

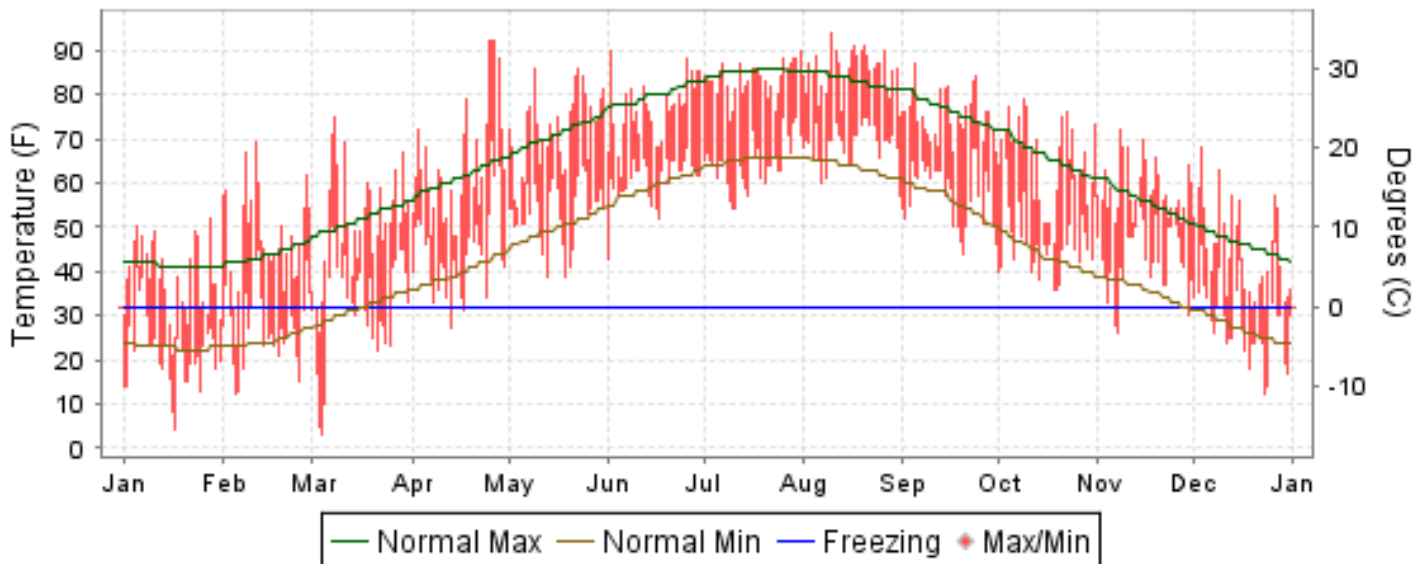


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

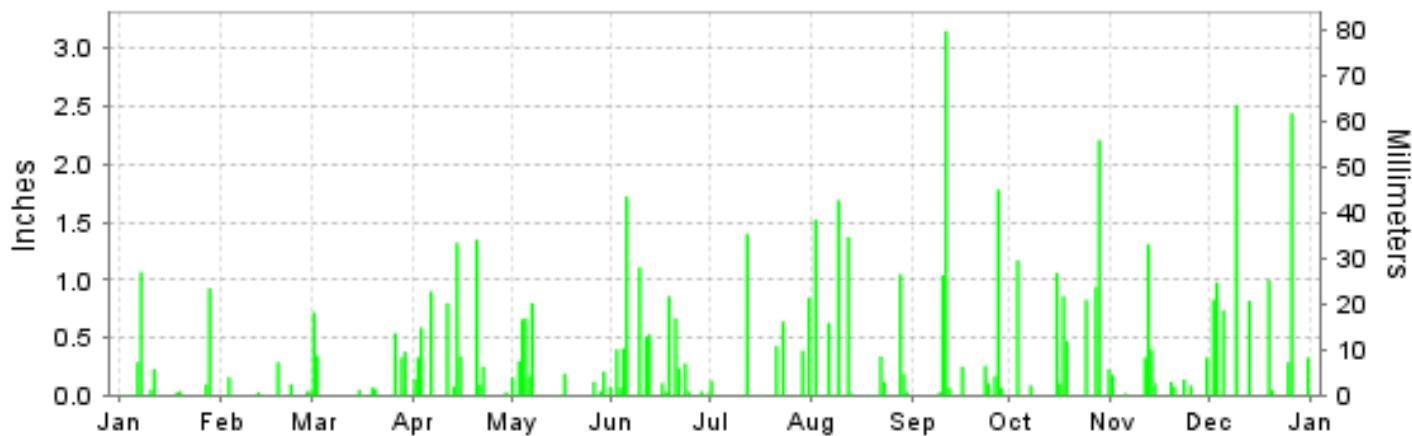
ISSN 0275-1763

## ATLANTIC CITY, N.A.F.E.C. (KACY)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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AND INFORMATION SERVICE

