

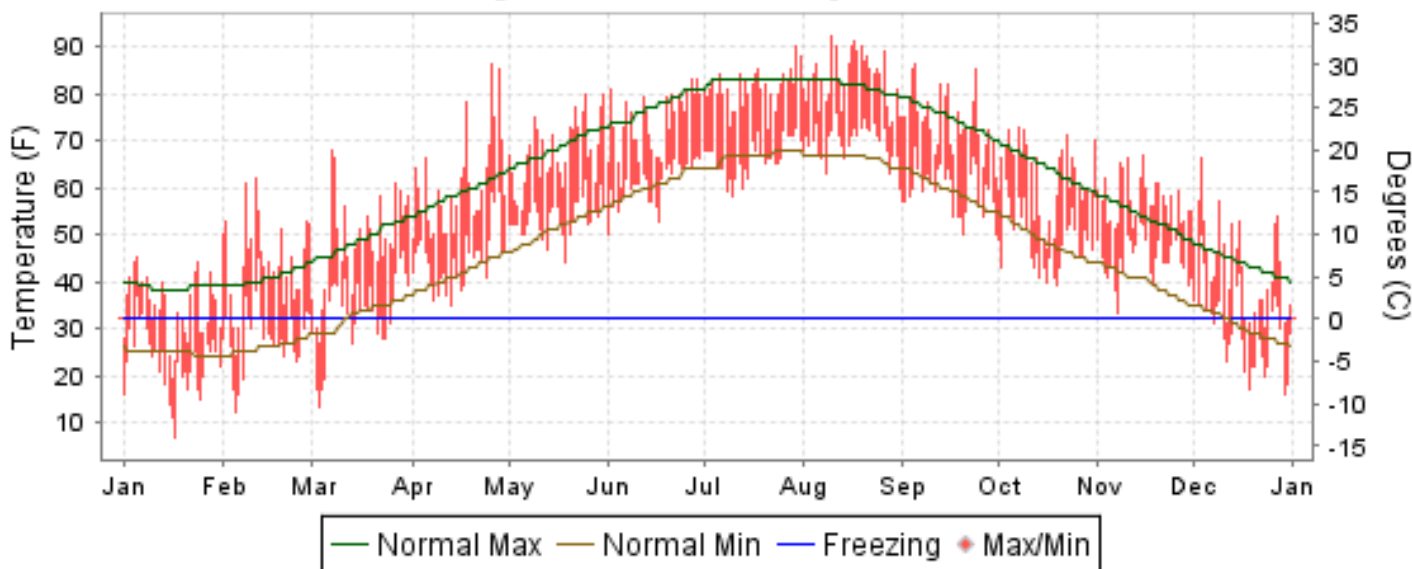


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

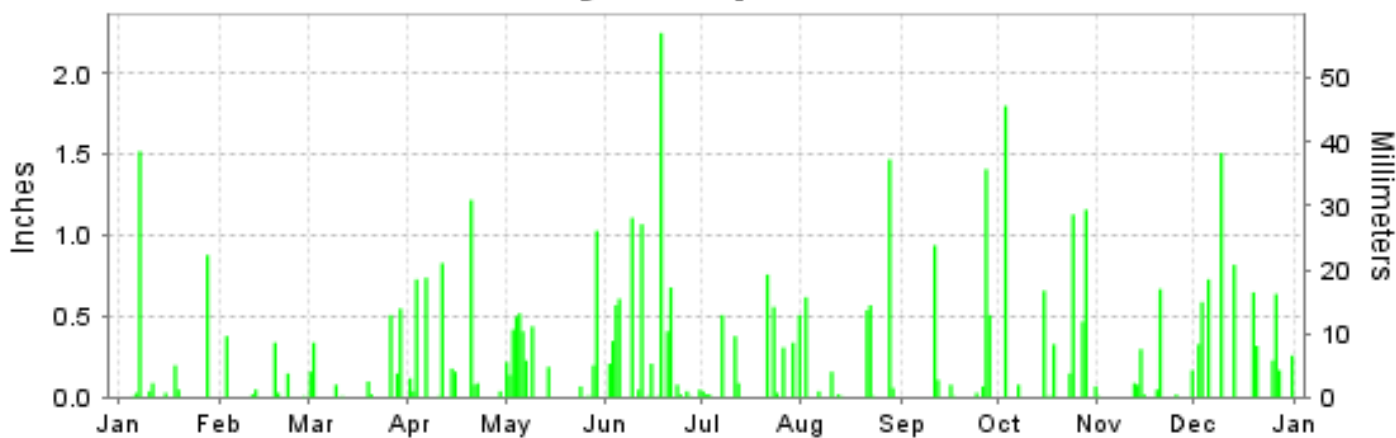
ISSN 0198-361X

NEW YORK, JFK INTERNATIONAL AIRPORT (KJFK)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

NEW YORK (KJFK)

LATITUDE: 40 ° 39'N LONGITUDE: -73 ° 47'W ELEVATION (FT): GRND: 11 BARO: 32 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	34.6	44.1	48.5	60.7	67.6	73.8	81.1	83.2	74.2	62.4	57.2	42.6	60.8	
	HIGHEST DAILY MAXIMUM	45	62	68	86	80	83	90	92	86	73	67	66	92	
	DATE OF OCCURRENCE	05	11	07	26	31+	29+	30	10	05	07	15	03	AUG 10	
	MEAN DAILY MINIMUM	22.7	27.9	33.3	44.8	53.4	61.0	66.3	69.8	59.5	48.9	44.9	29.8	46.9	
	LOWEST DAILY MINIMUM	7	12	13	35	44	50	58	60	50	39	33	16	7	
	DATE OF OCCURRENCE	17	05	03	13	19	01	10	31	30+	19	07	29	JAN 17	
	AVERAGE DRY BULB	28.7	36.0	40.9	52.8	60.5	67.4	73.7	76.5	66.9	55.7	51.1	36.2	53.9	
	MEAN WET BULB	24.4	30.9	36.0	45.5	54.5	61.8	66.0	69.2	59.9	50.3	45.9	32.0	48.0	
	MEAN DEW POINT	13.4	20.4	28.2	37.3	49.2	58.5	61.2	65.2	54.7	44.3	39.5	22.9	41.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	0	0	1	5	0	0	0	0	6
	MAXIMUM <= 32°	12	3	2	0	0	0	0	0	0	0	0	0	7	24
MINIMUM <= 32°	29	23	12	0	0	0	0	0	0	0	0	0	18	82	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	1119	803	740	377	148	33	0	0	30	286	415	885	4836	
	COOLING DEGREE DAYS	0	0	0	16	18	113	276	364	94	2	0	0	883	
RH	MEAN (PERCENT)	54	55	65	61	71	77	68	70	67	67	66	60	65	
	HOUR 01 LST	57	60	69	68	79	83	79	78	76	73	71	64	71	
	HOUR 07 LST	59	61	68	61	69	75	66	72	69	71	71	63	67	
	HOUR 13 LST	49	46	56	54	61	67	56	60	54	58	57	53	56	
	HOUR 19 LST	55	56	67	64	72	80	72	73	69	67	65	59	67	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	1	0	3	3	6	3	0	0	0	1	0	2	19	
	THUNDERSTORMS	0	0	1	3	3	5	7	6	0	2	1	0	28	
