

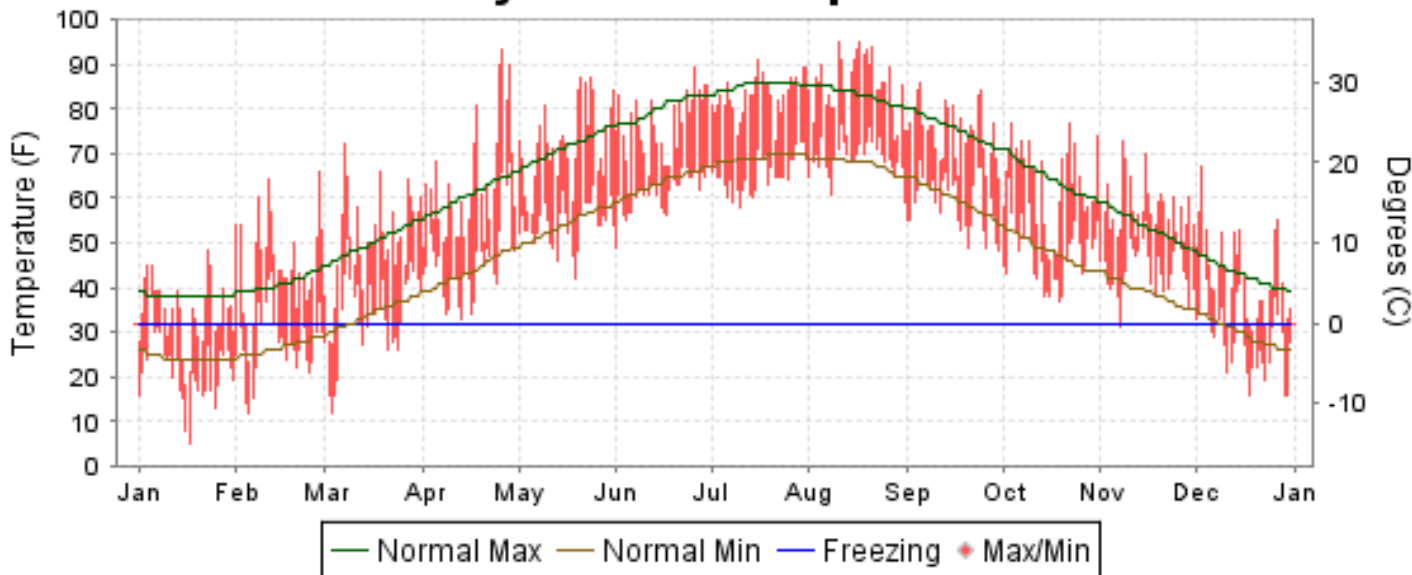


2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

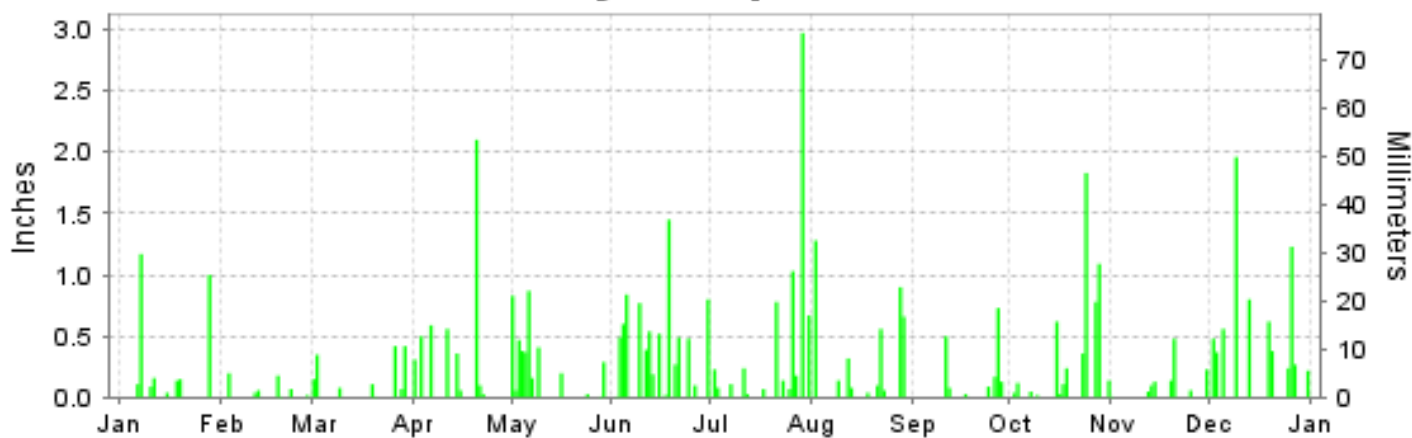
ISSN 0198-3431

NEWARK, NEW JERSEY (KEWR)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

Thomas R. Karl
DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2009

NEWARK (KEWR)

