

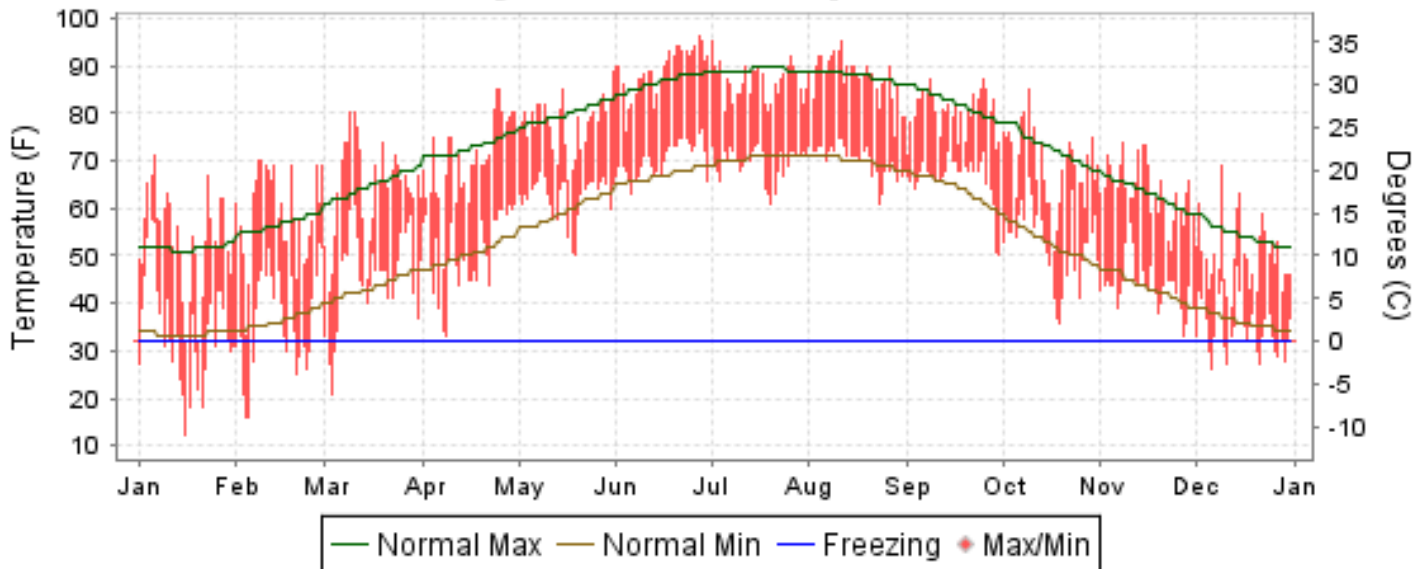


# 2009 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

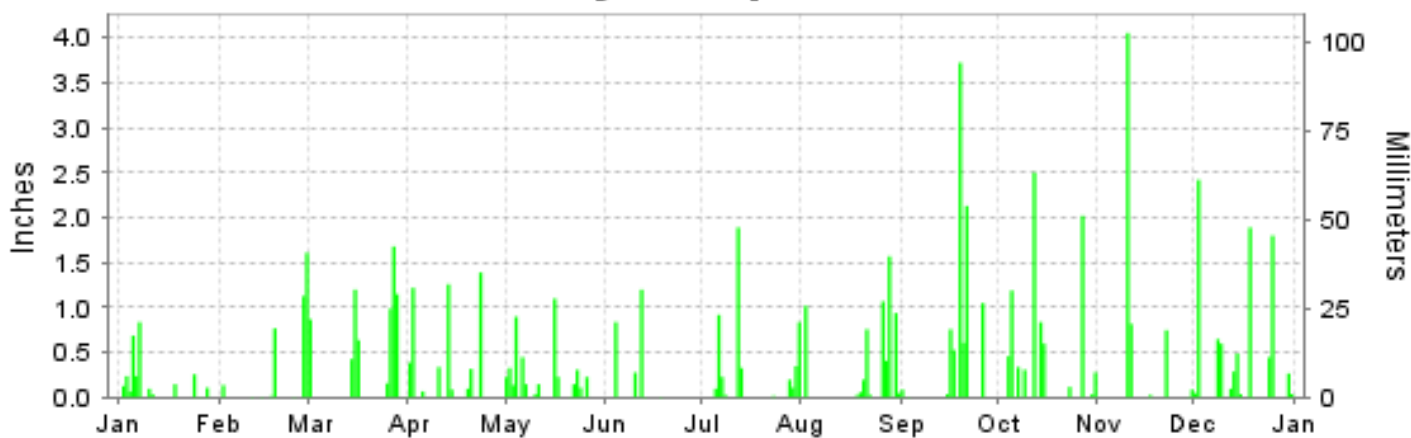
ISSN 0198-1560

## ATLANTA, GEORGIA (KATL)

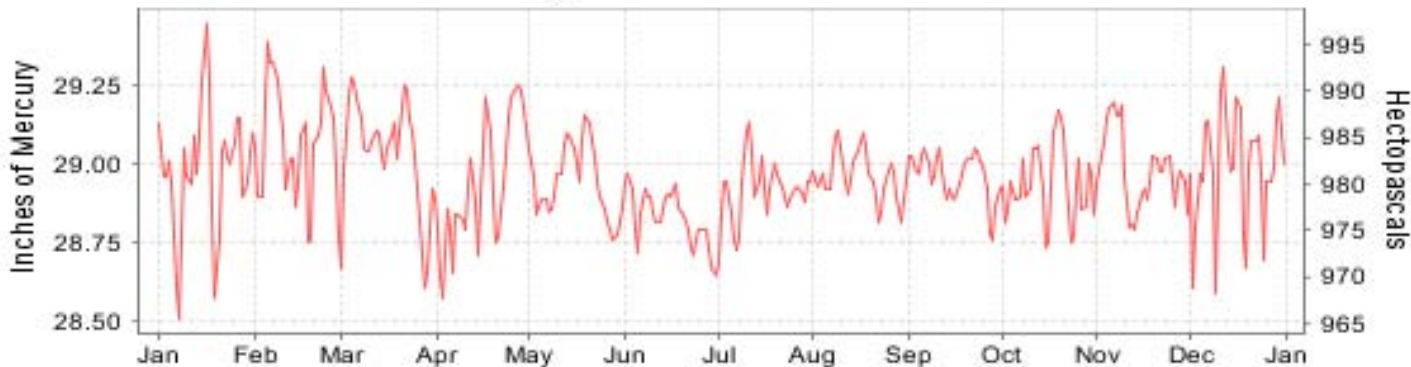
### Daily Max/Min Temperature



### 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

## ATLANTA (KATL)

LATITUDE: 33° 38'N      LONGITUDE: -84° 25'W      ELEVATION (FT): GRND: 998    BARO: 974      TIME ZONE: EASTERN (UTC -5)      WBAN: 13874

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	53.6	58.8	64.4	70.5	77.8	89.1	86.6	87.6	80.4	69.3	63.9	49.9	71.0	
	HIGHEST DAILY MAXIMUM	71	70	80	85	89	96	95	95	87	85	74	69	96	
	DATE OF OCCURRENCE	06	09+	10+	25+	31	27	01	11	25+	09	08	09	JUN 27	
	MEAN DAILY MINIMUM	34.2	36.6	45.6	50.9	62.6	70.4	69.6	70.2	66.5	52.6	43.7	34.6	53.1	
	LOWEST DAILY MINIMUM	12	16	21	33	50	63	61	61	50	36	33	26	12	
	DATE OF OCCURRENCE	16	05+	03	08	19	06	20	23	30	19	27	06	JAN 16	
	AVERAGE DRY BULB	43.9	47.7	55.0	60.7	70.2	79.8	78.1	78.9	73.5	61.0	53.8	42.3	62.1	
	MEAN WET BULB	39.1	40.9	48.8	53.9	64.1	70.8	69.5	71.2	67.6	56.5	48.5	38.7	55.8	
	MEAN DEW POINT	31.6	31.5	42.4	47.5	61.0	66.2	64.9	67.9	64.6	53.2	43.6	33.1	50.6	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	0	17	8	13	0	0	0	0	0	38
	MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	0	0	0	2
MINIMUM <= 32°	16	11	3	0	0	0	0	0	0	0	0	12	42		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	645	477	312	165	16	0	0	0	6	152	329	701	2803	
	COOLING DEGREE DAYS	0	0	12	46	185	450	413	442	267	34	0	0	1849	
RH	MEAN (PERCENT)	66	58	67	65	77	66	67	74	78	79	73	72	70	
	HOUR 01 LST	70	62	72	75	86	79	78	86	85	87	81	78	78	
	HOUR 07 LST	78	73	78	77	84	76	77	85	86	87	88	80	81	
	HOUR 13 LST	55	45	58	53	65	49	55	57	67	66	55	62	57	
	HOUR 19 LST	62	53	61	59	74	60	64	69	75	79	69	70	66	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	5	0	2	0	2	0	1	1	1	1	1	3	17	
	THUNDERSTORMS	2	2	3	7	14	5	9	9	7	2	0	2	62	
