

# 1999

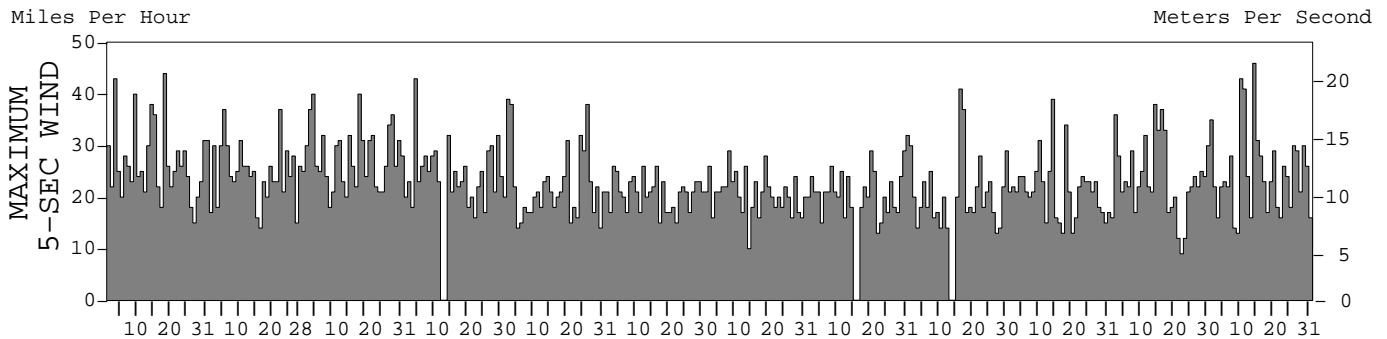
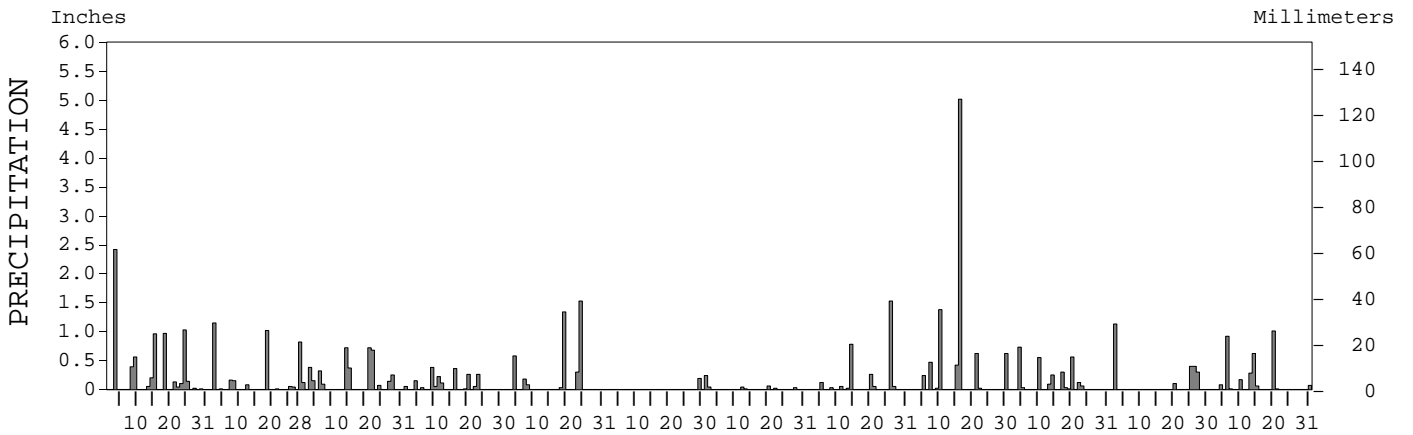
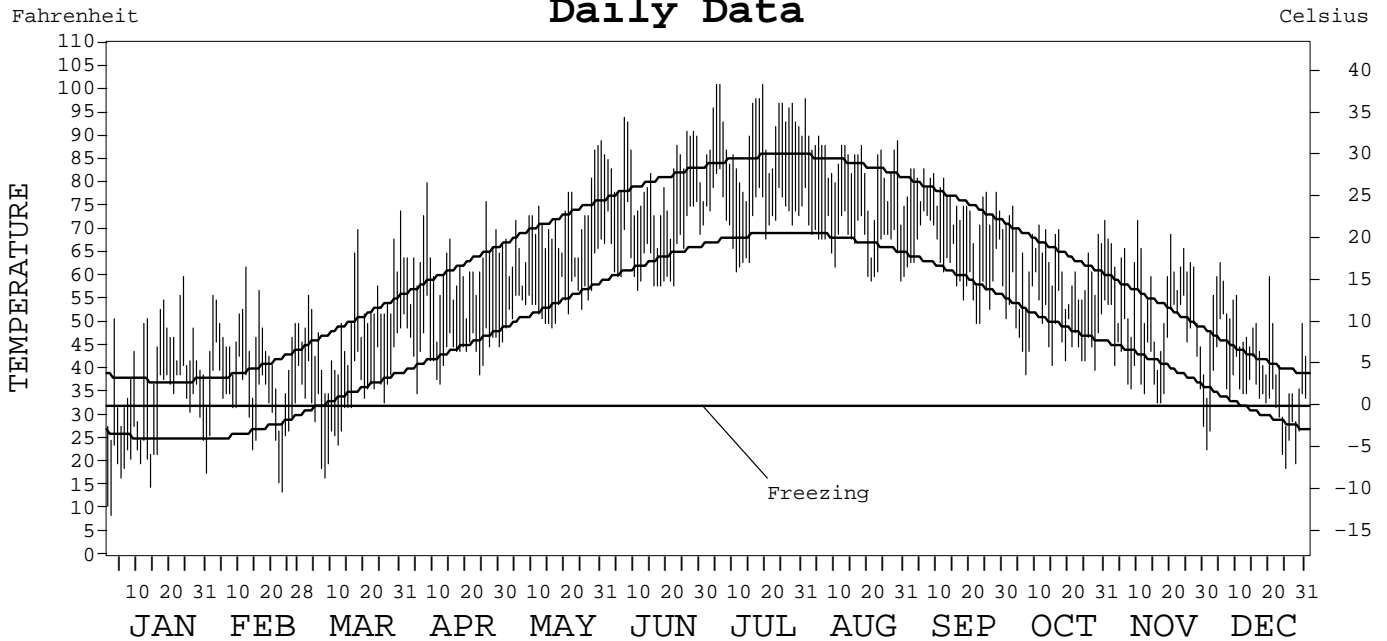
## LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-3598

