

2004

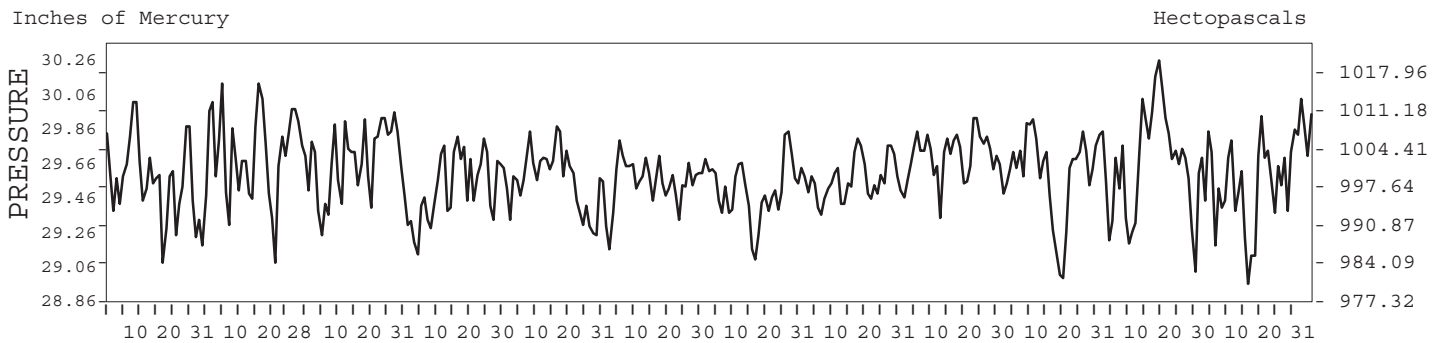
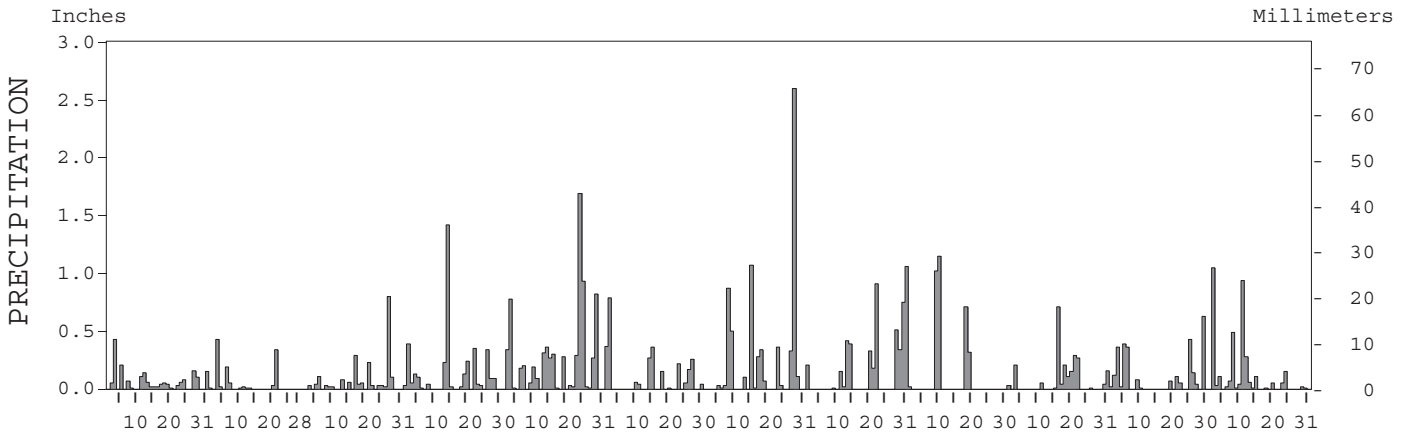
