

1999

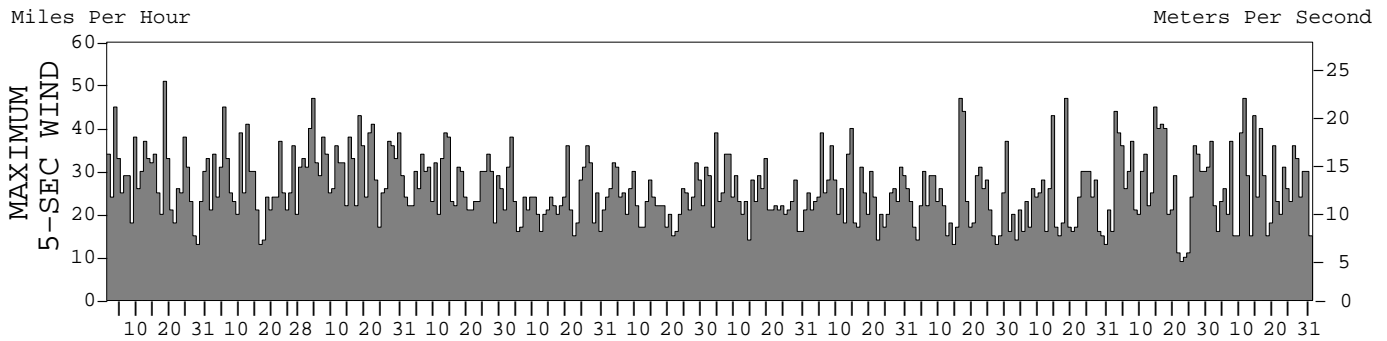
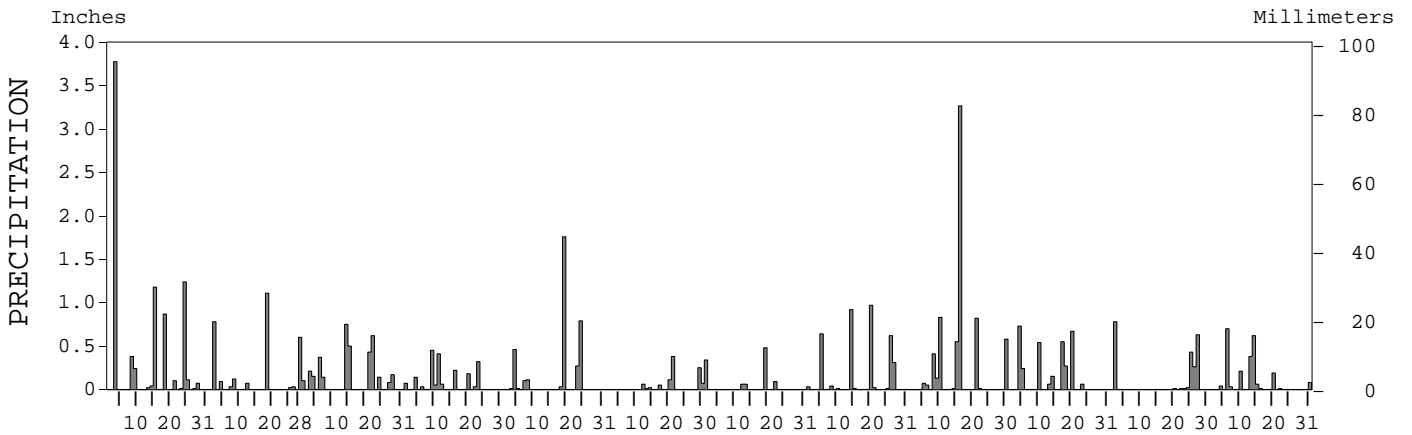
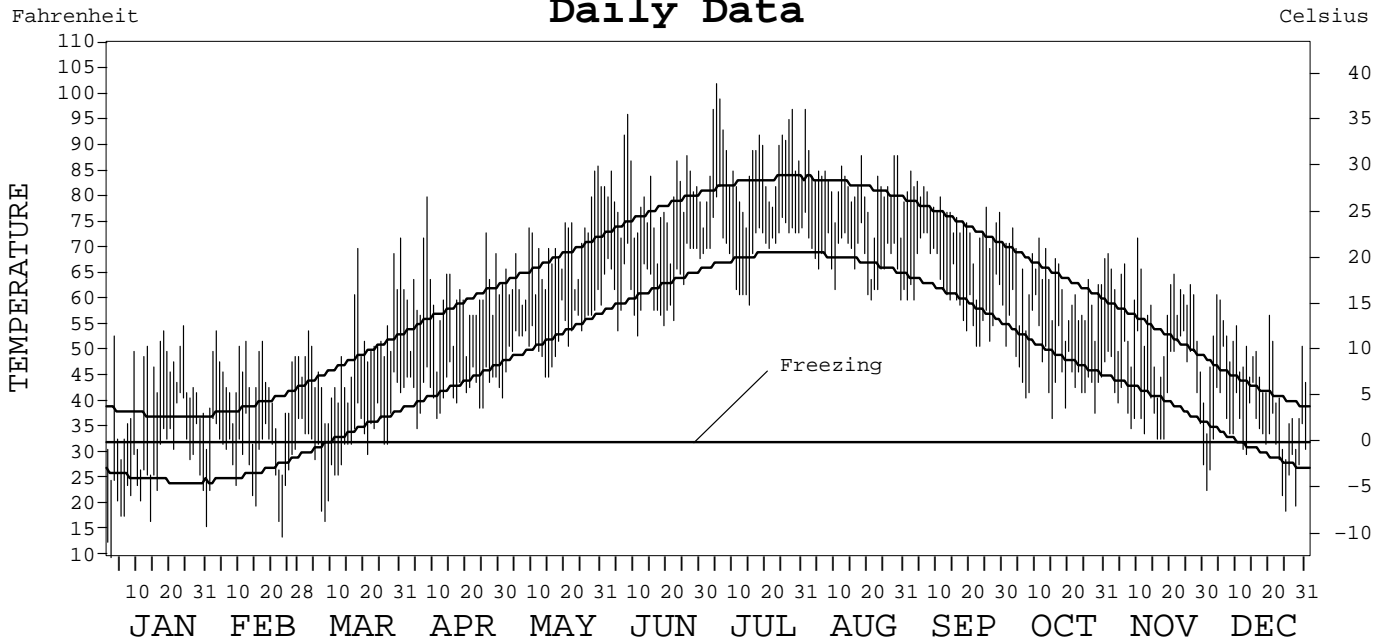
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-361X