NEW YORK, CENTRAL PARK,  
NEW YORK (NYC)

### Daily Data



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# METEOROLOGICAL DATA FOR 1999

## NEW YORK C.PARK, NY (NYC)

LATITUDE: 40° 47' 0 " N      LONGITUDE: 73° 58' 0 " W      ELEVATION (FT): GRND: 158      BARO: 158      TIME ZONE: EASTERN (UTC + 5)      WBAN: 94728

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	40.8	45.3	50.6	62.3	71.1	81.3	90.2	83.4	75.8	63.4	57.2	45.7	63.9
	HIGHEST DAILY MAXIMUM	60	62	74	80	89	94	101	98	83	75	72	63	101
	DATE OF OCCURRENCE	24	12	31	08	31	07	19+	01	06+	03	10	05	JUL 19+
	MEAN DAILY MINIMUM	27.0	32.4	34.4	44.7	55.0	65.1	72.6	67.6	62.3	48.6	44.3	34.2	49.0
	LOWEST DAILY MINIMUM	9	14	17	35	46	57	61	59	50	39	28	19	9
	DATE OF OCCURRENCE	02	23	08	05	01	11	11	30+	23+	07	30	25	JAN 02
	AVERAGE DRY BULB	33.9	38.9	42.5	53.5	63.1	73.2	81.4	75.5	69.1	56.0	50.8	40.0	56.5
	MEAN WET BULB					55.3		69.6	66.7		51.1			
	MEAN DEW POINT					48.8		63.0	61.5		46.0			
	NUMBER OF DAYS WITH:													
	MAXIMUM ≥ 90°	0	0	0	0	0	6	18	3	0	0	0	0	27
MAXIMUM ≤ 32°	9	2	0	0	0	0	0	0	0	0	0	3	14	
MINIMUM ≤ 32°	20	13	11	0	0	0	0	0	0	0	1	10	55	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	955	725	687	340	98	4	0	3	23	271	418	769	4293
	COOLING DEGREE DAYS	0	0	0	3	46	258	517	336	151	3	0	0	1314
RH	MEAN (PERCENT)	63	66	61	57	64	67	57	66	76	71	65	61	64
	HOUR 01 LST	64	67	64	63	69	75	66	73	82	76	68	63	69
	HOUR 07 LST	69	70	71	62	71	76	63	76	85	81	73	68	72
	HOUR 13 LST	59	58	52	47	55	53	48	52	65	58	58	56	55
	HOUR 19 LST	60	64	55	54	62	62	55	64	74	68	62	60	62
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	1	1	0	3	1	0	3	3	1	4	0	20
	THUNDERSTORMS	0	0	0	0	0	0	0	0	0	0	0	0	0
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.)	30.07	29.95	29.86	29.85	29.94	29.97	29.86	29.86		30.03			
	MEAN SEA-LEVEL PRESS. (IN.)	30.14		29.93		30.00			29.92		30.10			
WINDS	RESULTANT SPEED (MPH)	1.8	2.4	3.5		0.3	1.0	0.7			1.1			
	RES. DIR. (TENS OF DEGS.)	34	36	32		34	09	14			30			
	MEAN SPEED (MPH)	8.2	7.5	9.3		6.0	6.3	5.6			6.1	7.4	7.9	
	PREVAIL. DIR. (TENS OF DEGS.)	30	32	32	36	08	08	30	36	08	27	32	30	30
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	31	24	28		29	20	21	23	29	28	24	31	
	DIR. (TENS OF DEGS.)	30	32	07		08	08	25	08	09	33	32	08	
	DATE OF OCCURRENCE	18	05	27		03	16+	19	31	16	14	16	14	
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	44	37	40		39	26	29	32	41	39	38	46	
DIR. (TENS OF DEGS.)	29	07	31		08	07	34	08	09	32	35	07		
DATE OF OCCURRENCE	18	22+	18+		02	16+	08	31	16	14	14	14		
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	7.02	3.49	4.01	1.93	4.04	0.19	0.44	2.89	8.81	2.73	2.33	3.23	41.11
	GREATEST 24-HOUR (IN.)	2.42	1.15	1.40	0.38	1.53	0.19	0.24	1.56	5.02	0.76	1.13	1.02	5.02
	DATE OF OCCURRENCE	03	02	21-22	09	24	29	01	26-27	16	04-05	02	20-21	SEP 16
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	14	10	12	12	7	1	7	9	9	11	5	10	107
PRECIPITATION ≥ 0.10	10	5	10	7	5	1	1	4	7	6	5	5	66	
PRECIPITATION ≥ 1.00	2	2	0	0	2	0	0	1	2	0	1	1	11	
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	4.5	1.7	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	10.7
	GREATEST 24-HOUR (IN.)	2.5	1.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	4.0
	DATE OF OCCURRENCE	08	25	15									29+	MAR 15
	MAXIMUM SNOW DEPTH (IN.)													
	DATE OF OCCURRENCE													
NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	2	1	1	0	0	0	0	0	0	0	0	0	4	

