

1999

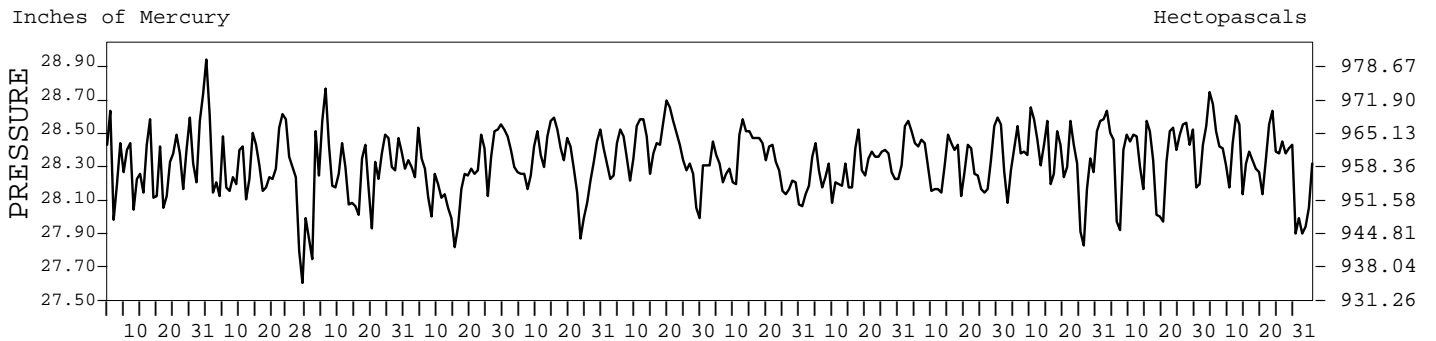
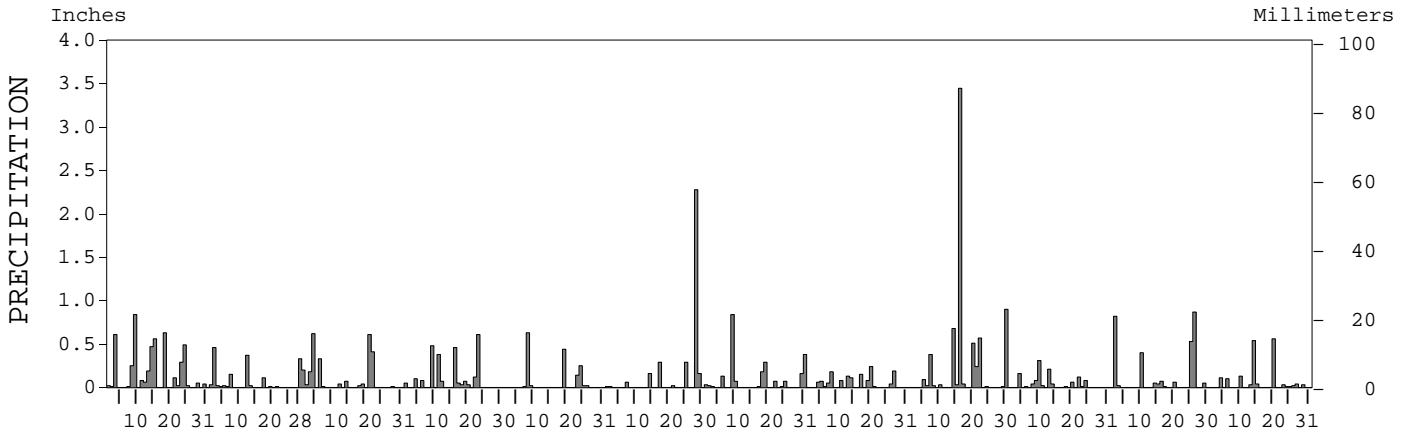
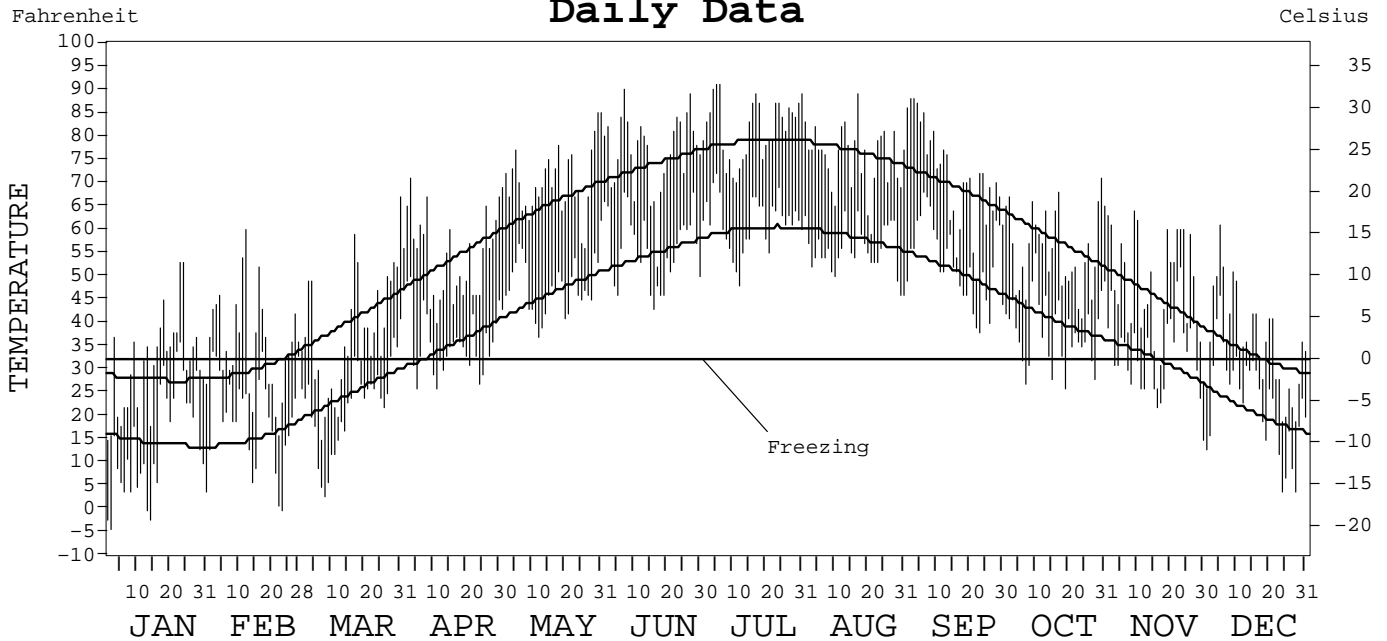
LOCAL CLIMATOLOGICAL DATA  
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3555