NEW YORK, NY
JFK INTERNATIONAL AIRPORT (JFK)

Daily Data



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Thomas R. Karl

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METEOROLOGICAL DATA FOR 1999

NEW YORK, NY (JFK)

LATITUDE: 40° 39' 19" N LONGITUDE: 73° 47' 44" W ELEVATION (FT): GRND: 30 BARO: 30 TIME ZONE: EASTERN (UTC + 5) WBAN: 94789

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	41.1	43.1	49.8	60.5	69.3	79.7	86.5	81.8	75.9	62.8	57.0	45.9	62.8	
	HIGHEST DAILY MAXIMUM	55	54	72	80	86	96	102	97	85	74	72	61	102	
	DATE OF OCCURRENCE	24	03	31	08	30	08	05	01	02	03	10	04	JUL 05	
	MEAN DAILY MINIMUM	26.7	29.3	32.8	42.7	52.7	62.8	70.8	67.9	61.6	47.2	42.9	33.3	47.6	
	LOWEST DAILY MINIMUM	10	14	17	35	41	53	59	60	51	37	28	19	10	
	DATE OF OCCURRENCE	02	23	08	05	01	11	15	30+	23+	15	30	25	JAN 02	
	AVERAGE DRY BULB	33.9	36.2	41.3	51.6	61.0	71.3	78.7	74.9	68.8	55.0	50.0	39.6	55.2	
	MEAN WET BULB	31.1	33.2	34.9	43.9	54.6	64.8	70.2	68.2	63.6	50.7	45.6	35.6	49.7	
	MEAN DEW POINT	24.2	26.3	24.7	34.0	48.6	60.6	65.7	64.2	59.9	45.6	39.9	27.6	43.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	2	11	1	0	0	0	0	0	14
	MAXIMUM ≤ 32°	7	3	0	0	0	0	0	0	0	0	0	3	13	
	MINIMUM ≤ 32°	23	18	15	0	0	0	0	0	0	0	1	14	71	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	955	803	727	395	143	6	0	3	21	307	443	781	4584	
	COOLING DEGREE DAYS	0	0	0	0	27	202	431	317	139	3	0	0	1119	
RH	MEAN (PERCENT)	70	70	57	57	68	73	68	73	76	72	71	64	68	
	HOUR 01 LST	73	73	65	64	77	81	77	80	83	78	75	68	74	
	HOUR 07 LST	75	75	65	62	72	77	69	79	84	81	78	71	74	
	HOUR 13 LST	64	62	46	46	55	57	55	62	65	59	63	56	58	
	HOUR 19 LST	66	70	53	58	66	75	71	76	74	71	69	63	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	4	4	0	0	2	0	0	0	1	3	3	1	18	
	THUNDERSTORMS	1	0	1	2	1	3	2	4	1	2	1	0	18	
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.)	30.15	30.03	29.94	29.93	30.01	30.05	29.93	29.93	29.98	30.10	30.08	30.05	30.01	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.05	29.96	29.95	30.03	30.07	29.96	29.95	30.00	30.12	30.11	30.08	30.04	
WINDS	RESULTANT SPEED (MPH)	3.8	5.0	6.8	3.6	0.2	2.4	3.0	0.7	0.9	3.6	5.6	6.0	2.3	
	RES. DIR. (TENS OF DEGS.)	29	33	31	31	14	13	18	17	14	27	28	29	29	
	MEAN SPEED (MPH)	12.5	11.6	16.1	12.2	9.8	10.4	9.8	10.7	10.1	9.7	12.0	12.3	11.4	
	PREVAIL. DIR. (TENS OF DEGS.)	25	35	33	24	03	18	18	18	14	23	31	31	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	43	36	38	34	31	28	33	31	37	39	40	39	43	
	DIR. (TENS OF DEGS.)	22	31	21	31	02	18	24	25	31	35	31	29	22	
	DATE OF OCCURRENCE	18	05	04	13	03	28	04	08+	17	18	14	11	JAN 18	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	45	47	39	38	32	39	40	47	47	45	47	51	
DIR. (TENS OF DEGS.)	15	31	21	31	01	18	25	22	11	35	31	29	15		
DATE OF OCCURRENCE	18	05	04	13	03	28+	04	14	16	18	14	11	JAN 18		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	8.05	2.85	3.66	1.96	3.54	0.95	1.03	3.58	6.73	3.27	2.15	2.33	40.10	
	GREATEST 24-HOUR (IN.)	3.78	1.11	0.75	0.50	1.76	0.49	0.48	0.99	3.55	0.95	0.78	0.98	3.78	
	DATE OF OCCURRENCE	03	18	14	09-10	19	20-21	19	20-21	15-16	04-05	2	13-14	JAN 03	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	13	9	12	11	9	8	5	11	11	9	8	11	117	
PRECIPITATION ≥ 0.10	8	4	11	6	6	3	2	5	7	7	4	5	68		
PRECIPITATION ≥ 1.00	3	1	0	0	1	0	0	0	1	0	0	0	6		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	3.7	1.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	10.1	
	GREATEST 24-HOUR (IN.)	3.1	0.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	4.4	
	DATE OF OCCURRENCE	08	08	14-15								30+	22	MAR 14-15	
	MAXIMUM SNOW DEPTH (IN.)	1	1	4	0	0	0	0	0	0	0	0	0	4	
	DATE OF OCCURRENCE	09	26+	15										MAR 15	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	0	2	0	0	0	0	0	0	0	0	0	3		