CLOUDNESS	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.)	29.99	30.03	30.14	29.95	30.02	29.83	29.91	29.98	30.06	30.00	30.06	30.03	30.00	
	MEAN SEA-LEVEL PRESS. (IN.)	30.03	30.05	30.17	29.97	30.04	29.86	29.94	30.00	30.08	30.03	30.09	30.06	30.03	
WINDS	RESULTANT SPEED (MPH)	7.7	7.3	2.1	1.2	2.5	1.7	3.5	2.8	1.6	1.8	5.5	8.1	2.2	
	RES. DIR. (TENS OF DEGS.)	29	29	33	23	16	11	21	21	02	33	36	30	30	
	MEAN SPEED (MPH)	12.1	13.8	11.0	12.3	9.8	8.5	9.5	8.6	9.3	11.3	11.1	14.7	11.0	
	PREVAIL.DIR.(TENS OF DEGS.)	29	31	18	09	18	17	19	19	01	04	04	31	31	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	46	37	38	31	32	38	32	32	43	37	41	46	
	DIR. (TENS OF DEGS.)	25	26	35	26	33	36	23	18	18	29	31	31	26	
	DATE OF OCCURRENCE	08	12	02	04	17	26	29	21	28	07	28	29	FEB 12	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	49	55	45	46	39	40	53	40	44	56	48	53	56	
DIR. (TENS OF DEGS.)	26	26	36	27	33	01	30	18	30	29	31	32	29		
DATE OF OCCURRENCE	08	12	02	04	17	26	31	21	28	07	28	29	OCT 07		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.85	0.98	1.92	4.24	4.39	7.74	3.57	3.50	3.16	5.87	1.41	6.25	45.88	
	GREATEST 24-HOUR (IN.)	1.54	0.38	0.60	1.28	1.15	2.26	0.76	1.47	1.48	1.80	0.72	1.51	2.26	
	DATE OF OCCURRENCE	06-07	03	28-29	20-21	28-29	17-18	21	28	26-27	03	19-20	09	JUN 17-18	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	7	9	12	14	18	12	10	8	11	9	11	130	
PRECIPITATION 0.10	3	3	6	7	11	10	7	5	4	7	3	11	77		
PRECIPITATION 1.00	1	0	0	1	1	3	0	1	1	3	0	1	12		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	6.4	4.0	7.0	T	0.0	0.0	T	0.0	0.0	0.0	0.0	16.2	33.6	
	GREATEST 24-HOUR (IN.)	2.3	4.0	5.1	T	0.0	0.0	T	0.0	0.0	0.0	0.0	9.8	9.8	
	DATE OF OCCURRENCE	28	03	02	15+			07					19	DEC 19	
	MAXIMUM SNOW DEPTH (IN.)	2	1	7	0	0	0	0	0	0	0	0	14	14	
	DATE OF OCCURRENCE	28+	07+	03+									21+	DEC 21+	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	1	2	0	0	0	0	0	0	0	0	3	8		