# NORMALS, MEANS, AND EXTREMES

## NEW YORK C.PARK, NY (NYC)

LATITUDE: 40° 47' 0 " N      LONGITUDE: 73° 58' 0 " W      ELEVATION (FT): GRND: 158      BARO: 158      TIME ZONE: EASTERN (UTC + 5)      WBAN: 94728

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.6	40.3	50.0	61.2	71.7	80.1	85.2	83.7	76.2	65.3	54.0	42.5	62.3
	MEAN DAILY MAXIMUM	37	38.4	41.0	49.9	61.5	71.8	80.2	85.4	83.7	76.1	65.1	54.0	43.1	62.5
	HIGHEST DAILY MAXIMUM	131	72	75	86	96	99	101	106	104	102	94	84	75	106
	YEAR OF OCCURRENCE		1950	1985	1998	1976	1962	1966	1936	1918	1953	1941	1950	1998	JUL 1936
	MEAN OF EXTREME MAXS.	37	58.0	59.5	71.3	81.8	88.7	93.0	96.3	93.3	89.8	79.4	71.3	61.8	78.7
	NORMAL DAILY MINIMUM	30	25.3	26.9	34.8	43.8	53.7	63.0	68.4	67.3	60.1	49.7	41.1	30.7	47.1
	MEAN DAILY MINIMUM	37	25.9	27.3	34.7	43.9	53.8	63.1	68.6	67.4	60.2	49.6	41.0	31.3	47.2
	LOWEST DAILY MINIMUM	131	-6	-15	3	12	32	44	52	50	39	28	5	-13	-15
	YEAR OF OCCURRENCE		1882	1934	1872	1923	1891	1945	1943	1986	1912	1936	1875	1917	FEB 1934
	MEAN OF EXTREME MINS.	37	7.9	10.6	18.7	31.0	42.6	52.4	59.6	57.5	47.3	36.6	27.0	14.9	33.8
	NORMAL DRY BULB	30	31.5	33.6	42.4	52.5	62.7	71.6	76.8	75.5	68.2	57.5	47.6	36.6	54.7
	MEAN DRY BULB	37	32.1	34.1	42.3	52.7	62.7	71.6	77.0	75.6	68.1	57.4	47.5	37.2	54.9
	MEAN WET BULB	3	27.4	33.4	35.1	44.3	54.3	63.6	67.8	67.6	60.3	51.0	39.1	33.4	48.1
	MEAN DEW POINT	3	19.6	24.8	25.8	35.0	47.5	57.9	62.7	63.3	55.0	45.1	32.7	26.6	41.3
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.2	1.0	3.3	7.3	4.9	1.4	0.0	0.0	0.0	18.1	
MAXIMUM ≤ 32°	30	10.1	5.7	0.9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.8	21.6	
MINIMUM ≤ 32°	30	22.6	19.9	10.8	1.4	0.0	0.0	0.0	0.0	0.0	0.4	3.8	16.8	75.7	
MINIMUM ≤ 0°	30	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*		0.3	
H/C	NORMAL HEATING DEG. DAYS	30	1039	879	701	375	125	0	0	0	34	250	522	880	4805
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	54	203	366	326	130	17	0	0	1096
RH	NORMAL (PERCENT)	30	62	60	58	55	63	65	64	66	68	66	64	64	63
	HOUR 01 LST	30	64	63	62	61	69	72	71	73	75	72	68	67	68
	HOUR 07 LST	30	67	67	66	64	72	74	74	76	78	75	72	69	71
	HOUR 13 LST	30	57	55	52	46	52	55	53	54	56	54	57	58	54
	HOUR 19 LST	30	59	57	56	52	59	61	60	63	65	63	62	62	60
S	PERCENT POSSIBLE SUNSHINE	107	51	55	57	58	61	64	65	64	62	61	52	49	58
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	12	1.3	0.5	0.6	0.0	0.5	0.5	0.3	0.3	0.3	0.2	0.4	0.4	5.3
	THUNDERSTORMS	36	0.2	0.2	0.8	1.1	2.1	3.5	3.9	3.3	1.2	0.7	0.3	0.1	17.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
	CLEAR														
	PARTLY CLOUDY														
	CLOUDY														
PR	MEAN STATION PRESSURE (IN)	14	29.95	29.94	29.89	29.86	29.86	29.90	29.90	29.94	29.94	29.98	29.95	29.95	29.92
	MEAN SEA-LEVEL PRES. (IN)	4	30.09	30.36	29.98	29.89	29.94	29.98	29.96	30.00	29.96	30.07	30.08	30.01	30.03
WINDS	MEAN SPEED (MPH)	5	8.8	8.6	9.1	8.4	7.0	6.4	5.9	5.8	6.6	7.0	7.2	7.4	7.4
	PREVAIL. DIR (TENS OF DEGS)	7	32	32	32	32	05	23	23	23	23	27	32	32	32
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	4	40	34	37	33	29	28	24	33	29	28	30	34	40
	DIR. (TENS OF DEGS)		07	08	08	09	08	08	17	30	09	33	32	07	07
	YEAR OF OCCURRENCE		1996	1998	1996	1998	1999	1998	1996	1997	1999	1999	1997	1997	JAN 1996
	MAXIMUM 5-SECOND:														
SPEED (MPH)	4	53	52	52	51	40	37	41	57	41	46	41	51	57	
DIR. (TENS OF DEGS)		06	07	07	07	30	08	16	31	09	02	31	06	31	
YEAR OF OCCURRENCE		1996	1998	1996	1998	1997	1997	1996	1997	1999	1996	1997	1997	AUG 1997	
PRECIPITATION	NORMAL (IN)	30	3.42	3.27	4.08	4.20	4.42	3.67	4.35	4.01	3.89	3.56	4.47	3.91	47.25
	MAXIMUM MONTHLY (IN)	130	10.52	6.87	10.41	8.77	10.24	9.78	11.89	12.36	16.85	13.31	12.41	9.98	16.85
	YEAR OF OCCURRENCE		1979	1869	1980	1874	1989	1903	1889	1990	1882	1903	1972	1973	SEP 1882
	MINIMUM MONTHLY (IN)	130	0.58	0.46	0.90	0.95	0.30	0.02	0.44	0.18	0.21	0.14	0.34	0.25	0.02
	YEAR OF OCCURRENCE		1981	1895	1885	1881	1903	1949	1999	1995	1884	1963	1976	1955	JUN 1949
	MAXIMUM IN 24 HOURS (IN)	87	3.91	3.04	4.25	4.22	4.88	4.74	4.39	5.78	8.30	11.17	8.09	3.21	11.17
	YEAR OF OCCURRENCE		1979	1973	1876	1984	1968	1884	1997	1971	1882	1903	1977	1909	OCT 1903
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.0	8.7	10.4	10.7	11.2	11.1	9.9	9.6	8.4	7.6	9.9	10.7	118.2	
PRECIPITATION ≥ 1.00	30	0.8	0.9	1.0	1.1	1.1	0.9	1.4	0.9	1.1	1.0	1.2	1.1	12.5	
SNOWFALL	NORMAL (IN)	30	7.5	8.0	3.5	0.5	T	0.0	0.0	0.0	T	0.4	3.2	23.1	
	MAXIMUM MONTHLY (IN)	131	27.4	27.9	30.5	13.5	T	0.0	T	0.0	0.0	0.8	19.0	29.6	30.5
	YEAR OF OCCURRENCE		1925	1934	1896	1875	1995		1990		1925	1898	1947	MAR 1896	
	MAXIMUM IN 24 HOURS (IN)	131	19.2	17.6	18.1	10.2	T	0.0	T	0.0	0.0	0.8	10.0	26.4	26.4
	YEAR OF OCCURRENCE		1996	1983	1941	1915	1995		1990		1925	1898	1947	DEC 1947	
	MAXIMUM SNOW DEPTH (IN)	128	15	22	9	9	0	0	0	0	0	5	7	22	22
	YEAR OF OCCURRENCE		1978	1994	1967	1982						1989	1995	FEB 1994	
	NORMAL NO. DAYS WITH:														
SNOWFALL ≥ 1.0	30	2.4	2.0	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.1	6.9	

