	9.7	10.8	12.5	11.7	10.5	8.4	6.1	5.6	104.4	
CLOUDY	56	22.4	19.2	18.3	16.3	15.4	12.1	10.7	11.7	12.6	16.3	21.8	23.4	200.2	
PR	MEAN STATION PRESSURE (IN)	24	29.43	29.45	29.42	29.37	29.38	29.38	29.40	29.44	29.47	29.47	29.45	29.44	29.43
	MEAN SEA-LEVEL PRES. (IN)	13	30.06	30.08	30.06	29.98	29.98	29.97	29.98	30.04	30.06	30.08	30.07	30.08	30.04
WINDS	MEAN SPEED (MPH)	39	12.1	11.6	11.7	11.5	9.9	9.2	8.6	8.3	8.7	9.2	10.9	11.3	10.2
	PREVAIL. DIR (TENS OF DEGS)	23	25	25	25	25	25	24	23	23	23	25	25	25	25
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	1	41	59	36	41	41	31	32	28	36	38	38	26	59
	DIR. (TENS OF DEGS)		25	25	19	25	25	26	24	26	26	25	27	24	25
	YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	FEB 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	1	49	75	48	62	54	41	41	34	43	48	47	37	75	
DIR. (TENS OF DEGS)		24	24	18	25	24	25	24	26	25	25	27	24	24	
YEAR OF OCCURRENCE		1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	1997	FEB 1997	
PRECIPITATION	NORMAL (IN)	30	2.08	2.10	2.28	2.61	2.72	3.00	2.71	3.40	2.97	2.44	2.92	2.73	31.96
	MAXIMUM MONTHLY (IN)	57	5.79	5.07	5.42	4.90	6.62	6.77	9.70	6.00	6.30	7.85	6.99	5.05	9.70
	YEAR OF OCCURRENCE		1978	1950	1942	1944	1974	1980	1947	1984	1977	1955	1985	1944	JUL 1947
	MINIMUM MONTHLY (IN)	57	0.72	0.66	0.47	1.18	0.36	0.22	0.61	0.76	0.28	0.23	0.44	0.62	0.22
	YEAR OF OCCURRENCE		1988	1987	1958	1995	1977	1963	1994	1951	1960	1963	1976	1958	JUN 1963
	MAXIMUM IN 24 HOURS (IN)	57	1.64	2.43	2.21	2.22	3.85	2.86	3.25	2.39	3.54	3.13	3.13	1.60	3.85
	YEAR OF OCCURRENCE		1966	1950	1942	1991	1974	1950	1987	1968	1979	1995	1945	1978	MAY 1974
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	16.6	15.5	14.0	13.0	11.4	10.8	9.8	10.9	11.1	12.5	15.4	18.1	159.1	
PRECIPITATION ≥ 1.00	30	0.1	0.2	0.1	0.2	0.3	0.5	0.5	0.8	0.7	0.2	0.3	0.2	4.1	
SNOWFALL	NORMAL (IN)	30	25.1	22.6	12.3	4.6	0.4	0.0	0.0	0.0	0.1	6.3	21.6	93.0	
	MAXIMUM MONTHLY (IN)	57	60.4	64.8	40.3	20.2	10.9	0.0	T	T	T	2.6	24.9	46.1	64.8
	YEAR OF OCCURRENCE		1978	1958	1959	1979	1989		1996	1965	1994	1993	1996	1981	FEB 1958
	MAXIMUM IN 24 HOURS (IN)	57	23.0	22.8	22.2	10.4	10.8	0.0	T	T	T	2.6	14.1	19.1	23.0
	YEAR OF OCCURRENCE		1996	1978	1993	1990	1989		1990	1965	1994	1993	1995	1978	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	49	32	34	29	10	4	0	0	0	0	1	8	40	40
	YEAR OF OCCURRENCE		1978	1966	1960	1975	1989					1957	1972	1959	DEC 1959
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	7.7	7.2	3.6	1.2	0.1	0.0	0.0	0.0	0.0	0.0	2.0	6.9	28.7	