NORMALS, MEANS, AND EXTREMES

NEW YORK, NY (JFK)

LATITUDE: 40° 39' 19" N LONGITUDE: 73° 47' 44" W ELEVATION (FT): GRND: 30 BARO: 30 TIME ZONE: EASTERN (UTC + 5) WBAN: 94789

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	37.5	39.5	48.0	58.2	67.6	77.0	82.8	81.9	75.0	64.7	53.8	42.7	60.7
	MEAN DAILY MAXIMUM	38	38.9	40.4	48.1	58.4	68.0	77.4	83.1	82.0	75.1	64.5	53.9	43.8	61.1
	HIGHEST DAILY MAXIMUM	39	65	71	85	90	99	99	104	100	98	88	77	75	104
	YEAR OF OCCURRENCE		1974	1997	1990	1977	1969	1964	1966	1983	1983	1997	1993	1998	JUL 1966
	MEAN OF EXTREME MAXS.	38	55.9	56.6	65.8	76.5	85.3	92.1	95.4	92.7	88.1	77.7	69.6	59.2	76.2
	NORMAL DAILY MINIMUM	30	24.9	26.3	34.0	42.8	52.4	61.8	68.1	67.3	60.1	49.3	40.5	30.5	46.5
	MEAN DAILY MINIMUM	38	26.2	27.0	33.8	42.8	52.4	62.0	68.4	67.4	60.1	49.4	40.6	31.4	46.8
	LOWEST DAILY MINIMUM	39	-2	-2	7	20	34	45	55	46	40	25	19	2	-2
	YEAR OF OCCURRENCE		1985	1963	1967	1982	1966	1967	1979	1965	1963	1961	1987	1983	JAN 1985
	MEAN OF EXTREME MINS.	38	9.4	11.5	18.8	31.3	42.7	52.2	60.0	57.3	47.9	36.6	27.1	15.9	34.2
	NORMAL DRY BULB	30	31.2	32.9	41.0	50.5	60.0	69.4	75.5	74.7	67.6	57.0	47.2	36.6	53.6
	MEAN DRY BULB	38	32.5	33.8	40.8	50.5	60.2	69.7	75.8	74.6	67.7	56.9	47.2	37.6	53.9
	MEAN WET BULB	15	30.3	31.0	36.3	44.7	54.5	63.4	68.8	68.0	61.8	52.0	42.5	34.2	49.0
	MEAN DEW POINT	15	23.0	23.0	28.2	37.6	49.1	58.9	64.9	64.2	57.6	46.5	35.9	26.6	43.0
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	*	0.3	1.8	4.0	3.0	0.9	0.0	0.0	0.0	10.0	
MAXIMUM ≤ 32°	30	9.4	5.6	1.0	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	20.0	
MINIMUM ≤ 32°	30	23.4	20.3	11.7	1.4	0.0	0.0	0.0	0.0	0.0	0.3	4.3	16.9	78.3	
MINIMUM ≤ 0°	30	0.2	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	1048	899	744	435	178	9	0	0	39	261	534	880	5027
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	23	141	326	301	117	13	0	0	921
RH	NORMAL (PERCENT)	30	65	64	63	64	70	72	71	72	72	69	68	66	68
	HOUR 01 LST	30	68	68	68	70	77	79	79	79	80	76	73	70	74
	HOUR 07 LST	30	70	71	70	69	73	75	76	78	80	78	76	72	74
	HOUR 13 LST	30	59	58	55	55	59	60	59	59	59	56	58	60	58
	HOUR 19 LST	30	63	63	62	64	69	71	72	72	71	68	67	64	67
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	41	2.6	2.6	3.1	2.8	3.8	3.4	2.0	1.2	1.1	2.0	2.0	2.4	29.0
	THUNDERSTORMS	41	0.1	0.3	1.0	1.7	3.2	4.2	4.7	4.6	2.0	1.0	0.5	0.1	23.4
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH:														
CLEAR	1	8.0	6.0	9.0	5.0										