LATITUDE: 40 ° 40'N LONGITUDE: -74 ° 10'W ELEVATION (FT): GRND: 7 BARO: 28 TIME ZONE: EASTERN (UTC -5) WBAN: 14734

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	34.4	45.6	50.6	63.4	72.4	76.3	83.1	85.3	74.9	63.5	57.8	42.5	62.5	
	HIGHEST DAILY MAXIMUM	48	66	72	93	87	89	91	95	86	77	73	67	95	
	DATE OF OCCURRENCE	23	27	07	26	24+	26	16	17+	05	22+	08	03	AUG 17+	
	MEAN DAILY MINIMUM	21.4	27.7	33.7	45.5	54.1	61.4	65.4	69.2	58.9	47.7	43.8	28.7	46.5	
	LOWEST DAILY MINIMUM	5	12	12	33	42	49	58	59	48	37	31	16	5	
	DATE OF OCCURRENCE	17	05	03	13	19	01	10	31	30	19	07	30+	JAN 17	
	AVERAGE DRY BULB	27.9	36.7	42.2	54.5	63.3	68.9	74.3	77.3	66.9	55.6	50.8	35.6	54.5	
	MEAN WET BULB	23.6	30.5	35.6	45.5	55.1	61.7	65.0	68.0	59.1	49.1	44.9	30.8	47.4	
	MEAN DEW POINT	12.4	18.0	24.3	34.5	47.5	57.1	58.6	62.6	52.9	42.0	37.2	20.7	39.0	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	3	0	0	0	1	10	0	0	0	0	14
MAXIMUM <= 32°	12	3	2	0	0	0	0	0	0	0	0	0	5	22	
MINIMUM <= 32°	30	23	13	0	0	0	0	0	0	0	0	1	20	87	
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	1142	785	700	352	101	20	0	0	37	292	421	905	4755	
	COOLING DEGREE DAYS	0	0	0	44	56	142	293	386	100	6	0	0	1027	
RH	MEAN (PERCENT)	54	49	53	51	61	70	61	63	62	63	61	56	59	
	HOUR 01 LST	57	56	57	59	70	77	72	73	72	70	68	60	66	
	HOUR 07 LST	59	58	60	53	65	71	65	68	68	69	68	61	64	
	HOUR 13 LST	47	39	43	43	49	59	49	50	49	51	50	49	48	
	HOUR 19 LST	53	47	52	51	58	70	59	61	61	62	60	56	58	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	2	0	1	2	0	1	0	1	0	2	9	
	THUNDERSTORMS	0	0	1	4	4	5	8	5	0	1	2	0	30	
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.)	29.11	30.01	30.12	29.93	30.00	29.82	29.89	29.96	30.05	29.99	30.06	30.02	29.91	
	MEAN SEA-LEVEL PRESS. (IN.)	30.02	30.04	30.15	29.96	30.03	29.85	29.93	29.99	30.08	30.03	30.09	30.05	30.02	
WINDS	RESULTANT SPEED (MPH)	6.3	6.9	3.5	2.9	1.7	1.1	1.9	2.0	2.6	3.0	5.2	6.5	3.1	
	RES. DIR. (TENS OF DEGS.)	29	30	34	29	26	02	25	27	01	32	35	30	31	
	MEAN SPEED (MPH)	9.9	11.1	10.1	10.8	8.8	7.7	7.8	6.8	8.5	9.1	9.8	11.4	9.3	
	PREVAIL.DIR.(TENS OF DEGS.)	28	27	03	27	23	03	25	24	02	02	02	31	02	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	32	49	35	40	30	37	40	36	33	40	36	41	49	
	DIR. (TENS OF DEGS.)	26	27	01	27	31	34	17	29	24	27	30	32	27	
	DATE OF OCCURRENCE	08	12	02	04	10	26	29	21	28	07	28	29	FEB 12	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	60	39	49	37	43	56	45	44	55	48	49	60	
DIR. (TENS OF DEGS.)	32	27	31	27	31	33	17	29	25	29	28	32	27		
DATE OF OCCURRENCE	14	12	30	04	10	26	29	21	28	07	28	29	FEB 12		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.86	0.58	1.61	4.61	4.08	7.96	6.60	4.14	1.73	5.43	1.20	7.13	47.93	
	GREATEST 24-HOUR (IN.)	1.27	0.20	0.50	2.12	0.98	1.47	2.97	1.28	0.90	2.11	0.62	1.96	2.97	
	DATE OF OCCURRENCE	06-07	03	01-02	20-21	06-07	17-18	29	02	26-27	23-24	19-20	09	JUL 29	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	8	7	8	9	12	16	13	10	7	13	8	11	122	
PRECIPITATION 0.10	6	2	5	7	9	14	9	7	4	9	5	11	88		
PRECIPITATION 1.00	2	0	0	1	0	1	2	1	0	2	0	2	11		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	8.9	2.9	7.0	T	0.0	0.0	T	0.0	0.0	0.0	0.0	13.3	32.1	
	GREATEST 24-HOUR (IN.)	2.7	2.9	5.3	T	0.0	0.0	T	0.0	0.0	0.0	0.0	6.9	6.9	
	DATE OF OCCURRENCE	28	03	02	08			29+					19	DEC 19	
	MAXIMUM SNOW DEPTH (IN.)	2	3	5	0	0	0	0	0	0	0	0	8	8	
	DATE OF OCCURRENCE	28+	04	03+									20	DEC 20	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	5	1	2	0	0	0	0	0	0	0	0	3	11		