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.)	28.99	29.08	29.03	28.94	28.95	28.83	28.92	28.97	28.96	28.94	28.98	29.02	28.97	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.19	30.13	30.03	30.03	29.89	29.98	30.04	30.04	30.03	30.09	30.10	30.05	
WINDS	RESULTANT SPEED (MPH)	4.3	3.4	0.5	2.7	1.4	4.6	3.1	0.8	3.4	1.5	2.8	2.2	1.2	
	RES. DIR. (TENS OF DEGS.)	29	28	11	23	13	30	27	24	09	04	35	36	31	
	MEAN SPEED (MPH)	8.8	9.0	7.9	9.0	9.0	7.2	7.2	6.1	7.0	7.8	7.3	9.3	8.0	
	PREVAIL.DIR.(TENS OF DEGS.)	32	33	33	15	08	28	27	29	09	32	32	10	09	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	33	33	41	31	32	32	32	29	24	28	30	41	
	DIR. (TENS OF DEGS.)	28	32	33	15	25	04	19	31	28	28	04	07	15	
	DATE OF OCCURRENCE	07	18	01	13	03	12	28	30	21	09	11	18	APR 13	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	46	44	41	52	48	39	43	39	35	30	37	41	52	
DIR. (TENS OF DEGS.)	28	33	33	15	23	35	19	29	27	33	03	24	15		
DATE OF OCCURRENCE	07	03	01	13	03	12	28	30	21	17	11	09	APR 13		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.88	3.70	7.13	5.18	4.54	2.34	5.02	6.14	8.94	8.71	5.75	9.10	69.43	
	GREATEST 24-HOUR (IN.)	1.02	2.73	1.74	1.39	1.11	1.21	2.22	1.98	3.78	2.50	4.46	2.47	4.46	
	DATE OF OCCURRENCE	06-07	27-28	27-28	23	16-17	12-13	12-13	27-28	19-20	12	10-11	01-02	NOV 10-11	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	12	8	9	9	16	5	11	11	9	12	6	14	122	
PRECIPITATION 0.10	9	4	8	7	13	3	9	7	6	10	3	10	89		
PRECIPITATION 1.00	0	2	3	3	1	1	1	3	3	3	1	3	24		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	T	T	4.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	4.2	
	GREATEST 24-HOUR (IN.)	T	T	4.2	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	4.2	
	DATE OF OCCURRENCE	19+	18	01	23+	0	0	0	0	0	0	0	31+	MAR 01	
	MAXIMUM SNOW DEPTH (IN.)	0	0	1	0	0	0	0	0	0	0	0	0	1	
	DATE OF OCCURRENCE			02										MAR 02	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	0	0	1	0	0	0	0	0	0	0	0	0	1		