PARTLY CLOUDY	1	4.0	6.0	8.0	8.0										
CLOUDY	1	19.0	17.0	14.0	17.0										
PR	MEAN STATION PRESSURE (IN)	26	30.04	30.04	29.99	29.95	29.96	29.95	29.97	30.02	30.05	30.07	30.06	30.05	30.01
	MEAN SEA-LEVEL PRES. (IN)	14	30.09	30.06	30.03	29.97	29.98	30.01	29.99	30.03	30.06	30.10	30.10	30.08	30.04
WINDS	MEAN SPEED (MPH)	40	13.0	13.1	13.6	12.9	11.5	10.8	10.2	9.9	10.5	10.9	12.1	12.6	11.8
	PREVAIL. DIR (TENS OF DEGS)	30	32	32	32	18	18	19	19	18	19	24	32	32	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	43	37	46	41	40	43	51	34	47	39	43	43	51
	DIR. (TENS OF DEGS)		22	27	27	35	35	28	29	30	28	35	29	29	29
	YEAR OF OCCURRENCE		1999	1997	1997	1997	1998	1998	1997	1997	1998	1999	1997	1998	JUL 1997
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	51	52	60	48	51	53	66	44	59	47	52	51	66	
DIR. (TENS OF DEGS)		15	02	28	33	36	27	33	31	27	35	28	27	33	
YEAR OF OCCURRENCE		1999	1998	1997	1997	1998	1998	1997	1997	1998	1999	1997	1998	JUL 1997	
PRECIPITATION	NORMAL (IN)	30	3.17	3.02	3.59	3.90	3.80	3.65	3.80	3.41	3.30	2.88	3.65	3.42	41.59
	MAXIMUM MONTHLY (IN)	52	8.33	5.48	8.17	9.51	10.71	9.20	8.81	17.41	9.65	6.58	9.51	6.73	17.41
	YEAR OF OCCURRENCE		1979	1960	1980	1983	1989	1984	1996	1955	1975	1989	1972	1986	AUG 1955
	MINIMUM MONTHLY (IN)	52	0.21	1.01	0.95	1.12	0.38	T	0.46	0.22	0.70	0.09	0.32	0.61	T
	YEAR OF OCCURRENCE		1956	1987	1981	1963	1955	1949	1954	1995	1951	1963	1976	1989	JUN 1949
	MAXIMUM IN 24 HOURS (IN)	52	3.78	2.87	2.57	3.31	2.88	6.27	5.92	6.59	5.83	3.42	4.09	2.94	6.59
	YEAR OF OCCURRENCE		1999	1958	1998	1980	1968	1984	1984	1955	1960	1972	1972	1992	AUG 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.3	9.5	11.0	10.6	11.2	10.3	9.4	9.4	8.2	7.2	10.0	11.1	118.2	
PRECIPITATION ≥ 1.00	30	0.6	0.7	0.7	1.1	0.8	0.9	1.1	0.9	1.1	0.7	0.9	1.0	10.5	
SNOWFALL	NORMAL (IN)	30	7.7	7.6	3.1	0.5	0.0	0.0	0.0	0.0	T	0.3	2.6	21.8	
	MAXIMUM MONTHLY (IN)	41	23.0	25.3	21.1	8.2	T	0.0	T	0.0	0.0	0.5	3.7	16.4	25.3
	YEAR OF OCCURRENCE		1996	1961	1960	1982	1995		1997		1962	1989	1960	1960	FEB 1961
	MAXIMUM IN 24 HOURS (IN)	41	17.1	21.7	9.0	8.0	T	0.0	T	0.0	0.0	0.5	3.7	8.2	21.7
	YEAR OF OCCURRENCE		1996	1983	1993	1982	1995		1997		1962	1989	1960	1960	FEB 1983
	MAXIMUM SNOW DEPTH (IN)	37	14	22	8	8	0	0	0	0	0	0	4	18	22
	YEAR OF OCCURRENCE		1978	1983	1993	1982							1989	1948	FEB 1983
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	2.3	1.9	1.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	6.1	