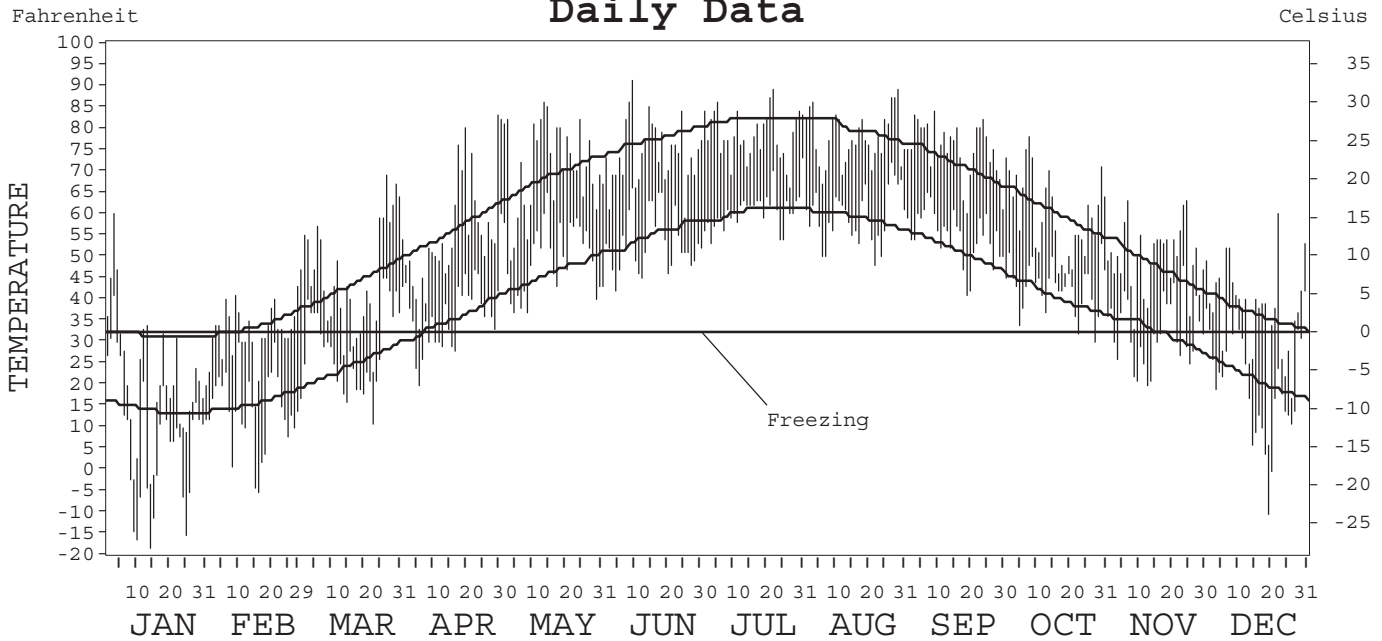
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3679

