

1999

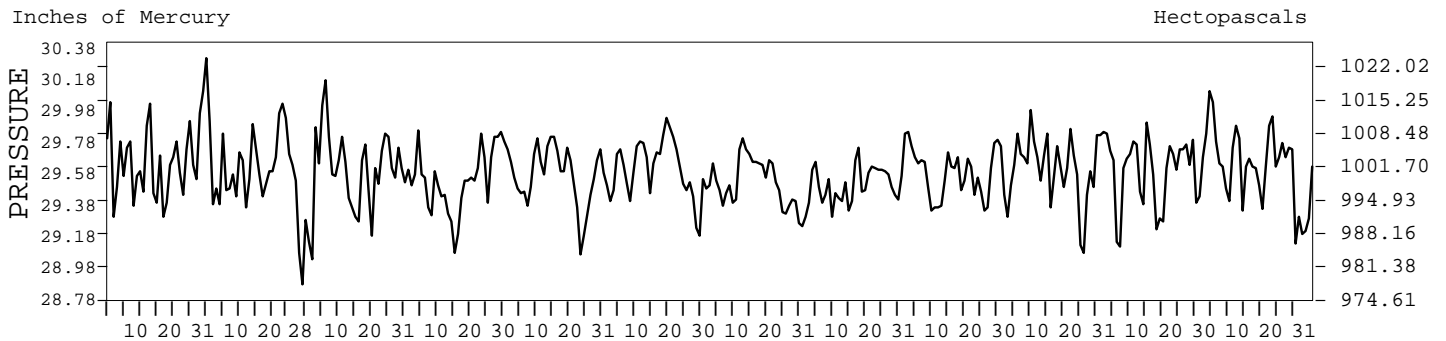
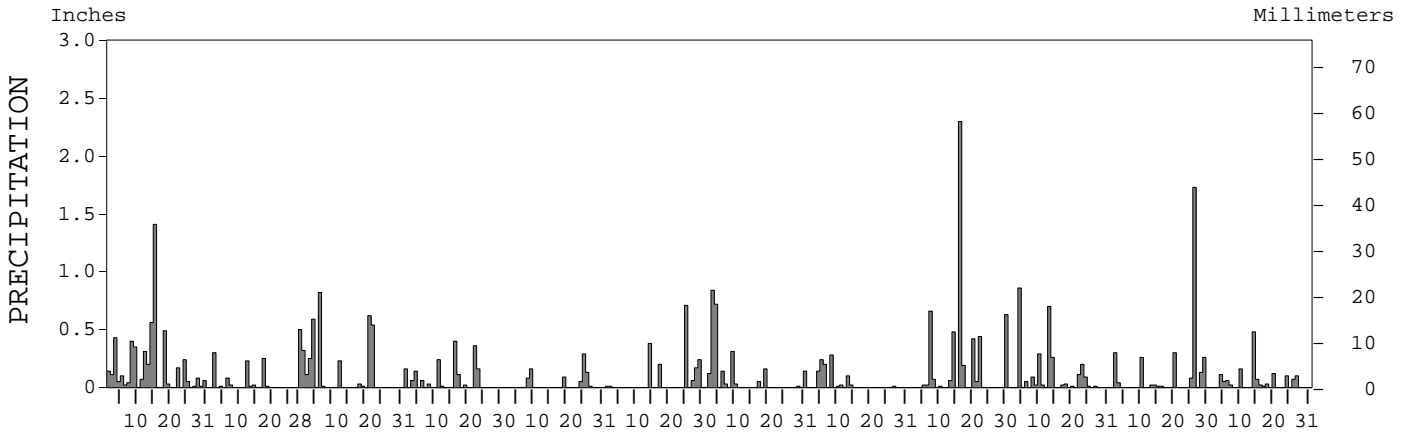
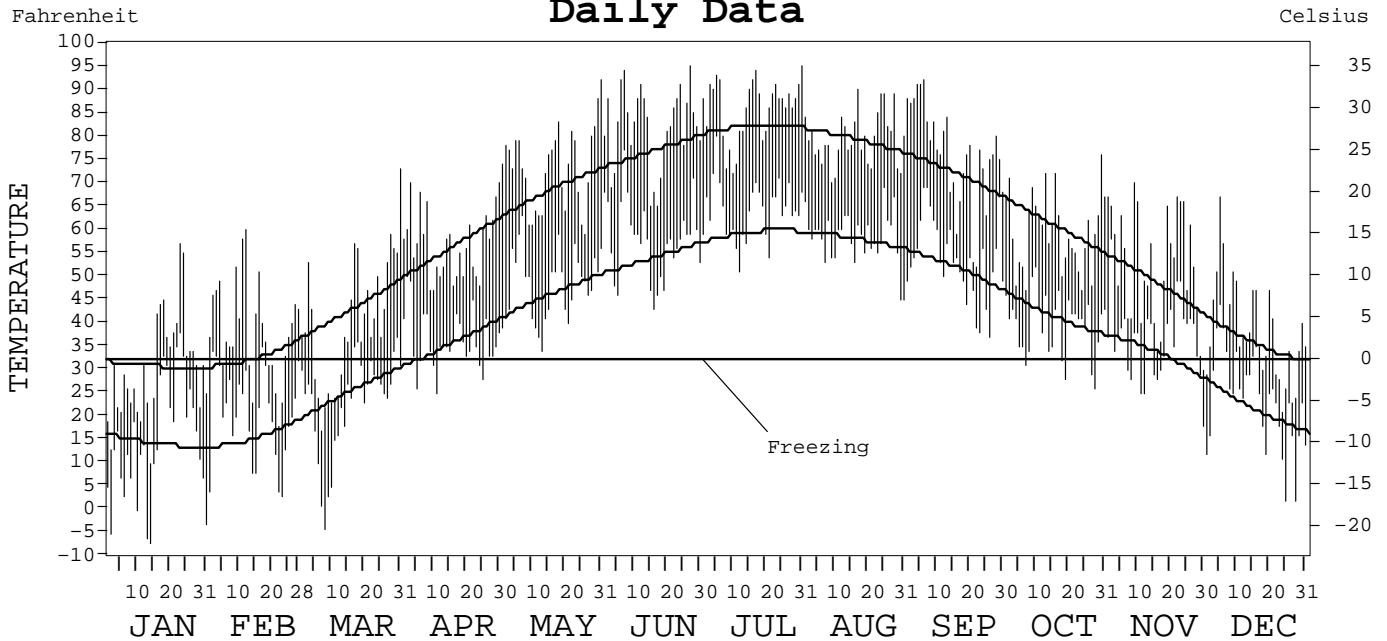
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3679