# NORMALS, MEANS, AND EXTREMES ATLANTA (KATL)

LATITUDE:  
33 ° 38'N

LONGITUDE:  
-84 ° 25'W

ELEVATION (FT):  
GRND: 998 BARO: 974

TIME ZONE:  
EASTERN (UTC -5)

WBAN: 13874

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	51.9	56.8	65.0	72.9	80.0	86.5	89.4	87.9	82.3	72.9	63.3	54.6	72.0
	MEAN DAILY MAXIMUM	80	52.3	55.2	63.8	72.1	80.3	86.1	88.7	87.9	81.9	73.0	62.3	54.0	71.5
	HIGHEST DAILY MAXIMUM	61	79	80	89	93	95	101	105	104	98	95	84	79	105
	YEAR OF OCCURRENCE		1949	1996	1995	1986	1996	1952	1980	2007	1954	1954	1961	1991	JUL 1980
	MEAN OF EXTREME MAXS.	80	69.6	72.7	80.0	84.9	89.3	94.3	95.5	94.6	91.3	84.2	77.2	70.8	83.7
	NORMAL DAILY MINIMUM	30	33.5	36.5	43.6	50.4	59.5	67.1	70.6	69.9	64.3	52.8	43.5	36.2	52.3
	MEAN DAILY MINIMUM	80	34.2	35.8	42.8	50.6	59.6	66.5	70.1	69.6	63.8	52.9	42.5	36.0	52.0
	LOWEST DAILY MINIMUM	61	-8	5	10	26	37	46	53	55	36	28	3	0	-8
	YEAR OF OCCURRENCE		1985	1958	1960	1973	1971	1956	1967	1992	1967	1976	1950	1983	JAN 1985
	MEAN OF EXTREME MINS.	80	15.1	19.6	26.0	35.0	46.7	57.0	64.0	62.8	51.3	37.8	26.9	19.1	38.4
	NORMAL DRY BULB	30	42.7	46.7	54.3	61.6	69.8	76.8	80.0	78.9	73.3	62.8	53.4	45.4	62.1
	MEAN DRY BULB	80	43.3	45.5	53.3	61.4	69.9	76.4	79.4	78.7	72.9	63.0	52.4	45.0	61.8
	MEAN WET BULB	26	37.9	40.6	46.4	53.0	61.4	67.9	71.1	70.8	65.4	56.1	47.3	40.2	54.8
	MEAN DEW POINT	26	33.2	35.9	41.0	47.9	57.9	65.3	68.8	68.4	62.6	52.5	43.3	35.8	51.1
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.3	9.5	15.5	11.3	3.7	0.0	0.0	0.0	41.4
	MAXIMUM <= 32	30	1.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.3
MINIMUM <= 32	30	14.3	10.4	4.0	0.5	0.0	0.0	0.0	0.0	0.0	*	4.1	11.3	44.6	
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	*	0.2	
H/C	NORMAL HEATING DEG. DAYS	30	692	523	346	150	26	1	0	0	11	126	352	600	2827
	NORMAL COOLING DEG. DAYS	30	0	1	11	52	170	354	463	430	262	58	8	1	1810
RH	NORMAL (PERCENT)	30	69	64	62	60	67	69	73	73	73	69	69	69	68
	HOURLY 01 LST	30	74	69	68	69	77	79	83	84	82	79	76	75	76
	HOURLY 07 LST	30	79	77	77	78	82	83	87	89	87	85	82	80	82
	HOURLY 13 LST	30	60	54	52	48	53	55	58	59	59	54	56	59	56
	HOURLY 19 LST	30	64	56	53	49	57	59	64	65	66	63	64	64	60
S	PERCENT POSSIBLE SUNSHINE	63	49	54	58	66	68	67	62	64	62	66	58	50	60
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	46	4.4	2.9	2.2	1.2	1.2	0.9	1.0	1.3	2.0	2.0	3.0	3.8	25.9
	THUNDERSTORMS	64	1.3	1.8	3.5	4.0	6.1	8.0	10.2	7.6	3.0	1.0	1.1	0.9	48.5
CLOUDNESS	MEAN: SUNRISE-SUNSET (OKTAS)				7.2		2.4	3.2							
