

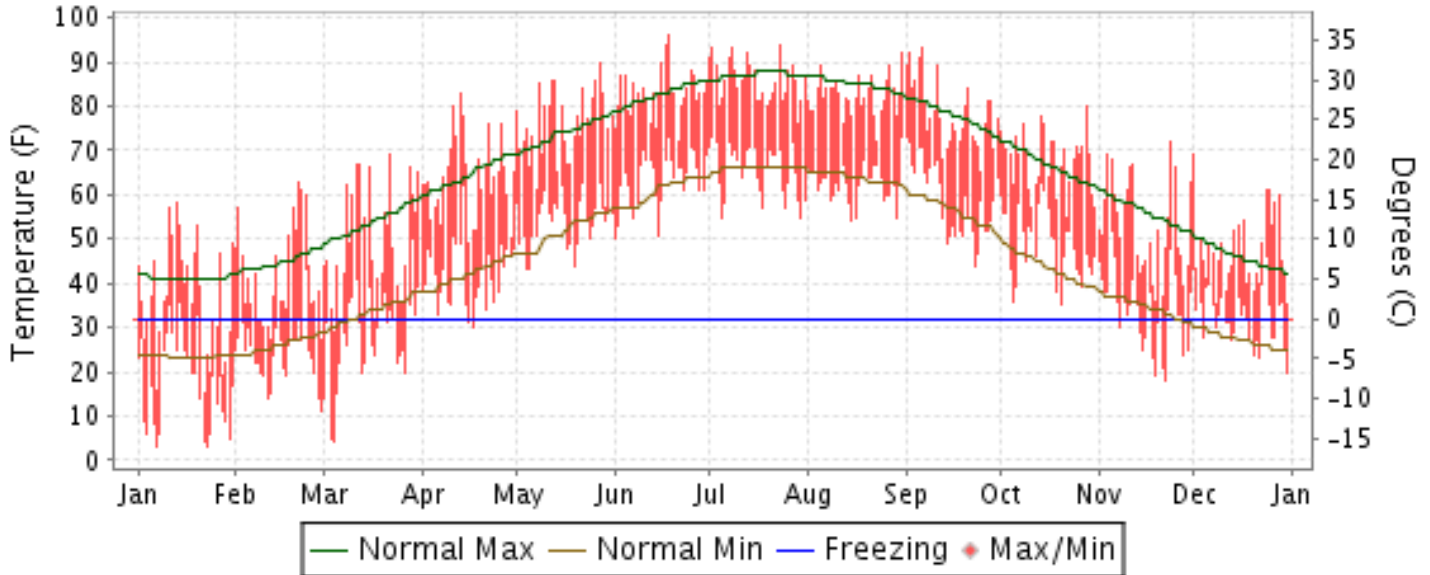


2014 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

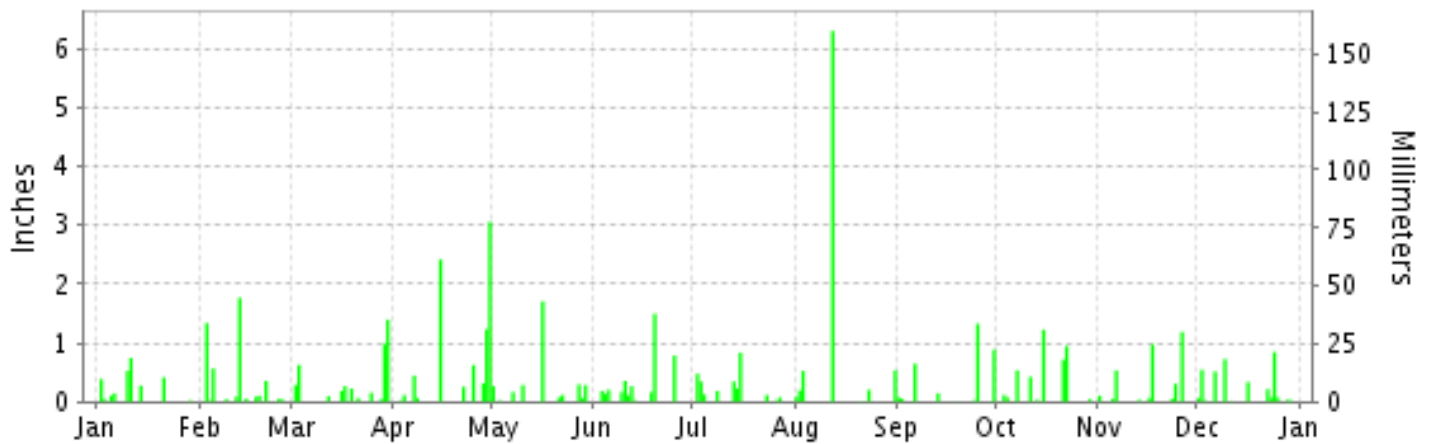
ISSN 0198-2397

BALTIMORE, MARYLAND (KBWI)

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 2014

BALTIMORE (KBWI)