SYRACUSE, NEW YORK (SYR)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

SYRACUSE, NY (SYR)

LATITUDE: 43° 06' 33" N LONGITUDE: 76° 06' 12" W ELEVATION (FT): GRND: 417 BARO: 417 TIME ZONE: EASTERN (UTC + 5) WBAN: 14771

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.4	38.4	40.2	56.9	73.2	81.9	85.9	79.5	76.0	59.5	52.3	38.3	59.4	
	HIGHEST DAILY MAXIMUM	57	60	73	70	92	95	95	90	92	76	70	67	95	
	DATE OF OCCURRENCE	23	12	31	30+	31	27	31	17	06	30	09	05	JUL 31	
	MEAN DAILY MINIMUM	14.6	20.7	22.8	36.1	48.1	57.7	64.0	58.3	53.5	39.5	36.3	23.5	39.6	
	LOWEST DAILY MINIMUM	-7	3	-4	25	34	43	51	45	37	26	18	2	-7	
	DATE OF OCCURRENCE	14	23	8	11	13	16	12	31+	26	28	30	28+	JAN 14	
	AVERAGE DRY BULB	22.5	29.6	31.5	46.5	60.7	69.8	75.0	68.9	64.8	49.5	44.3	30.9	49.5	
	MEAN WET BULB	21.3	26.2	27.5	40.6	53.2	61.8	66.9	61.5	59.0	45.4		28.8	28.8	
	MEAN DEW POINT	16.2	18.2	19.8	31.5	45.5	55.7	62.0	56.6	55.0	40.0		24.1	24.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	5	10	1	3	0	0	0	0	20
	MAXIMUM ≤ 32°	19	8	9	0	0	0	0	0	0	0	1	8	45	
	MINIMUM ≤ 32°	27	25	27	6	0	0	0	0	0	5	9	24	123	
MINIMUM ≤ 0°	5	0	1	0	0	0	0	0	0	0	0	0	6		
H/C	HEATING DEGREE DAYS	1310	986	1032	545	161	41	0	14	96	473	613	1049	6320	
	COOLING DEGREE DAYS	0	0	0	0	34	190	315	141	99	0	0	0	779	
RH	MEAN (PERCENT)	75	64	65	59	60	63	66	68	74	71	71	76	68	
	HOUR 01 LST	76	67	73	68	71	75	78	80	85	78	76	77	75	
	HOUR 07 LST	77	72	74	70	71	70	76	80	87	81	77	80	76	
	HOUR 13 LST	72	55	52	46	45	49	51	51	57	57	62	69	56	
	HOUR 19 LST	73	64	62	51	49	54	58	63	72	70	73	77	64	
S	PERCENT POSSIBLE SUNSHINE	24	52	51	56	66	59	61	49	53	50	31	33	49	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	0	0	0	0	0	0	0	1	0	0	0	0	1	
	THUNDERSTORMS	0	1	0	1	0	1	8	2	0	1	0	0	14	
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.)	29.68	29.62	29.57	29.54	29.58	29.61	29.52	29.54	29.56	29.65	29.61	29.61	29.59	
	MEAN SEA-LEVEL PRESS. (IN.)	30.13	30.06	30.02	29.97	30.01	30.04	29.94	29.96		30.08		30.06		
WINDS	RESULTANT SPEED (MPH)	2.8	2.1	6.3	4.0	2.2	2.6	2.6	1.5	1.3	3.6		3.8		
	RES. DIR. (TENS OF DEGS.)	24	32	29	31	30	24	26	30	22	24		25		
	MEAN SPEED (MPH)	10.2	8.5	10.3	8.6	7.9	7.8	8.0	7.0	7.6	8.7	10.8	9.1	8.7	
	PREVAIL. DIR. (TENS OF DEGS.)	25	08	26	25	08	27	26	09	08	27	25	26	25	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	44	31	37	36	33	30	54	24	32	29	38	37	54	
	DIR. (TENS OF DEGS.)	25	27	25	27	25	26	28	30	27	31	13	26	28	
	DATE OF OCCURRENCE	18	04	18	08	08	02	03	08	30	14	02	26	JUL 03	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	59	38	48	45	40	36	66	32	41	39	51	44	66	
DIR. (TENS OF DEGS.)	27	28	26	27	25	28	28	31	25	34	12	30	28		
DATE OF OCCURRENCE	18	04	18	08	08	14	03	08	30	14	02	11	JUL 03		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	5.33	1.43	3.53	1.75	0.81	1.78	2.55	1.02	5.35	2.77	3.16	1.40	30.88	
	GREATEST 24-HOUR (IN.)	1.88	0.50	1.09	0.52	0.40	0.71	1.56	0.38	2.49	0.96	1.77	0.55	2.49	
	DATE OF OCCURRENCE	14-15	28	21-22	22-23	25-26	25	03-04	04-05	16-17	13-14	25-26	14-15	SEP 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	23	10	11	12	7	8	11	9	13	16	12	14	146	
PRECIPITATION ≥ 0.10	13	4	8	7	3	5	7	5	7	6	6	6	77		
PRECIPITATION ≥ 1.00	1	0	0	0	0	0	0	0	1	0	1	0	3		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	50.7	5.7	28.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	15.7	104.3	
	GREATEST 24-HOUR (IN.)	9.0	2.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.6	9.0	
	DATE OF OCCURRENCE	14-15	12-13	06-07								29	26-27	JAN 14-15	
	MAXIMUM SNOW DEPTH (IN.)	16	2	6	0	0	0	0	0	0	0	2	7	16	
	DATE OF OCCURRENCE	16+	14+	13+								30	28+	JAN 16+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	13	2	7	0	0	0	0	0	0	0	1	6	29		