PRECIPITATION (inches) 1997 ROCHESTER, NY (ROC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	1.91	0.74	2.38	1.33	2.84	2.84	1.42	5.95	1.86	2.89	4.28	3.31	31.75
1969	2.46	0.91	1.16	3.48	2.25	4.69	1.83	1.82	1.77	1.69	3.42	3.66	29.14
1970	1.80	2.28	1.49	2.58	3.03	3.74	4.91	3.88	2.49	3.96	3.50	4.12	37.78
1971	2.66	4.21	3.43	1.28	1.71	3.52	5.59	3.18	1.79	1.34	1.96	3.49	34.16
1972	1.50	3.96	2.19	2.68	3.32	6.56	1.43	3.14	3.84	2.25	4.83	2.58	38.28
1973	1.28	1.70	2.92	3.21	2.68	2.84	1.14	1.94	1.41	2.67	3.82	3.62	29.23
1974	1.75	2.06	3.61	2.60	6.62	2.59	2.82	3.64	3.48	1.34	3.23	2.86	36.60
1975	1.83	2.82	2.74	1.43	2.85	5.35	1.18	2.31	3.15	1.83	1.35	3.76	30.60
1976	2.33	1.67	3.54	3.81	2.63	3.37	5.15	3.04	2.13	4.73	0.44	1.48	34.32
1977	1.49	0.97	2.18	2.49	0.36	1.33	3.26	5.65	6.30	2.64	3.78	4.65	35.10
1978	5.79	2.40	1.48	2.25	2.03	1.30	2.17	2.66	3.63	2.56	1.14	4.35	31.76
1979	4.18	2.40	1.76	3.78	3.14	1.85	3.16	2.05	5.32	2.60	1.80	2.86	34.90
1980	1.11	1.16	3.83	2.35	1.49	6.77	1.90	3.44	3.57	3.73	2.52	2.45	34.32
1981	1.24	3.13	1.04	1.95	2.27	2.70	4.60	4.44	5.37	3.29	2.18	2.78	34.99
1982	4.16	1.01	1.73	1.63	1.77	3.92	3.13	3.00	3.57	1.79	3.95	2.17	31.83
1983	1.43	1.23	2.45	3.50	3.44	2.40	1.13	5.43	1.56	3.26	4.91	4.47	35.21
1984	1.62	2.97	2.08	3.05	5.47	1.67	1.90	6.00	3.34	0.76	1.47	3.31	33.64
1985	2.49	1.78	3.47	1.30	2.08	2.63	1.86	1.11	2.49	2.34	6.99	1.46	30.00
1986	1.63	2.46	1.90	3.80	1.64	4.27	3.13	3.29	5.11	3.56	1.93	3.56	36.28
1987	1.89	0.66	1.98	3.68	1.19	3.94	5.85	3.92	4.60	1.65	2.74	1.98	34.08
1988	0.72	2.18	1.62	2.32	1.73	1.10	4.30	3.81	1.69	2.34	1.68	1.11	24.60
1989	1.18	1.55	3.69	1.62	5.99	5.65	0.98	2.46	2.82	3.13	2.01	1.58	32.66
1990	1.61	3.93	1.56	3.58	5.76	2.88	3.05	3.59	3.36	4.37	2.27	4.18	40.14
1991	1.69	1.16	4.70	4.07	2.43	1.19	2.37	1.80	2.86	1.65	2.39	2.92	29.23
1992	1.46	1.87	3.53	3.43	2.83	1.98	6.03	4.45	3.02	1.78	2.90	2.98	36.26
1993	2.32	1.52	2.44	3.07	1.24	2.76	1.67	1.67	4.37	3.21	3.27	1.60	29.14
1994	2.68	1.63	1.70	4.08	2.56	2.43	0.61	4.27	2.68	1.34	3.24	2.32	29.54
1995	2.46	1.58	1.15	1.18	1.75	2.07	3.85	3.05	1.50	5.70	4.21	1.50	30.00
1996	3.18	1.72	2.07	4.84	3.51	6.65	2.18	3.33	5.09	5.40	4.12	2.97	45.06
1997	2.03	2.40	3.88	1.33	2.12	3.01	1.94	4.22	5.36	1.94	3.57	2.88	34.68
POR= 169 YRS	2.45	2.34	2.61	2.61	2.89	3.00	2.99	2.91	2.73	2.72	2.72	2.50	32.47

