

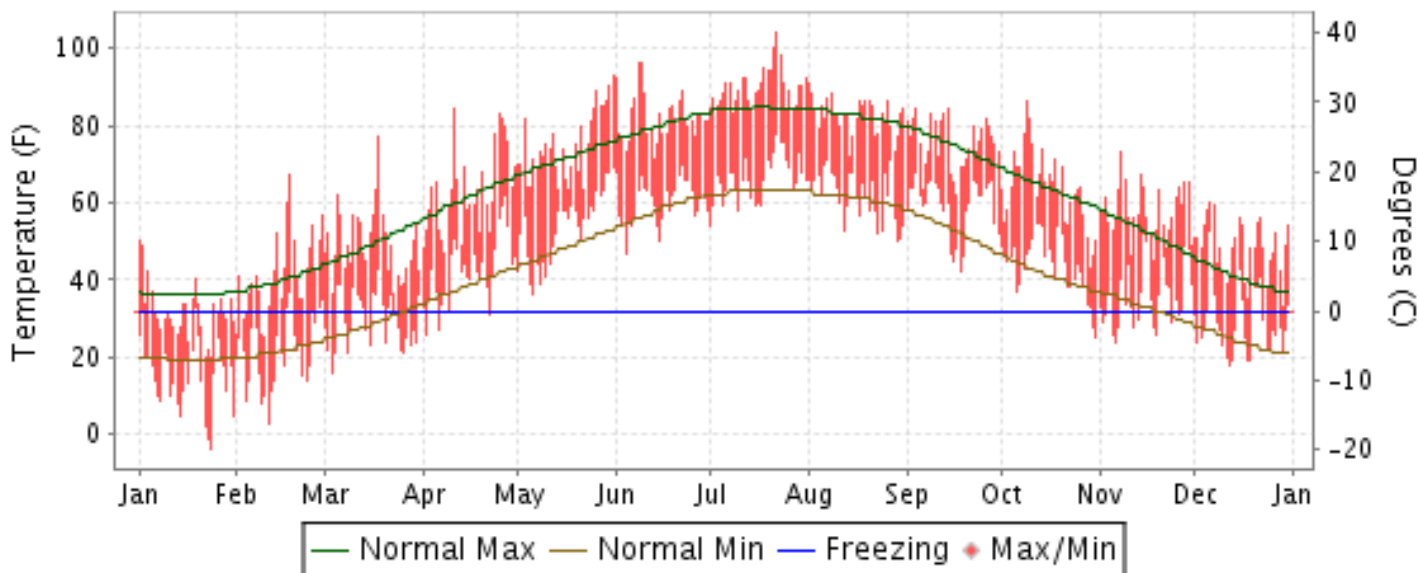


# 2011 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

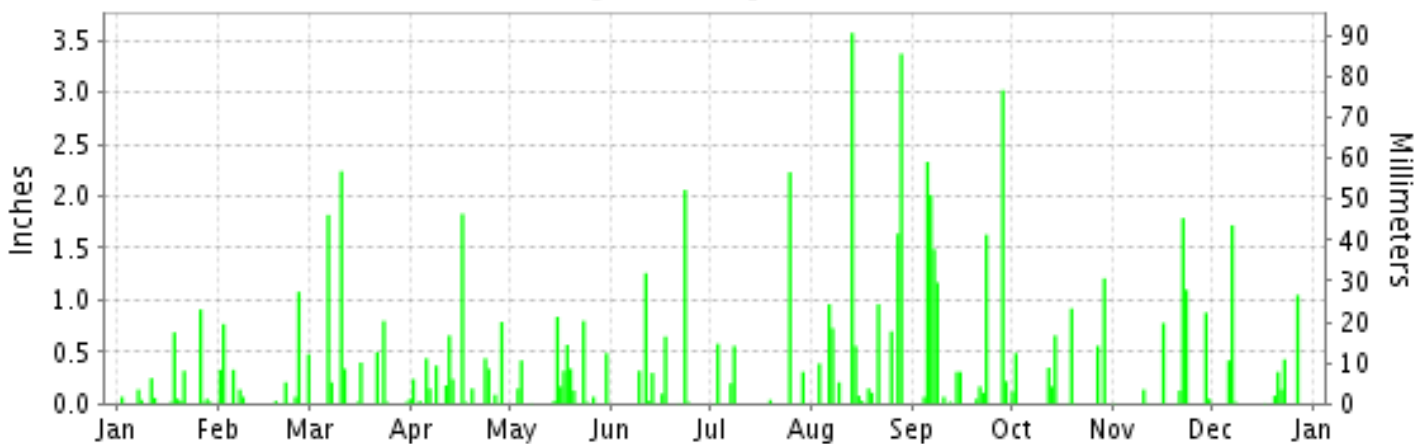
ISSN 0198-4454

## ALLENTOWN, PENNSYLVANIA (KABE)

### Daily Max/Min Temperature



### Daily Precipitation



### Daily Station Pressure



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CLIMATIC DATA CENTER  
ASHEVILLE, NORTH CAROLINA

*Thomas R. Karl*  
DIRECTOR  
NATIONAL CLIMATIC DATA CENTER

# METEOROLOGICAL DATA FOR 2011

## ALLENTOWN (KABE)

LATITUDE: 40° 39'N      LONGITUDE: -75° 26'W      ELEVATION (FT): GRND: 390 BARO: 378      TIME ZONE: EASTERN (UTC -5)      WBAN: 14737