NATIONAL  
CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2009

## ATLANTIC CITY (KACY)

LATITUDE: 39 ° 27'N      LONGITUDE: -74 ° 34'W      ELEVATION (FT): GRND: 65    BARO: 117      TIME ZONE: EASTERN (UTC -5)      WBAN: 93730

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	38.2	47.8	51.5	64.8	72.1	76.6	83.3	85.4	75.2	65.3	58.7	44.9	63.7	
	HIGHEST DAILY MAXIMUM	52	69	75	92	86	90	90	94	87	79	72	68	94	
	DATE OF OCCURRENCE	28	11	08	27+	23+	02	31	10	05	09	08	03	AUG 10	
	MEAN DAILY MINIMUM	21.7	27.5	32.2	44.4	53.2	60.8	64.4	68.8	57.5	46.8	42.7	28.8	45.7	
	LOWEST DAILY MINIMUM	4	12	3	27	39	43	54	57	44	36	26	12	3	
	DATE OF OCCURRENCE	17	05	04	13	19+	01	11+	31	20	19+	07	23	MAR 04	
	AVERAGE DRY BULB	30.0	37.7	41.9	54.6	62.7	68.7	73.9	77.1	66.4	56.1	50.7	36.9	54.7	
	MEAN WET BULB	26.7	32.7	36.4	47.5	57.2	64.1	67.4	71.1	61.4	52.3	47.2	33.6	49.8	
	MEAN DEW POINT	17.9	23.5	28.8	39.7	52.8	61.3	63.1	68.4	57.9	48.0	43.1	26.4	44.2	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	3	0	1	1	7	0	0	0	0	0	12
	MAXIMUM <= 32°	9	2	2	0	0	0	0	0	0	0	0	2	15	
MINIMUM <= 32°	28	21	14	2	0	0	0	0	0	0	3	21	89		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1078	758	708	350	121	27	0	0	39	284	422	866	4653	
	COOLING DEGREE DAYS	0	0	0	47	55	145	283	380	86	12	0	0	1008	
RH	MEAN (PERCENT)	61	59	66	63	74	80	71	77	76	75	76	66	70	
	HOUR 01 LST	66	68	73	72	86	89	83	87	85	83	82	72	79	
	HOUR 07 LST	67	65	70	64	75	81	72	79	78	80	84	74	74	
	HOUR 13 LST	52	45	53	51	58	67	56	64	61	61	64	55	57	
	HOUR 19 LST	63	60	70	63	77	83	73	79	80	77	79	67	73	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	3	0	2	4	7	7	2	5	0	2	3	1	36	
	THUNDERSTORMS	0	0	0	1	3	2	1	4	4	2	0	0	17	
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.)	29.96	30.00	30.09	29.91	29.98	29.79	29.87	29.94	30.00	29.96	30.01	29.99	29.96	
	MEAN SEA-LEVEL PRESS. (IN.)	30.04	30.07	30.21	29.98	30.04	29.86	29.95	30.01	30.08	30.03	30.08	30.06	30.03	
WINDS	RESULTANT SPEED (MPH)	5.2	5.8	1.8	1.4	1.9	0.9	2.7	1.5	2.2	1.5	4.1	4.8	1.5	
	RES. DIR. (TENS OF DEGS.)	29	27	34	27	19	11	20	22	04	32	01	29	29	
	MEAN SPEED (MPH)	8.0	10.1	8.6	10.3	7.6	6.5	6.9	5.3	7.1	8.1	8.7	9.9	8.1	
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	19	28	18	17	18	18	07	36	04	28	28	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	29	41	37	35	31	29	24	25	39	35	33	35	41	
	DIR. (TENS OF DEGS.)	26	28	04	28	31	20	26	32	05	28	03	31	28	
	DATE OF OCCURRENCE	07	12	02	04	09	12	31	02	11	07	13	29	FEB 12	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	40	54	48	47	43	43	35	31	51	45	47	47	54	
DIR. (TENS OF DEGS.)	27	27	05	28	31	19	27	32	05	27	04	29	27		
DATE OF OCCURRENCE	07	12	02	04	09	12	31	02	11	07	13	29	FEB 12		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.76	0.68	2.53	6.23	3.43	7.05	3.86	6.99	6.94	7.97	3.12	9.99	61.55	
	GREATEST 24-HOUR (IN.)	1.17	0.29	0.72	1.40	0.89	1.98	1.40	1.70	4.17	2.72	1.45	2.51	4.17	
	DATE OF OCCURRENCE	06-07	18	01	13-14	03-04	04-05	12	08-09	10-11	27-28	11-12	09	SEP 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	10	8	11	12	14	17	8	13	11	10	12	10	136	
PRECIPITATION 0.10	5	3	5	10	9	11	6	8	7	9	8	9	90		
PRECIPITATION 1.00	1	0	0	2	0	2	1	4	3	3	1	3	20		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	3.8	3.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	26.6	
	GREATEST 24-HOUR (IN.)	1.6	3.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	11.4	
	DATE OF OCCURRENCE	27	03	01									19	DEC 19	
	MAXIMUM SNOW DEPTH (IN.)	1	3	6	0	0	0	0	0	0	0	0	11	11	
	DATE OF OCCURRENCE	28+	04	02									20	DEC 20	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	1	2	0	0	0	0	0	0	0	0	1	5		