NORMALS, MEANS, AND EXTREMES NEW YORK (KJFK)

LATITUDE: 40 ° 39'N LONGITUDE: -73 ° 47'W ELEVATION (FT): GRND: 11 BARO: 32 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	38.8	40.9	48.9	58.6	68.3	77.2	82.9	81.8	74.9	64.3	53.8	44.0	61.2
	MEAN DAILY MAXIMUM	48	38.9	40.6	48.2	58.5	68.0	77.2	82.9	82.1	75.3	64.4	54.0	43.7	61.2
	HIGHEST DAILY MAXIMUM	49	71	71	85	90	99	99	104	100	98	90	77	75	104
	YEAR OF OCCURRENCE		2007	1997	1990	2002	1969	1964	1966	1983	1983	2007	1993	1998	JUL 1966
	MEAN OF EXTREME MAXS.	48	56.5	56.8	65.8	77.5	84.7	91.7	94.5	92.7	87.6	77.8	69.3	59.5	76.2
	NORMAL DAILY MINIMUM	30	24.7	26.1	32.9	41.6	51.2	60.4	66.7	66.3	59.5	48.7	39.8	30.5	45.7
	MEAN DAILY MINIMUM	48	26.1	27.1	33.8	42.9	52.4	61.9	68.3	67.5	60.4	49.5	40.6	31.3	46.8
	LOWEST DAILY MINIMUM	49	-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.	48	9.5	12.0	18.9	31.4	42.5	52.1	60.3	57.8	48.3	36.6	27.1	16.1	34.4
	NORMAL DRY BULB	30	31.8	33.5	40.9	50.1	59.7	68.8	74.8	74.1	67.2	56.5	46.8	37.2	53.5
	MEAN DRY BULB	48	32.5	33.9	41.0	50.7	60.2	69.8	75.6	74.9	67.9	56.9	47.3	37.5	54.0
	MEAN WET BULB	26	28.3	29.2	34.8	43.6	53.3	62.8	67.7	67.3	61.2	50.9	41.9	32.6	47.8
	MEAN DEW POINT	26	23.5	23.8	29.7	38.9	49.9	59.8	65.1	65.0	58.2	47.2	37.5	27.6	43.9
	NORMAL NO. DAYS WITH:														
MAXIMUM >= 90	30	0.0	0.0	0.0	*	0.4	1.7	4.4	2.7	0.7	0.0	0.0	0.0	9.9	
MAXIMUM <= 32	30	8.2	5.5	0.9	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.6	18.3	
MINIMUM <= 32	30	22.6	19.2	10.8	1.0	0.0	0.0	0.0	0.0	0.0	0.2	4.0	15.8	73.6	
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	0.0	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	1015	869	731	433	182	21	6	4	43	264	532	847	4947
	NORMAL COOLING DEG. DAYS	30	0	0	0	2	31	151	326	300	125	13	1	0	949
RH	NORMAL (PERCENT)	30	66	65	64	64	71	72	72	73	73	70	68	66	69
	HOURLY 01 LST	30	69	68	68	71	78	80	79	81	80	77	73	70	75
	HOURLY 07 LST	30	71	71	70	70	74	76	76	79	80	79	76	72	75
	HOURLY 13 LST	30	60	57	55	55	60	61	60	61	60	58	59	59	59
	HOURLY 19 LST	30	64	63	63	64	70	72	72	74	72	69	66	64	68
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI) THUNDERSTORMS	46 48	2.2 0.2	1.9 0.2	2.5 0.9	2.3 1.6	3.4 3.2	2.8 4.1	1.6 4.8	0.9 4.5	0.9 1.8	1.9 0.9	1.8 0.6	2.0 0.1	24.2 22.9
CLOUDNESS	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	30.01	29.95	29.96	29.94	29.95	30.00	30.05	30.02	30.06	30.06	30.01