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	31.9	41.3	49.5	63.0	74.8	82.1	89.7	82.5	75.4	63.8	57.7	48.1	63.3	
	HIGHEST DAILY MAXIMUM	50	67	77	84	93	96	104	91	84	86	73	60	104	
	DATE OF OCCURRENCE	01	18	18	11	31	09+	22	01	14+	09	08	06	JUL 22	
	MEAN DAILY MINIMUM	15.2	21.1	29.5	42.3	53.5	60.1	66.2	61.9	59.2	43.8	35.5	28.6	43.1	
	LOWEST DAILY MINIMUM	-4	3	16	26	36	47	54	50	42	25	24	18	-4	
	DATE OF OCCURRENCE	24	11	03	02	06	04	01	29	18	31	06	12	JAN 24	
	AVERAGE DRY BULB	23.6	31.2	39.5	52.7	64.2	71.1	78.0	72.2	67.3	53.8	46.6	38.4	53.2	
	MEAN WET BULB	22.6		34.6	47.9	58.5	64.3	69.5	66.5	63.8	49.3	42.7	35.4		
	MEAN DEW POINT	15.8		25.5	42.2	53.9	59.6	64.6	63.0	61.4	44.4	37.9	29.9		
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	2	3	15	1	0	0	0	0	0	21
	MAXIMUM <= 32°	18	5	0	0	0	0	0	0	0	0	0	0	0	23
MINIMUM <= 32°	30	24	18	4	0	0	0	0	0	0	2	12	23	113	
MINIMUM <= 0°	2	0	0	0	0	0	0	0	0	0	0	0	0	2	
H/C	HEATING DEGREE DAYS	1277	940	785	380	110	5	0	1	50	344	542	818	5252	
	COOLING DEGREE DAYS	0	0	0	20	92	197	410	229	125	2	0	0	1075	
RH	MEAN (PERCENT)	68	63	61	69	72	69	66	75	82	73	73	72	70	
	HOUR 01 LST	75	69	70	78	86	84	84	90	92	84	83	80	81	
	HOUR 07 LST	77	73	68	74	76	72	69	80	88	82	84	80	77	
	HOUR 13 LST	57	55	47	60	56	52	46	57	69	57	55	56	56	
	HOUR 19 LST	64	58	58	68	68	65	62	74	83	74	73	72	68	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	0	0	2	2	4	1	3	4	6	1	1	2	26	
	THUNDERSTORMS	0	0	1	0	0	1	2	1	2	1	0	0	8	
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.)	29.55	29.59	29.70	29.51	29.54	29.50	29.51	29.47	29.61	29.57	29.68	29.74	29.58	
	MEAN SEA-LEVEL PRESS. (IN.)	29.99	29.99	30.13	29.93	29.95	29.91	29.90	29.86	30.02	30.00	30.00	30.17	29.99	
WINDS	RESULTANT SPEED (MPH)	3.5	4.4	2.1	1.1	0.9	2.1	1.9	1.3	1.0	1.5	1.6	2.8	1.6	