PRECIPITATION (inches) 1999 NEW YORK, CENTRAL PARK, NY (NYC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.66	4.52	4.18	3.48	3.34	2.27	2.19	2.47	1.74	2.48	5.14	2.82	35.29
1971	2.67	5.33	3.80	2.95	4.24	2.31	7.20	9.37	7.36	4.14	5.64	1.76	56.77
1972	2.41	5.90	4.55	3.92	8.39	9.30	4.54	1.92	1.33	6.27	12.41	6.09	67.03
1973	4.53	4.55	3.60	8.05	4.51	4.55	5.89	3.08	2.75	3.92	1.82	9.98	57.23
1974	3.80	1.49	5.76	3.83	4.29	3.29	1.33	5.99	8.05	2.59	0.94	6.33	47.69
1975	4.76	3.33	3.32	3.04	3.38	7.58	11.77	3.05	9.32	3.70	4.33	3.63	61.21
1976	5.78	3.13	2.99	2.80	4.77	2.78	1.42	6.52	3.15	5.31	0.34	2.29	41.28
1977	2.25	2.51	7.41	3.75	1.71	3.83	1.60	4.57	4.75	5.03	12.26	5.06	54.73
1978	8.27	1.59	2.73	2.38	9.15	1.69	4.48	5.50	4.06	1.50	2.85	5.61	49.81
1979	10.52	4.58	4.40	4.04	6.23	1.56	1.76	4.27	4.83	3.87	3.38	2.69	52.13
1980	1.72	1.04	10.41	8.26	2.33	3.84	5.26	1.16	1.98	3.86	4.11	0.58	44.55
1981	0.58	6.04	1.19	3.42	3.56	2.71	6.21	0.59	3.45	3.49	1.69	5.18	38.11
1982	6.46	2.37	2.56	5.67	2.43	5.12	3.14	4.66	1.77	2.31	3.44	1.47	41.40
1983													
1984	1.87	4.86	6.30	6.62	9.74	5.76	7.03	1.38	2.51	3.63	4.07	3.26	57.03
1985	1.00	2.41	1.91	1.41	5.72	4.41	4.41	2.58	4.75	1.30	8.09	0.83	38.82
1986	4.23	2.86	1.46	3.93	1.68	1.86	5.56	4.24	2.20	1.92	6.85	6.16	42.95
1987	5.81	1.01	4.93	5.90	1.45	3.94	4.12	4.89	5.25	3.89	3.08	2.17	46.44
1988	3.64	3.91	2.10	2.20	5.27	1.29	8.14	2.19	2.34	3.56	8.90	1.13	44.67
1989	2.29	3.03	4.93	4.26	10.24	8.79	5.13	8.44	6.90	7.48	2.79	0.83	65.11
1990	5.34	2.33	3.64	5.12	9.10	2.50	3.51	12.36	2.24	6.38	2.82	5.58	60.92
1991	3.38	1.93	5.16	3.68	3.11	4.16	4.57	7.13	3.71	2.13	1.96	4.26	45.18
1992	1.68	1.87	4.08	1.76	4.02	4.77	4.49	3.49	4.89	1.16	5.64	5.50	43.35
1993	3.44	2.81	6.64	4.28	1.56	1.49	1.70	5.41	5.25	4.55	2.20	4.95	44.28
1994	5.62	3.44	6.33	2.42	4.26	3.21	3.86	6.33	3.33	1.35	4.34	2.90	47.39
1995	3.75	3.13	1.26	2.29	2.84	2.09	6.13	0.18	3.03	7.82	5.78	2.12	40.42
1996	5.64	2.59	3.81	6.33	2.64	5.71	5.76	1.87	4.97	7.52	2.87	6.48	56.19
1997	3.65	2.54	5.18	2.86	3.05	1.93	8.36	3.21	2.10	2.10	4.68	4.27	43.93
1998	5.20	5.81	5.08	7.05	6.94	5.94	1.09	2.78	3.44	2.76	1.48	1.12	48.69
1999	7.02	3.49	4.01	1.93	4.04	0.19	0.44	2.89	8.81	2.73	2.33	3.23	41.11
POR= 130 YRS	3.50	3.35	3.90	3.55	3.66	3.45	4.19	4.25	3.74	3.50	3.48	3.41	43.98