BINGHAMTON,  
NEW YORK (BGM)

Daily Data



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*Thomas R. Karl*

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE	NATIONAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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# METEOROLOGICAL DATA FOR 1999

## BINGHAMTON, NY (BGM)

LATITUDE: 42° 12' 28" N      LONGITUDE: 75° 58' 53" W      ELEVATION (FT): GRND: 1615      BARO: 1615      TIME ZONE: EASTERN (UTC + 5)      WBAN: 04725

	ELEMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	30.9	35.7	37.9	54.2	70.4	76.6	81.8	75.4	71.5	55.6	47.9	35.9	56.2	
	HIGHEST DAILY MAXIMUM	53	60	67	71	85	90	91	89	88	71	64	61	91	
	DATE OF OCCURRENCE	23+	12	31	03	31+	07	06+	17	03+	30	09	05	JUL 06+	
	MEAN DAILY MINIMUM	14.4	20.0	22.6	35.8	47.6	55.8	61.5	55.7	53.0	38.4	33.5	23.2	38.5	
	LOWEST DAILY MINIMUM	-4	0	3	26	37	43	48	46	38	26	15	4	-4	
	DATE OF OCCURRENCE	02	23	08	11+	12	16	12	31+	23	19	30	28+	JAN 02	
	AVERAGE DRY BULB	22.7	27.9	30.3	45.0	59.0	66.2	71.7	65.6	62.3	47.0	40.7	29.6	47.3	
	MEAN WET BULB	21.2	25.0	26.6	38.9	52.1	59.4	65.0	59.9	57.0	43.3	38.4	27.1	42.8	
	MEAN DEW POINT	17.2	18.2	20.0	30.2	45.7	54.2	61.1	56.4	53.4	38.8	33.6	22.5	37.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	1	3	0	0	0	0	0	0	4
	MAXIMUM ≤ 32°	17	11	10	0	0	0	0	0	0	0	3	10	51	
	MINIMUM ≤ 32°	29	24	26	9	0	0	0	0	0	7	14	27	136	
MINIMUM ≤ 0°	4	1	0	0	0	0	0	0	0	0	0	0	5		
H/C	HEATING DEGREE DAYS	1304	1033	1069	592	195	67	11	48	146	551	724	1090	6830	
	COOLING DEGREE DAYS	0	0	0	0	16	111	223	74	70	0	0	0	494	
RH	MEAN (PERCENT)	81	69	69	61	64	68	72	76	77	76	75	76	72	
	HOUR 01 LST	83	72	75	66	72	78	78	88	86	82	81	78	78	
	HOUR 07 LST	85	76	76	70	77	78	84	90	91	88	83	81	82	
	HOUR 13 LST	78	60	62	50	52	53	60	61	62	63	65	72	62	
	HOUR 19 LST	77	68	68	56	59	63	65	70	71	72	73	76	68	
S	PERCENT POSSIBLE SUNSHINE	26	45	44	57	60		63	57	51	51	29	35		
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	8	6	4	4	1	2	1	6	3	2	3	2	42	
	THUNDERSTORMS	1	0	0	2	2	4	10	4	1	1	0	0	25	
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.)	28.33	28.27	28.23	28.23	28.32	28.37	28.30	28.29	28.31	28.37	28.35	28.31	28.31	
	MEAN SEA-LEVEL PRESS. (IN.)		30.06	30.00	29.97	30.04		29.99	30.00	30.02		30.09	30.07		
WINDS	RESULTANT SPEED (MPH)	3.5	2.4	6.0	3.6	0.7	2.6	2.3	1.5	1.3	3.6	4.3	3.5	2.4	
	RES. DIR. (TENS OF DEGS.)	22	29	31	32	28	22	27	31	22	25	25	27	27	
	MEAN SPEED (MPH)	9.7	8.8	11.3	9.3	7.6	7.1	7.0	6.9	8.1	8.5	8.9	8.6	8.5	
	PREVAIL. DIR. (TENS OF DEGS.)	14	32	33	32	27	19	25	32	19	20	31	32	32	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	40	28	30	31		23	32	28	31	28	33	31		
	DIR. (TENS OF DEGS.)	27	31	27	30		30	26	27	33	27	17	31		
	DATE OF OCCURRENCE	18	05	18+	26		29	09+	17	17+	22+	02	11		
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	49	36	41	39		33	43	34	39	39	45	45		
DIR. (TENS OF DEGS.)	27	32	14	27		30	27	27	35	30	16	31			
DATE OF OCCURRENCE	18	05	03	26		29	06	17+	17+	14	02	11			
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.75	1.55	2.57	2.53	1.53	3.28	2.27	1.40	6.98	1.15	2.92	1.65	32.58	
	GREATEST 24-HOUR (IN.)	0.99	0.49	1.01	0.61	0.63	2.28	0.84	0.32	3.48	0.31	0.87	0.56	3.48	
	DATE OF OCCURRENCE	08-09	01-02	21-22	23	08	28	09	19-20	16-17	10	26	20	SEP 16-17	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	19	13	13	13	8	9	14	14	15	13	11	13	155	
PRECIPITATION ≥ 0.10	10	5	6	6	4	5	6	6	7	4	4	5	68		
PRECIPITATION ≥ 1.00	0	0	0	0	0	1	0	0	1	0	0	0	2		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	24.8	8.4	33.8	1.7	0.0	0.0	0.0	0.0	0.0	T	4.0	6.9	79.6	
	GREATEST 24-HOUR (IN.)	9.8	3.2	12.3	1.5	0.0	0.0	0.0	0.0	0.0	T	1.8	1.7	12.3	
	DATE OF OCCURRENCE	13-14	07	21-22	11						23+	16	14	MAR 21-22	
	MAXIMUM SNOW DEPTH (IN.)	14	3	12	1	0	0	0	0	0	0	1	2	14	
	DATE OF OCCURRENCE	15+	14+	22	12							17+	30+	JAN 15+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	8	3	7	1	0	0	0	0	0	0	2	4	25		