PRECIPITATION (inches) 1999 J.F.K INTERNATIONAL AIRPORT NY (JFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.56	3.33	4.03	3.15	2.01	3.04	0.54	2.57	1.61	1.93	3.84	2.55	29.16
1971	2.31	4.76	3.17	2.90	2.61	1.71	3.19	4.35	3.72	3.28	4.07	1.46	37.53
1972	1.74	4.89	4.09	3.32	5.02	6.70	2.60	0.42	1.49	5.00	9.51	4.26	49.04
1973	3.37	2.61	3.72	6.98	3.97	5.25	2.64	0.84	3.03	2.26	1.41	5.96	42.04
1974	2.83	1.41	4.60	2.33	2.69	2.38	1.29	4.24	5.97	2.19	1.10	6.07	37.10
1975	5.05	3.57	3.50	3.13	3.52	7.06	7.86	3.54	9.65	3.25	4.02	3.03	57.18
1976	4.55	3.16	2.30	2.26	3.56	3.97	3.50	8.30	2.24	4.06	0.32	2.02	40.24
1977	2.67	2.41	4.70	3.62	2.29	3.25	2.30	4.85	6.69	4.41	6.59	4.92	48.70
1978	7.74	1.74	2.38	2.10	6.44	1.24	3.50	3.58	3.41	1.68	1.86	5.29	40.96
1979	8.33	4.58	3.77	3.03	5.02	3.42	1.66	5.65	4.13	3.53	2.00	2.09	47.21
1980	1.55	1.06	8.17	7.53	2.77	3.57	3.93	0.85	1.32	2.79	3.98	0.90	38.42
1981	0.49	4.33	0.95	2.77	2.80	4.28	5.32	1.05	2.67	3.74	1.77	4.40	34.57
1982	4.83	2.08	2.61	4.40	3.43	5.08	2.67	2.15	1.15	1.29	2.85	1.52	34.06
1983	4.14	2.79	6.66	9.51	3.56	2.10	3.69	5.84	3.95	5.12	5.62	6.14	59.12
1984	1.60	4.55	5.99	5.82	8.59	9.20	6.66	1.47	2.02	1.91	2.47	2.94	53.22
1985	1.06	2.13	2.17	2.12	4.77	4.56	2.63	1.80	3.29	0.93	6.68	0.87	33.01
1986	3.86	3.01	2.04	3.99	1.09	1.61	4.75	3.69	1.75	1.51	6.43	6.73	40.46
1987	5.62	1.01	3.26	4.74	1.70	4.22	3.71	3.84	2.98	3.02	2.73	2.24	39.07
1988	3.13	3.85	2.38	2.01	5.07	1.53	6.70	2.01	2.86	3.39	6.65	1.08	40.66
1989	2.08	2.64	4.17	3.71	10.71	8.07	5.99	4.35	4.31	6.58	2.51	0.61	55.73
1990	4.41	1.17	2.32	4.64	6.97	2.37	4.37	6.68	1.80	5.03	1.59	3.89	45.24
1991	3.73	1.58	3.63	3.90	4.20	1.90	2.48	7.59	2.79	1.52	1.77	3.64	38.73
1992	1.34	1.52	3.23	1.37	3.49	2.57	5.75	5.31	1.78	1.56	5.53	4.93	38.38
1993	2.00	2.20	6.83	3.06	1.88	1.15	2.39	2.17	5.55	3.72	0.88	3.78	35.61
1994	4.92	3.11	5.07	2.23	4.87	1.37	2.90	6.69	4.87	1.32	3.06	2.92	43.33
1995	3.33	2.73	1.31	2.28	3.47	2.73	3.38	0.22	3.41	4.52	4.97	2.07	34.42
1996	3.90	1.89	3.44	4.54	3.16	4.31	8.81	3.06	4.24	5.80	2.30	6.00	51.45
1997	2.37	2.22	4.49	3.56	3.21	1.79	5.55	5.95	1.30	1.92	4.06	3.45	39.87
1998	5.05	3.30	4.79	4.73	5.59	5.62	0.97	1.85	1.68	1.91	1.13	0.93	37.55
1999	8.05	2.85	3.66	1.96	3.54	0.95	1.03	3.58	6.73	3.27	2.15	2.33	40.10
POR= 49 YRS	3.14	2.96	3.85	3.76	3.76	3.15	3.73	3.87	3.32	2.93	3.60	3.39	41.46