NORMALS, MEANS, AND EXTREMES NEWARK (KEWR)

LATITUDE: 40 ° 40'N LONGITUDE: -74 ° 10'W ELEVATION (FT): GRND: 7 BARO: 28 TIME ZONE: EASTERN (UTC -5) WBAN: 14734

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	38.1	41.1	50.1	60.8	71.4	80.2	85.2	83.2	75.7	64.7	53.7	43.0	62.3
	MEAN DAILY MAXIMUM	74	38.7	41.2	49.9	61.4	72.1	81.0	85.9	84.2	76.8	66.0	54.4	42.8	62.9
	HIGHEST DAILY MAXIMUM	68	74	76	89	97	99	102	105	105	105	92	85	76	105
	YEAR OF OCCURRENCE		1950	1949	1945	2002	1996	1994	1993	2001	1953	1949	1950	1998	AUG 2001
	MEAN OF EXTREME MAXS.	74	58.7	60.1	71.7	83.3	89.8	95.2	97.4	95.1	90.7	82.2	72.1	61.9	79.9
	NORMAL DAILY MINIMUM	30	24.4	26.6	34.2	43.7	54.1	63.5	69.1	67.7	59.9	48.2	39.1	29.8	46.7
	MEAN DAILY MINIMUM	74	24.5	25.9	33.3	43.0	53.0	62.4	68.0	66.8	59.1	48.0	38.8	28.8	46.0
	LOWEST DAILY MINIMUM	68	-8	-7	6	16	33	43	52	45	35	28	15	-1	-8
	YEAR OF OCCURRENCE		1985	1943	1943	1982	1947	1945	1952	1982	1947	1969	1955	1980	JAN 1985
	MEAN OF EXTREME MINS.	74	7.9	9.9	18.1	30.9	41.2	51.3	59.1	56.6	45.3	34.8	24.9	13.2	32.8
	NORMAL DRY BULB	30	31.3	33.8	42.2	52.3	62.7	71.9	77.2	75.5	67.8	56.4	46.4	36.4	54.5
	MEAN DRY BULB	74	31.6	33.6	41.6	52.2	62.5	71.8	76.9	75.5	68.0	57.0	46.6	35.9	54.4
	MEAN WET BULB	26	27.6	28.9	35.0	44.2	54.0	63.4	67.7	67.1	60.8	50.3	41.2	31.8	47.7
	MEAN DEW POINT	26	22.6	23.2	29.3	38.4	49.6	59.4	64.4	64.1	57.5	46.2	36.4	26.5	43.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	1.8	4.9	9.7	6.9	1.5	0.0	0.0	0.0	25.0
	MAXIMUM <= 32	30	8.8	5.4	0.7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.9	18.9
	MINIMUM <= 32	30	23.4	20.1	11.9	1.4	0.0	0.0	0.0	0.0	0.0	0.4	6.2	18.3	81.7
MINIMUM <= 0	30	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8	
H/C	NORMAL HEATING DEG. DAYS	30	1030	869	697	375	126	13	1	6	42	269	543	872	4843
	NORMAL COOLING DEG. DAYS	30	0	0	2	10	70	236	394	347	142	18	1	0	1220
RH	NORMAL (PERCENT)	30	66	63	60	58	64	64	64	67	69	68	66	66	65
	HOURLY 01 LST	30	71	69	67	66	73	73	74	77	78	77	72	71	72
	HOURLY 07 LST	30	74	72	70	66	71	71	72	76	79	79	76	74	73
	HOURLY 13 LST	30	59	54	51	48	52	51	51	53	55	53	55	58	53
	HOURLY 19 LST	30	64	60	57	55	59	59	59	63	65	64	63	63	61
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	1.6	1.2	1.2	0.7	1.0	0.7	0.2	0.2	0.4	1.1	1.3	1.2	10.8
	THUNDERSTORMS	74	0.3	0.3	1.0	1.7	3.7	5.1	6.0	4.6	2.1	1.0	0.5	0.3	26.6
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)	50	5.2	5.0	5.0	5.1	5.2	5.0	4.9	4.7	4.5	4.3	5.0	5.1	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	51	4.8	4.7	4.9	4.8	5.0	4.9	4.7	4.5	4.4	4.2	4.9	4.9	4.7