# NORMALS, MEANS, AND EXTREMES

## ATLANTIC CITY (KACY)

LATITUDE:  
39 ° 27'N

LONGITUDE:  
-74 ° 34'W

ELEVATION (FT):  
GRND: 65 BARO: 117

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 93730

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.4	43.9	51.9	61.3	71.1	80.0	85.1	83.3	76.6	66.3	56.0	46.4	63.6
	MEAN DAILY MAXIMUM	51	41.3	43.4	51.4	61.7	71.3	80.0	84.8	83.5	77.0	66.4	56.2	45.7	63.6
	HIGHEST DAILY MAXIMUM	66	78	75	87	94	99	106	104	103	99	90	84	77	106
	YEAR OF OCCURRENCE		1967	1985	1998	2002	1969	1969	1966	2001	1983	2007	1950	1998	JUN 1969
	MEAN OF EXTREME MAXS.	51	61.8	63.1	72.9	82.5	88.3	93.3	95.4	93.9	89.2	81.6	72.4	63.5	79.8
	NORMAL DAILY MINIMUM	30	22.8	24.5	31.7	39.8	49.8	59.3	65.4	63.7	56.0	43.9	35.7	27.1	43.3
	MEAN DAILY MINIMUM	51	23.0	24.3	31.5	40.3	49.9	59.3	65.5	64.2	56.4	44.6	36.3	27.0	43.5
	LOWEST DAILY MINIMUM	66	-10	-11	3	12	25	37	42	40	32	20	10	-7	-11
	YEAR OF OCCURRENCE		1977	1979	2009	1969	1966	1980	1988	1976	1969	1988	1989	1950	FEB 1979
	MEAN OF EXTREME MINS.	51	4.2	7.1	15.2	25.7	35.1	45.2	53.3	51.0	40.5	29.5	20.0	9.9	28.1
	NORMAL DRY BULB	30	32.1	34.2	41.8	50.6	60.5	69.7	75.3	73.5	66.3	55.1	45.9	36.8	53.5
	MEAN DRY BULB	51	32.1	33.9	41.5	51.0	60.6	69.9	75.2	73.9	66.7	55.5	46.3	36.4	53.6
	MEAN WET BULB	26	29.5	30.5	36.1	44.9	54.2	63.8	68.7	68.0	61.7	51.1	42.3	33.4	48.7
	MEAN DEW POINT	26	25.6	26.1	31.6	40.6	50.9	61.0	66.5	66.1	59.5	48.3	38.6	29.4	45.4
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.0	3.3	7.8	4.4	1.1	0.0	0.0	0.0	17.7
	MAXIMUM <= 32	30	6.4	4.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.2	15.0
MINIMUM <= 32	30	25.1	21.7	16.6	6.3	0.4	0.0	0.0	0.0	0.0	3.2	12.5	22.2	108.0	
MINIMUM <= 0	30	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.2	
H/C	NORMAL HEATING DEG. DAYS	30	1019	873	725	437	187	32	1	6	69	323	573	868	5113
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	44	168	322	269	110	15	1	0	935
RH	NORMAL (PERCENT)	30	72	70	67	68	72	73	74	77	78	76	73	72	73
	HOURLY 01 LST	30	76	76	76	78	84	87	88	89	89	87	81	77	82
	HOURLY 07 LST	30	79	79	77	77	79	81	83	87	88	88	84	79	82
	HOURLY 13 LST	30	59	56	53	52	56	57	57	59	59	56	57	58	57
	HOURLY 19 LST	30	71	69	65	65	69	70	71	76	80	79	74	72	72
S	PERCENT POSSIBLE SUNSHINE	36	50	53	55	56	56	60	61	65	61	59	51	47	56
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	2.8	2.6	2.8	3.2	3.9	3.5	3.4	3.0	3.0	3.7	3.1	2.0	37.0