NORMALS, MEANS, AND EXTREMES

SYRACUSE, NY (SYR)

LATITUDE: 43° 06' 33" N LONGITUDE: 76° 06' 12" W ELEVATION (FT): GRND: 417 BARO: 417 TIME ZONE: EASTERN (UTC + 5) WBAN: 14771

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	30.6	32.5	42.7	56.0	68.3	76.7	81.7	79.0	71.6	60.3	48.0	35.4	56.9	
	MEAN DAILY MAXIMUM	50	31.0	33.4	42.0	56.5	68.3	77.5	81.9	79.7	72.0	60.8	48.0	36.0	57.3	
	HIGHEST DAILY MAXIMUM	49	70	69	87	92	96	98	97	97	97	87	81	70	98	
	YEAR OF OCCURRENCE		1967	1981	1986	1990	1977	1953	1990	1987	1953	1963	1950	1998		JUN 1953
	MEAN OF EXTREME MAXS.	54	53.5	53.3	67.8	78.6	85.8	91.0	92.4	90.9	87.4	79.1	67.5	57.7	75.4	
	NORMAL DAILY MINIMUM	30	14.2	15.4	25.1	35.5	46.0	53.8	59.0	57.7	51.4	41.1	33.0	21.1	37.8	
	MEAN DAILY MINIMUM	50	14.9	16.6	24.9	36.2	46.1	55.3	60.5	58.8	51.6	41.2	33.1	21.9	38.4	
	LOWEST DAILY MINIMUM	49	-26	-26	-16	9	25	35	45	40	28	19	5	-22	-26	
	YEAR OF OCCURRENCE		1966	1979	1950	1972	1966	1966	1976	1965	1991	1976	1976	1980		FEB 1979
	MEAN OF EXTREME MINS.	54	-8.2	-5.9	4.6	22.3	32.7	41.9	49.4	46.5	36.4	26.8	16.7	-1.0	21.9	
	NORMAL DRY BULB	30	22.4	24.0	33.9	45.7	57.1	65.3	70.4	68.4	61.5	50.7	40.5	28.3	47.4	
	MEAN DRY BULB	54	23.2	24.7	33.5	46.2	57.3	66.3	71.2	69.4	61.9	51.2	39.8	28.6	47.8	
	MEAN WET BULB	50	21.4	23.1	30.5	40.9	50.9	59.8	64.3	63.1	56.7	46.7	37.4	26.8	43.5	
	MEAN DEW POINT	50	15.8	17.3	24.4	34.0	45.0	55.2	60.0	59.3	53.1	42.2	32.7	22.1	38.4	
	NORMAL NO. DAYS WITH:															
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.5	1.4	3.7	1.6	0.4	0.0	0.0	0.0	7.6		
MAXIMUM ≤ 32°	30	17.0	14.4	5.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.1	51.0		
MINIMUM ≤ 32°	30	28.8	25.2	23.7	11.8	1.0	0.0	0.0	0.0	0.2	4.8	14.8	26.6	136.9		
MINIMUM ≤ 0°	30	4.4	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	9.7		
H/C	NORMAL HEATING DEG. DAYS	30	1321	1148	964	579	268	61	10	28	139	443	735	1138	6834	
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	23	70	178	133	34	0	0	0	438	
RH	NORMAL (PERCENT)	30	73	72	70	65	67	70	70	75	76	74	75	77	72	
	HOUR 01 LST	30	76	76	76	75	78	82	84	86	86	82	79	79	80	
	HOUR 07 LST	30	76	78	78	76	76	79	80	86	87	84	81	80	80	
	HOUR 13 LST	30	68	65	60	53	55	56	55	59	61	60	67	71	61	
	HOUR 19 LST	30	74	72	67	59	60	62	63	69	75	74	75	77	69	
S	PERCENT POSSIBLE SUNSHINE	48	35	39	45	49	54	59	63	58	52	44	26	26	46	
W/O	MEAN NO. DAYS WITH:															
	HEAVY FOG(VISBY≤1/4 MI)	49	0.9	0.8	0.9	0.6	0.8	0.5	0.5	0.7	0.9	1.2	0.6	0.8	9.2	
	THUNDERSTORMS	49	0.2	0.2	0.8	1.8	3.1	5.3	6.2	5.3	2.5	1.0	0.6	0.1	27.1	
CLOUDINESS	MEAN:															
	SUNRISE-SUNSET (OKTAS)	1			8.0			5.6							9.6	
