

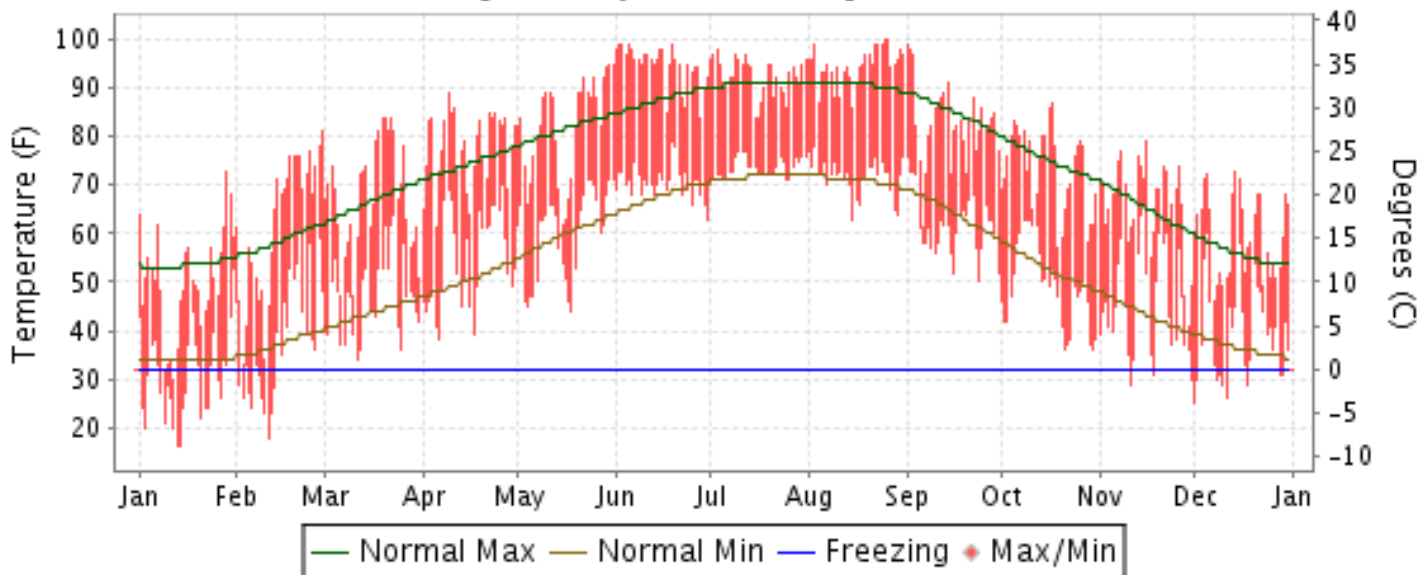


2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

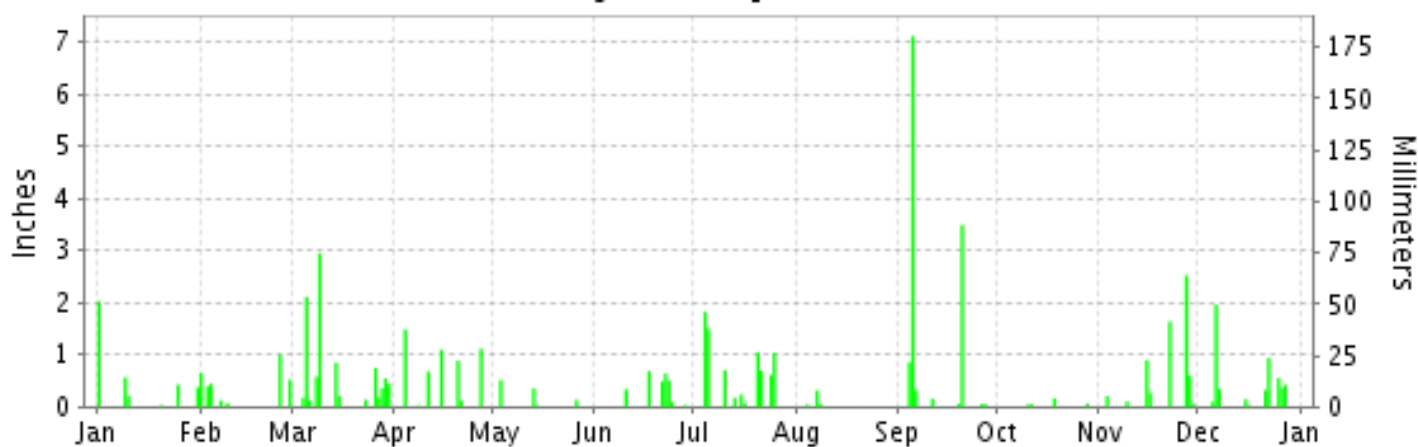
ISSN 0275-178X

BIRMINGHAM, ALABAMA (KBHM)

Daily Max/Min Temperature



Daily Precipitation



Daily Station Pressure



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NATIONAL
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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 2011

BIRMINGHAM (KBHM)