	MIDNIGHT-MIDNIGHT (OKTAS)				6.4		3.2								
	MEAN NO. DAYS WITH: CLEAR	1	2.0	1.0	10.0		12.0	9.0							
	PARTLY CLOUDY				1.0		6.0	9.0							
	CLOUDY	1	3.0	2.0	11.0		2.0	3.0							
PR	MEAN STATION PRESSURE(IN)	26	29.03	29.00	28.96	28.93	28.93	28.93	28.96	28.96	28.93	29.00	29.02	29.05	28.98
	MEAN SEA-LEVEL PRES. (IN)	26	30.14	30.11	30.06	30.01	30.01	30.00	30.02	30.02	30.04	30.09	30.13	30.15	30.07
WINDS	MEAN SPEED (MPH)	26	9.4	9.7	9.7	9.1	8.3	7.6	7.4	7.0	7.9	8.0	8.4	9.0	8.5
	PREVAIL.DIR(TENS OF DEGS)	45	32	33	33	31	31	28	28	08	08	08	33	32	32
	MAXIMUM 2-MINUTE: SPEED (MPH)	14	39	48	43	44	46	38	46	48	41	31	39	37	48
	DIR. (TENS OF DEGS)		32	26	32	03	34	34	31	36	09	34	29	25	36
	YEAR OF OCCURRENCE		2005	2001	2003	1996	2003	2006	2001	2008	2004	2008	2004	2004	AUG 2008
	MAXIMUM 3-SECOND SPEED (MPH)	14	48	70	53	52	58	51	61	71	55	40	46	46	71
	DIR. (TENS OF DEGS)		32	26	33	15	35	28	31	01	07	27	32	26	01
YEAR OF OCCURRENCE		2005	2001	2008	2009	2003	1998	2001	2008	2004	2006	2005	2004	AUG 2008	
PRECIPITATION	NORMAL (IN)	30	5.03	4.68	5.38	3.62	3.95	3.63	5.12	3.67	4.09	3.11	4.10	3.82	50.20
	MAXIMUM MONTHLY (IN)	75	10.82	12.77	11.66	11.86	9.94	9.99	17.71	8.69	13.65	11.04	15.72	9.92	17.71
	YEAR OF OCCURRENCE		1936	1961	1980	1979	2003	1991	1994	1967	2004	1995	1948	1961	JUL 1994
	MINIMUM MONTHLY (IN)	75	0.84	0.77	1.04	0.49	0.32	0.16	0.57	0.50	0.04	T	0.41	0.69	T
	YEAR OF OCCURRENCE		1981	1978	2004	1986	1936	1988	1995	1976	1984	1963	1939	1979	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	75	3.91	5.67	5.74	5.58	5.13	4.22	6.73	5.05	5.87	7.27	4.46	3.85	7.27
	YEAR OF OCCURRENCE		1973	1961	1990	1979	1948	1991	2005	1940	1992	1995	2009	1961	OCT 1995
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	12.1	9.8	10.9	8.4	9.6	9.8	11.5	9.5	8.3	6.4	9.4	10.4	116.1
PRECIPITATION >= 1.00	30	1.4	1.5	1.7	1.0	1.0	1.0	1.6	1.0	1.3	1.0	1.4	1.0	14.9	
SNOWFALL	NORMAL (IN)	30	1.0	0.5	0.6	0.*	0.0	0.0	0.0	0.0	0.0	0.*	0.*	0.3	2.4
	MAXIMUM MONTHLY (IN)	70	8.3	4.4	7.9	T	0.0	0.0	T	0.0	0.0	T	1.0	3.0	8.3
	YEAR OF OCCURRENCE		1940	1979	1983	2009			2001			1993	1968	2000	JAN 1940
	MAXIMUM IN 24 HOURS (IN)	70	8.3	4.2	7.9	T	0.0	0.0	T	0.0	0.0	T	1.0	2.8	8.3
	YEAR OF OCCURRENCE		1940	1979	1983	2009			2001			1993	1968	1993	JAN 1940
	MAXIMUM SNOW DEPTH (IN)	59	9	4	4	0	0	0	0	0	0	0	1	2	9
	YEAR OF OCCURRENCE		1948	1979	1993								1975	2000	JAN 1948
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9	