	MEAN NO. DAYS WITH: CLEAR	54	7.7	7.3	8.0	7.2	6.3	6.7	6.5	7.7	9.5	10.8	7.5	7.9	93.1
	PARTLY CLOUDY	54	7.7	7.6	8.4	8.9	10.6	10.9	12.2	11.7	8.9	8.4	8.2	8.0	111.5
	CLOUDY	54	15.7	13.4	14.6	14.0	14.1	12.4	12.3	11.6	11.6	11.8	14.3	15.1	160.9
PR	MEAN STATION PRESSURE(IN)	26	30.00	30.03	30.01	29.94	29.95	29.93	29.94	29.98	30.03	30.05	30.05	30.05	30.00
	MEAN SEA-LEVEL PRES. (IN)	26	30.07	30.06	30.04	29.97	29.99	29.96	29.97	30.02	30.06	30.08	30.08	30.08	30.03
WINDS	MEAN SPEED (MPH)	26	10.8	11.1	11.3	10.7	9.8	9.5	8.8	8.6	9.0	9.4	10.2	10.6	10.0
	PREVAIL.DIR.(TENS OF DEGS)	39	26	32	33	33	24	25	25	24	03	03	24	26	26
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	44	49	53	55	49	48	48	44	44	44	46	48	55
	DIR. (TENS OF DEGS)		28	27	26	29	28	35	32	35	03	27	28	27	29
	YEAR OF OCCURRENCE		1999	2009	2008	2002	2007	2005	2006	2002	2004	2006	2003	2000	APR 2002
	MAXIMUM 3-SECOND SPEED (MPH)	13	54	60	64	76	56	62	64	53	55	55	58	62	76
	DIR. (TENS OF DEGS)		28	27	27	27	27	34	32	30	35	29	26	27	27
YEAR OF OCCURRENCE		2000	2009	2008	2002	2007	2005	2006	1997	1998	2009	2003	2000	APR 2002	
PRECIPITATION	NORMAL (IN)	30	3.98	2.96	4.21	3.92	4.46	3.40	4.68	4.02	4.01	3.16	3.88	3.57	46.25
	MAXIMUM MONTHLY (IN)	68	10.10	5.82	11.14	11.85	10.22	10.50	9.98	11.84	10.28	13.22	11.53	9.47	13.22
	YEAR OF OCCURRENCE		1979	2008	1983	2007	1984	2003	1988	1955	1944	2005	1977	1983	OCT 2005
	MINIMUM MONTHLY (IN)	68	0.45	0.52	0.79	0.90	0.52	0.07	0.89	0.36	.45	0.21	0.51	0.27	0.07
	YEAR OF OCCURRENCE		1981	2002	2006	1963	1964	1949	1966	1995	2005	1963	1976	1955	JUN 1949
	MAXIMUM IN 24 HOURS (IN)	68	3.59	2.45	2.83	6.25	4.22	2.97	4.64	7.84	6.41	4.24	7.22	2.84	7.84
	YEAR OF OCCURRENCE		1979	1961	1991	2007	1979	1992	1997	1971	1999	2005	1977	2008	AUG 1971
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.5	9.9	10.9	10.8	11.7	10.7	10.0	9.6	9.0	8.3	9.5	10.7	121.6
PRECIPITATION >= 1.00	30	1.0	0.6	0.9	1.0	1.1	1.0	1.2	1.1	1.0	0.9	1.0	1.0	11.8	
SNOWFALL	NORMAL (IN)	30	8.9	8.4	4.3	0.8	0.*	0.0	0.0	0.0	0.0	0.*	0.6	2.9	25.9
	MAXIMUM MONTHLY (IN)	68	31.6	33.4	26.0	13.8	T	T	T	T	T	0.3	5.7	29.1	33.4
	YEAR OF OCCURRENCE		1996	1994	1956	1982	1995	2008	2009	2008	2008	1952	1989	1947	FEB 1994
	MAXIMUM IN 24 HOURS (IN)	68	27.4	20.0	17.6	12.8	T	T	T	T	T	0.3	5.7	26.0	27.4
	YEAR OF OCCURRENCE'		1996	1961	1956	1982	1995	2001	2009	2002	1998	1952	1989	1947	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	23	17	25	18	11	0	0	0	0	0	0	9	22	25
	YEAR OF OCCURRENCE		1978	1961	1956	1982							1938	1947	FEB 1961
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.4	1.9	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	6.6	