LATITUDE: 39° 9'N LONGITUDE: 76° 40'W ELEVATION (FT): GRND: 156 BARO: 196 TIME ZONE: EASTERN (UTC -5) WBAN: 93721

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.0	41.7	48.8	64.1	75.6	83.0	85.7	82.5	78.3	67.7	52.9	47.4	63.7	
	HIGHEST DAILY MAXIMUM	58	63	69	83	90	96	94	92	93	80	72	69	96	
	DATE OF OCCURRENCE	13	21	22	13	27	18	23	31	06	28	24	01	JUN 18	
	MEAN DAILY MINIMUM	17.8	24.1	28.1	41.9	54.1	63.3	65.5	62.5	59.0	48.7	33.8	32.4	44.3	
	LOWEST DAILY MINIMUM	3	11	4	30	43	50	55	54	44	35	18	20	3	
	DATE OF OCCURRENCE	23+	28	04	17	05+	01	30+	15	23	20	22	31	JAN 23+	
	AVERAGE DRY BULB	27.4	32.9	38.5	53.0	64.9	73.2	75.6	72.5	68.7	58.2	43.4	39.9	54.0	
	MEAN WET BULB	24.5	28.6	33.2	46.2	57.6	66.1	67.8	66.2	62.8	53.1	38.2	36.2	48.4	
	MEAN DEW POINT	15.7	19.9	23.4	37.7	51.3	61.2	63.2	61.8	58.9	48.0	29.7	30.1	41.7	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	1	3	6	1	3	0	0	0	0	14
	MAXIMUM <= 32°	12	6	3	0	0	0	0	0	0	0	0	0	0	21
MINIMUM <= 32°	28	27	20	2	0	0	0	0	0	0	11	15	103		
MINIMUM <= 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	1157	892	813	360	74	2	0	0	37	215	640	769	4959	
	COOLING DEGREE DAYS	0	0	0	7	78	256	335	241	155	12	0	0	1084	
RH	MEAN (PERCENT)	62	62	58	60	65	67	68	71	73	71	61	71	66	
	HOUR 01 LST	67	71	67	71	80	85	84	87	87	84	68	75	77	
	HOUR 07 LST	69	70	62	60	68	69	72	73	77	78	69	76	70	
	HOUR 13 LST	52	51	46	46	49	51	49	52	54	55	46	61	51	
	HOUR 19 LST	62	61	56	60	65	64	67	71	76	71	63	72	66	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	6	0	3	1	1	0	0	1	0	3	1	3	19	
	THUNDERSTORMS	0	0	0	2	3	5	9	3	4	3	0	0	29	
PR	MEAN STATION PRESS. (IN.)	29.88	29.90	29.85	29.86	29.85	29.82	29.82	29.85	29.93	29.78	29.90	29.97	29.87	
	MEAN SEA-LEVEL PRESS. (IN.)	30.06	30.07	30.03	30.03	30.02	29.99	29.98	30.02	30.09	29.95	30.08	30.15	30.04	
WINDS	RESULTANT SPEED (MPH)	3.4	2.7	3.0	0.8	1.2	0.7	1.6	0.5	1.2	1.9	3.8	3.4	1.5	
	RES. DIR. (TENS OF DEGS.)	29	32	32	02	30	19	24	09	04	27	28	31	30	
	MEAN SPEED (MPH)	6.5	6.2	7.7	7.5	6.2	5.2	5.0	4.4	4.7	5.9	6.4	5.9	6.0	
	PREVAIL.DIR.(TENS OF DEGS.)	29	29	31	07	27	15	22	10	02	29	30	29	30	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	35	30	41	36	26	26	43	23	44	24	30	26	44	
	DIR. (TENS OF DEGS.)	29	31	28	27	33	05	28	03	30	29	29	27	30	
	DATE OF OCCURRENCE	06	27	12	26	27	19	08	12	06	26	18	25	SEP 06	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	47	39	53	47	37	35	53	29	58	33	41	38	58	
DIR. (TENS OF DEGS.)	28	31	28	27	26	35	27	02	31	29	28	29	31		
DATE OF OCCURRENCE	06	27	12	26	03	18	08	12	06	18	18	11	SEP 06		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.71	4.58	4.38	8.60	3.35	3.95	2.80	7.90	3.21	4.16	3.36	3.58	52.58	
	GREATEST 24-HOUR (IN.)	0.92	1.82	1.96	3.76	1.71	1.67	0.84	6.31	1.36	1.67	1.19	0.87	6.31	
	DATE OF OCCURRENCE	10-11	12-13	29-30	29-30	16	18-19	15	11-12	24-25	21-22	26	23-24	AUG 11-12	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	9	13	11	10	12	11	10	9	9	9	9	15	127		
PRECIPITATION 0.10	7	5	9	8	7	10	8	5	4	6	5	6	80		
PRECIPITATION 1.00	0	2	1	3	1	1	0	1	1	1	1	0	12		
SNOWFALL	SNOW,ICE PELLETS,HAIL	9.8	14.2	12.1	T	0.0	T	0.0	0.0	T	0.0	0.3	0.2	36.6	
	TOTAL (IN.)	5.1	9.6	4.9	T	0.0	T	0.0	0.0	T	0.0	0.3	0.2	9.6	
	GREATEST 24-HOUR (IN.)	21	13	16	15		19			06		26	11	FEB 13	
	DATE OF OCCURRENCE	4	9	7	0	0	0	0	0	0	0	0	0	9	
	MAXIMUM SNOW DEPTH (IN.)	22+	13	17										FEB 13	
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	2	2	3	0	0	0	0	0	0	0	0	0	7		

NORMALS, MEANS, AND EXTREMES BALTIMORE (KBWI)

LATITUDE: 39° 9'N **LONGITUDE: 76° 40'W** **ELEVATION (FT): GRND: 156 BARO: 196** **TIME ZONE: EASTERN (UTC -5)** **WBAN: 93721**