# NORMALS, MEANS, AND EXTREMES

BINGHAMTON, NY (BGM)

LATITUDE: 42° 12' 28" N      LONGITUDE: 75° 58' 53" W      ELEVATION (FT): GRND: 1615      BARO: 1615      TIME ZONE: EASTERN (UTC + 5)      WBAN: 04725

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	27.9	30.1	40.4	53.5	65.4	73.8	78.6	76.4	68.6	57.3	44.9	32.7	54.1
	MEAN DAILY MAXIMUM	52	29.2	31.5	40.1	54.0	65.6	74.3	78.9	76.8	69.0	58.1	45.0	33.3	54.6
	HIGHEST DAILY MAXIMUM	48	63	66	82	88	89	94	98	94	96	82	77	65	98
	YEAR OF OCCURRENCE		1998	1954	1998	1990	1996	1952	1988	1985	1953	1963	1982	1984	JUL 1988
	MEAN OF EXTREME MAXS.	52	50.2	51.0	64.5	76.3	82.6	87.0	89.2	87.4	83.8	75.3	65.2	53.6	72.2
	NORMAL DAILY MINIMUM	30	14.3	15.3	24.7	35.2	46.2	54.6	59.7	57.9	50.6	40.3	31.6	20.3	37.6
	MEAN DAILY MINIMUM	52	15.2	16.2	24.1	35.2	45.6	54.6	59.6	57.8	50.4	40.3	31.0	20.5	37.5
	LOWEST DAILY MINIMUM	48	-20	-15	-7	9	25	33	39	37	25	17	3	-18	-20
	YEAR OF OCCURRENCE		1957	1979	1993	1982	1978	1980	1963	1965	1974	1976	1976	1980	JAN 1957
	MEAN OF EXTREME MINS.	52	-4.6	-4.1	4.9	20.4	30.3	41.3	48.7	45.5	35.2	26.3	15.6	0.1	21.6
	NORMAL DRY BULB	30	21.1	22.7	32.6	44.4	55.8	64.2	69.2	67.2	59.6	48.8	38.3	26.5	45.9
	MEAN DRY BULB	52	22.2	23.8	32.1	44.5	55.6	64.5	69.2	67.3	59.7	49.2	38.1	26.9	46.1
	MEAN WET BULB	16	21.8	22.6	29.2	39.6	50.1	58.5	62.9	61.6	54.8	44.4	34.6	25.9	42.2
	MEAN DEW POINT	16	16.9	16.9	22.4	32.3	44.1	53.8	58.9	57.9	51.5	39.6	29.9	21.3	37.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.0	0.2	1.1	0.4	0.1	0.0	0.0	0.0	1.8	
MAXIMUM ≤ 32°	30	20.1	16.9	7.9	0.8	0.0	0.0	0.0	0.0	0.0	0.1	3.5	15.9	65.2	
MINIMUM ≤ 32°	30	29.7	26.2	24.5	12.2	1.2	0.0	0.0	0.0	0.2	5.9	17.1	27.5	144.5	
MINIMUM ≤ 0°	30	4.1	2.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	8.5	
H/C	NORMAL HEATING DEG. DAYS	30	1361	1184	1004	618	305	73	16	35	180	502	801	1194	7273
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	20	49	147	103	18	0	0	0	337
RH	NORMAL (PERCENT)	30	74	72	69	65	67	72	72	75	78	74	76	78	73
	HOUR 01 LST	30	77	76	74	71	74	81	81	84	86	80	80	81	79
	HOUR 07 LST	30	78	78	78	75	78	83	84	89	91	85	83	82	82
	HOUR 13 LST	30	69	66	62	56	56	60	58	61	64	63	70	73	63
	HOUR 19 LST	30	72	70	66	60	61	66	66	70	74	69	74	77	69
S	PERCENT POSSIBLE SUNSHINE	48	37	42	46	50	55	61	64	61	55	49	32	29	48
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY≤1/4 MI)	49	3.8	3.4	5.2	3.9	3.6	4.3	4.4	5.3	5.4	4.1	4.3	4.4	52.1
	THUNDERSTORMS	49	0.1	0.1	1.0	2.0	3.6	6.4	6.4	5.1	2.7	1.1	0.3	0.1	28.9
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	1			8.0			6.4							8.8
	MIDNIGHT-MIDNIGHT (OKTAS)	1			8.0										
	MEAN NO. DAYS WITH:														
	CLEAR	1			0.5		0.2	0.5							
PARTLY CLOUDY	1	0.2	0.2	0.4		1.0	0.6								
CLOUDY	1	0.5	0.7	1.3		0.8	1.0								
PR	MEAN STATION PRESSURE (IN)	27	28.20	28.21	28.20	28.20	28.30	28.29	28.30	28.30	28.38	28.30	28.30	28.29	28.27
	MEAN SEA-LEVEL PRES. (IN)	15	30.05	30.05	30.03	29.96	29.97	29.97	30.01	30.06	30.07	30.09	30.08	30.06	30.03
WINDS	MEAN SPEED (MPH)	39	10.9	10.7	11.1	10.9	9.5	8.9	8.2	7.9	8.7	9.4	10.5	10.6	9.8
	PREVAIL.DIR(TENS OF DEGS)	23	30	30	30	32	32	22	23	22	18	18	30	30	32
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	40	41	34	31	33	30	32	28	31	29	41	33	41
	DIR. (TENS OF DEGS)		27	25	29	30	28	21	26	27	33	07	27	27	27
	YEAR OF OCCURRENCE		1999	1997	1997	1999	1997	1998	1999	1999	1999	1996	1997	1996	NOV 1997
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	4	49	51	44	40	53	43	43	39	41	39	51	45	53
DIR. (TENS OF DEGS)		27	24	26	14	20	23	27	33	30	30	27	31	20	
YEAR OF OCCURRENCE		1999	1997	1996	1996	1998	1996	1999	1997	1997	1999	1997	1999	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	2.40	2.33	2.82	3.13	3.36	3.60	3.50	3.36	3.32	2.89	3.28	3.00	36.99
	MAXIMUM MONTHLY (IN)	48	6.39	4.48	6.00	8.57	6.46	9.46	7.40	7.48	9.66	9.43	7.52	6.11	9.66
	YEAR OF OCCURRENCE		1979	1998	1980	1983	1968	1960	1956	1959	1977	1955	1972	1983	SEP 1977
	MINIMUM MONTHLY (IN)	48	0.76	0.51	0.69	0.98	0.78	0.98	0.83	0.61	0.61	0.26	1.01	0.94	0.26
	YEAR OF OCCURRENCE		1970	1968	1981	1985	1962	1979	1955	1953	1961	1963	1960	1960	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	48	1.80	2.16	1.95	2.86	3.58	3.19	3.24	3.29	3.57	3.88	2.66	2.81	3.88
	YEAR OF OCCURRENCE		1958	1966	1964	1980	1992	1972	1976	1988	1985	1955	1972	1983	OCT 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	15.9	14.1	15.2	13.3	13.4	12.8	10.6	10.9	10.2	11.7	15.2	17.5	160.8	
PRECIPITATION ≥ 1.00	30	0.3	0.2	0.3	0.4	0.3	0.6	0.8	0.7	0.7	0.6	0.4	0.3	5.6	
SNOWFALL	NORMAL (IN)	30	19.6	15.9	12.1	4.6	0.4	0.0	0.0	0.0	T	0.4	7.5	18.8	79.3
	MAXIMUM MONTHLY (IN)	48	43.6	44.3	37.9	22.9	3.4	T	0.0	0.0	T	11.6	24.4	59.6	59.6
	YEAR OF OCCURRENCE		1987	1972	1993	1983	1966	1993			1993	1993	1954	1969	DEC 1969
	MAXIMUM IN 24 HOURS (IN)	48	18.4	23.0	19.1	11.5	3.4	T	0.0	0.0	T	6.8	11.2	15.6	23.0
	YEAR OF OCCURRENCE		1964	1961	1993	1960	1966	1993			1993	1993	1993	1969	FEB 1961
	MAXIMUM SNOW DEPTH (IN)	51	32	28	35	9	2	0	0	0	0	3	30	33	35
	YEAR OF OCCURRENCE		1994	1961	1993	1983	1966					1993	1950	1969	MAR 1993
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	5.4	4.6	3.2	1.1	0.2	0.0	0.0	0.0	0.0	0.1	2.4	5.6	22.6	