	MIDNIGHT-MIDNIGHT (OKTAS)	1			8.0											
	MEAN NO. DAYS WITH:															
	CLEAR	1			3.0			5.0	3.0							
PARTLY CLOUDY	1			7.0			6.0	10.0								
CLOUDY	1	3.0	5.0	11.0			9.0	6.0								
PR	MEAN STATION PRESSURE(IN)	25	29.59	29.60	29.57	29.52	29.53	29.52	29.54	29.59	29.61	29.63	29.60	29.61	29.58	
	MEAN SEA-LEVEL PRES. (IN)	50	30.06	30.05	30.01	29.98	29.97	29.96	29.99	30.01	30.06	30.08	30.03	30.06	30.02	
WINDS	MEAN SPEED (MPH)	43	10.5	10.6	10.5	10.4	9.1	8.2	7.9	7.5	8.1	8.5	10.1	10.2	9.3	
	PREVAIL.DIR.(TENS OF DEGS)	23	25	25	27	29	30	27	26	25	08	25	25	25	25	
	MAXIMUM 2-MINUTE:															
	SPEED (MPH)	6	46	46	43	37	43	33	54	37	59	36	41	40	59	
	DIR. (TENS OF DEGS)		16	26	25	25	29	28	28	25	32	25	26	26	32	
	YEAR OF OCCURRENCE		1996	1997	1996	1996	1998	1998	1999	1996	1998	1996	1994	1998	SEP 1998	
	MAXIMUM 5-SECOND:															
SPEED (MPH)	6	59	54	49	45	56	48	66	47	77	46	51	49	77		
DIR. (TENS OF DEGS)		27	27	24	27	28	27	28	25	32	31	12	26	32		
YEAR OF OCCURRENCE		1999	1997	1996	1999	1998	1998	1999	1996	1998	1998	1999	1998	SEP 1998		
PRECIPITATION	NORMAL (IN)	30	2.34	2.15	2.77	3.33	3.28	3.79	3.81	3.51	3.79	3.24	3.72	3.20	38.93	
	MAXIMUM MONTHLY (IN)	49	5.77	5.38	6.84	8.12	7.41	12.30	9.52	8.41	8.81	8.29	6.79	5.50	12.30	
	YEAR OF OCCURRENCE		1978	1951	1955	1976	1976	1972	1974	1956	1975	1955	1972	1983	JUN 1972	
	MINIMUM MONTHLY (IN)	49	1.02	0.63	1.01	1.22	0.75	1.10	0.90	1.02	0.75	0.21	1.25	1.40	0.21	
	YEAR OF OCCURRENCE		1970	1987	1981	1985	1977	1962	1969	1999	1964	1963	1978	1999	OCT 1963	
	MAXIMUM IN 24 HOURS (IN)	49	1.88	1.99	1.77	2.85	3.13	3.88	4.07	4.27	4.14	3.60	2.09	2.18	4.27	
	YEAR OF OCCURRENCE		1999	1961	1993	1976	1969	1972	1974	1954	1975	1955	1996	1952	AUG 1954	
	NORMAL NO. DAYS WITH:															
PRECIPITATION ≥ 0.01	30	18.5	15.6	16.3	13.4	12.9	11.7	10.6	11.3	11.3	12.9	16.7	19.1	170.3		
PRECIPITATION ≥ 1.00	30	0.1	0.3	0.2	0.5	0.3	0.8	0.9	0.6	0.9	0.6	0.5	0.4	6.1		
SNOWFALL	NORMAL (IN)	30	29.8	23.3	14.8	4.4	0.1	0.0	0.0	0.0	0.6	9.1	28.0	110.1		
	MAXIMUM MONTHLY (IN)	49	72.2	72.6	54.4	16.4	2.1	T	T	0.0	T	5.7	25.9	64.6	72.6	
	YEAR OF OCCURRENCE		1978	1958	1993	1983	1996	1992	1992		1992	1988	1976	1989	FEB 1958	
	MAXIMUM IN 24 HOURS (IN)	49	24.5	21.4	35.6	7.1	2.1	T	T	0.0	T	2.9	12.1	18.8	35.6	
	YEAR OF OCCURRENCE		1966	1961	1993	1975	1996	1992	1992		1992	1988	1973	1997	MAR 1993	
	MAXIMUM SNOW DEPTH (IN)	49	39	48	25	8	1	0	0	0	0	2	14	23	48	
	YEAR OF OCCURRENCE		1966	1966	1971	1975	1996					1965	1973	1969	FEB 1966	
NORMAL NO. DAYS WITH:																
SNOWFALL ≥ 1.0	30	8.5	7.1	4.6	1.4	0.1	0.0	0.0	0.0	0.0	0.2	2.9	8.1	32.9		