SYRACUSE,
NEW YORK (SYR)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2004

SYRACUSE, NY (SYR)

LATITUDE: 43° 06' 33" N LONGITUDE: 76° 06' 12" W ELEVATION (FT.): GRND: 414 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	21.5	32.8	45.9	55.7	71.0	74.2	78.4	77.8	75.1	60.2	49.7	37.2	56.6	
	HIGHEST DAILY MAXIMUM	60	47	69	83	86	91	89	89	84	78	63	60	91	
	DATE OF OCCURRENCE	03	29	26	29	13	09	22	29	09	08	25+	23	JUN 09	
	MEAN DAILY MINIMUM	7.8	14.2	29.1	36.5	49.5	53.3	60.6	59.5	54.9	42.7	32.3	21.0	38.5	
	LOWEST DAILY MINIMUM	-18	-5	11	20	37	42	53	48	41	30	20	-10	-18	
	DATE OF OCCURRENCE	14	16	22	05	08+	04	03	22	19	28	13	20	JAN 14	
	AVERAGE DRY BULB	14.7	23.5	37.5	46.1	60.3	63.8	69.5	68.7	65.0	51.5	41.0	29.1	47.6	
	MEAN WET BULB	14.1	22.2	33.9	41.3	55.2	58.2	64.6	63.3	60.1	47.1	38.1	27.2	43.8	
	MEAN DEW POINT	9.5	16.3	28.0	34.2	50.8	53.3	61.9	59.9	57.0	43.1	33.3	22.2	39.1	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	0	0	0	0	0	0	0	1
	MAXIMUM ≤ 32°	25	13	5	0	0	0	0	0	0	0	0	8	51	
MINIMUM ≤ 32°	30	29	20	9	0	0	0	0	0	2	18	24	132		
MINIMUM ≤ 0°	11	2	0	0	0	0	0	0	0	0	0	2	15		
H/C	HEATING DEGREE DAYS	1553	1196	847	567	179	95	5	22	59	414	711	1104	6752	
	COOLING DEGREE DAYS	0	0	0	6	39	63	151	142	67	0	0	0	468	
RH	MEAN (PERCENT)	78	72	72	66	73	70	78	76	78	76	75	75	74	
	HOUR 01 LST	81	78	77	78	85	82	89	86	88	82	79	79	82	
	HOUR 07 LST	80	81	79	72	81	77	85	84	88	86	80	80	81	
	HOUR 13 LST	73	61	61	56	60	54	66	61	61	62	66	70	63	
	HOUR 19 LST	79	69	68	60	67	62	76	73	77	75	73	75	71	
S	PERCENT POSSIBLE SUNSHINE		41	32	44	48	59	38	57	67	38	29	19		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	0	0	0	0	1	0	0	1	2	0	1	7	
	THUNDERSTORMS	0	0	1	3	10	3	6	5	0	3	1	0	32	
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.)	29.55	29.72	29.67	29.52	29.55	29.56	29.50	29.56	29.70	29.59	29.68	29.57	29.60	
	MEAN SEA-LEVEL PRESS. (IN.)	30.01	30.18	30.12	29.97	29.99	30.00	29.94	30.00	30.14	30.03	30.13	30.03	30.05	
WINDS	RESULTANT SPEED (MPH)	6.3	4.2	2.8	1.3	2.5	3.5	0.4	2.1	1.0	1.1	2.4	3.4	2.5	
	RES. DIR. (TENS OF DEGS.)	27	27	24	26	26	26	23	26	25	18	26	24	26	
	MEAN SPEED (MPH)	11.1	8.1	9.4	9.1	8.0	7.2	6.6	6.1	6.1	7.5	8.2	10.4	8.1	
	PREVAIL. DIR. (TENS OF DEGS.)	25	26	26	30	28	26	09	27	27	08	08	08	26	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	41	30	37	39	39	33	38	32	28	33	36	40	41	
	DIR. (TENS OF DEGS.)	26	27	26	30	26	27	35	26	17	30	27	27	26	
	DATE OF OCCURRENCE	22	07+	12	19	24	01	17	28	09	02	05	23	JAN 22	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	39	44	49	47	41	53	37	35	38	47	51	53	
DIR. (TENS OF DEGS.)	27	29	26	31	26	28	36	26	19	27	26	27	36		
DATE OF OCCURRENCE	22	04	12	19	24	14	17	28	09	30+	05	23	JUL 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.86	1.12	2.04	3.72	7.82	2.42	6.95	5.09	3.23	2.28	2.81	3.80	43.14	
	GREATEST 24-HOUR (IN.)	0.43	0.44	0.90	1.59	2.56	0.79	2.74	1.67	2.09	0.71	0.73	1.05	2.74	
	DATE OF OCCURRENCE	03	03-04	26-27	12-13	23-24	01	26-27	29-30	08-09	15	04-05	01	JUL 26-27	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	21	11	19	18	24	12	17	13	5	14	14	20	188		
PRECIPITATION ≥ 0.10	7	3	5	9	16	7	11	10	4	8	8	8	96		
PRECIPITATION ≥ 1.00	0	0	0	1	1	0	2	1	2	0	0	1	8		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	78.1	19.4	20.5	4.3	0.0	T	0.0	0.0	0.0	0.0	2.6	19.0	143.9	
	GREATEST 24-HOUR (IN.)	15.4	4.8	11.4	2.5	0.0	T	0.0	0.0	0.0	0.0	2.0	7.9	15.4	
	DATE OF OCCURRENCE	30-31	03	16-17	04		01					25-26	14-15	JAN 30-31	
	MAXIMUM SNOW DEPTH (IN.)	26	33	10	3	0	0	0	0	0	0	T	6	33	
	DATE OF OCCURRENCE	31	01	17+	05							26+	15	FEB 01	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	18	5	6	2	0	0	0	0	0	0	1	5	37		