	THUNDERSTORMS	51	0.1	0.3	0.8	1.8	2.8	3.8	5.3	4.4	1.6	0.7	0.4	0.2	22.2
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	26	30.00	29.99	29.96	29.90	29.91	29.89	29.91	29.95	29.99	30.01	30.01	30.01	29.96
	MEAN SEA-LEVEL PRES. (IN)	26	30.07	30.06	30.04	29.97	29.99	29.97	29.98	30.02	30.06	30.08	30.09	30.08	30.03
WINDS	MEAN SPEED (MPH)	26	9.6	10.1	10.7	10.5	9.0	8.0	7.5	7.0	7.4	7.8	8.9	9.3	8.8
	PREVAIL.DIR(TENS OF DEGS)	30	30	30	31	19	19	20	19	19	20	30	31	30	30
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	47	41	49	41	43	36	41	31	39	38	43	41	49
	DIR. (TENS OF DEGS)		30	28	05	13	04	30	26	28	05	28	27	10	05
	YEAR OF OCCURRENCE		2000	2009	2007	2005	2008	1998	2006	2007	2009	2003	2003	2003	MAR 2007
	MAXIMUM 3-SECOND SPEED (MPH)	14	56	54	60	54	59	46	59	41	51	54	54	58	60
	DIR. (TENS OF DEGS)		30	27	05	23	04	31	25	28	05	28	28	09	05
	YEAR OF OCCURRENCE		2000	2009	2007	1996	2008	1998	2006	2007	2009	2003	2003	2003	MAR 2007
PRECIPITATION	NORMAL (IN)	30	3.60	2.85	4.06	3.45	3.38	2.66	3.86	4.32	3.14	2.86	3.26	3.15	40.59
	MAXIMUM MONTHLY (IN)	66	7.71	5.98	9.25	7.95	11.51	7.05	13.09	16.06	6.94	9.04	9.65	9.99	16.06
	YEAR OF OCCURRENCE		1948	1958	1994	1952	1948	2009	1959	1997	2009	2005	1972	2009	AUG 1997
	MINIMUM MONTHLY (IN)	66	0.26	0.68	0.37	0.84	0.40	0.10	0.51	0.34	0.41	0.06	0.68	0.62	0.06
	YEAR OF OCCURRENCE		1955	2009	2006	1976	1957	1954	1983	1943	1970	2000	1976	1955	OCT 2000
	MAXIMUM IN 24 HOURS (IN)	66	2.86	2.59	3.00	3.37	4.15	3.69	6.46	6.40	4.17	2.95	3.93	4.36	6.46
	YEAR OF OCCURRENCE		1944	1966	2000	1952	1959	2007	1959	1997	2009	1958	1953	2008	JUL 1959
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.5	9.2	10.4	10.7	10.8	8.7	8.8	8.7	8.2	7.6	9.4	10.3	113.3
PRECIPITATION >= 1.00	30	0.8	0.6	1.2	0.8	0.7	0.7	1.0	1.3	0.8	0.8	0.8	0.8	10.3	
SNOWFALL	NORMAL (IN)	30	4.6	5.5	1.3	0.3	0.*	0.0	0.0	0.0	0.0	0.*	0.3	1.5	13.5
	MAXIMUM MONTHLY (IN)	61	20.3	35.2	17.6	3.9	T	T	T	T	0.0	T	7.8	12.6	35.2
	YEAR OF OCCURRENCE		1987	1967	1969	1990	1989	1994	1991			2008	1967	2009	FEB 1967
	MAXIMUM IN 24 HOURS (IN)	61	16.3	17.1	11.5	3.9	T	T	T	0.0	0.0	T	7.8	11.4	17.1
	YEAR OF OCCURRENCE		1987	1979	1969	1990	1989	1994	1991			1990	1967	2009	FEB 1979
	MAXIMUM SNOW DEPTH (IN)	41	19	23	11	3	0	0	0	0	0	0	6	11	23
	YEAR OF OCCURRENCE		1987	1979	1969	1990							1989	2009	FEB 1979
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.6	1.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.0