WBAN : 94789

AVERAGE TEMPERATURE (°F) 1999 J.F.K INTERNATIONAL AIRPORT NY (JFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	26.7	33.3	37.5	50.0	61.7	70.3	77.0	77.4	70.0	58.3	48.6	35.0	53.8
1971	27.9	34.2	38.9	47.8	59.5	72.1	77.2	76.5	71.8	63.5	47.2	42.8	55.0
1972	36.4	33.5	40.4	49.8	61.2	68.0	77.0	74.8	69.3	54.5	46.5	41.2	54.4
1973	36.6	35.1	47.7	54.2	57.2	69.2	74.0	75.3	67.2	57.7	45.9	37.2	54.8
1974	35.1	31.6	42.7	52.5	59.6	67.8	76.6	75.7	66.9	54.4	47.9	39.8	54.2
1975	37.9	35.9	39.9	47.1	62.3	69.0	75.0	74.4	64.1	60.0	52.8	36.6	54.6
1976	28.1	38.7	43.1	53.5	58.6	70.2	72.9	72.7	65.6	52.8	40.7	30.1	52.3
1977	22.0	32.1	43.7	51.0	61.7	67.4	75.1	73.3	66.8	53.7	47.2	34.3	52.4
1978	29.2	26.8	38.7	50.6	59.5	70.7	74.5	77.5	66.6	57.3	48.8	39.3	53.3
1979	33.2	25.0	45.4	51.5	62.8	66.9	74.7	73.6	67.1	54.9	48.3	38.1	53.5
1980	32.2	29.2	38.4	51.9	62.9	68.1	76.5	78.0	69.9	56.3	45.4	33.7	53.5
1981	26.5	38.7	42.2	53.7	60.6	70.5	77.3	75.4	68.1	54.6	47.7	37.5	54.4
1982	26.7	35.8	40.9	49.2	61.8	66.9	75.7	72.7	67.1	57.6	50.4	43.6	54.0
1983	35.8	36.2	44.6	51.5	58.0	71.6	78.7	76.7	71.0	58.8	49.6	35.9	55.7
1984	29.3	39.8	36.2	51.1	61.0	73.9	74.8	77.6	66.1	61.7	47.4	43.9	55.2
1985	28.8	34.8	45.1	54.2	63.1	68.4	74.8	73.9	69.2	58.3	50.1	34.0	54.6
1986	33.3	31.9	42.6	52.0	63.3	70.0	75.3	72.9	66.6	56.8	45.2	39.6	54.1
1987	32.4	32.5	43.4	51.3	60.1	71.1	76.2	72.9	67.3	53.6	47.1	39.3	53.9
1988	28.8	34.1	42.2	49.7	60.3	69.9	75.8	76.5	67.1	52.4	48.1	35.9	53.4
1989	36.5	34.0	40.5	50.0	59.9	71.5	74.2	74.1	68.0	57.7	45.5	26.6	53.2
1990	39.4	38.8	42.4	50.0	58.3	69.1	75.5	75.4	67.1	61.3	48.9	41.7	55.7
1991	34.7	39.0	43.4	52.4	66.2	72.3	76.7	76.8	67.2	58.6	47.6	40.0	56.2
1992	35.7	36.2	39.3	48.5	58.8	68.0	73.6	72.2	67.0	54.2	46.6	37.9	53.2
1993	36.8	30.5	38.9	50.5	63.0	70.5	78.7	75.0	67.4	55.6	46.9	36.9	54.2
1994	26.4	29.3	40.1	53.4	59.6	72.1	78.1	72.2	68.0	57.0	51.0	41.8	54.1
1995	37.9	31.5	44.0	50.5	60.6	70.3	77.7	77.0	68.2	61.7	44.8	34.0	54.9
1996	31.2	33.8	38.1	50.2	58.6	69.5	72.2	72.9	68.1	55.7	42.4	40.6	52.8
1997	32.1	39.1	42.6	49.8	57.7	69.2	74.7	72.9	68.4	57.7	44.9	37.8	53.9
1998	39.6	39.8	42.6	51.6	61.7	68.1	75.9	76.1	69.6	57.5	47.5	41.9	56.0
1999	33.9	36.2	41.3	51.6	61.0	71.3	78.7	74.9	68.8	55.0	50.0	39.6	55.2
POR= 49 YRS	32.0	33.8	40.7	50.6	60.2	69.8	75.6	74.6	67.6	57.1	47.1	37.0	53.8