PRECIPITATION (inches) 2009 NEWARK (KEWR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	1.66	1.28	9.13	7.28	2.61	3.27	2.78	0.92	1.87	3.37	3.71	0.63	38.51
1981	0.45	4.81	1.10	3.15	3.88	2.61	4.51	0.57	3.42	3.47	1.75	5.32	35.04
1982	6.77	2.36	2.82	6.20	2.96	5.28	2.86	2.78	2.39	1.68	3.16	1.32	40.58
1983	4.37	3.03	11.14	11.14	4.22	2.81	1.59	3.46	2.93	5.80	5.54	9.47	65.50
1984	2.78	4.57	6.96	6.36	10.22	4.77	8.65	1.74	2.46	3.93	2.88	3.69	59.01
1985	1.22	2.58	1.59	1.17	4.23	4.29	4.52	2.58	4.19	1.29	8.32	1.31	37.29
1986	4.44	3.88	1.95	5.88	1.41	1.71	6.62	4.16	1.96	1.93	6.78	5.23	45.95
1987	6.21	1.30	3.81	5.06	2.55	4.13	4.66	5.26	3.87	3.37	2.94	2.37	45.53
1988	3.74	4.15	2.13	1.97	5.86	1.06	9.98	1.82	1.66	2.45	7.71	0.98	43.51
1989	1.98	2.70	4.42	3.25	8.80	5.41	5.23	7.03	6.45	5.40	2.57	0.75	53.99
1990	4.72	1.71	2.81	3.98	6.87	3.68	4.98	7.71	2.72	5.11	2.82	5.19	52.30
1991	3.72	1.81	5.49	3.91	4.80	2.95	5.21	5.63	3.24	1.29	2.04	3.67	43.76
1992	1.27	1.37	3.48	1.35	3.46	4.67	4.79	3.37	2.60	0.73	5.02	4.63	36.74
1993	2.75	2.87	7.22	4.59	1.77	1.21	2.15	2.84	6.29	3.98	1.95	4.89	42.51
1994	6.09	4.77	6.90	2.98	3.64	3.58	3.57	5.01	2.26	1.04	4.36	3.12	47.32
1995	3.29	3.36	1.30	2.24	3.27	1.64	5.98	0.36	3.64	4.77	5.79	2.03	37.67
1996	5.24	2.34	4.40	5.63	2.59	5.06	8.27	2.39	6.05	6.92	2.31	6.87	58.07
1997	3.50	2.18	5.19	3.08	3.12	2.42	7.05	2.89	2.20	2.02	4.54	4.16	42.35
1998	4.93	4.77	4.14	6.17	6.52	5.98	1.34	3.20	2.72	1.81	0.86	1.03	43.47
1999	6.87	3.10	3.63	1.90	4.19	0.41	1.01	5.51	9.38	2.90	2.90	2.95	44.75
2000	3.39	1.60	3.43	3.57	5.66	3.42	6.30	4.73	4.58	0.54	2.71	3.42	43.35
2001	2.57	1.79	6.69	1.71	2.88	3.97	2.29	1.97	4.29	0.46	0.81	2.01	31.44
2002	1.85	0.52	3.59	3.76	3.89	5.88	1.19	4.05	3.66	6.79	4.48	3.71	43.37
2003	2.94	3.90	3.98	2.42	3.45	10.50	2.59	8.21	5.57	3.72	3.94	5.11	56.33
2004	1.89	2.44	3.07	4.85	4.60	2.95	8.39	3.70	8.01	0.89	4.21	3.37	48.37
2005	3.93	2.81	4.16	3.42	1.21	2.99	4.05	0.51	0.45	13.22	3.74	3.65	44.14
2006	4.82	2.36	0.79	4.05	3.35	5.99	6.71	2.82	3.38	6.75	6.95	2.19	50.16
2007	3.50	1.43	3.93	11.85	1.87	5.24	6.71	7.32	1.81	3.70	2.35	4.78	54.49
2008	2.30	5.82	3.61	2.70	3.95	5.63	3.14	2.80	7.14	2.79	3.07	5.88	48.83
2009	2.86	0.58	1.61	4.61	4.08	7.96	6.60	4.14	1.73	5.43	1.20	7.13	47.93
POR= 74 YRS	3.45	2.90	3.97	3.80	3.85	3.59	4.31	4.09	3.76	3.26	3.63	3.53	44.14