**PRECIPITATION (inches) 2009 ATLANTIC CITY (KACY)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	2.63	0.82	6.38	5.40	1.61	3.58	2.47	2.63	1.74	3.20	3.63	0.75	34.84
1981	0.56	3.72	1.41	6.20	3.18	4.91	1.28	3.25	1.96	2.96	1.12	3.94	34.49
1982	4.11	2.06	2.70	3.85	2.42	3.03	3.62	1.63	1.34	1.14	4.17	2.85	32.92
1983	2.46	3.32	5.85	7.45	5.21	3.01	0.51	2.90	2.22	3.48	6.70	5.06	48.17
1984	2.41	3.70	5.92	4.84	6.58	1.62	4.35	2.44	1.31	1.46	3.02	1.79	39.44
1985	2.07	1.71	2.38	1.02	5.04	1.55	4.36	3.94	2.26	0.90	3.81	0.93	29.97
1986	3.73	3.42	1.88	4.57	0.54	2.41	4.50	3.35	2.39	3.90	5.04	4.85	40.58
1987	6.23	1.54	3.36	5.83	2.96	2.10	6.12	2.64	3.51	2.56	2.27	2.19	41.31
1988	2.99	3.80	2.21	1.77	3.20	1.03	4.58	2.78	3.07	2.76	4.65	0.64	33.48
1989	2.41	3.47	4.67	4.55	4.64	3.74	6.40	5.68	5.92	4.45	2.87	1.61	50.41
1990	2.70	1.00	2.60	3.46	5.71	1.52	3.64	5.96	1.91	2.63	2.01	3.57	36.71
1991	5.12	1.21	5.52	3.07	0.85	1.43	5.28	3.44	2.62	1.36	0.76	3.75	34.41
1992	0.92	2.12	2.94	1.58	2.34	3.59	3.39	6.64	5.04	1.26	3.10	3.96	36.88
1993	2.62	2.38	8.80	2.23	2.24	1.36	1.76	5.40	2.67	3.82	1.20	4.22	38.70
1994	4.13	3.54	9.25	2.03	3.48	0.71	4.11	5.37	3.78	0.82	3.09	2.18	42.49
1995	2.85	1.84	0.93	2.17	4.82	3.11	2.07	3.24	3.90	5.16	4.12	1.49	35.70
1996	3.59	2.05	3.65	4.45	4.51	3.94	4.63	4.31	5.82	5.03	1.38	7.10	50.46
1997	2.76	3.09	5.33	4.31	2.69	2.20	5.89	16.06	1.55	2.67	4.54	4.25	55.34
1998	5.78	4.89	6.49	3.27	6.68	2.77	1.40	1.77	0.49	3.10	1.26	2.02	39.92
1999	5.78	2.88	4.56	3.22	1.45	2.84	1.68	6.28	4.91	3.45	1.46	2.75	41.26
2000	4.29	2.26	5.14	2.65	2.16	4.64	7.88	7.43	4.19	0.06	3.66	2.04	46.40
2001	3.35	3.42	5.71	1.55	1.24	3.29	3.29	2.90	1.28	1.00	1.06	1.83	29.92
2002	2.08	0.74	5.60	4.08	2.74	4.98	1.07	2.43	3.30	6.37	5.96	4.31	43.66
2003	3.01	5.39	3.96	2.79	2.58	6.99	4.06	1.67	2.94	4.82	4.37	5.74	48.32
2004	1.55	2.15	3.45	4.71	3.29	1.81	5.21	4.14	2.30	3.49	4.42	2.55	39.07
2005	4.01	3.23	3.68	3.40	3.53	3.90	4.43	1.02	0.53	9.04	2.80	4.38	43.95
2006	5.83	2.22	0.37	3.45	3.58	5.05	5.20	3.68	6.32	6.09	6.64	2.24	50.67
2007	3.41	2.36	3.52	5.47	1.39	5.18	1.77	3.51	1.37	4.76	1.40	7.21	41.35
2008	2.18	5.27	3.05	3.27	4.59	2.28	3.40	2.44	5.30	1.60	5.90	7.27	46.55
2009	2.76	0.68	2.53	6.23	3.43	7.05	3.86	6.99	6.94	7.97	3.12	9.99	61.55
POR= 51 YRS	3.40	2.95	3.94	3.44	3.22	2.91	4.14	4.41	3.12	3.28	3.36	3.59	41.76