HEATING DEGREE DAYS (base 65°F) 1999 J.F.K INTERNATIONAL AIRPORT NY (JFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	25	219	487	921	1144	858	803	508	180	9	5154
1971-72	0	0	11	83	532	685	881	904	755	449	123	9	4432
1972-73	0	0	21	321	549	732	876	831	530	325	242	13	4440
1973-74	0	0	64	234	568	856	920	929	686	373	183	26	4839
1974-75	0	0	47	322	508	775	833	809	770	531	135	13	4743
1975-76	0	3	60	171	367	874	1140	756	672	348	195	28	4614
1976-77	0	6	53	373	726	1076	1326	916	651	418	147	34	5726
1977-78	0	7	68	344	530	947	1104	1062	805	422	197	7	5493
1978-79	2	0	62	237	481	791	978	1115	603	397	88	19	4773
1979-80	2	6	45	313	493	827	1010	1030	823	387	106	39	5081
1980-81	0	0	25	266	585	962	1184	731	700	334	159	12	4958
1981-82	0	0	46	313	511	844	1182	812	741	468	110	44	5071
1982-83	0	6	24	245	434	655	901	801	625	400	212	8	4311
1983-84	0	2	38	224	455	891	1101	726	886	409	134	7	4873
1984-85	0	0	67	119	522	647	1118	841	606	328	95	18	4361
1985-86	0	0	26	213	441	954	976	920	688	383	124	15	4740
1986-87	0	8	38	274	588	781	1001	906	667	405	211	11	4890
1987-88	0	2	23	345	532	789	1118	892	702	454	171	33	5061
1988-89	0	0	28	388	502	893	879	862	753	443	174	6	4928
1989-90	0	0	51	221	581	1181	790	726	696	444	201	11	4902
1990-91	3	2	50	166	474	717	931	723	661	378	83	11	4199
1991-92	0	0	59	213	514	768	896	829	788	490	217	12	4786
1992-93	1	1	47	331	543	835	869	960	801	428	98	11	4925
1993-94	0	0	50	285	541	866	1191	994	764	341	172	0	5204
1994-95	0	0	10	241	415	712	837	931	642	428	156	5	4377
1995-96	0	0	30	138	600	952	1039	898	829	439	235	14	5174
1996-97	0	0	39	283	671	752	1016	718	686	449	223	57	4894
1997-98	2	0	34	253	596	836	779	700	688	394	146	31	4459
1998-99	0	0	19	230	518	709	955	803	727	395	143	6	4505
1999-	0	3	21	307	443	781							

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COOLING DEGREE DAYS (base 65°F) 1999 J.F.K INTERNATIONAL AIRPORT NY (JFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	0	42	168	378	389	182	17	0	0	1176
1971	0	0	0	0	16	231	384	365	221	45	8	0	1270
1972	0	0	0	0	11	107	378	309	159	4	0	0	968
1973	0	0	0	9	7	145	287	324	137	14	0	0	923
1974	0	0	0	7	24	116	366	342	111	1	1	0	968
1975	0	0	0	0	58	137	319	301	41	24	7	0	887
1976	0	0	0	9	5	187	250	253	80	2	0	0	786
1977	0	0	0	5	51	114	321	268	127	0	0	0	886
1978	0	0	0	0	37	185	305	391	119	5	0	0	1042
1979	0	0	0	0	26	83	310	283	115	7	0	0	824
1980	0	0	0	0	48	139	365	412	178	6	0	0	1148
1981	0	0	0	3	30	184	390	327	143	0	0	0	1077
1982	0	0	0	0	16	107	336	252	92	21	4	0	828
1983	0	0	0	0	1	213	431	371	223	36	0	0	1275
1984	0	0	0	0	16	285	310	396	106	21	1	0	1135
1985	0	0	0	10	44	126	312	284	157	14	0	0	947
1986	0	0	0	0	80	172	326	262	94	27	0	0	961
1987	0	0	0	0	65	200	355	256	99	0	0	0	975
1988	0	0	0	0	33	186	344	365	99	2	0	0	1029
1989	0	0	0	0	20	208	293	286	147	3	0	0	957
1990	0	0	0	2	0	142	337	332	118	57	0	0	988
1991	0	0	0	5	124	238	371	374	130	23	0	0	1265
1992	0	0	0	0	31	107	276	233	112	3	0	0	762
1993	0	0	0	0	45	182	431	318	130	0	2	0	1108
1994	0	0	0	0	13	219	415	231	107	0	0	0	985
1995	0	0	0	0	26	175	400	380	138	38	0	0	1157
1996	0	0	0	0	44	157	233	255	137	0	0	0	826
1997	0	0	0	0	3	188	308	251	143	33	0	0	926
1998	0	0	0	0	48	131	346	352	163	4	0	0	1044
1999	0	0	0	0	27	202	431	317	139	3	0	0	1119