**PRECIPITATION (inches) 2009 ATLANTA (KATL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	5.69	2.69	11.66	1.88	8.37	4.49	0.76	1.59	4.77	1.61	2.14	1.29	46.94
1981	0.84	6.62	3.93	2.06	3.89	2.69	2.74	2.76	5.27	3.01	1.85	6.25	41.91
1982	4.75	6.99	3.79	6.02	2.60	6.09	6.31	1.45	3.00	5.83	4.15	5.23	56.21
1983	3.09	4.99	6.68	4.79	1.42	1.52	1.85	1.06	7.52	1.97	7.46	9.27	51.62
1984	4.66	5.97	5.83	6.62	6.57	0.74	11.21	6.46	0.04	1.54	2.10	3.65	55.39
1985	4.11	4.98	1.86	2.75	4.69	2.04	9.92	4.57	2.63	5.74	4.23	2.28	49.80
1986	0.88	2.46	4.13	0.49	2.95	2.18	3.27	6.08	3.68	5.15	6.20	3.03	40.50
1987	5.63	6.13	5.44	1.16	2.74	6.36	7.35	1.22	3.02	0.70	2.36	4.13	46.24
1988	4.64	3.32	2.57	6.06	1.71	0.16	5.04	4.92	6.35	5.00	4.87	1.21	45.85
1989	2.57	4.30	3.85	5.24	6.42	9.34	7.65	2.13	11.64	1.71	3.97	4.49	63.31
1990	8.47	9.75	8.36	2.76	5.26	1.39	3.49	4.64	3.01	6.12	1.27	3.04	57.56
1991	4.66	3.10	6.98	5.28	7.35	9.99	5.82	4.37	2.03	0.39	3.19	2.69	55.85
1992	3.58	3.94	3.81	1.03	1.73	4.14	9.03	5.04	8.55	2.84	10.04	6.38	60.11
1993	3.94	4.43	5.73	2.77	4.87	6.01	3.05	2.96	3.91	3.83	4.01	2.54	48.05
1994	5.11	3.76	5.77	3.68	2.16	2.44	17.71	4.16	5.86	4.51	3.27	1.59	60.02
1995	3.36	6.74	2.66	3.00	2.12	3.97	0.57	5.82	2.52	11.04	7.40	3.57	52.77
1996	8.26	3.82	6.42	2.91	2.12	1.70	2.14	4.66	4.32	0.89	3.22	4.14	44.60
1997	5.65	7.93	2.18	4.28	3.36	3.91	4.71	1.32	4.83	5.12	3.34	5.05	51.68
1998	5.83	7.10	6.25	5.12	1.23	3.58	2.93	5.54	4.45	0.26	1.97	1.90	46.16
1999	5.33	1.97	3.32	1.14	4.42	5.83	3.43	1.26	4.19	2.41	3.34	2.21	38.85
2000	4.89	1.26	3.63	2.63	1.86	1.11	2.70	4.03	4.93	0.88	5.02	2.62	35.56
2001	2.77	3.61	9.08	3.29	3.31	6.69	2.54	1.03	2.19	0.79	0.87	2.22	38.39
2002	5.35	2.54	5.49	1.83	3.52	2.81	2.59	0.77	6.39	5.94	5.36	5.23	47.82
2003	2.00	3.51	7.08	3.44	9.94	7.34	5.35	3.48	2.42	1.49	4.17	2.69	52.91
2004	2.84	4.60	1.04	2.80	2.58	5.99	2.20	3.63	13.65	2.19	7.26	4.82	53.60
2005	2.57	5.58	7.49	4.36	1.98	2.91	14.63	8.28	0.07	1.98	2.91	3.67	56.43
2006	5.10	5.50	2.93	2.48	2.86	5.80	1.31	8.66	3.31	3.04	4.39	3.08	48.46
2007	3.95	2.63	1.31	1.79	2.05	3.66	1.85	3.48	2.92	2.47	0.96	4.78	31.85
2008	2.85	4.61	5.17	3.22	2.80	0.58	7.17	3.77	0.75	3.48	2.64	4.39	41.43
2009	2.88	3.70	7.13	5.18	4.54	2.34	5.02	6.14	8.94	8.71	5.75	9.10	69.43
POR= 80 YRS	4.52	4.50	5.40	4.04	3.68	3.81	4.85	3.72	3.63	2.86	3.62	4.20	48.83