WBAN : 94728

AVERAGE TEMPERATURE (°F) 1999 NEW YORK, CENTRAL PARK, NY (NYC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	25.1	33.0	38.7	52.1	64.0	70.9	77.1	77.6	70.8	58.9	48.5	34.4	54.3
1971	27.0	35.1	40.1	50.8	61.4	74.2	77.8	75.9	71.6	62.7	45.1	40.8	55.2
1972	35.1	31.4	39.8	50.1	63.3	67.9	77.2	75.6	69.5	53.5	44.4	38.5	53.9
1973	35.5	32.5	46.4	53.4	59.5	73.4	77.4	77.6	69.5	60.2	48.3	39.0	56.1
1974	35.3	31.7	42.1	55.2	61.0	69.0	77.2	76.4	66.7	54.1	48.2	39.4	54.7
1975	37.3	35.8	40.2	47.9	65.8	70.5	75.8	74.4	64.2	59.2	52.3	35.9	54.9
1976	27.4	39.9	44.4	55.0	60.2	73.2	74.8	74.3	66.6	52.9	41.7	29.9	53.4
1977	22.1	33.5	46.8	53.7	65.0	70.2	79.0	75.7	68.2	54.9	47.3	35.7	54.3
1978	28.0	27.2	39.0	51.6	61.5	71.3	74.4	76.0	65.0	54.9	47.8	38.9	53.0
1979	33.6	25.5	46.9	52.6	65.3	69.2	76.9	76.8	70.5	57.3	52.5	41.1	55.7
1980	33.7	31.4	41.2	54.5	65.6	70.3	79.3	80.3	70.8	55.2	44.6	32.5	55.0
1981	26.3	39.3	42.3	56.2	64.8	73.0	78.5	76.0	67.6	54.4	47.7	36.5	55.2
1982	26.1	35.3	42.0	51.2	64.1	68.6	77.9	73.2	68.3	58.5	50.4	42.8	54.9
1983	34.5	36.4	44.0	52.3	60.2	73.4	79.5	77.7	71.8	57.9	48.9	35.2	56.0
1984	29.9	40.6	36.7	51.9	61.6	74.5	74.7	76.7	65.9	61.8	47.3	43.8	55.5
1985	28.8	36.6	45.8	55.5	65.3	68.6	76.2	75.4	70.5	59.5	50.0	34.2	55.5
1986	34.1	32.0	45.1	54.5	66.0	71.6	76.0	73.1	67.9	58.0	45.7	39.0	55.3
1987	32.3	33.2	45.2	53.4	63.6	72.8	78.0	74.2	67.7	53.8	47.7	39.5	55.1
1988	29.5	35.0	43.6	51.2	62.7	71.8	79.3	78.8	67.4	52.8	49.4	35.9	54.8
1989	37.4	34.5	42.4	52.2	62.1	72.0	75.0	74.0	68.1	58.2	45.7	25.9	54.0
1990	41.4	39.8	45.1	53.5	60.2	72.1	76.8	75.3	67.5	61.9	50.4	42.6	57.2
1991	34.9	40.0	44.6	55.7	68.7	74.1	77.7	77.1	67.5	58.4	48.3	39.6	57.2
1992	35.7	36.4	40.0	50.5	61.0	70.3	74.2	73.0	67.2	54.5	46.5	37.9	53.9
1993	36.3	30.8	39.7	53.3	65.7	73.3	80.2	77.2	67.3	56.0	48.8	37.3	55.5
1994	25.6	30.6	40.7	55.6	61.8	75.2	79.4	74.0	67.6	58.0	52.0	42.2	55.2
1995	37.5	31.6	45.0	51.9	61.9	71.8	79.2	78.6	68.3	61.6	43.6	32.4	55.3
1996	30.5	33.8	38.9	52.2	61.1	71.4	73.3	74.5	68.0	56.4	43.0	41.3	53.7
1997	32.2	40.0	41.9	51.7	59.4	70.9	75.8	73.3	67.0	56.7	44.5	38.3	54.3
1998	40.0	40.6	45.4	54.0	64.3	69.2	76.5	76.7	70.2	57.6	48.1	43.2	57.2
1999	33.9	38.9	42.5	53.5	63.1	73.2	81.4	75.5	69.1	56.0	50.8	40.0	56.5
POR= 88 YRS	32.2	33.4	41.3	51.6	62.2	71.1	76.5	74.8	68.0	57.7	46.9	36.2	54.3