SNOWFALL (inches) 1999 J.F.K INTERNATIONAL AIRPORT NY (JFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	T	2.3	11.6	0.2	2.8	3.2	0.0	0.0	20.1
1971-72	0.0	0.0	0.0	0.0	T	0.1	1.7	10.3	2.8	T	0.0	0.0	14.9
1972-73	0.0	0.0	0.0	0.0	T	T	0.8	0.8	T	T	0.0	0.0	1.6
1973-74	0.0	0.0	0.0	0.0	0.0	0.5	6.7	10.5	4.1	T	0.0	0.0	21.8
1974-75	0.0	0.0	0.0	0.0	0.2	T	0.6	8.8	0.9	T	0.0	0.0	10.5
1975-76	0.0	0.0	0.0	0.0	T	1.2	6.9	7.3	5.3	0.0	0.0	0.0	20.7
1976-77	0.0	0.0	0.0	0.0	T	5.8	13.4	3.5	T	0.0	0.0	0.0	22.7
1977-78	0.0	0.0	0.0	0.0	0.6	1.0	20.1	18.1	8.7	0.0	0.0	0.0	48.5
1978-79	0.0	0.0	0.0	0.0	1.7	0.3	7.4	17.6	0.2	T	0.0	0.0	27.2
1979-80	0.0	0.0	0.0	T	0.0	2.5	3.0	2.3	3.2	T	0.0	0.0	11.0
1980-81	0.0	0.0	0.0	0.0	0.2	1.7	7.7	T	6.9	0.0	0.0	0.0	16.5
1981-82	0.0	0.0	0.0	0.0	T	3.1	12.5	0.8	0.3	8.2	0.0	0.0	24.9
1982-83	0.0	0.0	0.0	0.0	0.0	4.8	1.0	24.7	0.1	1.5	0.0	0.0	32.1
1983-84	0.0	0.0	0.0	0.0	T	1.2	9.9	T	10.9	T	0.0	0.0	22.0
1984-85	0.0	0.0	0.0	0.0	T	5.5	12.4	9.0	0.4	T	0.0	0.0	27.3
1985-86	0.0	0.0	0.0	0.0	T	2.8	3.0	13.5	T	T	0.0	0.0	19.3
1986-87	0.0	0.0	0.0	0.0	0.4	1.0	11.8	7.9	2.0	0.0	0.0	0.0	23.1
1987-88	0.0	0.0	0.0	0.0	0.4	3.0	15.7	0.5	0.1	0.0	0.0	0.0	19.7
1988-89	0.0	0.0	0.0	0.0	0.0	0.7	4.7	0.1	2.7	0.0	0.0	0.0	8.2
1989-90	0.0	0.0	0.0	0.0	3.7	0.8	1.4	1.3	1.9	0.5	0.0	0.0	9.6
1990-91	0.0	0.0	0.0	0.0	0.0	6.1	5.7	7.9	0.7	0.0	0.0	0.0	20.4
1991-92	0.0	0.0	0.0	0.0	T	0.9	1.9	0.8	6.9	T	0.0	0.0	10.5
1992-93	0.0	0.0	0.0	0.0	T	0.8	0.8	6.7	11.7	0.0	0.0	0.0	20.0
1993-94	0.0	0.0	0.0	0.0	T	8.0	7.1	23.7	6.4	0.0	0.0	0.0	45.2
1994-95	0.0	0.0	0.0	0.0	T	T	0.1	7.8	T	0.0	T	0.0	7.9
1995-96	0.0	0.0	0.0	0.0	2.6	10.5	23.0	18.4	10.5	4.0	0.0	0.0	69.0
1996-97	0.0	0.0	0.0	0.0	T	T	3.4	3.3	1.8	1.5	0.0	0.0	10.0
1997-98	T	0.0	0.0	0.0	T	0.6	0.1	T	2.9	T	0.0	0.0	3.6
1998-99	0.0	0.0	0.0	0.0	0.0	2.3	3.7	1.7	4.6	0.0	0.0	0.0	12.3
1999-	0.0	0.0	0.0	0.0	T	0.1							
POR= 40 YRS	0.0	0.0	0.0	0.0	0.3	3.4	6.7	7.6	3.8	0.5	T	0.0	22.3

WBAN : 94789

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
J.F.K INTERNATIONAL AIRPORT
N.Y.C, NEW YORK (JFK)

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. It is therefore 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. Precipitation accompanying winter storms sometimes starts as snow, later changes to rain, and perhaps briefly back to snow before ending. 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.

Relative humidity averages about the same over the metropolitan area except again that the immediate coastal areas are more humid than inland locations.

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.

STATION LOCATION

NEW YORK, NY
J. F. KENNEDY INTERNATIONAL AIRPORT

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	NORTH	WEST	ELEVATION ABOVE											* Type	REMARKS	
						SEA LEVEL	GROUND												A U T O M A T I C A L I N S T R U M E N T S
							W I N D I N D I C A T O R	E M E R G E N C Y	R E M O N O M E T E R	S U R F A C E	T E L E M E T E R	R A I N G A U G E	W E I G H T I N G	I N C H R A I N G A U G E	H I G H W A T E R	U N D E R G R O U N D			
Administration Building N.Y. International AP Jamaica, N.Y.	6/15/48	12/18/57	NA	40° 39'	73° 47'	16	54	17 a30	17 a30					12 a25		a	- Effective 1/15/51.		
International Arrival Building N.Y. International AP+ Jamaica, N.Y. +J. F. Kennedy Int'l AP effective 12/1963.	12/18/57	05/01/96	1700 ft. S	40° 39'	73° 47'	15 e13	54 b22 c33 f20	37 j	36	NA	NA	g34 h5 i34	34	g4 k4	NA	b	- Effective 12/30/57. c - Effective 3/12/58. d - Commissioned 3400' S of thermometer site 5/26/61. e - Effective 5/26/61. f - Effective 11/2/62. g - Added 6/30/65. h - Effective 4/8/66. i - Effective 4/1/69. j - Removed 4/1969. k - Type change 10/01/85. Station type changed from WSO to WSCMO 06/05/88.		
JFK Int'l Airport	05/01/96	Present	NA	40°39'	73°48'	30									S	ASOS Commissioned 05/01/96			

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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