	MEAN SEA-LEVEL PRES. (IN)	26	30.07	30.07	30.04	29.98	29.99	29.97	29.97	30.03	30.07	30.08	30.08	30.08	30.04
WINDS	MEAN SPEED (MPH)	26	12.5	12.6	12.7	11.9	10.7	10.1	9.7	9.4	9.8	10.5	11.6	12.4	11.2
	PREVAIL.DIR(TENS OF DEGS)	40	33	32	32	19	19	19	19	19	19	25	32	31	19
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	13	45	46	49	46	40	43	51	38	47	45	49	49	51
	DIR. (TENS OF DEGS)		31	26	16	31	35	28	29	04	28	26	26	26	29
	YEAR OF OCCURRENCE		2000	2009	2008	2002	1998	1998	1997	2002	1998	2003	2003	2000	JUL 1997
	MAXIMUM 3-SECOND														
SPEED (MPH)	13	53	58	61	53	51	53	66	45	60	56	56	60	66	
DIR. (TENS OF DEGS)		25	24	17	31	36	27	33	04	30	29	26	26	33	
YEAR OF OCCURRENCE		2008	2008	2008	2002	1998	1998	1997	2002	2002	2009	2003	2000	JUL 1997	
PRECIPITATION	NORMAL (IN)	30	3.62	2.70	3.79	3.75	4.13	3.59	3.92	3.64	3.50	3.03	3.48	3.31	42.46
	MAXIMUM MONTHLY (IN)	62	8.33	5.48	8.17	9.51	10.71	9.23	8.81	17.41	9.65	14.97	9.51	6.73	17.41
	YEAR OF OCCURRENCE		1979	1960	1980	1983	1989	2003	1996	1955	1975	2005	1972	1986	AUG 1955
	MINIMUM MONTHLY (IN)	62	0.21	0.46	0.95	1.12	0.38	T	0.46	0.22	0.70	0.09	0.32	0.61	T
	YEAR OF OCCURRENCE		1956	2002	1981	1963	1955	1949	1954	1995	1951	1963	1976	1989	JUN 1949
	MAXIMUM IN 24 HOURS (IN)	62	3.78	2.87	2.59	3.31	2.88	6.27	5.92	6.59	5.83	5.67	4.09	3.12	6.59
	YEAR OF OCCURRENCE		1999	1958	2005	1980	1968	1984	1984	1955	1960	2005	1972	2008	AUG 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION >= 0.01	30	10.7	9.8	10.9	10.6	11.4	10.3	9.3	8.9	8.8	7.9	9.1	11.0	118.7	
PRECIPITATION >= 1.00	30	0.8	0.6	0.8	1.0	1.0	0.9	1.2	1.1	1.0	0.7	0.9	0.7	10.7	
SNOWFALL	NORMAL (IN)	30	7.1	7.3	3.3	0.6	0.0	0.0	0.0	0.0	0.0	0.*	0.3	2.7	21.3
	MAXIMUM MONTHLY (IN)	51	23.0	32.1	21.1	8.2	T	0.0	T	0.0	0.0	0.5	3.7	17.3	32.1
	YEAR OF OCCURRENCE		1996	2003	1960	1982	1995		2009			1962	1989	2003	FEB 2003
	MAXIMUM IN 24 HOURS (IN)	51	17.1	21.7	9.0	8.0	T	0.0	T	0.0	0.0	0.5	3.7	10.3	21.7
	YEAR OF OCCURRENCE		1996	1983	1993	1982	1995		2009			1962	1989	2000	FEB 1983
	MAXIMUM SNOW DEPTH (IN)	47	14	28	8	8	0	0	0	0	0	0	4	18	28
	YEAR OF OCCURRENCE		1978	2003	1993	1982							1989	1948	FEB 2003
NORMAL NO. DAYS WITH:															
SNOWFALL >= 1.0	30	1.9	1.7	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.7	5.5	