WBAN : 14768

AVERAGE TEMPERATURE (°F) 1997 ROCHESTER, NY (ROC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1968	19.8	20.8	36.0	49.5	53.2	64.7	70.7	69.4	64.8	53.8	41.2	27.7	47.6
1969	25.2	26.0	32.0	47.6	55.6	65.0	70.7	72.0	63.6	50.9	40.1	25.1	47.8
1970	18.0	23.7	30.8	48.4	59.5	68.1	72.2	70.1	63.0	53.9	41.4	25.5	47.9
1971	19.5	26.9	28.5	41.1	54.0	67.5	68.8	68.8	67.4	59.0	38.4	30.9	47.6
1972	26.0	23.4	30.3	42.2	60.4	65.2	73.0	69.8	64.3	47.6	37.0	33.1	47.7
1973	28.7	22.2	42.5	48.0	56.1	70.7	73.4	73.0	62.5	55.0	43.0	31.2	50.5
1974	27.1	22.5	33.0	49.4	53.9	65.7	71.3	70.6	59.2	47.6	39.5	31.4	47.6
1975	29.5	28.4	31.6	39.3	63.2	67.1	73.0	70.0	58.4	53.1	47.2	27.8	49.1
1976	19.8	33.3	37.2	48.6	55.4	69.8	69.2	68.4	60.9	47.5	35.4	23.6	47.4
1977	15.5	25.4	39.8	47.9	60.7	64.8	72.9	68.7	62.7	49.4	43.6	28.4	48.3
1978	22.9	16.2	29.7	43.6	60.2	67.4	72.6	71.6	62.4	51.0	41.0	30.0	47.4
1979	21.5	13.7	38.6	44.0	56.4	66.2	72.3	67.1	61.3	50.3	43.0	32.3	47.2
1980	24.0	19.7	32.4	47.8	60.0	63.1	72.9	74.3	63.7	48.8	38.8	24.7	47.5
1981	15.7	32.3	34.5	48.0	57.2	67.3	71.9	69.4	59.8	47.3	39.9	28.7	47.7
1982	16.1	23.0	33.5	43.2	60.9	63.6	72.0	66.1	62.8	52.7	43.4	37.4	47.9
1983	27.4	29.1	37.2	43.9	53.8	66.7	73.8	70.7	63.9	52.9	40.7	25.1	48.8
1984	20.4	33.2	26.5	47.5	52.6	66.8	69.2	72.0	60.6	54.9	40.7	35.9	48.4
1985	21.9	25.6	36.7	49.6	58.6	61.7	68.8	68.7	63.8	51.0	41.4	25.0	47.7
1986	25.0	24.5	37.0	47.9	59.8	63.3	69.8	65.7	59.8	49.9	36.9	31.7	47.6
1987	25.3	23.6	37.1	49.7	59.9	67.9	72.7	67.3	61.6	47.1	40.6	32.6	48.8
1988	25.0	23.7	34.7	45.0	58.7	64.2	73.7	71.1	60.1	45.8	42.6	29.4	47.8
1989	30.3	22.5	32.3	42.1	56.3	67.4	72.8	68.5	61.7	52.6	38.1	17.1	46.8
1990	33.6	29.3	37.3	48.8	54.4	67.2	70.7	69.9	60.7	52.1	42.4	33.8	50.0
1991	25.1	30.5	37.0	50.0	62.8	68.3	72.3	70.3	60.5	52.1	39.0	30.7	49.9
1992	26.2	27.2	30.2	44.1	57.1	63.5	66.6	66.3	60.9	46.4	38.9	30.2	46.5
1993	27.5	18.7	30.0	46.9	56.6	65.5	72.4	71.4	59.0	48.0	39.0	28.4	47.0
1994	14.9	21.1	32.0	48.0	54.2	67.8	73.5	69.2	62.4	52.4	45.8	34.8	48.0
1995	32.1	23.8	38.5	41.6	57.2	69.5	73.0	73.3	60.4	55.2	35.2	25.3	48.8
1996	23.7	24.6	29.7	43.3	54.6	68.0	68.1	69.3	62.0	51.2	34.3	33.6	46.9
1997	24.3	30.5	32.9	43.8	50.4	67.1	67.8	66.3	59.3	49.1	37.4	31.2	46.7
POR= 126 YRS	24.6	24.6	32.9	45.1	56.8	66.4	71.3	69.3	62.5	51.3	39.8	29.0	47.8