WBAN : 14734

AVERAGE TEMPERATURE (°F) 2009 NEWARK (KEWR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	34.0	30.8	38.9	52.6	65.9	70.2	78.9	78.6	70.8	55.0	42.9	30.4	54.1
1981	24.1	37.6	40.2	55.3	64.0	74.6	79.3	75.1	67.2	53.1	46.0	34.6	54.3
1982	24.2	36.2	41.8	50.6	63.2	67.9	78.4	72.5	66.7	56.9	48.8	42.8	54.2
1983	35.0	35.9	44.7	52.2	60.8	73.5	79.6	77.6	70.6	57.8	47.8	34.2	55.8
1984	27.8	40.8	36.5	52.7	62.2	75.0	76.6	77.3	65.4	62.3	45.3	40.8	55.2
1985	24.9	33.5	44.5	57.0	67.1	69.4	76.3	75.6	70.2	58.5	49.5	33.3	55.0
1986	33.0	31.1	44.2	53.4	66.7	72.7	76.9	74.2	68.6	58.0	45.0	38.1	55.2
1987	31.5	33.0	45.0	53.9	63.9	74.5	79.4	75.3	68.7	53.7	47.6	38.4	55.4
1988	28.7	34.4	43.9	51.1	63.4	73.0	80.5	79.8	68.0	52.6	48.9	35.5	55.0
1989	37.0	34.2	42.4	52.5	63.2	74.3	77.2	76.3	69.9	59.1	45.0	25.6	54.7
1990	40.4	39.8	44.9	53.3	61.1	73.4	77.8	76.6	68.6	62.4	50.0	42.3	57.6
1991	33.6	38.6	44.4	54.8	68.9	74.2	77.9	77.7	68.0	58.3	47.6	38.8	56.9
1992	35.2	36.0	39.3	50.2	61.7	72.6	76.9	75.1	69.6	55.7	47.8	38.8	54.9
1993	37.6	31.0	40.2	54.3	67.0	75.8	82.6	79.2	69.2	56.4	47.8	37.2	56.5
1994	25.4	30.4	41.6	57.4	63.7	77.8	81.9	75.7	69.7	58.7	52.0	41.4	56.3
1995	37.5	30.8	45.5	52.6	62.7	73.1	79.6	78.5	68.6	61.0	42.9	31.7	55.4
1996	29.7	33.6	38.8	53.1	61.6	72.9	73.9	74.0	68.0	55.5	41.9	40.2	53.6
1997	31.1	39.4	41.8	50.9	59.2	70.9	76.8	73.6	66.9	56.5	43.7	37.6	54.0
1998	40.1	40.8	45.2	53.9	64.9	70.1	77.6	77.0	70.4	57.6	47.6	41.9	57.3
1999	33.5	37.8	42.9	53.4	63.3	74.2	80.9	76.2	69.3	55.5	50.1	39.4	56.4
2000	31.5	37.4	47.8	51.4	64.2	72.4	73.7	73.3	66.4	57.0	45.2	30.7	54.3
2001	32.2	35.7	40.0	53.4	64.0	73.9	74.1	79.1	67.4	57.8	51.9	43.6	56.1
2002	39.4	40.3	44.1	56.0	60.9	72.4	80.1	77.9	70.5	55.6	45.4	35.2	56.5
2003	27.5	29.4	43.1	49.9	59.0	69.3	77.3	77.6	68.6	55.1	49.7	36.6	53.6
2004	24.2	34.7	43.8	54.0	66.3	72.2	75.0	74.6	69.6	55.6	47.5	36.5	54.5
2005	30.0	35.6	38.5	54.4	59.1	74.7	78.3	80.4	73.5	57.8	48.7	33.8	55.4
2006	39.7	35.2	43.2	55.7	63.8	72.6	79.5	77.3	66.7	55.8	51.3	43.0	57.0
2007	37.1	27.9	42.0	50.1	65.1	72.8	75.9	75.3	70.1	63.5	44.9	36.5	55.1
2008	35.7	35.7	43.0	54.7	60.5	75.3	78.7	74.1	69.5	55.4	45.4	37.4	55.5
2009	27.9	36.7	42.2	54.5	63.3	68.9	74.3	77.3	66.9	55.6	50.8	35.6	54.5
POR= 74 YRS	31.6	33.6	41.6	52.2	62.5	71.8	76.9	75.5	68.0	57.0	46.6	35.9	54.4