LATITUDE: 33° 33'N LONGITUDE: -86° 44'W ELEVATION (FT): GRND: 615 BARO: 630 TIME ZONE: CENTRAL (UTC -6) WBAN: 13876

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	50.0	62.1	67.6	77.9	82.1	94.7	92.5	94.6	82.7	73.4	66.1	59.6	75.3	
	HIGHEST DAILY MAXIMUM	73	81	84	89	95	99	98	100	99	87	79	73	100	
	DATE OF OCCURRENCE	29	28	22+	09	31+	19+	03	26+	01	17	16	14	AUG 26+	
	MEAN DAILY MINIMUM	30.5	38.2	46.9	54.7	60.0	70.5	73.6	71.8	61.8	49.0	45.6	39.5	53.5	
	LOWEST DAILY MINIMUM	16	18	34	38	44	63	70	63	50	36	29	25	16	
	DATE OF OCCURRENCE	14+	11	11	06	18	30	01	15	24	30+	11	01	JAN 14+	
	AVERAGE DRY BULB	40.3	50.2	57.3	66.3	71.1	82.6	83.1	83.2	72.3	61.2	55.9	49.6	64.4	
	MEAN WET BULB	35.8	43.7	51.2	59.2	63.1	71.8	74.7	72.4	64.9	53.7	50.5	45.1	57.2	
	MEAN DEW POINT	28.5	36.3	45.8	53.2	57.9	66.8	71.3	67.3	60.6	47.5	44.7	40.6	51.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	6	26	25	27	4	0	0	0	0	88
	MAXIMUM <= 32°	2	0	0	0	0	0	0	0	0	0	0	0	0	2
MINIMUM <= 32°	17	10	0	0	0	0	0	0	0	0	3	9	39		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	761	417	269	70	55	0	0	0	6	150	283	474	2485	
	COOLING DEGREE DAYS	0	10	35	117	249	535	565	573	233	39	17	1	2374	
RH	MEAN (PERCENT)	66	64	69	65	66	63	73	63	71	66	69	75	68	
	HOUR 00 LST	72	70	78	77	77	75	84	75	84	82	75	82	78	
	HOUR 06 LST	78	77	84	85	83	79	86	80	87	84	80	87	83	
	HOUR 12 LST	55	53	59	50	52	48	58	47	55	44	58	62	53	
	HOUR 18 LST	60	54	59	51	53	54	66	51	62	63	67	71	59	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	1	0	0	1	1	1	0	3	0	0	2	9	
	THUNDERSTORMS	1	1	7	6	2	13	13	5	6	1	2	2	59	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (<= 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.42	29.44	29.42	29.33	29.32	29.33	29.33	29.27	29.33	29.41	29.47	29.54	29.38	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	30.13	30.09	29.98	29.98	29.98	29.98	29.92	29.98	30.07	30.14	30.22	30.05	
WINDS	RESULTANT SPEED (MPH)	2.2	2.1	0.9	5.2	2.3	1.1	0.3	2.0	0.8	1.6	1.8	0.4	0.9	
	RES. DIR. (TENS OF DEGS.)	31	23	23	20	23	26	15	34	36	35	19	18	25	
	MEAN SPEED (MPH)	5.6	7.5	7.3	8.4	5.8	5.4	4.0	4.3	4.9	4.9	7.0	5.3	5.9	
	PREVAIL.DIR.(TENS OF DEGS.)	35	18	12	18	28	22	08	33	30	05	17	15	18	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	30	38	32	46	31	41	38	32	36	23	24	26	46	
	DIR. (TENS OF DEGS.)	28	29	12	26	24	24	27	32	02	28	32	31	26	
	DATE OF OCCURRENCE	07	25	09	27	26	21	04	07	05	19	16	22	APR 27	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	43	49	45	67	40	61	67	46	48	30	31	33	67	
DIR. (TENS OF DEGS.)	26	29	14	26	25	24	25	01	36	29	27	25	25		
DATE OF OCCURRENCE	07	25	08	27	13	21	04	04	05	19	03	27	JUL 04		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.71	3.25	9.45	5.45	1.06	2.81	8.00	0.48	12.14	0.36	6.37	5.24	58.32	
	GREATEST 24-HOUR (IN.)	2.03	1.01	3.26	1.49	0.52	1.15	1.83	0.38	7.20	0.18	2.82	2.16	7.20	
	DATE OF OCCURRENCE	01	25	08-09	04	03	22-23	04	07-08	04-05	18-19	27-28	06-07	SEP 04-05	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	9	7	13	8	4	7	13	6	9	5	10	11	102	
PRECIPITATION 0.10	5	6	13	6	3	6	9	1	5	1	7	9	71		
PRECIPITATION 1.00	1	1	2	3	0	0	4	0	2	0	2	1	16		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	1.0	1.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	2.0	
	GREATEST 24-HOUR (IN.)	1.0	1.0	T	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	1.0	
	DATE OF OCCURRENCE	09	09	26	15							29		FEB 09	
	MAXIMUM SNOW DEPTH (IN.)	1	1	0	0	0	0	0	0	0	0	0	0	1	
	DATE OF OCCURRENCE	10	10											FEB 10	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	1	1	0	0	0	0	0	0	0	0	0	0	2		