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	41.4	44.9	53.6	64.6	73.9	83.0	87.2	85.1	77.9	66.8	56.4	45.3	65.0
	MEAN DAILY MAXIMUM	64	41.5	44.7	53.6	65.2	74.5	83.2	87.5	85.5	78.6	67.5	56.3	45.5	65.3
	HIGHEST DAILY MAXIMUM	64	75	79	89	94	98	103	106	105	100	94	83	77	106
	YEAR OF OCCURRENCE		1975	2000	1998	1960	2011	2012	2011	1983	1983	2007	1974	1998	JUL 2011
	MEAN OF EXTREME MAXS.	64	62.8	65.5	76.0	85.5	90.1	95.1	97.2	95.5	91.8	83.3	74.4	65.6	81.9
	NORMAL DAILY MINIMUM	30	24.4	26.6	33.5	42.7	52.0	61.9	66.8	65.2	57.6	45.4	36.5	28.1	45.1
	MEAN DAILY MINIMUM	64	24.7	26.6	33.8	43.2	52.8	61.9	67.1	65.7	58.4	46.3	36.7	28.5	45.5
	LOWEST DAILY MINIMUM	64	-7	-3	4	20	32	40	50	45	35	25	13	0	-7
	YEAR OF OCCURRENCE		1984	1979	2014	1965	1966	1972	2001	1986	1963	1969	1955	1983	JAN 1984
	MEAN OF EXTREME MINS.	64	7.4	11.1	19.0	29.1	38.4	49.2	56.3	54.1	43.3	31.8	22.0	13.3	31.3
	NORMAL DRY BULB	30	32.9	35.8	43.6	53.7	62.9	72.4	77.0	75.1	67.8	56.1	46.5	36.7	55.0
	MEAN DRY BULB	64	33.1	35.6	43.7	54.2	63.6	72.7	77.3	75.6	68.6	56.9	46.5	37.1	55.4
	MEAN WET BULB	31	27.9	29.6	36.0	45.4	55.7	64.4	68.4	67.3	61.2	50.5	40.3	32.2	48.2
	MEAN DEW POINT	31	25.2	26.5	32.9	42.5	53.5	62.7	67.0	66.0	59.6	48.6	37.9	29.2	46.0
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	1.2	5.2	9.7	6.5	1.7	0.1	0.0	0.0	24.6
	MAXIMUM <= 32	30	6.0	2.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	12.4
MINIMUM <= 32	30	24.5	21.1	14.2	2.8	0.0	0.0	0.0	0.0	0.0	1.3	10.3	22.0	96.2	
MINIMUM <= 0	30	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	
H/C	NORMAL HEATING DEG. DAYS	30	995	819	666	354	134	15	0	1	52	294	557	877	4764
	NORMAL COOLING DEG. DAYS	30	0	0	1	13	70	238	372	316	135	18	1	0	1164
RH	NORMAL (PERCENT)	30	66	63	61	61	67	69	70	72	73	72	68	67	67
	HOURLY 01 LST	30	70	68	67	69	78	82	82	85	84	82	75	72	76
	HOURLY 07 LST	30	73	72	72	72	77	79	80	84	86	85	79	75	78
	HOURLY 13 LST	30	57	53	50	49	53	54	54	56	56	55	55	57	54
	HOURLY 19 LST	30	64	59	55	54	61	63	64	68	70	71	66	65	63
S	PERCENT POSSIBLE SUNSHINE	40	51	55	56	56	56	62	64	62	60	58	51	49	57
W/O	MEAN NO. DAYS WITH: HEAVY FOG (VISIBY <= 1/4 MI)	51	2.6	2.4	2.1	1.3	1.2	0.7	0.4	0.8	0.9	2.2	2.1	2.8	19.5
	THUNDERSTORMS	64	0.3	0.3	1.0	2.4	4.0	5.6	6.1	4.9	2.1	0.9	0.4	0.1	28.1
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	46	5.1	5.0	5.0	5.0	5.0	4.6	4.4	4.4	4.2	4.1	4.8	5.0	4.7
	MIDNIGHT-MIDNIGHT (OKTAS)	32	4.9	4.7	4.8	4.6	4.7	4.4	4.3	4.2	4.2	3.9	4.5	4.8	4.5
	MEAN NO. DAYS WITH: CLEAR	46	8.0	7.7	7.9	7.7	7.7	8.4	8.9	9.2	10.3	11.6	8.1	8.1	103.6
	PARTLY CLOUDY	46	7.5	6.8	8.7	9.0	10.3	11.4	11.5	10.5	8.3	7.9	8.0	6.9	106.8
	CLOUDY	46	15.5	13.8	14.4	13.4	13.0	10.2	9.9	10.6	10.7	10.9	13.2	15.3	150.9
PR	MEAN STATION PRESSURE (IN)	31	29.91	29.90	29.87	29.81	29.82	29.80	29.82	29.82	29.90	29.90	29.93	29.90	29.87
	MEAN SEA-LEVEL PRES. (IN)	31	30.09	30.07	30.05	29.98	29.99	29.96	29.98	30.01	30.06	30.07	30.11	30.11	30.04
WINDS	MEAN SPEED (MPH)	31	8.0	8.4	8.9	8.5	7.4	6.8	6.4	6.0	6.3	6.5	7.2	7.5	7.3
	PREVAIL. DIR. (TENS OF DEGS)	18	30	30	30	29	29	27	26	28	29	28	29	29	30
	MAXIMUM 2-MINUTE: SPEED (MPH)	18	40	45	41	43	39	47	52	39	44	40	45	45	52
	DIR. (TENS OF DEGS)		30	28	28	28	29	28	20	32	30	29	28	27	20
	YEAR OF OCCURRENCE		2000	2011	2014	2009	1997	2012	2010	2003	2014	2012	2003	2004	JUL 2010
	MAXIMUM 3-SECOND SPEED (MPH)	18	53	60	53	58	52	66	72	53	58	60	59	61	72
	DIR. (TENS OF DEGS)		28	27	28	28	28	29	20	27	31	29	27	29	20
	YEAR OF OCCURRENCE		1999	2011	2014	2009	2010	2012	2010	1997	2014	2012	2003	2007	JUL 2010
PRECIPITATION	NORMAL (IN)	30	3.05	2.90	3.90	3.19	3.99	3.46	4.07	3.29	4.03	3.33	3.30	3.37	41.88
	MAXIMUM MONTHLY (IN)	64	7.84	7.16	8.64	8.60	8.71	9.95	8.77	18.35	13.32	9.23	7.68	8.06	18.35
	YEAR OF OCCURRENCE		1979	1979	1994	2014	1989	1972	2005	1955	2011	2005	1952	2009	AUG 1955
	MINIMUM MONTHLY (IN)	64	0.29	0.26	0.18	0.39	0.37	0.15	0.30	0.77	0.21	T	0.31	0.20	0.15
	YEAR OF OCCURRENCE		1955	2009	2006	1985	1986	1954	1955	1951	1967	1963	1981	1955	JUN 1954
	MAXIMUM IN 24 HOURS (IN)	64	3.11	3.26	3.18	3.76	3.65	5.23	5.86	8.35	6.04	5.98	3.43	3.39	8.35
	YEAR OF OCCURRENCE		1976	1983	1958	2014	2008	1972	1952	1955	1985	2005	1952	1977	AUG 1955
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.2	8.9	10.4	10.8	11.4	10.6	10.0	8.6	8.5	8.2	8.7	9.9	116.2
	PRECIPITATION >= 1.00	30	0.7	0.6	1.0	0.6	1.0	1.0	1.0	0.7	1.0	0.9	0.8	0.9	10.3
SNOWFALL	NORMAL (IN)	30	6.8	8.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.0	20.1
	MAXIMUM MONTHLY (IN)	64	32.6	50.0	21.6	0.7	T	T	T	T	T	0.3	8.4	20.4	50.0
	YEAR OF OCCURRENCE		1996	2010	1960	1985	1963	2014	1992	2011	2014	1979	1967	1966	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	64	16.8	22.8	13.0	0.7	T	T	T	T	T	0.3	8.4	17.0	22.8
	YEAR OF OCCURRENCE		1996	1983	1962	1985	1963	2014	1992	2011	2014	1979	1967	2009	FEB 1983
	MAXIMUM SNOW DEPTH (IN)	63	30	34	9	0	0	0	0	0	0	0	6	18	34
	YEAR OF OCCURRENCE		1957	2010	1942								1987	2009	FEB 2010
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	1.7	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.9	4.7