WBAN : 93730

**AVERAGE TEMPERATURE (°F) 2009 ATLANTIC CITY (KACY)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	30.8	28.6	38.7	51.6	61.6	64.3	72.4	73.1	67.9	52.3	41.3	31.2	51.2
1981	22.8	34.2	36.7	50.4	57.8	70.2	76.5	73.8	67.6	53.4	44.8	34.4	51.9
1982	26.4	36.8	43.1	49.8	64.1	69.9	76.9	71.8	64.8	55.2	48.5	41.0	54.0
1983	33.4	35.5	44.9	51.7	60.3	70.7	78.7	75.9	67.9	56.5	46.5	33.9	54.7
1984	28.0	40.1	36.6	49.7	60.7	73.6	75.3	77.1	65.9	62.3	44.6	44.0	54.8
1985	26.8	35.4	44.8	55.1	64.5	70.0	76.9	73.7	68.4	58.1	53.4	33.1	55.0
1986	32.6	32.1	43.0	50.0	63.1	70.5	75.9	71.9	66.3	56.6	44.7	37.9	53.7
1987	31.7	31.0	42.0	49.4	61.3	71.9	76.6	72.0	66.8	50.7	47.4	38.4	53.3
1988	27.9	34.3	42.2	48.7	59.5	69.1	77.1	76.1	64.3	49.7	45.9	34.2	52.4
1989	36.3	33.8	40.6	49.4	59.9	72.2	74.0	73.3	67.3	57.2	44.2	24.7	52.7
1990	40.6	40.5	44.5	51.3	59.2	70.2	75.1	73.4	64.5	59.2	48.0	41.4	55.7
1991	33.7	38.4	43.9	53.3	66.0	71.1	76.9	75.6	65.4	56.4	46.5	38.9	55.5
1992	34.2	35.7	39.5	49.3	57.0	66.5	73.9	70.5	66.1	51.8	46.0	37.4	52.3
1993	37.3	30.5	38.7	50.5	61.2	69.1	76.5	73.5	67.0	53.3	45.3	35.2	53.2
1994	27.6	31.6	41.0	55.0	57.4	72.4	77.6	70.4	64.3	53.2	49.5	40.4	53.4
1995	37.8	31.6	43.1	49.6	59.7	68.3	77.0	73.4	66.5	58.8	41.5	31.9	53.3
1996	31.3	33.2	36.6	51.2	59.0	70.9	73.0	71.8	67.8	54.5	40.1	39.7	52.4
1997	32.4	39.3	42.1	48.8	57.5	67.5	74.9	71.6	65.2	54.2	43.1	37.0	52.8
1998	40.3	40.2	44.3	52.6	62.8	69.7	75.2	75.0	69.3	56.1	45.5	39.9	55.9
1999	35.8	36.2	40.9	50.2	60.6	70.0	78.6	74.3	68.1	54.6	49.9	39.6	54.9
2000	31.2	37.2	46.5	50.1	62.4	71.6	71.7	72.5	65.0	56.0	44.3	29.5	53.2
2001	31.7	35.8	39.3	52.2	61.9	73.1	71.6	76.8	65.5	56.3	49.3	43.0	54.7
2002	38.6	38.1	44.4	54.9	60.4	70.6	77.3	76.4	68.0	56.4	44.1	35.5	55.4
2003	27.9	29.6	42.2	49.2	56.2	68.5	75.8	76.4	68.4	54.1	50.0	37.2	53.0
2004	26.9	34.2	43.1	52.3	66.9	69.9	75.1	72.7	68.1	54.5	46.7	36.7	53.9
2005	32.3	35.0	37.8	51.1	55.8	72.4	77.2	78.0	71.3	58.0	48.4	34.7	54.3
2006	40.6	35.1	42.8	53.7	61.7	70.9	78.1	76.6	66.0	55.4	51.3	43.1	56.3
2007	39.2	29.4	42.6	50.1	63.0	71.2	75.5	75.8	69.0	64.1	45.8	38.5	55.4
2008	35.8	38.0	44.0	53.8	59.7	74.9	78.3	73.3	69.0	55.6	45.5	40.1	55.7
2009	30.0	37.7	41.9	54.6	62.7	68.7	73.9	77.1	66.4	56.1	50.7	36.9	54.7
POR= 51 YRS	32.1	33.9	41.5	51.0	60.6	69.9	75.2	73.9	66.7	55.5	46.3	36.4	53.6

**HEATING DEGREE DAYS (base 65°F) 2009 ATLANTIC CITY (KACY)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	3	5	38	392	705	1042	1299	855	871	436	251	14	5911
1981-82	0	0	47	356	600	940	1187	787	670	448	79	13	5127
1982-83	0	14	64	318	498	740	973	820	617	405	166	16	4631
1983-84	0	6	94	288	547	958	1137	714	874	451	171	8	5248
1984-85	0	0	80	129	604	646	1179	821	621	319	106	14	4519
1985-86	0	0	53	225	346	981	997	915	674	444	157	25	4817
1986-87	0	30	56	289	600	834	1023	947	705	459	194	6	5143
1987-88	0	10	46	436	520	814	1145	885	698	481	200	68	5303
1988-89	5	9	79	476	565	949	883	867	751	464	184	3	5235
1989-90	0	1	67	260	617	1239	747	680	630	421	188	19	4869
1990-91	1	1	90	240	504	722	963	737	649	362	119	25	4413
1991-92	0	0	102	281	550	803	949	839	785	468	269	44	5090
1992-93	3	0	73	407	565	849	852	961	806	429	150	39	5134
1993-94	0	0	79	353	591	918	1150	932	735	307	250	14	5329
1994-95	0	15	73	359	458	755	835	929	674	456	185	14	4753
1995-96	0	1	50	223	702	1020	1038	917	872	412	238	19	5492
1996-97	0	1	46	318	738	776	1007	714	703	479	236	94	5112
1997-98	1	0	79	346	652	860	757	688	652	364	140	28	4567
1998-99	0	0	36	270	579	770	896	799	741	437	160	23	4711
1999-00	0	2	33	322	448	782	1039	799	569	442	155	24	4615
2000-01	0	4	93	285	616	1093	1027	812	790	395	133	10	5258
2001-02	3	0	77	288	464	678	812	746	631	355	178	21	4253
2002-03	0	0	15	304	620	904	1139	985	702	469	269	55	5462
2003-04	0	0	25	333	452	858	1177	886	669	378	66	25	4869
2004-05	0	4	22	317	538	869	1007	836	836	417	286	27	5159
2005-06	0	0	14	234	494	932	750	831	682	338	143	19	4437
2006-07	0	0	58	298	406	670	794	990	692	449	143	10	4510
2007-08	1	0	21	127	569	812	898	777	644	332	186	0	4367
2008-09	0	1	27	303	575	765	1078	758	708	350	121	27	4713
2009-	0	0	39	284	422	866							