NORMALS, MEANS, AND EXTREMES

SYRACUSE, NY (SYR)

LATITUDE: 43° 06' 33" N LONGITUDE: 76° 06' 12" W ELEVATION (FT): GRND: 414 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	31.4	33.5	43.1	55.7	68.5	77.0	81.7	79.6	71.4	59.8	47.4	36.3	57.1
	MEAN DAILY MAXIMUM	55	30.9	33.6	42.4	56.4	68.3	77.3	81.7	79.9	72.2	60.9	48.1	36.0	57.3
	HIGHEST DAILY MAXIMUM	54	70	69	87	92	96	98	98	101	97	87	81	72	101
	YEAR OF OCCURRENCE		1967	1981	1986	1990	1977	1953	2002	2002	1953	1963	1950	2001	AUG 2002
	MEAN OF EXTREME MAXS.	59	53.5	53.4	67.8	79.2	85.7	91.0	92.3	91.2	87.4	79.3	67.5	58.1	75.5
	NORMAL DAILY MINIMUM	30	14.0	15.5	24.2	34.9	45.8	54.6	60.1	58.8	51.1	40.4	32.0	20.9	37.7
	MEAN DAILY MINIMUM	55	14.9	16.8	25.1	36.3	46.3	55.3	60.5	58.9	51.8	41.2	33.2	21.9	38.5
	LOWEST DAILY MINIMUM	54	-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.	59	-7.9	-5.5	4.8	22.3	33.0	41.8	49.6	46.6	36.6	27.1	17.1	-7	22.1
	NORMAL DRY BULB	30	22.7	24.5	33.6	45.3	57.1	65.8	70.9	69.2	61.3	50.1	39.7	28.6	47.4
	MEAN DRY BULB	59	23.2	24.9	33.6	46.2	57.3	66.3	71.1	69.6	62.1	51.2	39.9	28.6	47.8
	MEAN WET BULB	54	21.6	23.2	30.7	40.9	51.1	59.8	64.3	63.3	56.9	46.7	37.5	26.8	43.6
	MEAN DEW POINT	54	16.0	17.4	24.6	34.0	45.2	55.3	60.0	59.5	53.3	42.2	32.8	22.1	38.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.4	1.5	3.9	1.7	0.3	0.0	0.0	0.0	7.8	
MAXIMUM ≤ 32°	30	16.5	13.5	5.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	10.3	47.9	
MINIMUM ≤ 32°	30	28.2	25.1	23.4	11.2	0.5	0.0	0.0	0.0	0.2	5.0	15.3	26.0	134.9	
MINIMUM ≤ 0°	30	4.2	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	9.1	
H/C	NORMAL HEATING DEG. DAYS	30	1296	1131	959	579	258	66	10	25	158	460	748	1113	6803
	NORMAL COOLING DEG. DAYS	30	0	0	1	4	29	105	203	158	48	3	0	0	551
RH	NORMAL (PERCENT)	30	74	72	69	66	68	70	72	75	77	75	76	77	73
	HOUR 01 LST	30	77	76	76	75	79	83	84	87	86	82	80	79	80
	HOUR 07 LST	30	78	79	78	76	77	79	81	87	88	85	82	81	81
	HOUR 13 LST	30	68	64	60	54	55	57	56	59	62	61	68	71	61
	HOUR 19 LST	30	75	72	67	60	60	63	63	70	76	75	76	78	70
S	PERCENT POSSIBLE SUNSHINE	52	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)	54	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	54	0.2	0.2	0.8	1.8	3.3	5.1	5.9	5.4	2.5	1.0	0.6	0.1	26.9
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)	30	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)	55	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)	48	10.5	10.5	10.5	10.4	9.1	8.2	7.9	7.4	8.1	8.5	10.1	10.2	9.3