PRECIPITATION (inches) 1999 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	1.02	1.84	2.45	3.68	2.79	2.93	4.42	4.07	4.33	3.84	3.53	3.33	38.23
1971	1.90	4.07	2.90	2.19	3.40	3.26	6.49	4.01	2.56	1.62	3.52	3.26	39.18
1972	1.10	2.87	2.49	4.03	6.19	12.30	3.45	3.76	4.12	4.36	6.79	3.95	55.41
1973	1.85	1.71	3.45	6.91	5.58	7.07	3.62	2.97	4.57	3.81	6.73	4.38	52.65
1974	2.08	1.70	4.34	3.09	5.78	4.67	9.52	4.60	4.45	1.58	4.95	3.47	50.23
1975	2.54	3.05	2.67	2.01	2.74	4.08	9.32	5.35	8.81	3.69	3.54	4.10	51.90
1976	2.79	2.71	4.62	8.12	7.41	7.42	5.24	6.73	3.27	6.53	1.53	1.80	58.17
1977	1.84	1.62	3.47	3.04	0.75	3.30	4.76	4.93	6.54	4.75	5.31	4.33	44.64
1978	5.77	0.80	3.08	1.87	1.90	3.58	2.78	3.31	3.93	2.68	1.25	4.12	35.07
1979	4.70	2.54	2.73	3.89	3.07	2.33	2.33	3.69	5.25	2.91	3.25	1.84	38.53
1980	1.47	1.38	4.34	3.33	1.34	4.45	2.57	1.33	3.40	2.56	2.64	3.27	32.08
1981	1.34	2.72	1.01	2.04	2.61	1.89	2.68	2.63	5.58	6.66	3.09	2.96	35.21
1982	3.59	1.26	2.63	1.71	2.87	4.64	3.83	2.60	4.22	0.72	4.52	2.55	35.14
1983	1.92	1.07	2.30	6.34	3.33	1.50	2.31	2.80	2.98	1.98	4.30	5.50	36.33
1984	1.30	2.88	2.39	3.16	4.97	2.02	3.66	5.17	2.61	1.95	3.48	4.38	37.97
1985	2.49	1.55	2.61	1.22	3.39	2.80	2.75	1.44	3.88	3.39	5.18	1.80	32.50
1986	2.41	2.27	2.82	3.42	2.67	4.89	5.23	3.36	5.47	3.32	3.74	3.33	42.93
1987	3.03	0.63	1.86	3.31	1.41	5.04	2.16	2.12	5.99	3.13	3.02	1.99	33.69
1988	1.50	2.13	1.79	2.70	3.05	2.46	5.72	3.77	1.88	3.57	3.95	1.92	34.44
1989	1.06	1.71	3.13	1.52	4.27	5.41	2.20	2.68	5.96	4.08	2.78	2.13	36.93
1990	2.13	3.95	3.70	4.09	5.62	2.92	3.72	5.33	3.45	6.09	3.23	5.24	49.47
1991	2.44	1.54	4.07	3.90	3.90	1.67	2.86	4.03	4.20	2.62	2.72	3.10	37.05
1992	2.62	2.46	3.80	3.54	5.21	1.78	8.00	2.64	4.55	2.69	3.75	2.57	43.61
1993	3.08	2.45	3.75	6.55	2.25	2.93	4.76	4.71	3.83	2.91	3.19	3.20	43.61
1994	3.37	1.92	5.14	3.62	3.02	2.38	2.64	5.19	2.43	1.61	3.50	2.52	37.34
1995	1.80	2.19	1.31	1.88	1.70	1.00	1.98	3.50	2.53	6.57	4.83	2.05	31.34
1996	3.35	1.25	1.74	4.28	3.02	3.05	4.24	1.71	4.38	2.14	5.78	4.45	39.39
1997	1.46	2.25	3.57	1.77	2.43	1.64	2.78	4.06	2.75	1.50	4.28	4.13	32.62
1998	4.76	3.14	2.94	2.09	2.37	4.62	3.63	4.77	2.41	2.53	2.06	1.74	37.06
1999	5.33	1.43	3.53	1.75	0.81	1.78	2.55	1.02	5.35	2.77	3.16	1.40	30.88
POR= 97 YRS	2.71	2.46	3.08	3.11	3.01	3.43	3.49	3.34	3.19	3.06	3.08	2.95	36.91