PRECIPITATION (inches) 1999 BINGHAMTON, NY (BGM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.76	2.22	2.41	3.58	3.03	1.15	4.50	3.97	3.85	2.07	2.45	3.58	33.57
1971	1.68	4.36	2.77	2.02	3.31	1.73	4.60	2.10	1.66	1.89	3.17	4.16	33.45
1972	1.29	3.74	3.79	2.83	5.17	9.18	1.68	3.79	2.03	2.17	7.52	4.85	48.04
1973	1.60	1.95	2.01	3.74	3.29	2.93	1.93	2.40	3.12	2.72	1.85	5.81	33.35
1974	2.20	1.70	4.05	2.02	3.19	3.48	4.23	1.69	2.98	0.98	3.51	3.05	33.08
1975	2.55	3.97	2.16	1.77	4.42	2.90	6.13	5.33	8.41	3.48	2.49	3.22	46.83
1976	3.69	2.88	2.78	2.69	2.53	4.42	6.40	6.79	3.85	6.30	1.12	1.71	45.16
1977	1.68	1.54	5.11	2.73	1.72	3.17	3.27	2.95	9.66	4.76	5.10	4.84	46.53
1978	6.06	1.26	2.36	1.92	2.55	3.85	2.54	4.61	1.16	3.57	1.29	3.16	34.33
1979	6.39	1.67	2.73	3.13	4.26	0.98	1.45	2.44	5.70	2.46	3.70	1.83	36.74
1980	1.08	1.08	6.00	5.48	1.54	5.68	2.09	1.58	2.81	2.86	2.96	1.60	34.76
1981	0.89	3.88	0.69	3.18	1.94	3.42	1.99	1.99	3.40	4.72	1.67	2.49	30.26
1982	3.40	2.26	2.61	2.29	3.89	7.09	1.87	2.94	1.86	0.93	4.04	1.90	35.08
1983	2.56	1.50	2.57	8.57	4.05	4.08	2.20	3.21	1.53	2.61	3.58	6.11	42.57
1984	1.59	3.34	2.19	5.07	6.09	2.65	5.44	3.07	1.92	1.58	3.55	3.15	39.64
1985	1.30	1.30	3.63	0.98	2.69	2.61	4.14	2.72	4.76	2.47	4.63	2.19	33.42
1986	2.13	4.00	3.01	2.99	3.22	4.80	7.36	3.01	3.27	2.45	5.75	2.48	44.47
1987	3.04	0.67	1.91	4.20	1.29	3.82	4.35	4.17	4.54	2.66	1.79	2.18	34.62
1988	1.57	3.77	1.61	2.76	3.89	1.05	4.94	5.22	2.05	2.58	2.93	1.19	33.56
1989	1.50	1.95	4.15	1.37	5.82	5.89	3.48	3.40	4.29	3.35	1.95	1.61	38.76
1990	3.33	3.23	1.72	3.11	5.00	2.50	3.07	5.57	2.83	7.19	3.20	5.22	45.97
1991	2.11	2.13	3.42	4.22	1.90	2.36	1.96	3.78	2.61	1.65	4.50	2.74	33.38
1992	1.68	1.95	3.29	3.51	6.37	1.30	6.32	2.87	3.52	3.47	3.78	2.97	41.03
1993	2.11	2.71	3.68	7.10	1.99	3.99	2.30	4.28	3.92	3.41	3.59	3.30	42.38
1994	3.46	1.81	5.06	2.81	2.76	6.51	4.78	5.86	2.49	0.90	2.63	3.01	42.08
1995	2.71	2.27	1.12	2.87	1.76	1.71	2.10	3.00	3.53	6.68	3.66	1.79	33.20
1996	3.81	1.57	1.88	6.16	3.84	5.80	4.14	2.96	4.87	3.34	4.53	6.10	49.00
1997	1.15	1.92	3.77	1.54	3.55	2.97	1.56	3.36	2.87	1.13	4.84	2.81	31.47
1998	3.11	4.48	3.28	4.54	5.98	5.24	2.37	1.56	2.59	3.08	1.43	1.59	39.25
1999	4.75	1.55	2.57	2.53	1.53	3.28	2.27	1.40	6.98	1.15	2.92	1.65	32.58
POR= 48 YRS	2.49	2.35	2.86	3.33	3.36	3.64	3.43	3.41	3.30	2.93	3.13	2.82	37.05