	RES. DIR. (TENS OF DEGS.)	30	29	32	24	15	28	27	26	11	27	26	28	29	
	MEAN SPEED (MPH)	5.9	7.9	8.1	8.1	5.9	5.3	4.6	5.1	4.7	6.2	5.1	5.3	6.0	
	PREVAIL.DIR.(TENS OF DEGS.)	29	28	33	08	09	25	24	23	06	23	23	32	29	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	24	35	28	36	33	37	28	38	30	29	23	30	38	
	DIR. (TENS OF DEGS.)	27	30	32	22	27	34	06	31	22	25	34	29	31	
	DATE OF OCCURRENCE	21	19	07	26	26	09	03	28	04	15	23	28	AUG 28	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	32	54	39	49	49	52	36	53	48	40	32	51	54	
DIR. (TENS OF DEGS.)	27	35	33	21	27	35	05	31	21	24	12	28	35		
DATE OF OCCURRENCE	21	25	07	26	26	09	03	28	04	15	29	16	FEB 25		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	2.67	3.53	6.43	5.98	4.37	4.76	3.94	13.47	12.99	4.50	4.90	4.18	71.72	
	GREATEST 24-HOUR (IN.)	0.93	1.15	2.41	1.85	0.84	2.08	2.23	5.00	3.07	1.21	2.82	1.73	5.00	
	DATE OF OCCURRENCE	26-27	24-25	10-11	16-17	15	23-24	25	27-28	28-29	29	22-23	07-08	AUG 27-28	
	NUMBER OF DAYS WITH:														
	PRECIPITATION 0.01	14	12	12	16	15	10	8	15	16	10	10	9	147	
PRECIPITATION 0.10	5	7	7	12	10	6	5	12	11	8	6	6	95		
PRECIPITATION 1.00	0	1	2	1	0	2	1	3	6	1	2	2	21		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	26.5	4.5	2.9	T	0.0	0.0	0.0	0.0	0.0	6.8	0.0	T	40.7	
	GREATEST 24-HOUR (IN.)	11.3	2.1	2.3	T	0.0	0.0	0.0	0.0	0.0	6.8	0.0	T	11.3	
	DATE OF OCCURRENCE	26	21	23	01						29		28+	JAN 26	
	MAXIMUM SNOW DEPTH (IN.)	14	13	2	0	0	0	0	0	0	5	0	0	14	
	DATE OF OCCURRENCE	30+	02	23							30			JAN 30+	
NUMBER OF DAYS WITH:															
SNOWFALL >= 1.0	5	2	1	0	0	0	0	0	0	1	0	0	9		

# NORMALS, MEANS, AND EXTREMES ALLENTOWN (KABE)

**LATITUDE:** 40° 39'N      **LONGITUDE:** -75° 26'W      **ELEVATION (FT):** GRND: 390 BARO: 378      **TIME ZONE:** EASTERN (UTC -5)      **WBAN: 14737**