	PREVAIL. DIR (TENS OF DEGS)	28	25	26	27	29	28	27	26	25	09	25	25	25	25
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	11	46	49	43	39	43	35	54	37	59	43	44	48	59
	DIR. (TENS OF DEGS)		16	26	25	30	29	27	28	25	32	27	25	25	32
	YEAR OF OCCURRENCE		1996	2001	1996	2004	1998	2002	1999	1996	1998	2003	2003	2000	SEP 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	11	59	64	49	49	56	48	66	56	77	54	56	62	77	
DIR. (TENS OF DEGS)		27	27	27	31	28	27	28	23	32	27	25	25	32	
YEAR OF OCCURRENCE		1999	2001	2002	2004	1998	1998	1999	2001	1998	2003	2003	2000	SEP 1998	
PRECIPITATION	NORMAL (IN)	30	2.60	2.12	3.02	3.39	3.39	3.71	4.02	3.56	4.15	3.20	3.77	3.12	40.05
	MAXIMUM MONTHLY (IN)	54	5.77	5.38	6.84	8.12	7.82	12.30	9.52	8.41	8.81	8.29	6.79	5.50	12.30
	YEAR OF OCCURRENCE		1978	1951	1955	1976	2004	1972	1974	1956	1975	1955	1972	1983	JUN 1972
	MINIMUM MONTHLY (IN)	54	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)	54	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	19.7	15.5	16.5	14.0	12.7	12.2	11.3	11.1	12.6	13.2	16.8	18.3	173.9	
PRECIPITATION ≥ 1.00	30	0.2	0.2	0.2	0.5	0.4	0.7	1.0	0.7	0.9	0.7	0.4	0.4	6.3	
SNOWFALL	NORMAL (IN)	30	31.5	20.1	18.1	4.8	0.1	0.0	0.0	0.0	0.*	0.5	10.7	26.1	111.9
	MAXIMUM MONTHLY (IN)	54	78.1	72.6	54.4	16.4	2.1	T	T	0.0	T	5.7	25.9	70.3	78.1
	YEAR OF OCCURRENCE		2004	1958	1993	1983	1996	1992	1992	1992	1992	1988	1976	2000	JAN 2004
	MAXIMUM IN 24 HOURS (IN)	54	24.5	21.4	35.6	7.1	2.1	T	T	0.0	T	2.9	12.1	19.6	35.6
	YEAR OF OCCURRENCE		1966	1961	1993	1975	1996	1992	1992	1992	1992	1988	1973	2003	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	54	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	9.2	5.1	4.8	1.6	0.1	0.0	0.0	0.0	0.0	0.2	2.9	7.1	31.0	

PRECIPITATION (inches) 2004 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	2.80	2.46	2.37	4.24	4.75	4.46	2.73	2.48	3.13	2.25	2.98	2.36	37.01
2001	1.57	1.77	5.38	1.53	2.24	3.58	2.08	4.84	4.05	2.15	2.92	2.19	34.30
2002	2.13	1.44	2.75	4.38	5.77	5.35	1.75	2.71	3.55	3.98	3.61	2.84	40.26
2003	1.44	2.58	2.89	2.61	5.27	2.83	3.30	3.03	3.14	4.27	3.14	3.10	37.60
2004	1.86	1.12	2.04	3.72	7.82	2.42	6.95	5.09	3.23	2.28	2.81	3.80	43.14
POR= 102 YRS	2.70	2.46	3.10	3.15	3.14	3.47	3.51	3.38	3.22	3.09	3.10	2.97	37.29