WBAN : 04725

AVERAGE TEMPERATURE (°F) 1999 BINGHAMTON, NY (BGM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	16.5	25.0	28.9	45.0	57.0	62.8	67.9	67.2	60.6	50.9	39.2	24.2	45.4
1971	15.6	23.6	28.4	40.7	54.3	66.3	65.9	64.1	62.8	55.4	35.8	30.9	45.3
1972	24.7	20.6	28.2	40.4	58.8	62.2	71.5	65.8	59.9	42.9	33.6	29.4	44.8
1973	25.8	20.1	40.0	45.4	51.5	66.3	70.2	69.7	59.7	52.6	39.8	29.0	47.5
1974	27.3	22.2	32.1	48.7	52.5	63.2	69.7	68.7	56.9	44.9	37.3	27.9	46.0
1975	24.9	24.5	27.2	37.0	62.0	66.5	72.8	67.4	56.5	51.4	44.6	26.3	46.8
1976	16.9	30.3	35.5	47.0	52.8	67.0	65.7	65.5	57.3	43.7	31.1	20.3	44.4
1977	12.0	24.1	38.0	47.4	59.0	61.8	70.0	66.5	60.3	46.7	40.2	24.6	45.9
1978	19.1	15.0	27.6	41.5	58.6	63.7	68.4	69.5	58.3	47.6	39.2	27.9	44.7
1979	21.2	13.6	37.9	42.5	55.0	62.1	69.0	65.7	58.7	48.4	42.6	31.2	45.7
1980	23.5	20.2	31.8	46.5	58.8	62.0	70.4	70.6	62.2	44.9	33.7	21.4	45.5
1981	15.3	30.7	32.3	47.5	57.3	65.2	69.4	67.8	58.4	46.3	38.2	26.5	46.2
1982	14.9	24.4	32.3	42.2	59.7	62.1	70.0	64.4	61.0	50.6	42.1	34.4	46.5
1983	24.7	28.0	35.9	43.2	53.4	66.8	72.3	70.9	63.7	50.6	39.7	23.8	47.8
1984	19.7	33.1	25.9	45.2	53.0	66.4	68.3	70.0	58.1	54.0	38.3	34.2	47.2
1985	18.9	26.1	35.3	49.1	58.9	61.2	68.8	67.4	61.3	50.0	39.9	22.4	46.6
1986	22.7	21.6	35.9	47.3	59.9	62.4	68.5	66.1	60.8	49.3	35.4	31.1	46.8
1987	23.3	23.0	38.5	48.7	57.8	66.4	71.1	66.1	59.1	45.2	39.0	29.4	47.3
1988	20.2	23.0	33.2	43.5	57.7	63.0	73.5	69.8	57.2	43.0	40.1	25.1	45.8
1989	27.2	21.9	31.9	41.5	55.4	65.1	68.6	65.7	59.2	50.5	35.7	14.0	44.7
1990	31.5	28.6	36.7	47.3	52.8	64.4	68.1	66.5	57.9	51.6	40.7	32.0	48.2
1991	23.4	28.4	36.0	49.2	61.8	66.7	70.1	69.2	59.0	51.4	39.2	30.2	48.7
1992	25.7	26.2	30.1	43.4	55.4	62.7	65.6	64.0	58.4	44.3	36.9	28.1	45.1
1993	25.6	18.0	28.5	44.8	56.8	62.9	69.7	68.3	57.3	46.3	37.0	25.4	45.1
1994	13.7	19.9	30.8	47.0	53.1	66.5	70.9	64.7	58.5	48.8	42.1	32.4	45.7
1995	28.5	20.8	36.6	41.3	55.6	67.2	72.2	71.6	58.4	53.8	32.0	21.4	46.6
1996	20.1	22.5	28.5	41.4	52.6	65.6	65.8	67.2	59.5	48.5	32.9	31.2	44.7
1997	21.0	28.4	31.9	41.9	50.1	64.8	67.3	65.0	57.8	47.5	34.0	28.0	44.8
1998	30.8	31.1	36.4	46.2	61.2	63.0	67.7	68.8	62.8	49.2	39.1	33.1	49.1
1999	22.7	27.9	30.3	45.0	59.0	66.2	71.7	65.6	62.3	47.0	40.7	29.6	47.3
POR= 48 YRS	21.4	23.7	32.0	44.5	55.8	64.4	69.1	67.2	59.8	48.9	38.1	26.8	46.0