WBAN : 13874

**AVERAGE TEMPERATURE (°F) 2009 ATLANTA (KATL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1980	44.9	41.9	52.1	62.6	72.0	79.1	85.1	83.8	78.9	61.5	51.9	44.9	63.2
1981	39.5	46.8	51.8	67.7	67.6	81.3	82.2	77.7	72.4	60.2	54.5	39.1	61.7
1982	38.5	47.4	56.5	58.4	72.5	76.3	79.1	77.5	70.5	62.7	53.7	49.9	61.9
1983	40.4	44.4	51.3	56.4	67.8	74.0	81.4	81.4	70.8	62.1	51.5	39.9	60.1
1984	39.6	47.5	51.7	58.1	67.5	78.3	76.8	77.5	71.3	69.8	50.6	53.7	61.9
1985	36.3	44.2	56.8	64.0	69.9	77.5	78.4	77.6	72.5	66.4	62.0	41.4	62.3
1986	43.4	49.8	54.4	62.9	71.0	80.0	84.1	77.4	74.6	64.0	57.9	45.1	63.7
1987	41.9	45.7	53.2	60.3	73.2	77.8	81.0	82.0	74.1	59.7	55.7	48.8	62.8
1988	39.2	45.5	54.9	63.0	70.0	78.6	80.5	81.0	73.4	59.3	55.0	46.6	62.3
1989	49.7	47.5	56.8	62.9	68.8	76.9	79.8	79.4	72.9	64.2	54.3	39.1	62.7
1990	49.8	54.4	57.7	61.9	70.4	78.6	80.6	80.6	75.7	64.4	56.5	49.1	65.0
1991	44.3	49.2	56.2	65.9	72.8	76.7	81.0	79.2	74.8	64.6	51.0	49.1	63.7
1992	45.1	51.8	54.0	61.9	68.1	74.5	80.2	76.1	73.2	61.9	51.5	44.5	61.9
1993	47.0	45.2	51.7	59.4	71.1	79.3	85.4	82.1	76.7	63.3	53.9	45.3	63.4
1994	40.5	50.1	57.4	67.6	69.4	80.5	79.1	79.1	73.9	64.1	58.3	50.4	64.2
1995	46.3	46.4	58.9	65.8	74.4	77.0	84.3	80.7	71.0	62.0	47.7	42.8	63.1
1996	41.1	47.1	50.6	61.2	74.9	79.1	81.8	79.5	73.2	63.4	52.0	48.8	62.7
1997	46.7	51.1	60.6	57.7	64.8	71.5	78.9	76.6	73.3	61.8	47.8	42.9	61.1
1998	46.0	47.0	50.3	59.0	72.7	78.9	80.7	77.8	75.6	65.9	56.7	50.0	63.4
1999	48.0	49.8	50.5	65.1	68.9	74.9	79.2	81.9	73.1	62.5	56.7	47.1	63.1
2000	43.1	50.9	57.3	58.6	72.9	77.9	81.4	79.7	70.8	64.1	51.0	37.2	62.1
2001	41.7	50.8	50.4	63.5	70.0	74.4	78.6	78.8	71.3	60.7	59.8	50.1	62.5
2002	46.9	45.4	54.5	64.8	68.3	76.4	80.4	80.3	76.1	65.4	50.9	43.9	62.8
2003	40.1	46.4	55.7	61.7	69.0	74.4	77.9	79.1	72.1	63.5	57.6	43.3	61.7
2004	42.9	43.7	58.4	62.0	72.9	75.9	79.6	76.8	72.2	67.0	56.4	44.6	62.7
2005	46.9	48.8	52.2	60.4	66.8	75.3	79.4	79.6	76.6	64.5	55.2	41.9	62.3
2006	49.4	44.2	54.2	65.9	69.9	77.2	81.1	81.0	71.9	61.8	53.8	50.1	63.4
2007	46.2	45.3	60.2	60.3	71.6	79.6	78.5	85.6	75.9	66.0	53.2	50.8	64.4
2008	42.3	48.3	54.1	61.3	69.5	79.9	79.9	78.2	74.6	62.0	50.6	48.6	62.4
2009	43.9	47.7	55.0	60.7	70.2	79.8	78.1	78.9	73.5	61.0	53.8	42.3	62.1
POR= 80 YRS	43.3	45.5	53.3	61.4	69.9	76.4	79.4	78.7	72.9	63.0	52.4	45.0	61.8