WBAN : 14771

AVERAGE TEMPERATURE (°F) 2004 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	21.4	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
2000	21.3	28.8	40.1	44.3	59.1	65.6	67.0	68.2	60.7	50.9	38.5	21.7	47.2
2001	25.6	27.6	29.9	47.8	59.3	67.2	69.4	73.7	62.3	53.3	47.3	36.8	50.0
2002	32.9	32.3	36.3	48.5	54.1	68.0	73.7	73.0	66.9	50.4	40.7	28.7	50.5
2003	18.9	21.6	34.2	43.8	56.1	64.6	71.2	71.5	63.3	48.6	42.2	30.0	47.2
2004	14.7	23.5	37.5	46.1	60.3	63.8	69.5	68.7	65.0	51.5	41.0	29.1	47.6
POR= 102 YRS	24.0	24.5	33.7	45.6	57.2	66.1	71.1	69.3	62.1	51.2	40.1	28.4	47.8

HEATING DEGREE DAYS (base 65°F) 2004 SYRACUSE, NY (SYR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0	14	96	473	613	1049	1349	1042	765	614	224	69	6308
2000-01	22	29	184	427	791	1337	1215	1038	1080	508	190	62	6883
2001-02	16	0	126	366	527	867	988	908	882	519	352	49	5600
2002-03	4	7	55	461	724	1117	1424	1208	946	634	277	71	6928
2003-04	0	17	81	501	675	1078	1553	1196	847	567	179	95	6789
2004-	5	22	59	414	711	1104							

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COOLING DEGREE DAYS (base 65°F) 2004 SYRACUSE, NY (SYR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	0	0	0	1	46	94	91	132	58	0	0	0	422
2001	0	0	0	2	22	137	158	276	51	10	1	0	657
2002	0	0	0	30	19	145	283	263	120	16	0	0	876
2003	0	0	0	6	5	67	198	227	34	0	0	0	537
2004	0	0	0	6	39	63	151	142	67	0	0	0	468

SNOWFALL (inches) 2004 SYRACUSE, NY (SYR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0.0	0.0	0.0	0.0	3.8	15.7	29.9	27.4	7.1	1.9	T	0.0	85.8
2000-01	0.0	0.0	0.0	T	20.2	70.3	28.4	27.8	45.0	0.2	T	0.0	191.9
2001-02	0.0	0.0	0.0	0.2	0.5	7.3	21.2	13.5	14.1	2.6	T	0.0	59.4
2002-03	0.0	0.0	0.0	T	17.2	40.0	44.2	37.1	11.7	3.0	0.0	0.0	153.2
2003-04	0.0	0.0	0.0	T	10.5	48.5	78.1	19.4	20.5	4.3	0.0	T	181.3
2004-	0.0	0.0	0.0	0.0	2.6	19.0							
POR= 55 YRS	T	0.0	T	0.5	9.9	27.5	31.5	25.4	18.1	3.7	0.1	T	116.7

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 (1971 - 2000). 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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2004 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										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL GROUND TEMPERATURE	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHOLE GAUGE	8 INCH RAIN GAUGE	HYGROMETER		
<p>*NOTE:</p> <p><u>AIRPORT</u></p> <p>FAA Control Tower Clarence E. Hancock Airport+</p> <p>+Hancock Intl. Airport effective in 1971.</p> <p>Hancock International Airport</p>	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	i3	e4 j5	<p>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 gauges 11/1/84. j. Minor adjustment & type change 6/3/85.</p> <p>ASOS commissioned 11/01/93 k. Ground Elevation</p>		
	11/01/93	Present	NA	43°07'	76°06'	k414								S			

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* NOTES: For earlier station history see previous editions.