HEATING DEGREE DAYS (base 65°F) 2009 NEWARK (KEWR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	28	314	654	1066	1261	762	764	290	96	0	5235
1981-82	0	0	52	360	563	934	1258	802	712	433	85	42	5241
1982-83	0	13	36	267	493	679	923	810	622	395	162	5	4405
1983-84	0	0	52	249	510	949	1144	696	874	366	128	9	4977
1984-85	0	0	83	114	584	745	1235	877	641	268	62	15	4624
1985-86	0	0	21	212	462	971	985	942	642	341	89	7	4672
1986-87	0	11	22	240	594	826	1030	893	616	331	140	3	4706
1987-88	0	1	25	342	518	818	1117	880	647	410	120	28	4906
1988-89	1	0	18	386	476	906	859	853	698	366	132	6	4701
1989-90	0	0	37	190	594	1215	756	699	622	369	122	2	4606
1990-91	1	1	50	163	446	697	967	734	630	330	63	4	4086
1991-92	0	0	55	227	513	804	917	834	790	441	148	4	4733
1992-93	0	0	38	295	510	807	842	946	765	318	42	4	4567
1993-94	0	0	48	263	513	853	1219	964	718	242	104	0	4924
1994-95	0	0	7	195	387	724	848	952	596	371	112	0	4192
1995-96	0	0	32	163	657	1026	1091	906	809	369	176	7	5236
1996-97	0	0	46	291	685	763	1043	714	713	418	179	43	4895
1997-98	1	0	51	294	635	842	765	672	633	327	94	22	4336
1998-99	0	0	19	227	516	711	970	754	674	345	92	2	4310
1999-00	0	2	22	290	439	786	1031	793	521	399	106	22	4411
2000-01	0	0	80	251	586	1056	1010	813	768	353	106	7	5030
2001-02	0	0	53	241	389	658	788	686	641	330	169	16	3971
2002-03	0	2	8	325	584	919	1155	989	672	456	188	37	5335
2003-04	0	0	14	306	456	875	1254	870	650	332	66	10	4833
2004-05	0	0	14	286	521	874	1078	817	813	322	194	13	4932
2005-06	0	0	9	245	481	959	779	828	667	281	98	11	4358
2006-07	0	0	38	293	403	676	858	1031	705	449	95	5	4553
2007-08	0	8	21	128	598	879	901	842	679	310	165	0	4531
2008-09	0	0	21	303	578	847	1142	785	700	352	101	20	4849
2009-	0	0	37	292	421	905							

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COOLING DEGREE DAYS (base 65°F) 2009 NEWARK (KEWR)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	97	187	435	427	209	10	0	0	1365
1981	0	0	0	6	75	293	446	319	124	0	0	0	1263
1982	0	0	0	6	39	136	421	249	95	24	12	0	982
1983	0	0	0	19	39	268	458	396	226	36	0	0	1442
1984	0	0	0	2	47	316	365	388	102	36	0	0	1256
1985	0	0	11	36	134	152	357	335	183	19	3	0	1230
1986	0	0	2	2	149	243	380	303	136	30	0	0	1245
1987	0	0	0	6	116	293	453	327	143	0	1	0	1339
1988	0	0	0	0	75	274	488	465	115	10	0	0	1427
1989	0	0	3	1	81	294	385	360	194	16	0	0	1334
1990	0	0	7	23	11	262	403	365	165	89	2	0	1327
1991	0	0	0	28	190	288	406	399	151	28	0	0	1490
1992	0	0	0	4	52	242	373	323	185	15	0	0	1194
1993	0	0	0	5	113	340	553	450	182	9	4	0	1656
1994	0	0	0	23	74	389	530	338	155	5	4	0	1518
1995	0	0	0	3	49	247	460	425	147	44	0	0	1375
1996	0	0	0	21	77	252	282	288	144	2	2	0	1068
1997	0	0	0	0	6	229	375	278	115	37	0	0	1040
1998	0	0	29	0	95	182	398	377	188	4	0	0	1273
1999	0	0	0	2	47	283	499	360	158	3	0	0	1352
2000	0	0	0	0	89	251	278	265	129	11	0	0	1023
2001	0	0	0	11	84	282	291	442	131	27	1	0	1269
2002	0	0	0	68	49	247	472	408	180	38	0	0	1462
2003	0	0	0	9	7	173	388	398	129	4	4	0	1112
2004	0	0	0	8	115	229	316	303	160	1	0	0	1132
2005	0	0	0	10	20	305	420	485	269	26	0	0	1535
2006	0	0	0	11	67	245	456	388	96	16	0	0	1279
2007	0	0	0	8	109	243	348	333	180	89	0	0	1310
2008	0	0	0	8	32	316	434	288	165	12	0	0	1255
2009	0	0	0	44	56	142	293	386	100	6	0	0	1027