HEATING DEGREE DAYS (base 65°F) 1999 NEW YORK, CENTRAL PARK, NY (NYC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	27	210	490	940	1173	830	764	419	135	9	4997
1971-72	0	0	14	106	596	743	920	965	775	445	94	26	4684
1972-73	2	0	25	355	611	812	907	903	572	362	188	2	4739
1973-74	0	0	29	162	493	800	913	925	704	309	165	27	4527
1974-75	1	0	59	333	502	789	852	812	764	507	86	11	4716
1975-76	0	3	62	193	387	898	1163	723	630	360	167	18	4604
1976-77	0	4	44	373	692	1082	1322	877	560	354	100	27	5435
1977-78	0	0	56	307	524	903	1140	1051	797	394	179	13	5364
1978-79	5	0	75	311	510	802	969	1100	554	369	55	14	4764
1979-80	4	4	20	271	373	734	963	969	731	310	67	22	4468
1980-81	0	0	31	305	602	1000	1194	715	698	264	78	3	4890
1981-82	0	0	48	320	513	876	1198	825	707	413	74	36	5010
1982-83	0	5	24	229	446	679	936	793	644	393	161	3	4313
1983-84	0	0	34	249	480	914	1082	698	870	389	137	9	4862
1984-85	0	0	69	114	525	654	1113	789	596	305	79	24	4268
1985-86	0	0	17	188	448	947	950	917	615	312	89	11	4494
1986-87	0	10	27	236	572	797	1008	883	608	348	146	8	4643
1987-88	0	2	29	343	512	780	1093	867	656	409	133	31	4855
1988-89	3	0	23	385	459	896	844	849	696	376	143	14	4688
1989-90	0	1	54	217	572	1205	724	702	612	366	150	4	4607
1990-91	3	2	57	166	436	686	927	696	625	311	61	3	3973
1991-92	0	0	60	222	496	782	902	827	767	434	160	12	4662
1992-93	0	3	54	324	547	834	882	953	779	347	57	14	4794
1993-94	0	0	65	275	483	852	1215	958	749	282	142	0	5021
1994-95	0	0	18	212	388	700	846	931	614	386	130	2	4227
1995-96	0	0	31	146	637	1001	1065	894	801	389	183	8	5155
1996-97	0	0	46	263	656	726	1010	691	712	393	174	40	4711
1997-98	2	0	48	284	611	822	768	676	635	322	99	29	4296
1998-99	0	0	20	222	499	670	955	725	687	340	98	4	4220
1999-	0	3	23	271	418	769							