NORMALS, MEANS, AND EXTREMES BIRMINGHAM (KBHM)

LATITUDE:
33° 33'N

LONGITUDE:
-86° 44'W

ELEVATION (FT):
GRND: 615 BARO: 630

TIME ZONE:
CENTRAL (UTC -6)

WBAN: 13876

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	52.8	58.3	66.5	74.1	81.0	87.5	90.6	90.2	84.6	74.9	64.5	56.0	73.4
	MEAN DAILY MAXIMUM	82	53.8	56.9	65.8	74.1	81.7	87.6	90.5	90.2	84.4	75.5	64.0	55.9	73.4
	HIGHEST DAILY MAXIMUM	68	81	83	89	92	99	102	106	105	100	94	85	80	106
	YEAR OF OCCURRENCE		1949	1996	1982	1987	1962	1954	1980	2007	1990	1954	2003	1951	JUL 1980
	MEAN OF EXTREME MAXS.	82	71.2	74.9	81.6	86.3	90.6	95.2	97.3	96.4	94.0	86.5	78.7	72.1	85.4
	NORMAL DAILY MINIMUM	30	32.3	35.4	42.4	48.4	57.6	65.4	69.7	68.9	63.0	50.9	41.8	35.2	50.9
	MEAN DAILY MINIMUM	82	34.2	35.9	43.1	50.4	59.2	66.3	70.3	69.7	63.5	52.1	41.8	36.1	51.9
	LOWEST DAILY MINIMUM	68	-6	3	2	26	35	42	51	51	37	27	5	1	-6
	YEAR OF OCCURRENCE		1985	1958	1993	1973	1944	1966	1967	1946	1967	1956	1950	1989	JAN 1985
	MEAN OF EXTREME MINS.	82	14.3	18.4	25.0	33.3	43.6	54.8	62.2	60.9	48.5	34.6	24.7	17.8	36.5
	NORMAL DRY BULB	30	42.6	46.8	54.5	61.3	69.3	76.4	80.2	79.6	73.8	62.9	53.1	45.6	62.2
	MEAN DRY BULB	82	44.0	46.4	54.5	62.3	70.5	77.0	80.4	79.9	74.0	63.8	52.9	46.0	62.6
	MEAN WET BULB	28	37.7	40.7	46.8	53.7	62.4	68.8	71.9	71.1	65.7	55.7	47.6	40.3	55.2
	MEAN DEW POINT	28	34.6	37.5	43.0	50.6	60.2	67.3	70.6	69.6	63.7	53.4	44.9	37.2	52.7
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.1	1.9	11.3	19.0	17.7	7.4	0.1	0.0	0.0	57.5
	MAXIMUM <= 32	30	1.4	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	0.6	2.7
MINIMUM <= 32	30	16.4	11.5	5.3	1.2	0.0	0.0	0.0	0.0	0.0	0.3	6.3	14.0	55.0	
MINIMUM <= 0	30	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	
H/C	NORMAL HEATING DEG. DAYS	30	691	514	339	154	31	1	0	0	11	133	359	590	2823
	NORMAL COOLING DEG. DAYS	30	1	3	16	51	167	351	476	455	280	69	9	3	1881
RH	NORMAL (PERCENT)	30	70	68	64	66	71	73	74	73	73	71	72	71	71
	HOURLY 00 LST	30	77	74	73	78	84	85	86	86	84	83	80	77	81
	HOURLY 06 LST	30	81	80	80	84	87	87	89	90	88	87	84	82	85
	HOURLY 12 LST	30	61	56	53	50	56	57	59	57	57	54	57	60	56
	HOURLY 18 LST	30	66	59	53	51	59	61	64	64	67	70	69	68	63
S	PERCENT POSSIBLE SUNSHINE	34	42	50	55	63	66	65	59	63	61	66	55	46	58
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	1.0	0.6	0.7	0.4	0.4	0.5	0.4	0.4	0.4	0.5	0.8	1.0	7.1
	THUNDERSTORMS	64	1.8	2.3	4.5	5.0	7.1	9.0	11.8	8.8	4.0	1.4	2.0	1.3	59.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)														
	MIDNIGHT-MIDNIGHT (OKTAS)														
	MEAN NO. DAYS WITH: CLEAR														
	PARTLY CLOUDY CLOUDY														
PR	MEAN STATION PRESSURE(IN)	28	29.48	29.44	29.39	29.36	29.35	29.35	29.37	29.36	29.38	29.42	29.45	29.48	29.40
	MEAN SEA-LEVEL PRES. (IN)	28	30.16	30.13	30.07	30.02	30.01	30.00	30.03	30.02	30.03	30.09	30.14	30.17	30.07
WINDS	MEAN SPEED (MPH)	28	6.9	7.4	7.6	7.2	6.3	5.4	5.3	4.9	5.6	5.5	6.1	6.6	6.2
	PREVAIL.DIR.(TENS OF DEGS)	34	36	36	36	19	19	16	28	09	09	36	36	36	36
	MAXIMUM 2-MINUTE: SPEED (MPH)	13	44	51	41	46	49	45	53	38	39	35	38	39	53
	DIR. (TENS OF DEGS)		28	24	28	26	24	35	23	03	07	28	26	20	23
	YEAR OF OCCURRENCE		2008	2001	2006	2011	2010	2010	2008	2000	2004	2010	2003	2009	JUL 2008
	MAXIMUM 3-SECOND SPEED (MPH)	13	55	68	55	67	62	67	72	54	54	49	49	53	72
	DIR. (TENS OF DEGS)		29	24	23	26	24	34	26	28	07	28	28	19	26
	YEAR OF OCCURRENCE		2008	2001	2009	2011	2010	2010	2008	2010	2004	2010	2001	2009	JUL 2008
PRECIPITATION	NORMAL (IN)	30	5.45	4.21	6.10	4.67	4.83	3.78	5.09	3.48	4.05	3.23	4.63	4.47	53.99
	MAXIMUM MONTHLY (IN)	68	11.00	17.67	15.80	13.75	17.22	9.04	13.70	10.85	12.14	11.90	15.25	13.98	17.67
	YEAR OF OCCURRENCE		1949	1961	1980	1979	2003	1999	1950	1967	2011	1995	1948	1961	FEB 1961
	MINIMUM MONTHLY (IN)	68	1.09	1.20	1.02	0.42	0.88	0.67	0.30	0.38	T	0.07	0.42	0.81	0.07
	YEAR OF OCCURRENCE		1981	1968	2007	1986	2000	1968	1983	1989	1955	1991	1949	1949	OCT 1991
	MAXIMUM IN 24 HOURS (IN)	68	5.81	6.57	7.05	5.08	5.78	3.85	5.47	5.13	9.75	6.94	4.87	5.29	9.75
	YEAR OF OCCURRENCE		1949	1961	1970	1966	2003	1957	1985	1952	2004	1995	1948	1961	SEP 2004
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.4	9.5	11.0	9.1	10.6	10.4	12.1	9.3	8.0	6.5	9.4	10.5	117.8
	PRECIPITATION >= 1.00	30	1.6	1.2	1.9	1.5	1.7	0.9	1.4	1.0	1.5	0.9	1.6	1.3	16.5
SNOWFALL	NORMAL (IN)	30	0.7	0.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0	0.*	0.*	0.1	1.7
	MAXIMUM MONTHLY (IN)	68	6.6	2.3	13.0	5.0	T	T	T	T	T	T	1.4	8.0	13.0
	YEAR OF OCCURRENCE		1982	1960	1993	1987	1996	2006	1994	1992	1993	1993	1950	1963	MAR 1993
	MAXIMUM IN 24 HOURS (IN)	64	4.5	2.3	13.0	5.0	T	T	T	0.0	T	T	1.4	8.4	13.0
	YEAR OF OCCURRENCE'		1948	1960	1993	1987	1996	1992	1994	1992	1993	1993	1950	1963	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	64	8	2	13	5	0	0	0	0	0	0	1	11	13
	YEAR OF OCCURRENCE		1964	1960	1993	1987							1950	1958	MAR 1993
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	