PRECIPITATION (inches) 2014 BALTIMORE (KBWI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	2.03	3.03	2.37	0.39	6.01	2.44	2.53	3.72	6.22	2.48	4.71	0.84	36.77
1986	2.16	3.78	0.96	2.64	0.37	1.46	4.12	4.26	0.58	1.86	5.96	5.52	33.67
1987	5.85	2.22	0.99	1.86	4.16	2.63	5.05	1.61	7.34	2.25	5.05	2.07	41.08
1988	3.24	3.25	2.35	2.44	4.37	0.84	3.78	2.64	2.05	1.59	4.78	0.97	32.30
1989	3.07	3.36	4.24	3.16	8.71	5.98	7.35	3.38	3.64	4.90	1.97	2.12	51.88
1990	3.71	1.48	2.54	4.23	4.92	2.55	5.68	6.17	1.07	2.57	2.10	4.86	41.88
1991	3.54	0.73	5.65	1.68	1.16	1.08	1.76	2.54	3.05	3.20	1.69	4.08	30.16
1992	1.27	2.49	4.58	1.76	2.92	1.89	5.07	2.19	5.96	2.73	3.44	4.63	38.93
1993	2.73	2.84	8.12	3.68	3.66	2.56	1.71	2.55	4.09	3.02	3.09	4.45	42.50
1994	4.59	4.07	8.64	2.53	3.02	2.84	4.54	3.44	3.93	1.82	1.95	1.95	43.32
1995	2.87	1.88	2.12	1.92	3.40	1.80	3.65	2.98	3.29	6.24	4.12	2.66	36.93
1996	6.80	2.36	3.57	3.76	5.68	4.08	7.38	4.17	5.65	4.32	3.77	6.77	58.31
1997	2.83	2.23	5.67	2.40	3.03	3.74	1.49	4.21	1.47	3.43	5.79	2.05	38.34
1998	5.65	6.40	5.56	3.02	3.46	3.22	1.42	0.91	1.27	1.06	1.13	1.27	34.37
1999	4.70	2.65	3.46	2.27	1.73	2.04	2.06	6.14	11.50	2.48	1.95	2.96	43.94
2000	3.64	2.01	4.35	5.06	2.82	5.54	5.64	3.18	5.55	0.08	1.73	2.31	41.91
2001	2.68	2.35	4.76	1.32	5.34	3.58	3.85	5.74	1.43	0.78	1.01	1.73	34.57
2002	2.19	0.36	3.75	4.08	2.99	2.39	2.26	3.66	3.17	6.01	3.78	4.96	39.60
2003	2.59	6.70	4.17	2.40	6.81	6.96	5.56	4.61	7.47	5.82	4.86	4.71	62.66
2004	1.26	2.40	2.73	5.33	5.05	4.17	8.69	2.71	3.94	1.44	5.02	2.93	45.67
2005	3.75	1.66	5.13	3.81	2.64	3.74	8.77	3.71	0.67	9.23	2.12	3.90	49.13
2006	3.48	2.64	0.18	3.27	1.60	7.32	1.86	1.45	7.56	5.75	6.25	1.88	43.24
2007	2.48	2.04	4.17	5.00	0.94	2.20	3.31	3.08	0.35	5.85	1.52	4.03	34.97
2008	1.47	3.80	2.37	4.62	7.77	3.70	5.47	1.48	7.22	1.27	2.61	3.19	44.97
2009	2.73	0.26	2.07	5.80	8.42	5.52	3.29	4.76	3.48	6.24	4.94	8.06	55.57
2010	2.24	4.15	5.53	2.20	3.49	1.55	4.36	4.74	8.26	2.95	2.04	1.96	43.47
2011	2.66	2.69	4.99	3.52	2.42	3.51	2.77	10.38	13.32	3.31	2.45	4.50	56.52
2012	2.54	2.42	1.76	1.99	1.99	2.68	3.27	5.82	2.21	8.92	0.71	3.11	37.42
2013	3.64	1.95	2.64	2.20	3.43	7.81	2.77	1.13	1.65	7.62	2.82	5.27	42.93
2014	2.71	4.58	4.38	8.60	3.35	3.95	2.80	7.90	3.21	4.16	3.36	3.58	52.58
POR= 64 YRS	3.02	2.94	3.79	3.32	3.66	3.66	3.90	4.08	3.86	3.38	3.13	3.43	42.17