PRECIPITATION (inches) 2009 NEW YORK (KJFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	2.46	1.96	4.14	4.01	4.02	3.70	5.50	3.40	4.25	0.44	4.30	2.84	41.02
2001	2.90	1.73	7.00	1.90	2.60	4.28	2.73	2.07	4.59	0.47	0.61	1.84	32.72
2002	2.04	0.46	3.23	3.37	3.29	3.59	0.71	7.07	5.85	6.05	3.75	3.72	43.13
2003	1.77	4.48	3.56	3.14	4.01	9.23	2.31	2.28	2.67	3.42	3.91	3.99	44.77
2004	1.92	2.22	3.24	5.50	4.31	3.05	6.62	7.36	8.25	1.26	3.71	3.51	50.95
2005	3.39	2.52	4.25	4.83	1.78	2.08	5.21	0.58	2.16	14.97	4.05	3.73	49.55
2006	4.36	2.22	1.22	4.68	4.29	6.41	5.06	2.66	2.58	4.87	4.54	1.91	44.80
2007	3.09	1.37	3.64	6.98	2.20	5.35	5.29	5.88	1.11	5.27	2.34	4.39	46.91
2008	2.33	4.70	3.60	2.75	3.25	3.55	3.30	3.21	6.74	3.52	3.34	5.97	46.26
2009	2.85	0.98	1.92	4.24	4.39	7.74	3.57	3.50	3.16	5.87	1.41	6.25	45.88
POR= 48 YRS	3.27	2.72	3.60	3.78	3.81	3.62	3.82	3.62	3.49	3.27	3.29	3.60	41.89

WBAN : 94789

AVERAGE TEMPERATURE (°F) 2009 NEW YORK (KJFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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
2000	30.7	35.9	45.0	49.1	61.0	69.9	72.4	73.1	66.2	56.3	45.2	31.3	53.0
2001	31.8	35.1	39.1	51.4	61.3	72.5	72.3	77.2	67.3	57.0	51.0	43.3	54.9
2002	38.9	39.5	43.0	53.2	58.9	70.4	77.8	76.2	69.4	55.7	44.3	34.8	55.2
2003	27.6	29.2	40.9	47.9	56.7	67.7	75.6	76.4	69.1	55.3	49.2	37.1	52.7
2004	24.6	34.4	42.5	51.9	62.7	70.0	74.3	73.5	69.4	56.7	48.0	37.5	53.8
2005	30.6	35.2	38.2	52.6	57.4	71.0	76.0	78.4	72.1	57.6	48.5	34.8	54.4
2006	39.2	34.6	41.7	53.0	61.1	69.4	76.9	76.1	67.0	56.0	50.8	42.9	55.7
2007	37.3	28.6	40.3	49.5	62.4	70.5	74.6	74.0	68.9	63.0	45.1	37.3	54.3
2008	35.3	35.5	41.5	52.3	59.2	73.4	77.3	73.6	69.4	56.3	46.1	38.3	54.9
2009	28.7	36.0	40.9	52.8	60.5	67.4	73.7	76.5	66.9	55.7	51.1	36.2	53.9
POR= 48 YRS	32.5	33.9	41.0	50.7	60.2	69.8	75.6	74.9	67.9	56.9	47.3	37.5	54.0