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HEATING DEGREE DAYS (base 65°F) 1997 ROCHESTER, NY (ROC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	15	36	67	369	710	1150	1229	1087	1013	517	302	86	6581
1969-70	18	10	126	437	737	1231	1448	1149	1053	506	209	49	6973
1970-71	3	11	126	349	699	1218	1405	1059	1122	707	342	49	7090
1971-72	17	33	74	194	792	1048	1200	1199	1071	677	161	78	6544
1972-73	7	24	92	534	833	982	1118	1189	690	519	279	17	6284
1973-74	2	14	162	305	653	1040	1167	1187	983	475	352	59	6399
1974-75	1	1	209	535	755	1034	1096	1017	1031	764	139	52	6634
1975-76	4	14	194	365	525	1146	1395	914	858	507	300	35	6257
1976-77	11	27	173	538	879	1279	1524	1103	777	523	204	89	7127
1977-78	9	44	113	477	634	1127	1298	1360	1087	634	220	63	7066
1978-79	5	1	136	428	711	1077	1342	1432	813	626	310	79	6960
1979-80	13	37	155	468	655	1006	1264	1306	1003	510	195	125	6737
1980-81	1	0	108	498	782	1243	1522	908	938	507	260	26	6793
1981-82	6	12	201	546	748	1119	1510	1171	972	648	162	67	7162
1982-83	10	54	113	377	643	847	1161	998	854	627	347	78	6109
1983-84	9	8	121	387	723	1228	1376	917	1187	520	395	50	6921
1984-85	14	7	162	307	724	897	1330	1097	869	471	217	119	6214
1985-86	15	23	121	429	700	1231	1235	1129	864	506	206	100	6559
1986-87	16	62	175	462	840	1026	1223	1153	858	454	234	39	6542
1987-88	7	50	139	547	722	997	1232	1192	933	594	220	126	6759
1988-89	6	40	164	596	664	1095	1070	1184	1009	682	288	33	6831
1989-90	0	33	149	383	801	1478	967	993	853	520	327	46	6550
1990-91	7	6	171	406	669	959	1230	957	862	458	170	29	5924
1991-92	2	1	196	408	776	1057	1195	1088	1069	621	259	89	6761
1992-93	26	46	172	571	774	1071	1158	1289	1077	538	263	66	7051
1993-94	0	10	214	525	775	1127	1550	1221	1015	505	345	56	7343
1994-95	1	16	106	386	568	928	1015	1147	811	694	239	33	5944
1995-96	13	7	162	300	885	1224	1271	1163	1086	647	347	16	7121
1996-97	19	6	140	421	915	968	1255	960	989	628	448	45	6794
1997-	32	29	181	492	822	1041							

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COOLING DEGREE DAYS (base 65°F) 1997 ROCHESTER, NY (ROC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1969	0	0	0	0	18	94	202	233	92	7	0	0	646
1970	0	0	0	16	47	148	235	176	69	13	0	0	704
1971	0	0	0	0	10	133	143	159	155	15	0	0	615
1972	0	0	0	0	24	94	261	179	79	0	0	0	637
1973	0	0	0	15	6	194	267	269	96	4	0	0	851
1974	0	0	0	13	14	88	204	181	40	0	0	0	540
1975	0	0	0	0	89	121	257	178	5	6	0	0	656
1976	0	0	0	24	9	189	150	138	55	1	0	0	566
1977	0	0	3	16	80	88	260	164	50	0	1	0	662
1978	0	0	0	0	77	141	245	212	66	3	0	0	744
1979	0	0	0	1	52	121	244	112	49	18	0	0	597
1980	0	0	0	0	46	73	253	294	76	2	0	0	744
1981	0	0	0	5	23	102	228	156	50	0	0	0	564
1982	0	0	0	3	40	30	232	95	52	3	1	0	456
1983	0	0	0	0	7	136	289	192	96	20	0	0	740
1984	0	0	0	1	14	113	152	233	35	1	0	0	549
1985	0	0	0	15	23	27	139	145	90	0	0	0	439
1986	0	0	1	0	50	53	168	94	28	0	0	0	394
1987	0	0	0	1	82	131	254	127	42	0	0	0	637
1988	0	0	0	0	34	107	284	232	29	7	0	0	693
1989	0	0	0	0	26	111	248	153	60	3	0	0	601
1990	0	0	3	41	5	122	192	164	45	14	0	0	586
1991	0	0	0	14	108	135	234	175	68	14	0	0	748
1992	0	0	0	1	19	51	84	96	57	0	0	0	308
1993	0	0	0	0	9	86	239	214	42	5	0	0	595
1994	0	0	0	0	16	145	271	152	36	2	1	0	623
1995	0	0	0	0	3	175	266	269	33	5	0	0	751
1996	0	0	0	1	31	115	120	147	58	0	0	0	472
1997	0	0	0	1	0	114	126	75	15	8	0	0	339