WBAN : 93721

AVERAGE TEMPERATURE (°F) 2014 BALTIMORE (KBWI)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1985	29.3	38.7	46.0	57.9	65.1	70.4	76.4	74.5	69.4	58.8	52.4	33.8	56.1
1986	33.2	32.9	45.0	53.5	66.7	74.4	79.4	73.1	68.9	58.9	44.8	38.2	55.8
1987	32.5	34.3	46.2	53.1	65.0	74.5	80.0	76.1	69.3	51.5	47.8	39.8	55.8
1988	28.7	35.9	45.1	52.0	64.0	73.0	80.3	78.5	66.8	51.3	48.1	36.3	55.0
1989	37.9	36.5	43.8	52.5	62.0	73.9	76.0	74.4	69.0	58.3	44.8	25.4	54.5
1990	42.0	42.3	47.6	54.8	62.3	73.3	78.4	74.6	67.3	60.7	49.6	42.2	57.9
1991	35.5	40.7	46.7	55.9	70.6	74.6	79.5	77.8	69.0	57.8	45.8	38.7	57.7
1992	34.6	37.1	41.3	52.0	60.8	70.1	77.4	72.3	67.7	54.3	47.2	38.9	54.5
1993	37.9	31.4	39.4	52.5	65.0	72.2	80.2	76.7	68.8	55.5	46.5	36.2	55.2
1994	27.1	34.0	43.0	59.6	60.6	77.2	80.1	74.1	68.1	56.8	51.9	42.6	56.3
1995	39.0	33.2	47.8	55.2	64.5	74.5	81.5	80.1	70.4	61.1	42.6	33.9	57.0
1996	31.7	35.7	39.9	54.0	60.6	73.3	74.3	73.2	67.8	55.6	40.2	39.6	53.8
1997	32.8	41.0	45.5	51.6	59.5	70.1	77.3	74.0	67.3	56.5	43.7	38.4	54.8
1998	40.9	41.7	45.9	55.2	66.5	71.7	76.6	75.7	71.8	56.3	46.1	41.1	57.5
1999	35.1	37.6	41.8	53.2	64.2	71.5	80.0	75.7	68.2	53.9	49.9	39.1	55.9
2000	32.5	38.1	48.5	52.9	64.7	72.8	72.7	73.4	65.3	57.1	44.2	30.0	54.4
2001	33.1	38.5	41.8	55.4	63.4	74.1	72.8	77.0	65.2	56.0	50.7	42.1	55.8
2002	39.1	39.3	45.0	56.7	62.2	73.8	78.6	78.4	69.5	56.0	44.4	34.3	56.4
2003	28.3	30.2	43.9	52.7	59.3	69.8	75.6	76.3	68.0	55.1	50.6	36.4	53.9
2004	27.8	34.8	45.6	54.7	69.8	70.9	76.2	74.2	69.4	55.4	48.5	37.5	55.4
2005	34.1	36.7	40.6	55.2	59.2	73.6	78.0	77.6	72.0	57.8	48.1	34.0	55.6
2006	41.6	36.1	45.6	57.5	63.4	73.1	79.9	78.4	65.5	55.2	49.6	42.4	57.4
2007	38.7	29.1	45.2	51.5	65.5	73.8	76.9	77.5	70.6	63.4	46.2	37.8	56.4
2008	35.4	37.1	45.0	55.8	60.5	75.3	77.5	73.6	69.4	55.6	45.4	38.5	55.8
2009	29.3	37.5	43.1	54.9	63.7	71.4	74.7	76.6	66.7	55.3	49.7	34.8	54.8
2010	32.7	30.9	48.5	57.2	67.4	78.9	81.5	77.4	71.0	57.7	47.2	32.4	56.9
2011	30.3	38.5	44.4	57.7	67.2	75.7	81.7	75.9	69.3	56.7	50.6	42.3	57.5
2012	38.3	41.6	53.7	55.3	69.0	73.6	81.5	77.3	69.5	58.3	42.9	42.7	58.6
2013	36.9	35.0	40.6	55.3	63.7	73.9	79.0	74.2	67.7	58.8	43.6	39.6	55.7
2014	27.4	32.9	38.5	53.0	64.9	73.2	75.6	72.5	68.7	58.2	43.4	39.9	54.0
POR= 64 YRS	33.1	35.6	43.7	54.2	63.6	72.7	77.3	75.6	68.6	56.9	46.5	37.1	55.4