PRECIPITATION (inches) 2011 BIRMINGHAM (KBHM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	5.19	6.29	2.71	7.86	3.19	5.39	3.53	2.68	0.66	3.73	7.11	9.51	57.85
1983	3.26	6.42	5.06	8.28	9.57	3.81	0.30	0.99	2.83	3.67	9.14	12.63	65.96
1984	3.96	2.79	4.07	8.61	6.07	1.41	5.06	3.86	0.16	3.91	5.42	2.30	47.62
1985	5.22	5.79	1.71	2.86	4.36	5.34	10.07	4.07	1.97	4.12	2.62	2.54	50.67
1986	1.21	1.79	2.45	0.42	3.66	3.87	1.61	5.56	2.52	5.24	9.66	3.08	41.07
1987	5.89	5.82	4.77	1.03	6.03	4.59	2.30	3.96	3.52	1.16	3.17	3.08	45.32
1988	5.55	2.52	3.18	3.18	1.22	0.79	2.95	3.43	8.57	3.41	6.33	2.84	43.97
1989	4.76	4.31	5.70	3.40	3.82	8.00	6.42	0.38	7.38	1.52	4.63	3.39	53.71
1990	7.38	7.43	5.81	2.38	4.12	2.08	3.16	0.59	2.04	2.98	4.02	5.47	47.46
1991	3.19	4.27	5.42	4.87	8.90	7.52	4.00	4.59	3.02	0.07	4.00	3.64	53.49
1992	3.22	3.96	3.36	2.61	1.18	5.34	7.41	7.43	5.70	2.18	7.94	5.27	55.60
1993	6.11	2.35	4.40	2.99	3.93	1.47	1.16	2.72	4.62	3.22	2.22	4.01	39.20
1994	5.10	4.78	7.56	3.77	3.74	5.41	7.75	4.05	4.67	5.39	3.93	4.10	60.25
1995	3.85	4.37	3.63	4.42	3.15	3.07	1.81	1.51	5.53	11.90	6.97	4.91	55.12
1996	9.59	3.09	10.59	2.70	5.16	2.17	8.50	4.45	5.83	3.55	4.00	3.28	62.91
1997	6.31	4.82	3.23	5.08	4.41	5.55	5.99	2.74	4.00	5.49	3.74	4.13	55.49
1998	8.06	8.52	6.36	7.99	4.03	3.25	7.75	8.98	0.52	1.17	4.37	6.27	67.27
1999	8.63	2.34	6.75	2.03	5.37	9.04	3.13	0.81	0.65	4.16	2.73	3.13	48.77
2000	5.72	2.17	10.67	8.19	0.88	2.89	4.62	2.20	1.66	1.26	8.14	1.84	50.24
2001	5.23	4.35	8.43	7.30	5.25	7.53	3.61	7.38	6.26	2.43	4.20	4.76	66.73
2002	6.02	2.88	6.47	3.02	4.15	5.27	7.72	1.60	9.94	5.46	4.65	7.23	64.41
2003	2.22	5.80	4.29	4.39	17.22	6.63	5.89	9.48	2.65	0.49	3.26	3.26	65.58
2004	2.77	5.92	3.14	3.24	5.04	7.01	3.29	2.66	10.96	2.61	11.13	3.55	61.32
2005	1.93	4.06	5.84	5.23	5.60	4.91	9.49	1.68	1.73	0.49	3.62	4.62	49.20
2006	5.97	8.70	4.72	7.81	2.53	4.77	5.03	2.69	3.74	4.97	2.60	3.03	56.56
2007	3.00	2.56	1.02	2.62	1.08	1.63	3.43	4.88	3.30	1.71	1.69	1.94	28.86
2008	4.47	4.66	4.59	5.24	7.98	3.97	5.05	7.90	0.40	1.94	2.49	6.40	55.09
2009	6.28	5.07	6.82	2.12	6.26	3.03	7.59	4.49	10.69	7.88	5.33	6.10	71.66
2010	4.01	3.14	6.91	5.30	8.82	3.29	1.31	4.79	0.43	3.70	4.82	1.37	47.89
2011	3.71	3.25	9.45	5.45	1.06	2.81	8.00	0.48	12.14	0.36	6.37	5.24	58.32
POR= 82 YRS	5.05	4.81	6.07	4.63	4.39	3.93	5.17	4.14	3.91	2.97	4.14	4.77	53.98