SNOWFALL (inches) 1997 ROCHESTER, NY (ROC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1968-69	0.0	0.0	0.0	T	8.6	22.2	25.6	17.8	4.6	1.0	0.0	0.0	79.8
1969-70	0.0	0.0	0.0	T	5.8	42.0	37.9	27.7	4.9	1.3	T	0.0	119.6
1970-71	0.0	0.0	0.0	0.2	3.6	44.2	34.1	29.7	29.7	1.2	0.0	0.0	142.7
1971-72	0.0	0.0	0.0	0.0	11.2	13.8	18.1	35.7	19.0	7.3	0.0	0.0	105.1
1972-73	0.0	0.0	0.0	0.2	16.9	22.7	8.9	18.4	4.4	1.5	T	0.0	73.0
1973-74	0.0	0.0	0.0	0.0	4.2	23.4	14.4	26.6	22.3	8.2	T	0.0	99.1
1974-75	0.0	0.0	0.0	0.3	4.6	26.5	10.8	23.2	10.9	14.9	0.0	0.0	91.2
1975-76	0.0	0.0	0.0	T	1.8	28.3	29.9	8.8	15.2	1.8	0.4	0.0	86.2
1976-77	0.0	0.0	0.0	0.5	6.5	24.5	30.2	15.0	13.0	1.8	0.6	0.0	92.1
1977-78	0.0	0.0	0.0	T	12.7	35.2	60.4	40.7	7.5	4.2	0.2	0.0	160.9
1978-79	0.0	0.0	0.0	T	3.3	30.9	36.8	39.1	8.2	20.2	0.0	0.0	138.5
1979-80	0.0	0.0	0.0	0.2	1.2	12.2	13.1	24.0	21.2	0.3	0.0	0.0	72.2
1980-81	0.0	0.0	0.0	T	8.4	31.8	31.5	9.3	12.0	1.4	0.0	0.0	94.4
1981-82	0.0	0.0	0.0	0.1	2.4	46.1	43.6	14.9	8.9	12.4	0.0	0.0	128.4
1982-83	0.0	0.0	0.0	T	3.0	11.6	10.2	13.6	9.3	12.2	T	0.0	59.9
1983-84	0.0	0.0	0.0	0.0	17.6	19.6	23.4	27.8	29.1	0.5	T	0.0	118.0
1984-85	0.0	0.0	0.0	0.0	1.6	11.6	36.8	26.1	8.4	2.6	0.0	0.0	87.1
1985-86	0.0	0.0	0.0	0.0	7.6	18.3	15.5	17.9	9.3	2.1	T	0.0	70.7
1986-87	0.0	0.0	0.0	0.0	7.4	9.3	29.6	13.0	5.3	2.5	0.0	0.0	67.1
1987-88	0.0	0.0	0.0	T	4.6	19.3	9.8	29.4	5.6	1.1	0.0	0.0	69.8
1988-89	0.0	0.0	0.0	0.1	0.2	10.3	15.0	30.6	15.6	3.9	10.9	0.0	86.6
1989-90	0.0	0.0	0.0	T	6.5	32.8	14.0	31.3	5.4	15.8	T	0.0	105.8
1990-91	T	0.0	0.0	T	4.4	18.2	26.5	16.1	2.0	1.1	0.0	0.0	68.3
1991-92	0.0	0.0	0.0	0.0	13.7	23.9	18.3	12.8	38.1	3.8	0.0	0.0	110.6
1992-93	0.0	0.0	0.0	T	9.5	29.3	22.4	31.2	37.1	2.0	T	0.0	131.5
1993-94	0.0	0.0	T	2.6	9.8	14.0	43.0	35.1	12.1	9.6	0.0	0.0	126.2
1994-95	0.0	0.0	T	0.0	2.8	7.6	12.8	23.6	5.3	4.1	0.0	0.0	56.2
1995-96	0.0	0.0	0.0	T	23.4	20.5	36.9	14.1	28.6	5.3	1.5	0.0	130.3
1996-97	T	0.0	0.0	0.0	24.9	14.0	24.8	13.3	26.4	1.3	T	0.0	104.7
1997-	0.0	0.0	0.0	0.1	21.6	26.4							
POR= 56 YRS	T	T	T	0.2	7.2	19.5	22.7	21.9	14.3	3.6	0.7	0.0	90.1

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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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1997
ROCHESTER,
NEW YORK (ROC)

Rochester is located at the mouth of the Genesee River at about the mid point of the south shore of Lake Ontario. The river flows northward from northwest Pennsylvania and empties into Lake Ontario. The land slopes from a lakeshore elevation of 246 feet to over 1,000 feet some 20 miles south. The airport is located just south of the city.