HEATING DEGREE DAYS (base 65°F) 1999 BINGHAMTON, NY (BGM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	20	31	179	431	769	1258	1525	1154	1130	723	339	56	7615
1971-72	45	85	144	296	872	1050	1243	1280	1133	732	205	116	7201
1972-73	19	56	173	680	937	1097	1210	1250	770	584	411	47	7234
1973-74	5	27	200	374	749	1109	1160	1192	1016	495	384	90	6801
1974-75	14	5	251	615	825	1144	1237	1127	1164	833	147	65	7427
1975-76	0	39	250	415	604	1192	1487	999	910	554	374	50	6874
1976-77	31	62	241	653	1013	1382	1636	1137	831	537	237	130	7890
1977-78	15	61	166	560	736	1246	1415	1392	1150	699	248	100	7788
1978-79	53	7	208	533	765	1143	1351	1437	832	667	325	127	7448
1979-80	37	73	204	522	669	1040	1278	1294	1022	548	214	144	7045
1980-81	7	11	143	617	929	1349	1537	951	1006	522	266	56	7394
1981-82	19	21	215	573	799	1185	1549	1135	1006	679	178	102	7461
1982-83	19	72	147	439	685	944	1241	1031	897	649	356	68	6548
1983-84	10	13	130	447	750	1271	1399	917	1205	588	373	65	7168
1984-85	19	19	222	341	795	947	1424	1083	914	488	213	129	6594
1985-86	13	31	169	458	747	1315	1304	1209	897	522	191	116	6972
1986-87	29	58	154	480	880	1041	1284	1168	816	486	260	52	6708
1987-88	14	59	185	606	773	1095	1384	1212	981	640	246	142	7337
1988-89	18	45	232	674	739	1231	1164	1199	1019	698	322	69	7410
1989-90	9	62	201	446	875	1576	1031	1013	873	549	373	74	7082
1990-91	35	34	225	415	721	1018	1282	1018	893	483	180	54	6358
1991-92	3	10	220	417	767	1071	1213	1116	1077	638	302	104	6938
1992-93	34	77	215	634	837	1136	1214	1311	1126	599	257	108	7548
1993-94	11	27	249	576	834	1223	1584	1254	1054	534	379	65	7790
1994-95	2	76	199	496	681	1003	1124	1232	875	706	286	45	6725
1995-96	14	6	215	342	983	1341	1384	1226	1126	698	407	44	7786
1996-97	43	16	194	506	955	1040	1360	1017	1017	689	454	73	7364
1997-98	34	53	219	535	922	1139	1052	942	893	554	151	140	6634
1998-99	17	26	120	483	772	982	1304	1033	1069	592	195	67	6660
1999-	11	48	146	551	724	1090							