WBAN : 14771

AVERAGE TEMPERATURE (°F) 1999 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	16.1	24.1	31.7	47.2	57.5	63.5	69.7	68.0	61.4	52.3	41.7	25.4	46.6
1971	18.5	26.5	31.2	42.8	55.8	67.9	69.0	67.1	65.6	56.6	36.9	33.2	47.6
1972	26.4	22.9	29.4	40.5	58.5	64.5	72.9	69.2	63.5	46.5	37.0	30.8	46.8
1973	28.4	21.4	42.6	46.8	54.3	69.6	72.7	73.5	62.0	53.7	40.7	29.5	49.6
1974	26.0	21.6	32.3	48.8	54.1	65.6	69.1	68.9	59.1	46.5	40.6	30.4	46.9
1975	29.4	28.1	31.7	39.9	62.9	67.1	71.7	68.2	57.1	53.2	46.6	27.6	48.6
1976	18.1	32.5	36.6	48.4	54.2	67.9	66.7	66.0	59.8	46.9	35.8	22.6	46.3
1977	15.7	26.0	40.1	48.2	60.3	62.7	70.8	67.3	62.5	50.6	44.0	27.3	48.0
1978	21.3	17.6	29.4	42.2	58.3	64.8	71.9	71.7	59.9	49.6	40.3	30.6	46.5
1979	22.4	12.9	39.1	45.1	58.6	66.0	71.7	67.9	61.4	50.9	44.5	33.4	47.8
1980	25.6	19.8	32.4	47.8	59.8	63.0	72.5	73.8	63.4	48.8	37.6	22.6	47.3
1981	15.0	33.7	36.4	50.0	59.2	68.0	73.3	70.4	61.6	47.9	39.0	29.0	48.6
1982	14.8	25.1	33.2	43.9	59.4	63.1	70.4	65.3	60.6	50.4	43.9	34.1	47.0
1983	23.4	26.4	35.7	44.3	53.7	66.7	72.0	69.0	62.5	50.3	39.0	22.5	47.1
1984	18.7	32.0	24.5	46.0	52.4	65.4	68.0	68.8	57.7	52.2	38.3	33.5	46.5
1985	22.0	27.3	36.3	47.8	59.5	62.0	69.8	68.9	63.5	51.4	41.2	26.0	48.0
1986	23.9	23.4	37.4	49.2	61.0	64.3	71.0	66.8	60.5	49.7	36.8	31.6	48.0
1987	23.8	21.7	38.0	51.9	60.3	68.3	73.6	68.5	61.1	47.7	40.9	32.3	49.0
1988	23.1	24.6	34.4	45.7	59.7	64.1	74.0	71.8	60.8	46.6	43.0	27.8	48.0
1989	28.6	22.7	32.9	43.5	58.2	67.3	71.1	68.2	61.8	51.7	38.8	14.7	46.6
1990	33.2	29.0	37.5	49.3	54.5	67.3	71.8	70.3	61.2	52.8	42.2	33.5	50.2
1991	24.3	29.8	37.7	51.0	62.8	68.4	72.4	71.8	60.5	53.1	40.0	30.7	50.2
1992	24.7	26.5	29.3	44.4	57.5	64.0	67.3	67.5	61.3	46.6	39.7	31.0	46.7
1993	27.5	17.0	30.1	46.9	58.0	65.2	72.5	70.7	60.0	48.2	38.6	26.9	46.8
1994	12.7	19.2	30.8	47.9	54.1	68.0	72.9	67.5	60.9	50.6	44.0	31.9	46.7
1995	30.4	20.7	37.4	42.4	56.9	69.4	73.4	71.8	59.1	54.7	35.3	24.2	48.0
1996	21.5	24.6	29.8	43.2	55.0	68.2	69.4	70.3	63.1	50.7	34.7	34.9	47.1
1997	23.9	30.4	33.6	44.2	52.2	67.9	69.8	68.4	60.1	49.1	37.2	30.4	47.3
1998	29.6	31.2	37.9	48.1	62.9	66.3	70.1	71.1	64.0	51.9	41.7	35.4	50.9
1999	22.5	29.6	31.5	46.5	60.7	69.8	75.0	68.9	64.8	49.5	44.3	30.9	49.5
POR= 97 YRS	24.0	24.4	33.6	45.6	57.2	66.1	71.1	69.2	62.0	51.2	40.0	28.4	47.7

HEATING DEGREE DAYS (base 65°F) 1999 SYRACUSE, NY (SYR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	7	27	150	388	692	1222	1437	1069	1040	658	295	50	7035
1971-72	13	51	96	256	840	980	1189	1216	1098	731	204	84	6758
1972-73	9	23	98	567	833	1053	1128	1217	687	547	325	31	6518
1973-74	2	12	164	344	723	1094	1200	1206	1004	493	339	52	6633
1974-75	16	3	202	565	726	1069	1100	1026	1026	749	138	46	6666
1975-76	3	32	230	357	545	1154	1449	936	872	509	329	47	6463
1976-77	24	45	179	556	869	1303	1520	1086	767	511	209	111	7180
1977-78	14	60	121	444	624	1162	1348	1322	1097	677	252	92	7213
1978-79	10	1	184	470	735	1062	1315	1457	796	591	242	74	6937
1979-80	19	39	146	454	607	971	1215	1302	1007	511	194	115	6580
1980-81	3	0	120	496	814	1307	1544	869	882	446	221	27	6729
1981-82	2	4	145	523	775	1110	1552	1114	978	626	183	79	7091
1982-83	13	57	152	449	628	951	1280	1073	902	615	351	67	6538
1983-84	11	25	140	457	769	1312	1432	949	1246	563	386	68	7358
1984-85	16	33	227	390	797	971	1329	1048	882	514	193	109	6509
1985-86	10	18	121	415	702	1200	1266	1156	856	471	172	76	6463
1986-87	12	50	155	468	838	1027	1270	1208	831	395	211	35	6500
1987-88	7	27	138	529	717	1007	1290	1167	942	571	187	131	6713
1988-89	9	33	150	574	653	1148	1120	1175	989	639	242	38	6770
1989-90	3	36	151	406	779	1554	976	1001	849	496	319	43	6613
1990-91	4	4	160	386	675	967	1253	980	839	428	153	24	5873
1991-92	1	0	189	378	743	1056	1240	1112	1099	617	245	79	6759
1992-93	15	33	164	562	753	1047	1156	1337	1074	537	230	68	6976
1993-94	2	10	190	515	785	1172	1618	1274	1054	507	345	53	7525
1994-95	0	32	146	439	621	1019	1065	1235	850	671	248	36	6362
1995-96	5	8	194	313	884	1256	1344	1160	1085	648	328	21	7246
1996-97	5	2	123	438	903	929	1267	966	964	613	389	31	6630
1997-98	12	7	156	491	828	1065	1089	941	844	500	102	96	6131
1998-99	3	13	89	403	692	911	1310	986	1032	545	161	41	6186
1999-	0	14	96	473	613	1049							