Lake Ontario plays a major role in the Rochester weather. In the summer its cooling effect inhibits the temperature from rising much above the low to mid 90s. In the winter the modifying temperature effect prevents temperatures from falling below -15 degrees most of the time, although temperatures at locations more than 15 miles inland do drop below -30 degrees.

The lake plays a major role in winter snowfall distribution. Well inland from the lake and toward the airport, the seasonal snowfall is usually less than in the area north of the airport and toward the lakeshore where wide variations occur. This is due to what is called the lake effect. Snowfalls of one to two feet or more in 24 hours are common near the lake in winter due the lake effect alone. The lake rarely freezes over because of its depth. The area is also prone to other heavy snowstorms and blizzards because of its proximity to the paths of low pressure systems coming up the east coast, out of the Ohio Valley, or, to a lesser extent, from the Alberta area. The climate is favorable for winter sports activities with a continuous snow cover likely from December through March.

Moisture in the air from the lake enhances the climatic conditions for fruit growing. Apples, peaches, pears, cantaloupes, plums, cherries, and grapes are grown abundantly in Greater Rochester and the Western Finger Lakes Region.

Precipitation is rather evenly distributed throughout the year. Excessive rains occur infrequently but may be caused by slowly moving thunderstorms, slowly moving or stalled major low pressure systems, or by hurricanes and tropical storms that move inland. Hail occurs occasionally and heavy fog is rare.

The growing season averages 150 to 180 days. The years first frost usually occurs in late September and the last frost typically occurs in mid-May.

STATION LOCATION

ROCHESTER, NEW YORK

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE											AUCI M T S W	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND												
							G	W	E	P	S	T	R	W	8	H			
<u>CITY</u>																			
Reynolds Arcade Bldg. 16 Main East	10/12/70	9/07/71		43°9'	77°37'	510	66	60	60										
Powers Building 16 Main West	9/07/71	2/10/91	300 ft. WSW	43°9'	77°37'	501	b150	c128	c128									b - 108 feet to 10/3/72; 114 feet to 12/5/78; 139 feet to 10/14/81, and 162 feet to 8/14/89. c - 99 feet to 10/11/81; 149 feet to 12/1/86, and 155 feet to 8/14/89. d - 95 feet to 10/11/81 and 146 feet to 8/14/89. Station closed 6/16/83 to 10/9/83.	
Government Building Church & Fitzhugh East	2/10/91	11/08/40	700 ft. NW	43°9'	77°37'	497	f102	g86	g86		h77							f - 90 feet to 3/29/01. g - 81 feet to 9/1/08. h - Installed at 78 feet 3/4/99 and lowered 9/1/08.	
<u>AIRPORT</u>																			
Rochester Airport 4.4 miles SW of main Post Office	5/01/29	11/08/40		43°7'	77°40'		a		b									Second Order Station. a - Installed 2/3/30. b - Installed 2/13/34.	
Hangar #3 Rochester Airport 4.4 miles SW of main Post Office	11/08/40	1/19/54	3.7 mi. SW of City Office	43°7'	77°40'	543	69	c5	c5	Unk	d3		5	d3				First Order Station. Airport and City Office consolidation. d - Installed 11/1/40.	
Hangar #2 Rochester Airport ++ ++ Name changed to Rochester-Monroe County Airport prior to 1969.	1/19/54	1/17/89	300 ft. W	43°7'	77°40'	543 f547	60 g20 k20	i5 m4	i5 m4	e20 n10	4	4	4	NA h4 j5 p5	NA			e - Moved to new location 9/20/55. f - Effective 12/1/62 and 6/14/83. g - Lowered 6/29/63. h - Commissioned on field site 6/29/63. i - Standby after 6/29/63 and removed prior to 12/68. j - Minor move & type change 6/14/83. k - Moved about 180' NW 6/20/83. m - Installed 11/15/84. n - Moved to field 3/27/85. p - Type change 6/6/85.	
Greater Rochester International Airport	1/17/89	Present	0.2 mi. SW	43°8'	77°40'	544	q20	5 u6	4 u4	NA t51	NA	43 r5	NA	q5				q - Not moved 1/17/89. r - Moved to field 6/29/89. t - Installed in Penthouse 7/18/89. u - Minor move 9/22/89. S ASOS Commissioned 07/01/96	

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
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