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COOLING DEGREE DAYS (base 65°F) 1999 BINGHAMTON, NY (BGM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	7	22	66	117	109	52	0	0	0	373
1971	0	0	0	0	13	101	82	61	84	5	0	0	346
1972	0	0	0	0	19	36	228	90	27	0	0	0	400
1973	0	0	0	4	0	92	175	180	50	0	0	0	501
1974	0	0	0	12	5	42	168	128	17	0	0	0	372
1975	0	0	0	0	59	119	251	121	1	1	0	0	552
1976	0	0	0	21	3	119	61	82	15	0	0	0	301
1977	0	0	3	14	56	39	174	115	33	0	0	0	434
1978	0	0	0	0	58	68	165	154	14	0	0	0	459
1979	0	0	0	0	23	47	167	98	22	14	0	0	371
1980	0	0	0	0	30	61	183	191	66	1	0	0	532
1981	0	0	0	4	30	68	161	115	22	0	0	0	400
1982	0	0	0	0	20	23	179	60	35	0	8	0	325
1983	0	0	0	1	0	129	240	205	98	7	0	0	680
1984	0	0	0	0	9	111	128	182	21	4	0	0	455
1985	0	0	0	17	31	21	138	116	67	0	0	0	390
1986	0	0	2	0	43	44	144	98	35	0	0	0	366
1987	0	0	0	2	44	101	213	101	15	0	0	0	476
1988	0	0	0	0	26	89	288	201	7	1	0	0	612
1989	0	0	0	0	30	76	128	89	36	3	0	0	362
1990	0	0	2	25	2	60	138	85	21	5	0	0	338
1991	0	0	0	12	86	110	169	149	47	5	0	0	578
1992	0	0	0	0	12	42	59	54	26	0	0	0	193
1993	0	0	0	0	9	54	165	136	25	1	0	0	390
1994	0	0	0	3	15	120	195	75	12	0	0	0	420
1995	0	0	0	0	1	118	244	218	23	2	0	0	606
1996	0	0	0	0	28	72	72	88	34	0	0	0	294
1997	0	0	0	0	1	75	110	61	10	2	0	0	259
1998	0	0	13	0	38	86	109	150	62	0	0	0	458
1999	0	0	0	0	16	111	223	74	70	0	0	0	494

SNOWFALL (inches) 1999 BINGHAMTON, NY (BGM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	T	0.4	1.1	36.9	17.2	18.7	33.5	0.8	T	0.0	108.6
1971-72	0.0	0.0	0.0	0.0	17.9	8.1	11.0	44.3	17.5	7.4	0.0	0.0	106.2
1972-73	0.0	0.0	0.0	2.6	16.1	21.5	6.8	11.8	2.5	4.6	1.8	0.0	67.7
1973-74	0.0	0.0	0.0	T	1.7	26.9	10.7	14.2	21.2	10.1	T	0.0	84.8
1974-75	0.0	0.0	0.0	0.5	7.5	13.7	15.7	16.2	9.1	4.4	0.0	0.0	67.1
1975-76	0.0	0.0	0.0	T	4.2	18.3	29.7	10.7	11.6	1.8	T	0.0	76.3
1976-77	0.0	0.0	0.0	0.1	10.4	12.3	22.8	10.7	15.5	0.5	2.1	0.0	74.4
1977-78	0.0	0.0	0.0	T	13.5	31.8	41.0	17.5	10.1	1.4	T	0.0	115.3
1978-79	0.0	0.0	0.0	T	6.2	24.4	26.3	11.0	2.1	7.3	0.0	0.0	77.3
1979-80	0.0	0.0	0.0	0.1	1.5	16.7	7.0	13.2	17.9	0.4	0.0	0.0	56.8
1980-81	0.0	0.0	0.0	0.5	13.9	12.9	16.1	8.8	7.1	T	0.0	0.0	59.3
1981-82	0.0	0.0	0.0	T	4.0	22.6	15.8	12.0	15.5	11.7	0.0	0.0	81.6
1982-83	0.0	0.0	0.0	0.5	3.2	13.3	23.2	8.6	9.1	22.9	0.2	0.0	81.0
1983-84	0.0	0.0	0.0	T	10.6	7.1	18.6	9.7	24.9	T	T	0.0	70.9
1984-85	0.0	0.0	0.0	0.0	6.8	10.5	23.5	10.5	9.7	1.5	0.0	0.0	62.5
1985-86	0.0	0.0	0.0	0.0	1.3	19.9	20.1	24.7	4.1	4.9	T	0.0	75.0
1986-87	0.0	0.0	0.0	0.0	13.4	9.3	43.6	9.2	2.9	0.4	0.0	0.0	78.8
1987-88	0.0	0.0	0.0	T	6.0	18.9	17.4	27.3	9.0	3.0	0.0	0.0	81.6
1988-89	0.0	0.0	0.0	4.9	0.6	8.8	9.5	12.6	5.8	4.2	1.4	0.0	47.8
1989-90	0.0	0.0	T	0.1	7.3	21.4	22.5	9.0	10.9	3.6	T	0.0	74.8
1990-91	0.0	0.0	0.0	0.3	7.2	14.5	15.0	16.1	9.9	4.0	T	0.0	67.0
1991-92	0.0	0.0	0.0	T	3.9	12.2	12.6	12.8	14.1	0.4	T	0.0	56.0
1992-93	0.0	0.0	T	1.9	4.4	18.8	11.9	31.6	37.9	16.2	0.0	T	122.7
1993-94	0.0	0.0	T	11.6	5.7	22.9	39.5	22.8	27.8	1.0	T	0.0	131.3
1994-95	0.0	0.0	0.0	T	6.4	4.0	11.7	18.3	7.0	5.4	0.0	0.0	52.8
1995-96	0.0	0.0	0.0	T	33.9	32.7	28.3	8.3	18.5	11.7	0.1	0.0	133.5
1996-97	0.0	0.0	0.0	T	15.0	18.2	25.2	17.5	16.0	1.1	T	0.0	93.0
1997-98	0.0	0.0	0.0	T	11.3	34.3	8.7	20.5	17.2	T	T	0.0	92.0
1998-99	0.0	0.0	0.0	0.0	0.6	6.2	24.8	8.4	33.8	1.7	0.0	0.0	75.5
1999-	0.0	0.0	0.0	T	4.0	6.9							
POR= 48 YRS	0.0	0.0	T	0.7	7.9	17.9	19.6	16.9	14.5	4.8	0.6	T	82.9

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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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1999  
BINGHAMTON,  
NEW YORK (BGM)

Binghamton, in south central New York lies in a comparatively narrow valley at the confluence of the Susquehanna and Chenango Rivers. Within a radius of 5 miles, hills rise to elevations of 1,400-1,600 feet above mean sea level. In the spring, melting snow, sometimes supplemented by rainfall, occasionally causes flooding in the city and along the streams. Less frequently, heavy rains in the warmer months produce some flooding.