WBAN : 14771

COOLING DEGREE DAYS (base 65°F) 1999 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1971	0	0	0	0	17	145	145	124	117	4	0	0	552
1972	0	0	0	0	9	78	262	160	61	0	0	0	570
1973	0	0	0	7	0	177	249	281	79	2	0	0	795
1974	0	0	0	14	6	77	148	128	31	1	0	0	405
1975	0	0	0	0	80	114	221	138	1	1	0	0	555
1976	0	0	0	16	2	141	84	83	31	0	0	0	357
1977	0	0	1	12	71	47	202	138	49	0	0	0	520
1978	0	0	0	0	49	92	231	215	36	0	0	0	623
1979	0	0	0	2	50	109	232	134	46	22	0	0	595
1980	0	0	0	0	41	62	243	279	80	1	0	0	706
1981	0	0	3	4	47	125	264	180	49	0	0	0	672
1982	0	0	0	0	18	25	186	72	25	0	3	0	329
1983	0	0	0	0	2	125	236	155	70	7	0	0	595
1984	0	0	0	0	4	88	119	154	14	1	0	0	380
1985	0	0	0	7	30	26	165	144	87	0	0	0	459
1986	0	0	5	1	52	62	201	112	28	0	0	0	461
1987	0	0	0	7	73	142	280	143	29	0	0	0	674
1988	0	0	0	0	33	112	296	251	32	9	0	0	733
1989	0	0	0	0	37	112	198	144	59	0	0	0	550
1990	0	0	5	33	2	118	222	177	51	16	0	0	624
1991	0	0	0	16	89	136	237	218	61	16	0	0	773
1992	0	0	0	5	21	54	94	118	60	0	0	0	352
1993	0	0	0	0	17	81	241	195	48	0	0	0	582
1993	0	0	0	0	17	81	241	195	48	0	0	0	582
1994	0	0	0	1	15	150	251	120	28	0	0	0	565
1995	0	0	0	0	8	178	275	226	26	2	0	0	715
1996	0	0	0	0	22	126	150	175	73	0	0	0	546
1997	0	0	0	0	0	123	167	122	15	3	0	0	430
1998	0	0	9	0	41	140	167	209	65	1	0	0	632
1999	0	0	0	0	34	190	315	141	99	0	0	0	779

SNOWFALL (inches) 1999 SYRACUSE, NY (SYR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.8	7.0	51.9	30.3	25.2	37.2	4.8	0.0	0.0	157.2
1971-72	0.0	0.0	0.0	0.0	16.7	18.3	18.2	50.0	22.7	7.8	0.0	0.0	133.7
1972-73	0.0	0.0	0.0	0.3	15.8	29.8	11.9	13.3	3.6	5.3	1.2	0.0	81.2
1973-74	0.0	0.0	0.0	T	20.6	24.4	15.5	23.7	31.2	7.8	T	0.0	123.2
1974-75	0.0	0.0	0.0	2.8	4.8	26.2	11.8	27.3	20.6	12.0	0.0	0.0	105.5
1975-76	0.0	0.0	0.0	T	2.8	27.0	35.8	12.7	16.6	0.9	T	0.0	95.8
1976-77	0.0	0.0	0.0	0.3	25.9	25.7	52.3	24.4	13.5	1.9	1.0	0.0	145.0
1977-78	0.0	0.0	0.0	0.0	11.3	40.1	72.2	26.1	11.1	0.4	T	0.0	161.2
1978-79	0.0	0.0	0.0	T	3.9	40.9	27.9	20.7	14.9	10.2	0.0	0.0	118.5
1979-80	0.0	0.0	0.0	0.1	1.5	13.8	24.5	32.8	20.5	0.2	0.0	0.0	93.4
1980-81	0.0	0.0	0.0	T	7.3	28.8	23.4	8.5	10.6	0.4	0.0	0.0	79.0
1981-82	0.0	0.0	0.0	0.5	12.1	37.3	48.2	11.6	14.4	13.0	0.0	0.0	137.1
1982-83	0.0	0.0	0.0	T	1.9	10.9	20.3	8.2	8.3	16.4	T	0.0	66.0
1983-84	0.0	0.0	0.0	0.0	7.6	24.2	21.8	19.7	40.3	T	0.0	0.0	113.6
1984-85	0.0	0.0	0.0	0.0	5.0	23.4	57.3	21.6	7.1	2.0	0.0	0.0	116.4
1985-86	0.0	0.0	0.0	0.0	8.0	28.2	29.9	26.1	11.0	1.7	T	0.0	104.9
1986-87	0.0	0.0	0.0	0.0	16.1	8.8	49.2	15.1	3.0	1.3	0.0	0.0	93.5
1987-88	0.0	0.0	0.0	T	10.8	20.7	18.0	46.1	10.2	5.6	0.0	0.0	111.4
1988-89	0.0	0.0	0.0	5.7	0.2	34.4	19.4	21.7	9.9	6.5	0.0	0.0	97.8
1989-90	0.0	0.0	T	T	12.9	64.6	27.4	33.3	15.2	8.6	0.0	0.0	162.0
1990-91	0.0	0.0	0.0	0.2	7.8	24.5	30.9	27.7	2.8	3.0	0.0	0.0	96.9
1991-92	0.0	0.0	0.0	0.0	5.5	37.9	50.5	27.6	41.3	4.1	0.0	T	166.9
1992-93	T	0.0	T	1.4	10.1	19.8	42.9	51.3	54.4	12.2	0.0	0.0	192.1
1993-94	0.0	0.0	0.0	1.0	17.1	34.0	57.0	30.8	25.3	3.7	0.0	0.0	168.9
1994-95	0.0	0.0	0.0	0.0	3.5	5.9	13.4	32.3	7.1	0.0	0.0	0.0	62.2
1995-96	0.0	0.0	0.0	0.0	34.2	45.1	36.0	16.5	32.2	4.8	2.1	0.0	170.9
1996-97	0.0	0.0	0.0	T	25.9	21.2	38.7	19.1	23.4	2.8	0.0	0.0	131.1
1997-98	0.0	0.0	0.0	1.2	19.3	47.8	31.8	14.7	19.9	0.0	0.0	0.0	134.7
1998-99	0.0	0.0	0.0	0.0	T	13.5	50.7	5.7	28.4	0.0	0.0	0.0	98.3
1999-	0.0	0.0	0.0	0.0	3.8	15.7							
POR= 50 YRS	T	0.0	T	T	9.9	26.6	30.5	25.5	18.0	3.8	0.1	T	114.4