HEATING DEGREE DAYS (base 65°F) 2014 BALTIMORE (KBWD)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0	0	41	201	378	962	980	892	613	342	86	6	4501
1986-87	0	23	34	236	598	822	1002	853	576	357	106	1	4608
1987-88	0	1	15	412	511	774	1120	838	613	389	96	27	4796
1988-89	2	0	39	424	504	882	834	792	663	374	145	0	4659
1989-90	0	0	51	229	600	1221	707	631	552	341	102	5	4439
1990-91	1	0	63	195	454	701	907	674	562	289	55	4	3905
1991-92	0	0	49	246	570	809	936	802	730	387	161	8	4698
1992-93	0	1	51	328	529	801	834	934	787	369	61	11	4706
1993-94	0	0	52	292	553	886	1169	861	677	190	180	1	4861
1994-95	0	0	13	256	391	684	798	885	525	307	77	0	3936
1995-96	0	0	30	176	669	958	1024	840	772	345	199	12	5025
1996-97	0	0	42	283	736	778	994	667	597	394	182	53	4726
1997-98	0	0	49	307	633	815	737	647	625	295	59	22	4189
1998-99	0	1	25	263	560	734	919	762	714	349	71	9	4407
1999-00	0	0	37	336	445	794	999	774	508	362	102	8	4365
2000-01	0	1	97	254	616	1079	984	736	715	309	99	12	4902
2001-02	2	0	76	289	424	706	795	715	612	302	154	3	4078
2002-03	0	1	10	316	611	945	1131	967	649	370	191	31	5222
2003-04	0	0	24	303	434	881	1148	866	593	323	49	13	4634
2004-05	0	2	14	291	487	845	952	786	750	298	183	9	4617
2005-06	0	0	12	239	502	955	720	802	598	228	117	4	4177
2006-07	0	0	53	314	456	693	805	1000	608	406	92	1	4428
2007-08	0	0	26	143	559	835	909	799	614	274	165	0	4324
2008-09	0	0	18	304	584	814	1103	768	673	339	106	13	4722
2009-10	0	0	38	299	451	929	993	947	505	262	79	0	4503
2010-11	0	0	10	243	526	1003	1069	735	636	255	64	0	4541
2011-12	0	0	27	261	426	698	822	670	350	305	27	6	3592
2012-13	0	0	28	228	657	684	862	833	749	309	136	0	4486
2013-14	0	0	52	237	636	783	1157	892	813	360	74	2	5006
2014-	0	0	37	215	640	769							

WBAN : 93721

COOLING DEGREE DAYS (base 65°F) 2014 BALTIMORE (KBWD)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1985	0	2	7	43	89	179	363	298	178	17	5	0	1181
1986	0	0	0	1	143	295	452	281	158	54	0	0	1384
1987	0	0	0	7	115	292	473	352	152	0	0	0	1391
1988	0	0	2	4	71	274	485	427	100	8	0	0	1371
1989	0	0	14	5	58	276	351	298	178	25	1	0	1206
1990	0	0	19	38	26	261	422	303	137	68	0	0	1274
1991	0	0	2	24	233	303	462	402	177	29	2	0	1634
1992	0	0	0	6	39	168	392	232	139	4	0	0	980
1993	0	0	0	0	70	235	476	371	175	3	5	0	1335
1994	0	0	0	38	49	374	476	292	112	6	3	0	1350
1995	0	0	0	20	72	289	520	475	199	60	3	0	1638
1996	0	0	0	19	70	265	295	259	135	1	0	0	1044
1997	0	0	0	0	20	211	385	287	124	51	0	0	1078
1998	0	0	39	9	115	228	367	341	235	0	0	0	1334
1999	0	0	0	0	54	210	471	340	138	0	0	0	1213
2000	0	0	3	6	102	248	245	269	115	17	0	0	1005
2001	0	0	0	27	54	290	249	381	90	12	2	0	1105
2002	0	0	0	59	75	275	430	425	154	43	0	0	1461
2003	0	0	0	6	21	181	336	358	120	2	8	0	1032
2004	0	0	0	23	203	197	355	295	152	2	0	0	1227
2005	0	0	0	13	10	273	408	399	227	20	0	0	1350
2006	0	0	3	9	74	252	468	422	72	15	0	0	1315
2007	0	0	2	9	114	268	376	394	203	99	0	0	1465
2008	0	0	0	6	33	317	395	274	158	19	0	0	1202
2009	0	0	0	39	72	213	306	368	95	7	0	0	1100
2010	0	0	0	33	160	421	520	393	196	19	0	0	1742
2011	0	0	0	44	141	328	526	346	164	9	0	0	1558
2012	0	0	10	22	160	271	517	391	170	28	0	0	1569
2013	0	0	0	26	105	277	445	292	143	51	0	2	1341
2014	0	0	0	7	78	256	335	241	155	12	0	0	1084