The climate of Binghamton is representative of the humid area of the north-eastern United States and is primarily continental in type. The area, being adjacent to the so-called St. Lawrence Valley storm track, and also subject to cold air masses approaching from the west and north, has a variable climate, characterized by frequent and rapid changes. Furthermore, diurnal and seasonal changes assist in the production of an invigorating climate. In the warmer months, it is seldom that either high temperatures or humidity become depressing to humans. As a rule, the temperature rises rapidly to moderate daytime levels with readings of 90 degrees or above only a few days in any month. Summer nights are sufficiently cool to provide favorable sleeping conditions and relief from the heat of the day.

Winters are usually cold, but not commonly severe. Highest daytime temperatures average in the high 20s to low 30s, while the lowest nighttime readings average from the mid-teens to low 20s. Ordinarily a few sub-zero readings may be expected in January and February, with a lesser number in November, December, and March. The transitional seasons, spring and autumn, are the most variable of the year.

Most of the precipitation in the Binghamton area derives from moisture laden air transported from the Gulf of Mexico and cyclonic systems moving northward along the Atlantic coast. The annual rainfall is rather evenly distributed over the year. However, the greatest average monthly amounts occur during the growing season, April through September. As a rule, rainfall is ample for good crop growth and comes mostly in the form of thunderstorms. Ordinarily, the requirements for water supplies are adequately met by the precipitation that is received. Annual snowfall is around 50 inches in Binghamton and above 85 inches at Edwin A. Link Field, some 10 miles to the NNW, and about 700 feet higher in elevation. Most of the snow falls during the normal winter months. However, heavy snows can occur as early as November and as late as April. Being adjacent to the track of storms that move through the St. Lawrence Valley, and being under the influence of winds that sweep across Lakes Erie and Ontario to the interior of the state, the area is subject to much cloudiness and winter snow flurries.

Furthermore, the combination of a valley location and surrounding hills produces numerous advection fogs which also reduce the amount of sunshine received.

For the most part, the winds at Binghamton have northerly and westerly components. Tornadoes, although rare, have struck in the Binghamton area.

The growing season averages 150 to 160 days. Usually the last spring frost occurs during early May, and the first frost in autumn during early October.

# STATION LOCATION

BINGHAMTON, NEW YORK

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUGUST 1945 TO PRESENT	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND												
							WIND POSITION	WIND DIRECTION	WIND SPEED	WIND VARIATION	WIND PERIOD	WIND CHARACTER	WIND DIRECTION	WIND SPEED	WIND VARIATION				WIND PERIOD
<u>COOPERATIVE</u>																			
Binghamton State Hosp., 425 Robinson Street	7/1/90	10/1/96	NA														No instrument record.		
<u>CITY</u>																			
Post Office Wall & Henry Streets	10/1/96	7/22/13	2.25 mi. SW	42° 06'	75° 55'	875	88	78	78		71		71				First Order Weather Bureau Office established.		
Post Office Wall & Henry Streets	7/23/13	4/7/19	NA	42° 06'	75° 55'	875	70	10	10		3		3						
Post Office Wall & Henry Streets	4/8/19	7/6/32	NA	42° 06'	75° 55'	875	84	10	10		3		3						
Post Office Wall & Henry Streets	7/7/32	9/30/35	300 ft. N	42° 06'	75° 55'	841	68	60	60		53		53						
Post Office Washington & Henry Sts.	10/1/35	5/31/51	1300 ft. E	42° 06'	75° 55'	858	79	56	56		49		49				Instruments moved to new quarters in Post Office Building. CAA operation.		
<u>COOPERATIVE</u>																			
Post Office Washington & Henry Sts.	6/1/51	8/31/68	NA	42° 06'	75° 55'	858		56					49				Change of status from CAA to WB.		
<u>AIRPORT</u>																			
Tri-Cities Airport Endicott, New York	5/19/41	12/4/42	NA	42° 05'	76° 06'	828	43		4				3				WBO & WBAS consolidated at Broome County Airport. Wind instruments on tower cab; other instruments on plot 135 feet N of office.		
Tri-Cities Airport Endicott, New York	12/5/42	5/24/51	NA	42° 05'	76° 06'	828	43	4	4				3				a - Commissioned 6/1/51. Instruments moved to plot 750' SE of office.		
Broome County Airport Binghamton, New York	5/24/51	1/21/58	11 mi. NE	42° 13'	75° 59'	1601	76	4	4	NA a76	3	3	3	NA	NA		b - Dew cell (30') 1/21/58-11/2/60 On radar tower 25' N of office. Hygro. comm. 11/2/60 on instrument plot 750' SE of office.		
Terminal Building Broome County Airport Binghamton, New York	1/21/58	11/01/95	No Change	42° 13'	75° 59'	1590	22	4 c	NA d25	76 f30	3	4 e5	NA d3 e3	b	NA		c - Removed 11/2/60. d - Installed 11/2/60. e - Moved 800' NNW of instrument plot to a site 21' E of terminal building 7/1/63. f - Effective 7/12/80.		
Broome County Airport	11/01/95	Present	NA	42°12'	75°59'	1615										S	ASOS Commissioned 11/01/95		

SUBSCRIPTION: Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801. INQUIRIES/COMMENTS CALL: (828) 271-4800

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