WBAN : 13876

AVERAGE TEMPERATURE (°F) 2011 BIRMINGHAM (KBHM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	41.9	47.3	58.9	59.1	72.6	75.7	80.7	79.6	73.1	64.2	54.1	51.2	63.2
1983	40.6	44.8	50.8	56.6	67.3	74.1	80.3	81.7	71.7	63.0	51.9	39.8	60.2
1984	38.5	46.8	52.4	59.0	67.5	77.1	78.2	77.5	72.1	71.1	51.4	54.3	62.2
1985	35.5	43.2	56.7	63.7	69.5	76.2	78.1	78.2	72.0	67.3	61.0	40.2	61.8
1986	41.9	49.9	55.5	61.8	71.2	78.6	82.5	77.8	76.9	63.9	57.4	44.0	63.5
1987	42.1	46.9	54.6	59.5	73.8	76.7	80.5	82.0	73.1	56.8	54.5	49.1	62.5
1988	39.7	43.5	54.1	61.2	67.6	77.5	79.8	81.5	74.4	57.7	55.2	45.8	61.5
1989	48.9	45.7	56.4	60.3	67.7	75.5	79.2	79.5	72.5	61.9	52.9	38.0	61.5
1990	49.0	54.5	57.0	60.7	68.9	77.8	79.8	82.3	77.5	63.9	55.7	49.7	64.7
1991	44.8	49.7	55.8	65.7	73.1	76.9	81.4	80.8	75.4	65.1	50.0	49.3	64.0
1992	43.4	50.6	53.8	61.0	67.4	74.7	80.4	75.6	73.4	61.5	51.7	45.8	61.6
1993	47.0	44.9	50.4	58.8	68.7	78.5	83.8	81.2	73.2	61.9	51.7	44.4	62.0
1994	39.6	49.3	54.6	65.3	67.5	78.5	78.0	78.0	72.1	64.1	57.0	49.2	62.8
1995	44.4	46.2	57.4	63.7	72.0	75.6	83.2	84.8	74.5	62.5	48.0	43.6	63.0
1996	42.6	46.0	50.9	59.1	73.3	77.2	79.9	78.6	71.8	62.6	52.0	48.7	61.9
1997	44.7	50.5	59.5	58.2	66.0	74.4	80.3	77.9	74.9	62.7	49.7	43.0	61.8
1998	46.7	48.0	52.7	60.9	73.4	80.3	82.2	80.4	78.2	67.6	57.3	50.7	64.9
1999	49.3	51.2	51.6	67.2	69.9	77.1	81.7	83.6	74.8	64.0	55.5	46.7	64.4
2000	44.5	52.2	58.0	59.4	74.3	77.6	82.6	81.6	74.2	65.8	52.0	38.1	63.4
2001	40.1	51.0	49.7	64.5	70.5	75.3	80.1	78.5	71.6	60.6	58.6	49.3	62.5
2002	46.9	44.5	54.5	65.7	70.2	76.9	80.6	81.1	77.6	66.9	50.5	44.4	63.3
2003	38.4	47.1	56.9	64.1	70.5	75.0	79.0	79.9	73.5	63.5	58.6	43.8	62.5
2004	43.3	45.2	59.1	62.2	73.7	76.4	79.5	76.6	74.2	69.0	57.6	44.9	63.5
2005	48.1	50.4	53.6	61.4	67.8	76.8	80.5	81.3	77.7	63.6	56.4	42.4	63.3
2006	50.7	45.0	56.1	67.8	71.2	79.2	83.5	83.7	73.4	62.5	53.9	49.9	64.7
2007	45.9	44.6	61.4	60.5	73.1	81.0	80.2	86.9	77.3	67.8	53.9	51.7	65.4
2008	43.1	49.1	56.0	63.5	70.4	79.2	81.6	79.7	75.4	63.0	51.2	49.2	63.5
2009	44.7	48.1	57.5	62.3	71.2	79.4	78.5	78.6	74.7	61.8	53.6	44.3	62.9
2010	38.9	39.9	51.1	65.3	73.4	81.7	84.7	84.7	78.2	65.2	55.7	40.1	63.2
2011	40.3	50.2	57.3	66.3	71.1	82.6	83.1	83.2	72.3	61.2	55.9	49.6	64.4
POR= 82 YRS	44.0	46.4	54.5	62.3	70.5	77.0	80.4	79.9	74.0	63.8	52.9	46.0	62.6