HEATING DEGREE DAYS (base 65°F) 2009 NEW YORK (KJFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0	3	21	307	443	781	1057	836	614	471	156	29	4718
2000-01	0	0	76	270	587	1040	1019	829	797	401	143	8	5170
2001-02	0	0	47	252	412	667	801	711	673	380	201	25	4169
2002-03	0	0	12	320	614	926	1152	996	737	507	249	49	5562
2003-04	0	0	10	296	468	856	1245	880	694	388	106	14	4957
2004-05	0	0	12	254	502	844	1060	828	822	368	237	16	4943
2005-06	1	0	10	242	492	932	796	846	714	355	137	20	4545
2006-07	0	0	28	279	420	678	853	1013	757	465	137	10	4640
2007-08	0	9	21	125	591	852	911	848	721	376	178	2	4634
2008-09	0	0	15	275	560	821	1119	803	740	377	148	33	4891
2009-	0	0	30	286	415	885							

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COOLING DEGREE DAYS (base 65°F) 2009 NEW YORK (KJFK)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
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
2000	0	0	0	0	42	182	238	255	120	8	0	0	845
2001	0	0	0	2	37	238	235	385	122	10	0	0	1029
2002	0	0	0	32	18	195	406	354	150	34	0	0	1189
2003	0	0	0	2	2	136	334	360	140	2	0	0	976
2004	0	0	0	0	42	170	299	269	153	1	0	0	934
2005	0	0	0	2	9	203	347	421	233	20	0	0	1235
2006	0	0	0	0	26	157	376	350	95	9	0	0	1013
2007	0	0	0	2	62	183	308	295	145	69	0	0	1064
2008	0	0	0	2	5	261	387	273	153	12	0	0	1093
2009	0	0	0	16	18	113	276	364	94	2	0	0	883

SNOWFALL (inches) 2009 NEW YORK (KJFK)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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
1999-00	0.0	0.0	0.0	0.0	T	0.1	8.5	3.3	0.7	1.5	0.0	0.0	14.1
2000-01	0.0	0.0	0.0	T	T	11.9	8.2	8.1	5.8	T	0.0	0.0	34.0
2001-02	0.0	0.0	0.0	0.0	0.0	T	4.1	0.3	0.1	T	0.0	0.0	4.5
2002-03	0.0	0.0	0.0	T	0.3	11.3	4.3	32.1	2.8	5.4	0.0	0.0	56.2
2003-04	0.0	0.0	0.0	0.0	T	17.3	13.8	0.2	6.3	0.0	0.0	0.0	37.6
2004-05	0.0	0.0	0.0	0.0	T	2.6	13.2	13.2	7.8	0.0	0.0	0.0	36.8
2005-06	0.0	0.0	0.0	0.0	0.0	5.0	2.1	16.8	0.5	1.0	0.0	0.0	25.4
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.3	3.5	T	0.0	0.0	8.5
2007-08	0.0	0.0	0.0	0.0	0.0	2.4	0.4	8.9	T	0.0	0.0	0.0	11.7
2008-09	0.0	0.0	0.0	T	T	4.9	6.4	4.0	7.0	T	0.0	0.0	22.3
2009-	T	0.0	0.0	0.0	0.0	16.2							
POR= 48 YRS	T	0.0	0.0	T	0.3	3.7	6.7	7.9	3.4	0.6	T	0.0	22.6

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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 (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. 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.</p>	<p>GENERAL CONTINUED: 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. 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. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK METADATA SYSTEM", URL IS: https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</p> <p>NOTE: The "Period of Record:(POR) for all "averages" is based on the "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2009 NEW YORK JFK INTERNATIONAL AIRPORT (KJFK)

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.

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