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COOLING DEGREE DAYS (base 65°F) 1999 NEW YORK, CENTRAL PARK, NY (NYC)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	8	86	190	385	398	207	30	0	0	1304
1971	0	0	0	0	29	290	404	347	218	40	7	0	1335
1972	0	0	0	5	47	118	384	338	169	3	0	0	1064
1973	0	0	0	20	23	260	390	401	171	22	2	0	1289
1974	0	0	0	19	47	155	385	360	115	1	6	0	1088
1975	0	0	0	0	120	185	341	299	43	22	15	0	1025
1976	0	0	0	65	24	270	310	299	103	5	0	0	1076
1977	0	0	3	22	110	189	442	338	159	0	0	0	1263
1978	0	0	0	0	77	209	301	348	81	4	0	0	1020
1979	0	0	0	4	71	149	378	376	192	43	5	0	1218
1980	0	0	0	1	94	188	448	480	213	11	0	0	1435
1981	0	0	0	4	78	252	425	347	129	0	0	0	1235
1982	0	0	0	7	55	152	405	266	129	36	16	0	1066
1983	0	0	0	19	16	259	460	404	244	35	0	0	1437
1984	0	0	0	3	39	301	306	367	106	26	0	0	1148
1985	0	0	8	28	95	139	353	329	189	21	5	0	1167
1986	0	0	5	4	127	214	348	269	120	27	0	0	1114
1987	0	0	0	5	110	251	406	295	118	0	2	0	1187
1988	0	0	0	0	66	243	455	435	104	12	0	0	1315
1989	0	0	4	0	61	231	313	287	151	10	0	0	1057
1990	0	0	4	25	8	225	375	328	140	77	4	0	1186
1991	0	0	0	38	182	280	403	382	142	24	1	0	1452
1992	0	0	0	5	46	174	292	256	127	8	0	0	908
1993	0	0	0	0	82	269	474	386	140	3	4	0	1358
1994	0	0	0	7	51	316	454	286	102	2	3	0	1221
1995	0	0	0	0	40	212	445	428	137	48	0	0	1310
1996	0	0	0	13	67	209	267	300	142	4	0	0	1002
1997	0	0	0	0	7	222	343	265	113	32	0	0	982
1998	0	0	36	0	89	162	366	368	184	1	0	2	1208
1999	0	0	0	3	46	258	517	336	152	3	0	0	1315

SNOWFALL (inches) 1999 NEW YORK, CENTRAL PARK, NY (NYC)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	0.0	2.4	11.4	T	1.3	0.4	0.0	0.0	15.5
1971-72	0.0	0.0	0.0	0.0	T	T	2.8	17.8	2.3	T	0.0	0.0	22.9
1972-73	0.0	0.0	0.0	T	T	T	1.8	0.8	0.2	T	0.0	0.0	2.8
1973-74	0.0	0.0	0.0	0.0	0.0	2.8	7.8	9.4	3.2	0.3	0.0	0.0	23.5
1974-75	0.0	0.0	0.0	0.0	0.1	0.1	2.0	10.6	0.3	T	0.0	0.0	13.1
1975-76	0.0	0.0	0.0	0.0	T	2.3	5.6	5.0	4.4	T	0.0	0.0	17.3
1976-77	0.0	0.0	0.0	0.0	T	5.1	13.0	5.8	0.6	T	T	0.0	24.5
1977-78	0.0	0.0	0.0	0.0	0.2	0.4	20.3	23.0	6.8	T	0.0	0.0	50.7
1978-79	0.0	0.0	0.0	0.0	2.2	0.5	6.6	20.1	T	T	0.0	0.0	29.4
1979-80	0.0	0.0	0.0	T	0.0	3.5	2.0	2.7	4.6	T	0.0	0.0	12.8
1980-81	0.0	0.0	0.0	0.0	T	2.8	8.0	T	8.6	0.0	0.0	0.0	19.4
1981-82	0.0	0.0	0.0	0.0	0.0	2.1	11.8	0.4	0.7	9.6	0.0	0.0	24.6
1982-83	0.0	0.0	0.0	0.0	0.0	3.0	1.9	23.5	T	0.8	0.0	0.0	29.2
1983-84	0.0	0.0	0.0	0.0	T	1.6	11.7	0.2	11.9	0.0	0.0	0.0	25.4
1984-85	0.0	0.0	0.0	0.0	T	5.5	8.4	10.0	0.2	T	0.0	0.0	24.1
1985-86	0.0	0.0	0.0	0.0	T	0.9	2.2	9.9	T	T	0.0	0.0	13.0
1986-87	0.0	0.0	0.0	0.0	T	0.6	13.6	7.0	1.9	0.0	0.0	0.0	23.1
1987-88	0.0	0.0	0.0	0.0	1.1	2.6	13.9	1.5	T	0.0	0.0	0.0	19.1
1988-89	0.0	0.0	0.0	0.0	0.0	0.3	5.0	0.3	2.5	0.0	0.0	0.0	8.1
1989-90	0.0	0.0	0.0	0.0	4.7	1.4	1.8	1.8	3.1	0.6	0.0	0.0	13.4
1990-91	T	0.0	0.0	0.0	0.0	7.2	8.4	9.1	0.2	0.0	0.0	0.0	24.9
1991-92	0.0	0.0	0.0	0.0	T	0.7	1.5	1.0	9.4	T	0.0	0.0	12.6
1992-93	0.0	0.0	0.0	0.0	0.0	0.4	1.5	10.7	11.9	0.0	0.0	0.0	24.5
1993-94	0.0	0.0	0.0	0.0	T	6.9	12.0	26.4	8.1	0.0	0.0	0.0	53.4
1994-95	0.0	0.0	0.0	0.0	T	T	0.2	11.6	T	T	T	0.0	11.8
1995-96	0.0	0.0	0.0	0.0	2.9	11.5	26.1	21.2	13.2	0.7	0.0	0.0	75.6
1996-97	0.0	0.0	0.0	0.0	0.1	T	4.4	3.8	1.7	T	0.0	0.0	10.0
1997-98	0.0	0.0	0.0	0.0	T	T	0.5	0.0	5.0	0.0	0.0	0.0	5.5
1998-99	0.0	0.0	0.0	0.0	0.0	2.0	4.5	1.7	4.5	0.0	0.0	0.0	12.7
1999-	0.0	0.0	0.0	0.0	0.0	T							
POR= 130 YRS	T	0.0	0.0	0.0	0.9	5.4	7.5	8.3	5.0	0.9	T	0.0	28.0