WBAN : 14771

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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1999
SYRACUSE,
NEW YORK (SYR)

Syracuse is located approximately at the geographical center of the state. Gently rolling terrain stretches northward for about 30 miles to the eastern end of Lake Ontario. Oneida Lake is about 8 miles northeast of Syracuse. Approximately 5 miles south of the city, hills rise to 1,500 feet. Immediately to the west, the terrain is gently rolling with elevations 500 to 800 feet above sea level.

The climate of Syracuse is primarily continental in character and comparatively humid. Nearly all cyclonic systems moving from the interior of the country through the St. Lawrence Valley will affect the Syracuse area. Seasonal and diurnal changes are marked and produce an invigorating climate.

In the summer and in portions of the transitional seasons, temperatures usually rise rapidly during the daytime to moderate levels and as a rule fall rapidly after sunset. The nights are relatively cool and comfortable. There are only a few days in a year when atmospheric humidity causes great personal discomfort.

Winters are usually cold and are sometimes severe in part. Daytime temperatures average in the low 30s with nighttime lows in the teens. Low winter temperatures below -25 degrees have been recorded. The autumn, winter, and spring seasons display marked variability.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 16 and the average last occurrence in the spring is April 28.

Precipitation in the Syracuse area is derived principally from cyclonic storms which pass from the interior of the country through the St. Lawrence Valley. Lake Ontario provides the source of significant winter precipitation. The lake is quite deep and never freezes so cold air flowing over the lake is quickly saturated and produces the cloudiness and snow squalls which are a well-known feature of winter weather in the Syracuse area.

The area enjoys sufficient precipitation in most years to meet the needs of agriculture and water supplies. The precipitation is uncommonly well distributed, averaging about 3 inches per month throughout the year. Snowfall is moderately heavy with an average just over 100 inches. There are about 30 days per year with thunderstorms, mostly during the warmer months.

Wind velocities are moderate, but during the winter months there are numerous days with sufficient winds to cause blowing and drifting snow.

During December, January, and February there is much cloudiness. Syracuse receives only about one-third of possible sunshine during winter months. Approximately two-thirds of possible sunshine is received during the warm months.

STATION LOCATION

SYRACUSE, NEW YORK

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUGUST 1980	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND												HANGAR
							WIND	TEMPERATURE	RELATIVE HUMIDITY	PRECIPITATION	WIND DIRECTION	WIND SPEED	WIND GUST	WIND VELOCITY	WIND DIRECTION				
CITY OFFICE Hall of Languages Syracuse University	8/22/02	9/30/28		43° 02'	76° 08'	566	113	97	97										
Federal Building Rooms 313-321, Clinton and West Genessee Sts.	10/1/28	8/14/40	1-3/8 mi. NW	43° 03'	76° 09'	400	79	65	65			57		57				Lower wind speed than at previous location due to lower elevation. Consolidated with WBAS at Amboy, N.Y. (Official Municipal Airport for Syracuse, N.Y.) 8/15/40.	
AIRPORT STATION NW cor. old Municipal Airport Bldg., Amboy, NY	3/1/30	10/7/34		43° 04'	76° 16'	397	60	5	5										
Admn. Bldg., Municipal Airport, Amboy, NY	10/8/34	11/15/37	75 ft. W	43° 04'	76° 16'	397	60	5	5									WB 1st order station.	
NE corner Municipal Hangar, Municipal AP Amboy, New York	11/16/37	4/26/42	100 ft. W	43° 04'	76° 16'	399	51	5	5			3		3				a - 4 ft. to 7/14/44.	
Tower, NW cor. Municipal Hangar, Municipal AP Amboy, New York	4/27/42	9/17/49	140 ft. W	43° 04'	76° 16'	399	57	a5	a5			3		3				b - Installed 7/29/60.	
N. side Hangar No. 1 Clarence E. Hancock Airport, Mattydale, NY	9/18/49	7/1/62	7 mi. ENE	43° 07'	76° 07'	424	72	5	5	Unk		3	b4	3				c - 417 ft. to 6/29/63. d - 84 ft. to 5/28/63. e - Commissioned 3000 ft. SE of thermometer site 6/29/63. f - Relocated 250 ft. NNW of control tower 6/17/68. g - Not moved 7/2/62. h - Moved to new location 8/28/62. i - Installed near other rain gages 11/1/84. j - Minor adjustment & type change 6/3/85.	
FAA Control Tower Clarence E. Hancock Airport+	7/2/62	11/01/93	1/2 mi. NNE	43° 07'	76° 07'	c410	d21	6	5	g Unk h79		3 f3	4 f4	NA 13	e4 j5	NA		ASOS commissioned 11/01/93	
+Hancock International Airport effective in 1971.																			
Hancock Int'l Airport	11/01/93	Present	NA	43°07'	76°06'	417											S		

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

FIRST CLASS
POSTAGE & FEES PAID
United States Department of Commerce
NOAA Permit No. G - 19