HEATING DEGREE DAYS (base 65°F) 2011 BIRMINGHAM (KBHM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0	0	16	134	331	449	751	558	437	262	39	0	2977
1983-84	0	0	26	108	388	774	817	519	392	202	68	2	3296
1984-85	0	0	10	27	410	330	907	604	278	123	16	3	2708
1985-86	0	0	14	62	165	761	711	415	305	132	21	0	2586
1986-87	0	1	0	112	239	644	705	500	320	201	0	0	2722
1987-88	0	0	5	248	315	488	777	616	347	134	18	0	2948
1988-89	0	0	0	234	289	589	492	545	289	200	65	0	2703
1989-90	0	0	27	140	363	834	491	299	265	172	32	0	2623
1990-91	0	0	16	138	282	474	620	421	304	46	7	0	2308
1991-92	0	0	12	97	455	492	663	409	344	173	46	0	2691
1992-93	0	0	6	116	398	587	550	559	452	196	20	0	2884
1993-94	0	0	16	153	411	633	780	433	328	90	31	0	2875
1994-95	0	0	3	82	241	483	632	520	250	101	24	0	2336
1995-96	0	0	12	137	509	662	686	560	440	203	12	0	3221
1996-97	0	0	10	121	390	498	628	399	188	209	46	0	2489
1997-98	0	0	1	162	450	676	562	469	400	150	13	5	2888
1998-99	0	0	0	47	231	462	483	383	408	73	8	0	2095
1999-00	0	0	12	107	279	559	634	370	219	175	1	0	2356
2000-01	0	0	10	84	419	828	766	392	466	101	3	0	3069
2001-02	0	0	32	183	200	478	564	568	355	84	42	0	2506
2002-03	0	0	0	68	437	630	818	497	264	89	4	0	2807
2003-04	0	0	17	88	229	651	673	571	205	137	27	0	2598
2004-05	0	0	0	31	239	615	516	406	360	128	45	0	2340
2005-06	0	0	0	146	296	692	436	555	302	48	23	0	2498
2006-07	0	0	5	160	335	460	587	565	168	185	4	0	2469
2007-08	0	0	0	81	327	415	671	462	282	110	20	0	2368
2008-09	0	0	0	141	407	492	623	467	246	147	17	0	2540
2009-10	0	0	7	140	336	637	800	696	424	60	16	0	3116
2010-11	0	0	0	70	277	763	761	417	269	70	55	0	2682
2011-	0	0	6	150	283	474							