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
<b>TEMPERATURE °F</b>	NORMAL DAILY MAXIMUM	30	35.0	38.7	48.7	60.1	70.9	79.3	83.9	81.7	74.0	62.9	51.2	40.0	60.5
	MEAN DAILY MAXIMUM	64	35.7	38.9	48.7	61.3	71.5	80.2	84.7	82.6	75.2	64.2	52.2	40.1	61.3
	HIGHEST DAILY MAXIMUM	68	72	76	87	93	97	100	105	100	99	90	81	72	105
	YEAR OF OCCURRENCE		1950	1985	1998	1976	1962	1966	1966	1955	1980	2007	1950	2006	JUL 1966
	MEAN OF EXTREME MAXS.	64	56.0	57.9	70.9	82.1	87.7	92.5	94.7	92.3	88.7	79.8	70.2	59.5	77.7
	NORMAL DAILY MINIMUM	30	19.1	21.0	28.9	37.8	48.3	57.7	62.6	60.7	52.7	41.1	32.7	24.0	40.6
	MEAN DAILY MINIMUM	64	20.1	21.7	29.5	39.2	49.1	58.6	63.4	61.8	54.0	42.6	33.8	24.4	41.5
	LOWEST DAILY MINIMUM	68	-15	-8	-1	16	28	39	46	41	30	21	11	-8	-15
	YEAR OF OCCURRENCE		1994	1996	1967	1982	1947	1972	2001	1986	1947	1988	1976	1950	JAN 1994
	MEAN OF EXTREME MINS.	64	2.7	4.5	13.3	25.8	35.3	46.0	52.4	49.4	38.8	28.3	19.9	8.0	27.0
	NORMAL DRY BULB	30	27.1	29.9	38.8	49.0	59.6	68.5	73.3	71.2	63.4	52.0	42.0	32.0	50.6
	MEAN DRY BULB	64	27.9	30.4	39.1	50.3	60.3	69.6	74.1	72.2	64.6	53.4	43.0	32.3	51.4
	MEAN WET BULB	28	24.7	26.3	32.8	42.8	53.0	62.2	66.2	65.3	58.7	47.6	38.3	28.9	45.6
	MEAN DEW POINT	28	21.0	21.5	28.3	38.3	49.5	59.5	63.9	63.1	56.6	44.8	34.8	25.3	42.2
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	0.7	2.6	6.5	3.6	0.8	0.0	0.0	0.0	14.4
	MAXIMUM <= 32	30	11.9	7.7	1.4	*	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.0	27.3
MINIMUM <= 32	30	27.5	23.3	18.4	5.8	0.2	0.0	0.0	0.0	0.1	3.5	13.6	24.5	116.9	
MINIMUM <= 0	30	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.6	
<b>H/C</b>	NORMAL HEATING DEG. DAYS	30	1159	967	797	470	197	34	15	8	106	392	675	1010	5830
	NORMAL COOLING DEG. DAYS	30	0	0	1	6	45	153	288	216	73	5	0	0	787
<b>RH</b>	NORMAL (PERCENT)	30	70	66	62	61	66	68	70	72	74	72	70	71	69
	HOURLY 01 LST	30	74	72	69	69	76	81	82	84	86	83	77	76	77
	HOURLY 07 LST	30	77	76	74	73	77	80	82	86	88	86	80	78	80
	HOURLY 13 LST	30	62	57	52	49	53	55	54	56	58	56	58	62	56
	HOURLY 19 LST	30	68	63	57	54	57	60	61	65	69	67	66	68	63
<b>S</b>	PERCENT POSSIBLE SUNSHINE	12	43	48	53	47	54	63	57	56	54	53	45	42	51
<b>W/O</b>	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	48	2.5	2.3	2.0	1.2	1.4	1.3	1.0	1.6	2.3	2.3	2.0	2.6	22.5
	THUNDERSTORMS	64	0.2	0.2	0.8	1.9	3.5	5.2	5.8	4.9	2.5	0.8	0.6	0.1	26.5
<b>CLOUDINESS</b>	MEAN: SUNRISE-SUNSET (OKTAS)	51	5.4	5.1	5.1	5.1	5.1	4.8	4.6	4.5	4.5	4.4	5.2	5.3	4.9
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.0	4.7	4.8	4.7	4.7	4.5	4.3	4.3	4.3	4.2	5.0	5.1	4.6