**HEATING DEGREE DAYS (base 65°F) 2009 ATLANTA (KATL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0	0	18	154	391	618	786	502	410	36	43	0	2958
1981-82	0	0	17	179	314	795	819	486	282	204	2	0	3098
1982-83	0	0	16	139	341	466	755	571	423	261	24	0	2996
1983-84	0	0	32	123	400	770	780	503	409	221	50	0	3288
1984-85	0	0	13	22	426	346	882	576	265	111	14	1	2656
1985-86	0	0	15	71	131	725	663	422	331	133	14	0	2505
1986-87	0	11	2	107	243	609	709	534	359	191	6	0	2771
1987-88	0	0	0	172	279	494	791	559	310	104	6	0	2715
1988-89	0	0	0	188	291	566	468	490	284	160	44	0	2491
1989-90	0	0	29	103	318	797	462	297	250	150	20	0	2426
1990-91	0	0	12	109	252	488	636	437	281	54	8	0	2277
1991-92	0	0	8	76	419	499	611	377	345	161	50	2	2548
1992-93	0	0	12	110	398	627	548	549	417	184	13	0	2858
1993-94	0	0	6	129	346	604	753	412	245	55	20	0	2570
1994-95	0	0	0	79	207	446	573	515	207	59	11	0	2097
1995-96	0	0	25	135	514	680	735	517	437	159	8	0	3210
1996-97	0	0	4	104	389	497	561	385	156	226	63	18	2403
1997-98	0	0	5	159	508	679	580	499	465	175	12	3	3085
1998-99	0	0	0	53	242	463	519	421	443	92	8	0	2241
1999-00	0	0	7	110	246	548	669	401	232	186	0	0	2399
2000-01	0	0	16	86	428	856	715	391	446	108	5	0	3051
2001-02	0	0	26	172	163	452	557	543	340	85	51	0	2389
2002-03	0	0	0	90	422	647	765	516	281	119	9	0	2849
2003-04	0	0	14	80	250	664	679	610	216	133	24	0	2670
2004-05	0	0	1	30	272	626	557	446	395	147	51	3	2528
2005-06	0	0	0	125	305	710	474	577	342	65	34	0	2632
2006-07	0	0	8	167	336	452	577	545	190	172	5	0	2452
2007-08	0	0	0	85	351	441	700	478	332	135	9	0	2531
2008-09	0	0	0	159	428	505	645	477	312	165	16	0	2707
2009-	0	0	6	152	329	701							

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**COOLING DEGREE DAYS (base 65°F) 2009 ATLANTA (KATL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0	4	4	49	227	428	632	589	440	51	0	0	2424
1981	0	0	9	124	131	494	540	398	246	36	4	0	1982
1982	2	0	25	13	243	346	446	394	192	73	8	6	1748
1983	0	0	3	10	118	278	515	512	212	40	0	0	1688
1984	0	0	2	21	132	405	372	397	210	178	1	2	1720
1985	0	0	18	88	172	381	423	401	248	119	49	0	1899
1986	0	0	11	74	208	455	599	401	300	83	34	0	2165
1987	0	0	2	60	266	391	502	531	281	12	6	2	2053
1988	0	0	5	49	169	416	490	502	258	18	0	0	1907
1989	0	7	36	101	170	364	467	452	273	85	6	0	1961
1990	0	5	26	66	194	415	490	488	341	98	2	0	2125
1991	0	0	20	89	258	358	502	446	305	70	4	13	2065
1992	0	1	13	73	155	292	478	349	265	20	0	0	1646
1993	0	0	11	22	208	435	639	536	364	80	19	0	2314
1994	0	2	19	141	167	470	445	447	274	60	13	0	2038
1995	0	0	23	91	311	368	608	494	211	47	2	0	2155
1996	0	8	2	54	322	429	527	456	255	64	7	2	2126
1997	3	3	28	13	62	221	438	366	264	68	0	0	1466
1998	0	0	16	4	257	426	494	407	323	88	3	5	2023
1999	0	0	0	103	136	305	446	531	256	39	1	0	1817
2000	0	0	3	4	253	396	515	464	196	64	16	0	1911
2001	0	0	0	69	166	288	429	435	224	45	13	0	1669
2002	3	0	21	89	161	350	486	477	338	112	6	0	2043
2003	0	0	3	26	140	290	408	444	235	40	35	0	1621
2004	0	0	18	48	278	336	457	374	226	99	20	0	1856
2005	0	0	3	14	111	318	455	461	354	114	21	0	1851
2006	0	0	15	98	191	373	504	505	225	73	4	0	1988
2007	0	0	48	38	218	444	426	646	332	124	2	5	2283
2008	0	0	0	31	158	454	466	416	293	75	0	4	1897
2009	0	0	12	46	185	450	413	442	267	34	0	0	1849