SNOWFALL (inches) 2014 BALTIMORE (KBWI)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1985-86	0.0	0.0	0.0	0.0	0.0	0.7	1.9	13.0	T	T	0.0	0.0	15.6
1986-87	0.0	0.0	0.0	0.0	0.0	T	25.1	10.1	T	T	0.0	0.0	35.2
1987-88	0.0	0.0	0.0	0.0	6.0	0.5	13.7	0.2	T	T	0.0	0.0	20.4
1988-89	0.0	0.0	0.0	0.0	0.0	0.9	6.0	1.1	0.3	0.0	0.0	0.0	8.3
1989-90	0.0	0.0	0.0	0.0	3.8	10.2	0.5	T	2.7	0.1	0.0	0.0	17.3
1990-91	0.0	0.0	0.0	0.0	0.0	4.8	4.2	0.1	0.3	0.0	0.0	0.0	9.4
1991-92	T	0.0	0.0	0.0	T	T	2.2	1.9	T	T	0.0	0.0	4.1
1992-93	T	0.0	0.0	0.0	T	1.5	1.4	8.8	12.7	T	0.0	0.0	24.4
1993-94	0.0	0.0	0.0	0.0	T	2.9	4.9	5.3	4.2	T	0.0	0.0	17.3
1994-95	0.0	0.0	0.0	0.0	0.2	0.0	0.3	7.5	0.2	0.0	0.0	0.0	8.2
1995-96	0.0	0.0	0.0	0.0	1.0	2.3	32.6	19.0	7.6				
1996-97			0.0		.3	0.2	5.0	7.1	2.7	T	T	0.0	
1997-98	0.0	0.0	0.0	0.0	0.0	0.4	0.7	T	2.1	0.0	T	0.0	3.2
1998-99	0.0	0.0	0.0	0.0	0.0	3.0	4.0	0.6	7.6	0.0	0.0	0.0	15.2
1999-00	0.0	0.0	0.0	0.0	0.0	0.2	23.1	2.6	0.0	0.2	0.0	0.0	26.1
2000-01	0.0	0.0	0.0	0.0	T	1.3	3.7	3.7	T	T	0.0	0.0	8.7
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	2.3	T	T	T	0.0	T	2.3
2002-03	0.0	0.0	0.0	0.0	0.0	9.7	5.3	40.5	2.6	T	0.0	0.0	58.1
2003-04	0.0	0.0	0.0	T	0.0	9.6	8.4	0.1	0.2	0.0	0.0	0.0	18.3
2004-05	0.0	0.0	0.0	0.0	0.0	T	7.6	10.0	0.4	0.0	0.0	0.0	18.0
2005-06	0.0	0.0	0.0	0.0	0.5	6.0	T	13.1	T	T	0.0	0.0	19.6
2006-07	0.0	0.0	0.0	0.0	0.0	T	0.9	8.5	1.4	0.2	0.0	0.0	11.0
2007-08	0.0	0.0	0.0	0.0	T	4.8	2.4	1.3	0.0	0.0	0.0	0.0	8.5
2008-09	0.0	0.0	0.0	0.0	T	0.6	2.1	0.6	5.8	T	0.0	0.0	9.1
2009-10	0.0	0.0	0.0	0.0	0.0	20.1	6.9	50.0	T	0.0	0.0	0.0	77.0
2010-11	0.0	0.0	0.0	0.0	0.0	1.2	10.7	2.5	T	0.0	0.0	0.0	14.4
2011-12	0.0	T	T	T	0.0	T	1.3	0.5	T	0.0	0.0	0.0	1.8
2012-13	0.0	0.0	0.0	0.0	T	1.4	2.9	0.5	3.2	T	0.0	0.0	8.0
2013-14	0.0	0.0	0.0	0.0	T	2.9	9.8	14.2	12.1	T	0.0	T	39.0
2014-	0.0	0.0	T	0.0	0.3	0.2							
POR= 64 YRS	T	T	T	T	0.7	3.3	6.0	7.3	3.3	T	T	T	20.6

WBAN : 93721

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. 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 CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS.</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</p>	<p>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 STATION HISTORY INFORMATION GO TO "Historical Observing Metadata Repository", URL IS: http://www.ncdc.noaa.gov/homr/ 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 "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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2014

BALTIMORE

MARYLAND (KBWI)

Baltimore-Washington International Airport lies in a region about midway between the rigorous climates of the North and the mild climates of the South, and adjacent to the modifying influences of the Chesapeake Bay and Atlantic Ocean to the east and the Appalachian Mountains to the west. Since this region is near the average path of the low pressure systems which move across the country, changes in wind direction are frequent and contribute to the changeable character of the weather. The net effect of the mountains to the west and the bay and ocean to the east is to produce a more equable climate compared with other continental locations farther inland at the same latitude.

Rainfall distribution throughout the year is rather uniform, however, the greatest intensities are confined to the summer and early fall months, the season for hurricanes and severe thunderstorms. Moisture deficiencies for crops occur occasionally during the growing season, but severe droughts are rare. Rainfall during the growing season occurs principally in the form of thunderstorms, and rainfall totals during these months vary appreciably.

The average date for the last occurrence in spring of temperatures as low as 32 degrees is mid-April. The average date for the first occurrence in fall of temperatures as low as 32 degrees is late October. The freeze-free period is approximately 194 days.