WBAN : 94728

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  
NEW YORK, CENTRAL PARK,  
NEW YORK (NYC)

New York City, in area exceeding 300 square miles, is located on the Atlantic coastal plain at the mouth of the Hudson River. The terrain is laced with numerous waterways, all but one of the five boroughs in the city are situated on islands. Elevations range from less than 50 feet over most of Manhattan, Brooklyn, and Queens to almost 300 feet in northern Manhattan and the Bronx, and over 400 feet in Staten Island. Extensive suburban areas on Long Island, and in Connecticut, New York State and New Jersey border the city on the east, north, and west. About 30 miles to the west and northwest, hills rise to about 1,500 feet and to the north in upper Westchester County to 800 feet. To the southwest and to the east are the low-lying land areas of the New Jersey coastal plain and of Long Island, bordering on the Atlantic.

The New York Metropolitan area is close to the path of most storm and frontal systems which move across the North American continent. Therefore, weather conditions affecting the city most often approach from a westerly direction. New York City can thus experience higher temperatures in summer and lower ones in winter than would otherwise be expected in a coastal area. However, the frequent passage of weather systems often helps reduce the length of both warm and cold spells, and is also a major factor in keeping periods of prolonged air stagnation to a minimum.

Although continental influence predominates, oceanic influence is by no means absent. During the summer local sea breezes, winds blowing onshore from the cool water surface, often moderate the afternoon heat. The effect of the sea breeze diminishes inland. On winter mornings, ocean temperatures which are warm relative to the land reinforce the effect of the city heat island and low temperatures are often 10-20 degrees lower in the inland suburbs than in the central city. The relatively warm water temperatures also delay the advent of winter snows. Conversely, the lag in warming of water temperatures keeps spring temperatures relatively cool. One year-round measure of the ocean influence is the small average daily variation in temperature.

Precipitation is moderate and distributed fairly evenly throughout the year. Most of the rainfall from May through October comes from thunderstorms, usually of brief duration and sometimes intense. Heavy rains of long duration associated with tropical storms occur infrequently in late summer or fall. For the other months of the year precipitation is more likely to be associated with widespread storm areas, so that day-long rain, snow or a mixture of both is more common. Coastal storms, occurring most often in the fall and winter months, produce on occasion considerable amounts of precipitation and have been responsible for record rains, snows, and high winds.

The average annual precipitation is reasonably uniform within the city but is higher in the northern and western suburbs and less on eastern Long Island. Annual snowfall totals also show a consistent increase to the north and west of the city with lesser amounts along the south shores and the eastern end of Long Island, reflecting the influence of the ocean waters.

Local Climatological Data is published for three locations in New York City, Central Park, La Guardia Airport, and John F. Kennedy International Airport. Other nearby locations for which it is published are Newark, New Jersey, and Bridgeport, Connecticut.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is November 11 and the average last occurrence in the spring is April 1.

# STATION LOCATION

NEW YORK, NEW YORK  
CENTRAL PARK OBSERVATORY

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	NORTH	WEST	ELEVATION ABOVE											A U T O M A T I C A L I N S T R U M E N T S *	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS	
						SEA LEVEL	GROUND													
							W I N D S T E M T E M P E R E T U R E	U N D R G R O U N D	S U R F A C E	E M E R G E N C Y	R O O F	C O M M O N	H I G H	S U M M I T	T E L E P H O N E	R A I N G A G E				W E I G H T I N G R A I N
<u>CITY</u>																				
49 Wall Street	10/25/70	5/29/71		40° 43'	74° 00'															
120 Broadway	5/29/71	3/15/95	2000 ft. NW	40° 43'	74° 00'	35	162	148	148											
66 Broadway	3/15/95	10/16/98	200 ft. S	40° 43'	74° 00'	35	326	298	298				247							
100 Broadway	10/16/98	5/01/11	150 ft. N	40° 43'	74° 00'	37	350	108	108			306	305	306						
17 Battery Place	5/01/11	12/31/60	1/2 mi. SW	40° 42'	74° 01'	10	454	414	414			398	398	398						
30 Rockefeller Plaza Mezzanine	12/29/60	Present	4 mi. NNE	40° 46'	73° 59'	68														
<u>CENTRAL PARK</u>																				
Arsenal Building, Fifth Avenue between 63rd & 64th Streets On top floor	Dec. 1868	1/01/20		40° 46'	73° 58'	47	81	61	61			64		64						
Belvedere Tower, near 79th and 81st Streets Transverse Road	1/01/20	11/01/95	1 mi. N	40° 47'	73° 58'	132	62 d68	4	6 b	NA c63	22 e3	22 f3	22 g	NA a4	NA					
Central Prk Observatory	11/01/95	Present	NA	40°47'	73°58'	158														

Local Climatological Data published for city locations through 1960.

a - Commissioned 12/29/60.  
b - Removed 12/29/60.  
c - Relocated from Battery 11/60.  
d - Effective 5/62.  
e - Moved to ground 1/1/63.  
f - Moved to ground 4/18/64.  
g - Removed in 1969.  
NWS Eastern Region determined that precipitation for 1983 was excessive due to malfunctioning equipment.  
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

National Climatic Data Center  
151 Patton Avenue, Rm 120  
Asheville NC 28801-5001

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