SNOWFALL (inches) 2009 NEWARK (KEWR)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	0.4	3.1	6.9	T	9.1	0.0	0.0	0.0	19.5
1981-82	0.0	0.0	0.0	0.0	T	3.4	12.3	0.5	0.8	13.8	0.0	0.0	30.8
1982-83	0.0	0.0	0.0	0.0	T	2.9	2.3	21.5	0.2	4.1	0.0	0.0	31.0
1983-84	0.0	0.0	0.0	0.0	1.2	2.4	13.7	0.3	11.3	T	0.0	0.0	28.9
1984-85	0.0	0.0	0.0	0.0	T	6.8	8.9	7.4	0.1	T	0.0	0.0	23.2
1985-86	0.0	0.0	0.0	0.0	0.6	4.6	2.8	13.9	T	0.1	0.0	0.0	22.0
1986-87	0.0	0.0	0.0	0.0	T	2.3	21.4	6.5	2.4	0.0	0.0	0.0	32.6
1987-88	0.0	0.0	0.0	0.0	1.5	2.3	15.4	2.7	0.9	T	0.0	0.0	
1988-89	0.0	0.0	0.0	0.0	0.0	0.1	4.1	0.6	2.7	0.0	0.0	0.0	7.5
1989-90	0.0	0.0	0.0	0.0	5.7	0.5	2.4	2.8	2.5	0.6	0.0	0.0	14.5
1990-91	0.0	0.0	0.0	0.0	T	7.6	8.5	5.2	0.2	0.0	0.0	0.0	21.5
1991-92	0.0	0.0	0.0	0.0	T	0.5	1.0	1.0	11.4	T	0.0	0.0	13.9
1992-93	0.0	0.0	0.0	0.0	T	0.5	0.8	10.7	16.8	0.0	0.0	0.0	28.8
1993-94	0.0	0.0	0.0	0.0	T	3.9	18.5	33.4	8.7	0.0	T	0.0	64.5
1994-95	0.0	0.0	0.0	0.0	T	T	0.1	10.2	T	0.0	T	0.0	10.3
1995-96	0.0	0.0	0.0	0.0	3.0	12.8	31.6	18.4	11.9	0.7	0.0	0.0	78.4
1996-97					T	T	3.4	4.4	7.1	1.4	0.0	0.0	
1997-98	0.0	0.0	0.0	0.0	0.2	1.4	2.2	T	3.1	T	0.0	0.0	6.9
1998-99	0.0	0.0	T	0.0	0.0	1.2	4.1	2.0	5.5	0.0	0.0	0.0	12.8
1999-00	0.0	0.0	0.0	0.0	T	T	12.2	5.3	T	0.9	0.0	0.0	18.4
2000-01	0.0	0.0	0.0	0.0	0.0	14.9	6.1	11.1	7.2	0.0	T	T	39.3
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	3.6	T	T	T	0.0	T	3.6
2002-03	0.0	T	0.0	T	0.6	10.2	4.7	29.9	3.3	4.4	0.0	0.0	53.1
2003-04	0.0	0.0	0.0	0.0	T	21.0	16.9	0.4	9.5	0.0	T	0.0	47.8
2004-05	0.0	0.0	0.0	0.0	T	1.6	15.4	18.6	7.8	0.0	0.0	0.0	43.4
2005-06	0.0	0.0	0.0	0.0	T	11.0	2.9	21.5	1.2	1.3	0.0	0.0	37.9
2006-07	T	0.0	0.0	0.0	0.0	T	3.9	5.5	7.1	T	0.0	T	16.5
2007-08	0.0	0.0	0.0	0.0	0.4	3.9	T	10.3	0.0	0.0	0.0	T	14.6
2008-09	T	T	T	T	T	8.3	8.9	2.9	7.0	T	0.0	0.0	27.1
2009-	T	0.0	0.0	0.0	0.0	13.3							
POR= 74 YRS	T	T	T	T	0.6	5.2	7.5	8.2	4.9	0.7	T	T	27.1

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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 MEDADATA 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 NEWARK NEW JERSEY (KEWR)

Terrain in vicinity of the station is flat and rather marshy. To the northwest are ridges oriented roughly in a south-southwest to north-northeast direction. They rise to an elevation of about 200 feet at 4.5 to 5 miles and to 500 to 600 feet at 7 to 8 miles. All winds between west-northwest and north-northwest are downslope and therefore are subject to some adiabatic temperature increase. This effect is evident in the rapid improvement which normally occurs with shift of wind to westerly, following a coastal storm or frontal passage. The drying effect of the downslope winds accounts for the relatively few local thunderstorms occurring at the station, compared to areas to the west. Easterly winds, particularly southeasterly, moderate the temperature because of the influence of the Atlantic Ocean.

Temperature falls of 5 to 15 degrees, depending on the season, are not uncommon when the wind backs from southwesterly to southeasterly. Periods of very hot weather, lasting as long as a week, are associated with a west-southwest air flow which has a long trajectory over land. Extremes of cold are related to rapidly moving outbreaks of cold air traveling southeastward from the

Hudson Bay region. Temperatures of zero or below occur in one winter out of four, but are much more common several miles to the west of the station. Average dates of the last occurrence in spring and the first occurrence in autumn of temperatures as low as 32 degrees are in mid-April and the end of October or early November. Areas to the west of the station experience a growing season at least a month shorter than that at the airport.

A considerable amount of precipitation is realized from the Northeasters of the Atlantic coast. These storms, more typical of the fall and winter, generally last for a period of two days and commonly produce between 1 and 2 inches of precipitation. Storms producing 4 inches or more of snow occur from two to five times a winter. Snowstorms producing 8 inches or more have occurred in about one-half the winters. As many as three such storms have been experienced in one winter. The frequency and intensity of snow storms and the duration of snow cover increase dramatically within a few miles to the west of the station.

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