In summer, the area is under the influence of the large semi-permanent high pressure system commonly known as the Bermuda High and centered over the Atlantic Ocean near 30 degrees N Latitude. This pressure system brings warm humid air to the area. The proximity of large water areas and the inflow of southerly winds contribute to high relative humidities during much of the year.

January is the coldest month, and July, the warmest. Snowfall occurs on about eleven days per year on the average, however, an average of only about six days annually produces snowfalls of 1 inch or greater. Snow is frequently mixed with rain and sleet, and snow seldom remains on the ground more than a few days.

Glaze or freezing rain which is hazardous to highway traffic occurs on an average of two to three times per year, generally in January or February. Some years pass without the occurrence of freezing rain, while in others it occurs on as many as eight to ten days. Sleet is observed on about five days annually with the greatest frequency of occurrence in January.

The annual prevailing wind direction is from the west. Winter and spring months have the highest average wind speed. Destructive velocities are rare and occur mostly during summer thunderstorms. Only rarely have hurricanes in the vicinity caused widespread damage, then primarily through flooding.

Station History

BALTIMORE, MD

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
BALTIMORE WSO AP	1950-06-01	1950-07-23	39° 10'	-76° 40'	148		AIRWAYS, COOP
BALTIMORE WASHINGTON INTL AP	1981-12-31	1996-04-01	39° 10'	-76° 40'	148		COOP
BALTIMORE WASHINGTON INTL AP	2008-02-21	Present	39° 9'	-76° 40'	156		ASOS, COOP
BALTIMORE FRIENDSHIP INTL AP	1969-01-01	1973-12-01	39° 10'	-76° 40'	148		COOP, WXSVC
BALTIMORE FRIENDSHIP INTL AP	1950-07-23	1969-01-01	39° 10'	-76° 40'	148		AIRWAYS, COOP
BALTIMORE WASHINGTON INTL AP	1996-04-01	2008-02-21	39° 10'	-76° 40'	156	.9 MI SW	ASOS, COOP
BALTIMORE WASHINGTON INTL AP	1973-12-01	1981-12-31	39° 10'	-76° 40'	148		COOP, WXSVC

Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1996-04-01	2006-09-20	DAILY	2400	PCPNX		
TEMP	1996-04-01	2006-09-20	DAILY	2400	ATEMP		
TEMP	2006-09-20	2008-02-21	DAILY	2400	ATEMP		
TEMP	1950-06-01	1957-01-01	DAILY	2400	UNKN		
TEMP	1957-01-01	1975-01-01	DAILY	2400	UNKN		
PRECIP	1975-01-28	1987-03-11	DAILY	2400	SRG		ROOF
PRECIP	1987-03-11	1991-01-01	HOURLY	2400	UNIV	RCRD	
PRECIP	2006-09-20	2008-02-21	HOURLY	2400	AHTB	RCRD;HTD	
PRECIP	1957-01-01	1975-01-01	DAILY	2400	UNKN		
PRECIP	1975-01-01	1975-01-28	HOURLY	2400	UNKN		
PRECIP	1991-01-01	1995-03-31	HOURLY	2400	UNIV	RCRD	ROOF
PRECIP	2008-02-21	Present	DAILY	2400	PCPNX		
TEMP	1991-01-01	1995-03-31	DAILY	2400	MXMN		
TEMP	1995-03-31	1996-04-01	DAILY	2400	MXMN		
WIND	2006-09-20	2008-02-21	HOURLY	2400	UNKN		
PRECIP	1975-01-01	1975-01-28	HOURLY	2400	UNIV		
TEMP	1975-01-28	1987-03-11	DAILY	2400	MXMN		
PRECIP	1991-01-01	1995-03-31	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1996-04-01	2006-09-20	HOURLY	2400	AHTB	RCRD;HTD	
TEMP	2008-02-21	Present	DAILY	2400	ATEMP		
WIND	2008-02-21	Present	HOURLY	2400	ANEMSONIC		
PRECIP	1975-01-28	1987-03-11	HOURLY	2400	UNIV	RCRD	
PRECIP	1995-03-31	1996-04-01	DAILY	2400	UNIV	RCRD	
WIND	1996-04-01	2006-09-20	HOURLY	2400	UNKN		
PRECIP	2006-09-20	2008-02-21	DAILY	2400	PCPNX		
PRECIP	2008-02-21	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1950-06-01	1957-01-01	DAILY	2400	UNKN		
PRECIP	1957-01-01	1975-01-01	HOURLY	2400	UNKN		
TEMP	1975-01-01	1975-01-28	DAILY	2400	UNKN		
PRECIP	1975-01-01	1975-01-28	DAILY	2400	SRG		
TEMP	1987-03-11	1991-01-01	DAILY	2400	MXMN		
PRECIP	1987-03-11	1991-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-03-31	1996-04-01	HOURLY	2400	UNIV	RCRD	

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

Other Station Information can be found at:

ASOS Implementation by NWS: <http://www.nws.noaa.gov/ops2/Surface/asos2implementation.htm>

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

INQUIRES/COMMENTS CALL: (828) 271-4800, option 2

Fax Number : (828) 271-4876

TDD : (828) 271-4010

Email : ncdc.orders@noaa.gov

NOAA/National Climatic Data Center

Attn: User Engagement & Services Branch

151 Patton Avenue

Asheville, NC 28801-5001

Visit our Web Site for other weather data: www.ncdc.noaa.gov