## SNOWFALL (inches) 2009 ATLANTA (KATL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
1981-82	0.0	0.0	0.0	0.0	0.0	T	7.0	0.7	0.0	0.0	0.0	0.0	7.7
1982-83	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.5	7.9	0.0	0.0	0.0	10.3
1983-84	0.0	0.0	0.0	0.0	0.0	T	T	1.3	T	0.0	0.0	0.0	1.3
1984-85	0.0	0.0	0.0	0.0	0.0	T	0.4	1.5	0.0	0.0	0.0	0.0	1.9
1985-86	0.0	0.0	0.0	0.0	0.0	T	0.4	T	0.0	0.0	0.0	0.0	0.4
1986-87	0.0	0.0	0.0	0.0	0.0	0.0	3.6	T	1.2	T	0.0	0.0	4.8
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	4.2	T	0.0	0.0	0.0	0.0	4.2
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.0	0.7	0.0	T	0.0	0.0	0.7
1989-90	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	T	0.0	0.0	1.3
1990-91	0.0	0.0	0.0	0.0	0.0	0.0	2.1	T	T	0.0	0.0	0.0	2.1
1991-92	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	T	0.0	0.0	0.0	5.0
1992-93	0.0	0.0	0.0	0.0	0.0	T	0.0	T	4.2	0.0	0.0	0.0	4.2
1993-94	0.0	0.0	0.0	T	0.0	2.8	T	0.0	0.0	0.0	0.0	0.0	2.8
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	T	0.4	0.0	0.0	0.0	0.0	0.4
1995-96	0.0	0.0	0.0	0.0	0.0	0.0	1.4						
1996-97													
1997-98													
1998-99													
1999-00							T						
2000-01	0.0	0.0	0.0	0.0	T	3.0	0.1	0.0	0.0	0.0	0.0	0.0	3.1
2001-02	T	0.0	0.0	0.0	0.0	0.0	4.6		0.0				
2002-03													
2003-04													
2004-05							0.5	0.0	T	0.0	0.0	0.0	
2005-06	0.0	0.0	0.0	0.0	T	0.0	T	T	0.0	0.0	0.0	0.0	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	T	0.1	0.0	0.0	0.0	0.0	0.1
2007-08	0.0	0.0	0.0	0.0	0.0	T	1.4	T	T	0.0	0.0	0.0	1.4
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	T	T	4.2	T	0.0	0.0	4.2
2009-	0.0	0.0	0.0	0.0	0.0	T							
POR= 79 YRS	T	0.0	0.0	T	T	0.2	1.0	0.4	0.4	T	0.0	0.0	2.0

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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 ATLANTA GEORGIA (KATL)

Atlanta is located in the foothills of the southern Appalachians in north-central Georgia. The terrain is rolling to hilly and slopes downward toward the east, west, and south so that drainage of the major river systems is generally into the Gulf of Mexico from the western and southern sections of the city and to the Atlantic from the eastern portions of the city.

The Gulf of Mexico and the Atlantic Ocean are approximately 250 miles south and southeast of the city, respectively. Both the Appalachian chain of mountains and the two nearby maritime bodies exert an important influence on the Atlanta climate. Temperatures are moderated throughout the year while abundant precipitation fosters natural vegetation and growth of crops. Summer temperatures in Atlanta are moderated somewhat by elevation but are still rather warm. However, prolonged periods of hot weather are unusual and 100 degree heat is rarely experienced.

With the mountains to the north tending to retard the southward movement of Polar air masses, Atlanta winters are rather mild. Cold spells are not unusual but they are rather short-lived and seldom disrupt outdoor activities for an extended period of time. Late March is the average date of the last temperature of 32 degrees in the spring and mid-November is the average date of the first temperature of 32 degrees in the fall, which gives an average growing season of about 234 days.

Minimum dry precipitation periods occur mainly during the late summer and early autumn. Maximum thunderstorm activity occurs during July, but severe local thunderstorms occur most frequently in March, April, and May, some spawning highly damaging tornadoes.

The average annual snowfall varies widely from year to year. A fall of 4 inches or more occurs about once every five years. Most snows melt in a short period of time due to the rapid warming which often follows the storm. Ice storms, freezing rain or glaze, occur about two out of every three years, causing hazardous travel and disruption of utilities. Severe ice storms occur about once in ten years, causing major disruption of utilities and significant property damage.

The Bermuda High pressure area has a dominant effect on Atlanta weather, particularly in the summer months. East or northeast winds produce the most unpleasant weather although southerly winds are quite humid during the summer. The generally light wind conditions contribute to the formation of an occasional early morning fog.

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