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**COOLING DEGREE DAYS (base 65°F) 2009 ATLANTIC CITY (KACY)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	0	0	0	47	88	238	262	132	6	0	0	773
1981	0	0	0	6	31	177	364	279	132	1	0	0	990
1982	0	0	0	0	56	165	375	231	64	23	9	0	923
1983	0	0	0	15	30	196	431	350	190	33	0	0	1245
1984	0	0	0	0	43	273	326	382	115	53	0	1	1193
1985	0	0	3	30	99	170	376	278	163	18	3	0	1140
1986	0	0	0	0	104	198	343	250	99	38	0	0	1032
1987	0	0	0	0	87	217	366	231	106	0	0	0	1007
1988	0	0	0	0	38	197	388	360	63	5	0	0	1051
1989	0	0	3	1	35	225	289	267	145	23	2	0	990
1990	0	0	4	15	16	180	319	270	84	67	0	0	955
1991	0	0	2	15	154	216	376	334	119	19	2	0	1237
1992	0	0	0	3	27	98	287	178	110	6	0	0	709
1993	0	0	0	0	44	171	366	271	146	0	5	0	1003
1994	0	0	0	18	22	245	398	189	60	0	0	0	932
1995	0	0	0	1	28	122	379	271	100	41	4	0	946
1996	0	0	0	7	58	200	252	215	136	1	0	0	869
1997	0	0	0	0	12	178	315	211	91	19	0	0	826
1998	0	0	17	0	79	175	325	316	171	5	0	0	1088
1999	0	0	0	0	30	180	430	301	131	6	1	0	1079
2000	0	0	0	1	80	230	216	241	103	14	0	0	885
2001	0	0	0	17	43	258	213	374	98	23	1	0	1027
2002	0	0	0	57	41	195	388	362	113	43	0	0	1199
2003	0	0	0	5	3	166	345	363	131	3	10	0	1026
2004	0	0	0	3	135	179	318	248	123	0	0	0	1006
2005	0	0	0	6	7	254	384	407	210	22	0	0	1290
2006	0	0	0	4	49	203	412	368	91	11	0	0	1138
2007	0	0	2	7	89	201	334	342	149	105	0	0	1229
2008	0	0	0	2	30	306	418	267	155	17	0	0	1195
2009	0	0	0	47	55	145	283	380	86	12	0	0	1008