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COOLING DEGREE DAYS (base 65°F) 2011 BIRMINGHAM (KBHM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	1	0	65	28	247	327	495	459	265	118	12	27	2044
1983	0	0	7	17	115	281	481	528	233	53	2	0	1717
1984	0	0	11	30	151	373	421	395	230	221	6	6	1844
1985	0	1	27	90	163	349	413	417	233	139	51	1	1884
1986	0	0	16	43	222	413	547	406	364	84	18	0	2113
1987	0	0	5	46	280	357	487	532	254	1	7	3	1972
1988	0	0	13	26	105	382	467	516	292	14	1	0	1816
1989	0	14	27	65	155	323	447	459	257	51	3	0	1801
1990	1	14	21	49	160	393	466	543	398	110	9	4	2168
1991	0	0	28	74	266	364	515	496	333	106	9	10	2201
1992	0	0	2	59	129	298	484	333	265	14	5	0	1589
1993	0	0	5	19	140	410	591	511	271	63	18	0	2028
1994	0	0	10	109	115	408	410	411	221	58	8	0	1750
1995	2	0	23	67	247	323	571	620	301	67	3	3	2227
1996	0	16	10	34	280	374	470	428	219	54	8	1	1894
1997	6	1	23	14	82	287	481	404	303	99	0	0	1700
1998	1	0	27	34	277	470	538	484	403	134	6	26	2400
1999	7	5	0	146	168	371	524	580	312	83	0	0	2196
2000	3	8	9	12	298	385	553	521	294	117	37	0	2237
2001	0	6	0	95	182	314	473	423	234	53	17	0	1797
2002	12	0	36	112	210	363	491	507	386	134	9	0	2260
2003	0	3	18	70	184	307	440	469	282	48	45	0	1866
2004	6	0	31	62	304	350	459	364	284	162	25	0	2047
2005	1	3	12	29	140	360	488	513	390	111	44	0	2091
2006	2	0	35	141	222	434	579	587	262	87	8	0	2357
2007	0	0	63	57	259	489	480	686	380	174	2	9	2599
2008	2	5	10	72	192	430	524	464	315	87	1	9	2111
2009	0	0	22	77	216	437	424	429	305	49	0	0	1959
2010	0	0	0	73	284	507	615	615	400	82	7	0	2583
2011	0	10	35	117	249	535	565	573	233	39	17	1	2374

SNOWFALL (inches) 2011 BIRMINGHAM (KBHM)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	0.0	T	1.0	T	1.5	0.0	0.0	0.0	2.5
1983-84	0.0	0.0	0.0	0.0	0.0	T	T	T	2.0	0.0	0.0	0.0	2.0
1984-85	0.0	0.0	0.0	0.0	0.0	T	T	0.3	0.0	0.0	0.0	0.0	0.3
1985-86	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	0.0	0.0	T
1986-87	0.0	0.0	0.0	0.0	0.0	T	2.6	0.0	T	5.0	0.0	0.0	7.6
1987-88	0.0	0.0	0.0	0.0	0.0	0.0	1.0	T	0.0	0.0	0.0	0.0	1.0
1988-89	0.0	0.0	0.0	0.0	0.0	T	0.0	T	T	T	0.0	0.0	T
1989-90	0.0	0.0	0.0	0.0	T	0.4	0.0	T	0.0	0.0	T	T	0.4
1990-91	T	0.0	0.0	0.0	0.0	T	T	T	T	T	0.0	T	T
1991-92	0.0	0.0	0.0	0.0	T	0.0	4.4	0.0	T	0.0	T	T	4.4
1992-93	0.0	0.0	T	T	0.0	0.0	0.0	T	13.0	0.0	T	0.0	13.0
1993-94	0.0	0.0	0.0	T	0.0	T	T	0.0	T	0.0	0.0	0.0	T
1994-95	T	0.0	0.0	0.0	0.0	0.0	T	1.0	T	0.0	T	0.0	1.0
1995-96	0.0	0.0	0.0	0.0	T	T	0.3	1.2	T	0.0	T	0.0	1.5
1996-97	0.0	0.0	0.0	0.0	0.0	T	T	T	0.0	0.0	T	0.0	T
1997-98	0.0	0.0	0.0	0.0	T	1.7	T	T	T	T	0.0	T	1.7
1998-99	T	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T	0.0	T	T
1999-00	0.0	0.0	0.0	0.0	0.0	0.0	3.0	T	T	T	0.0	0.0	3.0
2000-01	T	0.0	0.0	0.0	T	T	T	T	T	T	0.0	T	T
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
2002-03	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	T	0.0	T
2003-04	T	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	T
2004-05	0.0	0.0	0.0	T	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0	T
2005-06	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	T	0.0	T	T
2006-07	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.0	0.0	0.0	0.0	T
2007-08	0.0	0.0	0.0	0.0	0.0	0.0	T	T	0.1	0.0	0.0	0.0	0.1
2008-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	T	0.0	0.0	2.0
2009-10	0.0	0.0	0.0	0.0	0.0	T	T	1.7	T	T	0.0	0.0	1.7
2010-11	0.0	0.0	0.0	0.0	0.0	T	1.0	1.0	T	T	0.0	0.0	2.0
2011-	0.0	0.0	0.0	0.0	T	0.0							
POR= 82 YRS	T	0.0	T	T	T	0.3	0.8	0.2	0.3	0.1	T	T	1.7

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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 EIGHTHS(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 SNOWFALL STOPPED MONTH & YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</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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2011

BIRMINGHAM (MUNICIPAL AIRPORT)

ALABAMA (KBHM)

Birmingham is located in a hilly area of north-central Alabama in the foothills of the Appalachians about 300 miles inland from the Gulf of Mexico. There is a series of southwest to northeast valleys and ridges in the area.

The city is far enough inland to be protected from destructive tropical hurricanes, yet close enough that the Gulf has a pronounced modifying effect on the climate.