	MEAN NO. DAYS WITH: CLEAR	52	6.9	7.2	7.7	6.9	6.7	7.6	8.0	8.7	9.2	10.2	6.7	6.9	92.7
	PARTLY CLOUDY	52	7.9	7.8	8.5	8.8	10.7	11.0	11.7	10.8	8.6	8.6	7.8	7.3	109.5
	CLOUDY	52	16.2	13.2	14.8	14.3	13.7	11.5	10.7	10.9	11.6	11.6	15.0	16.3	159.8
<b>PR</b>	MEAN STATION PRESSURE(IN)	28	29.64	29.63	29.62	29.56	29.57	29.56	29.58	29.61	29.66	29.66	29.67	29.66	29.62
	MEAN SEA-LEVEL PRES. (IN)	28	30.07	30.06	30.04	29.97	29.99	29.96	29.98	30.02	30.07	30.08	30.09	30.09	30.04
<b>WINDS</b>	MEAN SPEED (MPH)	28	8.5	8.9	9.3	8.9	7.9	7.1	6.4	6.0	6.4	6.9	7.6	8.1	7.7
	PREVAIL.DIR(TENS OF DEGS)	36	28	28	30	24	24	25	24	24	24	25	25	27	28
	MAXIMUM 2-MINUTE: SPEED (MPH)	16	43	40	46	40	53	39	48	38	35	35	39	40	53
	DIR. (TENS OF DEGS)		19	27	00	27	25	19	18	31	07	27	27	32	25
	YEAR OF OCCURRENCE		1996	2009	1996	2002	2000	2008	2007	2011	2003	2003	2003	2010	MAY 2000
	MAXIMUM 3-SECOND SPEED (MPH)	16	53	58	56	53	68	59	69	53	48	48	51	58	69
	DIR. (TENS OF DEGS)		16	27	07	26	25	20	33	31	21	29	30	25	33
YEAR OF OCCURRENCE		2006	2009	2010	2002	2000	2008	2010	2011	2011	2003	2003	2009	JUL 2010	
<b>PRECIPITATION</b>	NORMAL (IN)	30	3.50	2.75	3.56	3.49	4.47	3.99	4.27	4.35	4.37	3.33	3.70	3.39	45.17
	MAXIMUM MONTHLY (IN)	68	8.42	7.62	7.21	10.09	10.62	9.13	10.42	13.47	12.99	13.16	9.69	7.89	13.47
	YEAR OF OCCURRENCE		1979	2008	1953	1952	1984	2006	1969	2011	2011	2005	1972	1973	AUG 2011
	MINIMUM MONTHLY (IN)	68	0.67	0.55	0.92	0.61	0.09	0.34	0.33	0.76	0.57	0.15	0.68	0.39	0.09
	YEAR OF OCCURRENCE		1981	2002	2006	1985	1964	1949	1999	1995	2007	1963	1976	1955	MAY 1964
	MAXIMUM IN 24 HOURS (IN)	68	2.47	3.41	3.08	3.46	3.36	3.55	5.69	5.84	7.85	9.10	3.40	3.04	9.10
	YEAR OF OCCURRENCE		1949	2008	1952	2005	1984	1967	2010	1982	1985	2005	1972	1993	OCT 2005
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	11.2	10.2	11.1	11.3	12.4	11.2	10.5	9.4	9.9	8.7	10.0	11.0	126.9
PRECIPITATION >= 1.00	30	0.9	0.4	0.9	0.9	1.2	1.1	1.2	1.3	1.1	1.0	0.9	0.8	11.7	
<b>SNOWFALL</b>	NORMAL (IN)	30	11.1	9.4	5.7	0.8	0.*	0.0	0.0	0.0	0.0	0.1	1.4	3.8	32.3
	MAXIMUM MONTHLY (IN)	65	35.5	42.9	30.5	13.4	T	0.0	0.0	0.0	0.0	6.8	7.8	28.4	42.9
	YEAR OF OCCURRENCE		1996	2010	1958	1982	1994					2011	1967	1966	FEB 2010
	MAXIMUM IN 24 HOURS (IN)	65	25.6	25.2	17.5	11.4	T	0.0	0.0	0.0	0.0	6.8	6.4	13.3	25.6
	YEAR OF OCCURRENCE		1996	1983	1958	1982	1994					2011	1968	1966	JAN 1996
	MAXIMUM SNOW DEPTH (IN)	53	241	368	199	36	0	0	0	0	0	5	13	115	368
	YEAR OF OCCURRENCE		1994	1994	1994	1982						2011	1953	1966	FEB 1994
NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	2.8	2.2	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.4	1.4	8.3	