## SNOWFALL (inches) 2009 ATLANTIC CITY (KACY)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	T	T	0.1	3.2	0.0	T	0.0	0.0	0.0	3.3
1981-82	0.0	0.0	0.0	0.0	0.0	0.6	7.8	4.4	T	2.0	0.0	0.0	14.8
1982-83	0.0	0.0	0.0	0.0	0.0	6.7	T	14.9	T	0.7	0.0	0.0	22.3
1983-84	0.0	0.0	0.0	0.0	0.1	0.4	3.8	T	4.0	T	0.0	0.0	8.3
1984-85	0.0	0.0	0.0	0.0	T	T	15.1	0.0	T	1.3	0.0	0.0	16.4
1985-86	0.0	0.0	0.0	0.0	0.0	4.2	3.9	9.6	T	T	0.0	0.0	17.7
1986-87	0.0	0.0	0.0	0.0	0.0	T	20.3	10.7	1.6	0.7	0.0	0.0	33.3
1987-88	0.0	0.0	0.0	0.0	T	T	7.1	0.2	T	T	0.0	0.0	7.3
1988-89	0.0	0.0	0.0	0.0	0.0	0.4	0.9	12.8	3.4	T	T	0.0	17.5
1989-90	0.0	0.0	0.0	0.0	6.0	9.3	T	T	3.8	3.9	0.0	0.0	23.0
1990-91	0.0	0.0	0.0	T	0.0	3.1	4.7	1.7	T	0.0	0.0	0.0	9.5
1991-92	T	0.0	0.0	0.0	T	T	2.2	1.0	T	T	0.0	0.0	3.2
1992-93	0.0	0.0	0.0	0.0	0.0	0.2	0.8	6.0	3.7	T	0.0	0.0	10.7
1993-94	0.0	0.0	0.0	0.0	0.0	2.7	0.5	4.4	0.2	0.0	0.0	T	7.8
1994-95	0.0	0.0	0.0	0.0	T	0.0	T	0.8	0.0	0.0	0.0	0.0	0.8
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	12.0	17.5	8.5	8.4	0.0	0.0	46.4
1996-97	0.0	0.0	0.0	0.0	0.0	T	0.8	3.9	T	0.0	0.0	0.0	4.7
1997-98	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
1998-99	0.0	0.0	0.0	0.0	0.0	2.7	3.0	0.0	T	0.0	0.0	0.0	5.7
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	15.1	1.0	0.0	0.2	0.0	0.0	16.3
2000-01	0.0	0.0	0.0	0.0	0.0	10.5	1.4	8.1	0.1	T	0.0	0.0	20.1
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.2	T	T	0.0	0.0	2.6
2002-03	0.0	0.0	0.0	0.0	T	5.5	3.6	33.2	T	T	0.0	0.0	42.3
2003-04	0.0	0.0	0.0	0.0	T	5.0	7.9	2.5	1.4	0.1	0.0	0.0	16.9
2004-05	0.0	0.0	0.0	0.0	0.0	0.6	4.8	8.0	0.5	0.0	0.0	0.0	13.9
2005-06	0.0	0.0	0.0	0.0	T	5.3	4.7	4.2	T	T	0.0	0.0	14.2
2006-07	0.0	0.0	0.0	0.0	0.0	T	2.4	1.9	2.2	T	0.0	0.0	6.5
2007-08	0.0	0.0	0.0	0.0	0.0	4.4	2.6	3.0	0.0	0.0	0.0	0.0	10.0
2008-09	0.0	0.0	0.0	T	T	0.3	3.8	3.2	7.0	0.0	0.0	0.0	14.3
2009-	0.0	0.0	0.0	0.0	0.0	12.6							
POR= 52 YRS	T	0.0	0.0	T	0.3	2.6	5.2	6.1	1.9	0.4	T	T	16.5

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### REFERENCE NOTES :

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).

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).

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.

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>

#### 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.

# 2009

## ATLANTIC CITY

### N.A.F.E.C. (KACY)

The Atlantic City National Weather Service Office is located at the National Aviation Facilities Experimental Center, Pomona, which is about 10 miles west-northwest of Atlantic City and the Atlantic Ocean. The surrounding terrain is fairly flat at an elevation of 50 to 60 feet above sea level. Vegetation in the area consists of scrub pine and low underbrush, but clearing for the air facility has been quite extensive. Bays and salt marshes are as near as 6 miles east of the airport. Atlantic City is located on Abescon Island on the southeast coast of New Jersey. Surrounding terrain, composed of tidal marshes and beach sand, is flat and lies slightly above sea level. The climate is principally continental in character. However, the moderating influence of the Atlantic Ocean is apparent throughout the year, being more marked in the city than at the airport. As a result, summers are relatively cooler and winters milder than elsewhere at the same latitude.

Land and sea breezes, local circulations resulting from the differential heating and cooling of the land and sea, often prevail. These winds occur when moderate or intense storms are not present in the area, thus enabling the local circulation to overcome the general wind pattern. During the warm season sea breezes in the late morning and afternoon hours prevent excessive heating. Frequently, the temperature at Atlantic City during the afternoon hours in the summer averages

several degrees lower than at the airport and the airport averages several degrees lower than localities farther inland. On occasions, sea breezes have lowered the temperature as much as 15 to 20 degrees within a half hour. However, the major effect of the sea breeze at the airport is preventing the temperature from rising above the 80s. Because the change in ocean temperature lags behind the air temperature from season to season, the weather tends to remain comparatively mild late into the fall, but on the other hand, warming is retarded in the spring. Normal ocean temperatures range from an average near 37 degrees in January to near 72 degrees in August.

Precipitation is moderate and well distributed throughout the year, with June the driest month and August the wettest. Tropical storms or hurricanes occasionally bring excessive rainfall to the area. The bulk of winter precipitation results from storms which move northeastward along or near the east coast of the United States. Snowfall is considerably less than elsewhere at the same latitude and does not remain long on the ground. Precipitation, often beginning as snow, will frequently become mixed with or change to rain while continuing as snow over more interior sections. In addition, ice storms and resultant glaze are relatively infrequent.

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