Although summers are long and hot, they are not generally excessively hot. On a typical mid-summer day, the temperature will be nearly 70 degrees at daybreak, approach 90 degrees at mid-day, and level off in the low 90s during the afternoon. It is not unusual for the temperature to remain below 100 degrees for several years in a row. However, every few years an extended heat wave will bring temperatures over 100 degrees. July is normally the hottest month but there is little difference from mid-June to mid-August. Rather persistent high humidity adds to the summer discomfort.

January is normally the coldest month but there is not much difference from mid-December to mid-February. Overall, winters are relatively mild. Even in cold spells, it is unusual for the temperature to remain below freezing all day. Sub-zero cold is extremely rare, occurring only a very few times this century. Extremely low temperatures almost always occur under clear skies after a snowfall.

Snowfall is erratic. Sometimes there is a two- or three-year span with no measurable snow. On rare occasions, there may be a 2 to 4 inch snowstorm. The snow usually melts quickly. Even 1 or 2 inches of snow can effectively shut down this sunbelt city because of the hilly terrain, the wetness of the snow and the unfamiliarity of motorists driving on snow and ice.

Birmingham is blessed with abundant rainfall. It is fairly well distributed throughout the year. However, some of the wetter winter months, plus March and July, have twice the rainfall of October, the driest month. Summer rainfall is almost entirely from scattered afternoon and early evening thunderstorms. Serious droughts are rare and most dry spells are not severe.

The stormiest time of the year with the greatest risk of severe thunderstorms and tornadoes is in spring, especially in March and April.

In a normal year, the last 32 degree minimum temperature in the spring is in mid to late March and the first in autumn is in early November.

Station History

BIRMINGHAM, AL

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BIRMINGHAM AP	1966-01-01	1973-01-01	33° 34'	-86° 45'	620		AIRWAYS, COOP
BIRMINGHAM AP	1998-09-24	1998-09-25	33° 33'	-86° 44'	615	400 FT N	COOP
BIRMINGHAM AP	1998-09-25	2006-08-01	33° 33'	-86° 44'	615		AIRWAYS, ASOS, COOP
BIRMINGHAM AP	1948-06-01	1966-01-01	33° 34'	-86° 45'	630		AIRWAYS, COOP
BIRMINGHAM AP	1980-01-01	1981-12-31	33° 34'	-86° 45'	620		COOP, WXSVC
BIRMINGHAM AP	1978-10-01	1979-01-01	33° 34'	-86° 45'	620		COOP
BIRMINGHAM AP	1979-01-01	1980-01-01	33° 34'	-86° 45'	620		AIRWAYS, COOP
BIRMINGHAM AP	2006-08-01	Present	33° 33'	-86° 44'	615		AIRSAMPLE, AIRWAYS, ASOS, COOP
BIRMINGHAM AP	1930-12-01	1931-01-01	33° 31'	-86° 51'			AIRWAYS
BIRMINGHAM AP	1973-01-01	1974-12-31	33° 34'	-86° 45'	620		COOP, WXSVC
BIRMINGHAM AP	1974-12-31	1975-01-01	33° 34'	-86° 45'	620		COOP
BIRMINGHAM AP	1975-01-01	1977-01-01	33° 27'	-86° 51'	620		COOP
BIRMINGHAM AP	1977-01-01	1978-10-01	33° 28'	-86° 49'	620		COOP
BIRMINGHAM AP	1981-12-31	1996-12-04	33° 34'	-86° 45'	620		COOP
BIRMINGHAM AP	1996-12-04	1998-09-24	33° 33'	-86° 44'	620		COOP
BIRMINGHAM AP	1931-01-01	1948-06-01	33° 34'	-86° 45'			AIRWAYS

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1995-07-01	1996-12-04	DAILY	2400	UNIV	RCRD	
PRECIP	1998-09-24	2006-08-01	DAILY	2400	TB	RCRD	
PRECIP	1996-12-04	1998-09-24	DAILY	2400	UNIV	RCRD	
PRECIP	1998-09-24	2006-08-01	HOURLY	2400	TB	RCRD	
PRECIP	1928-11-01	1990-08-01	DAILY	2400	PCPN1		
PRECIP	1990-08-01	1995-07-01	DAILY		UNIV	RCRD	
TEMP	1995-07-01	1996-12-04	DAILY	2400			
TEMP	1990-08-01	1995-07-01	DAILY	2400			
PRECIP	1996-12-04	1998-09-24	HOURLY	2400	F&P	RCRD	
TEMP	1996-12-04	1998-09-24	DAILY	2400	MXMN		
TEMP	2006-08-01	Present	DAILY	2400	HYGR		
TEMP	1928-11-01	1990-08-01	DAILY	2400			
PRECIP	1990-08-01	1995-07-01	HOURLY	2400			
TEMP	1998-09-24	2006-08-01	DAILY	2400	HYGR		
PRECIP	2006-08-01	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	2006-08-01	Present	DAILY	2400	PCPNX		
PRECIP	1995-07-01	1996-12-04	HOURLY	2400	F&P	RCRD	

* For explanation of codes and abbrevitions see Station Metadata link below.

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asosimplementation.htm>

Station Metadata website: <http://www.ncdc.noaa.gov/homr>

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151 Patton Avenue

Asheville, NC 28801-5001

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