**PRECIPITATION (inches) 2011 ALLENTOWN (KABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	3.48	2.63	1.99	4.73	4.02	7.16	2.86	8.43	1.76	1.56	3.40	1.38	43.40
1983	2.84	3.21	5.35	7.87	4.21	4.68	2.02	2.38	1.41	4.83	6.29	7.61	52.70
1984	1.53	3.64	3.82	5.08	10.62	4.20	9.26	4.17	1.10	4.26	1.66	3.07	52.41
1985	0.84	2.28	1.56	0.61	5.47	5.06	7.61	3.46	8.72	1.97	7.74	1.71	47.03
1986	4.27	4.29	2.07	4.31	1.83	2.51	4.46	3.77	3.07	1.91	6.32	4.39	43.20
1987	3.89	1.11	2.10	4.42	2.28	4.42	4.41	7.09	8.87	2.64	3.98	1.49	46.70
1988	2.75	3.28	2.56	1.36	7.43	1.79	6.17	2.72	3.21	2.18	4.98	0.99	39.42
1989	1.79	2.18	3.82	1.31	9.52	5.81	4.09	3.05	5.93	4.30	1.90	1.31	45.01
1990	4.57	2.38	1.52	2.31	6.66	2.86	3.20	6.47	1.97	3.12	3.53	5.68	44.27
1991	2.77	1.14	3.71	3.11	2.90	1.06	5.28	2.54	3.32	2.57	2.48	3.50	34.38
1992	1.73	1.49	3.32	0.88	4.88	3.36	5.36	4.08	3.42	1.86	5.06	3.27	38.71
1993	1.98	2.81	6.59	6.81	1.43	4.09	2.99	5.39	7.77	5.31	2.83	4.96	52.96
1994	5.69	3.14	5.92	3.04	2.67	5.46	5.57	6.18	2.61	1.25	4.21	3.08	48.82
1995	3.49	2.52	3.20	2.46	2.93	1.44	5.86	0.76	2.66	7.49	3.65	1.44	37.90
1996	7.32	2.11	3.34	5.54	2.16	4.45	7.12	.91	5.20	6.71	4.71	7.30	56.87
1997	3.38	1.32	3.71	1.62	3.23	2.62	6.84	5.12	3.54	2.03	2.71	2.37	38.49
1998	3.42	3.85	3.86	5.21	4.58	4.95	1.17	3.12	2.96	4.49	1.39	0.62	39.62
1999	5.44	2.67	3.07	3.20	3.27	0.97	0.33	3.81	11.57	2.52	2.39	2.45	41.69
2000	3.00	1.89	5.04	3.76	5.54	5.57	3.35	5.22	3.75	1.10	2.24	4.37	44.83
2001	2.65	2.37	4.19	1.59	4.38	5.55	4.63	2.51	4.21	0.81	1.09	1.92	35.90
2002	1.45	0.55	3.62	3.83	4.42	4.65	1.14	2.25	4.04	6.84	3.32	4.95	41.06
2003	1.40	3.10	3.62	2.23	3.20	8.30	5.44	5.07	11.08	5.15	3.37	4.97	56.93
2004	2.25	2.53	1.90	3.90	3.77	3.18	8.06	4.53	9.56	3.12	4.95	3.84	51.59
2005	5.38	2.72	3.75	6.56	1.23	4.27	4.23	2.14	0.76	13.16	3.58	3.57	51.35
2006	5.23	2.37	0.92	3.18	1.80	9.13	8.17	2.41	5.79	3.52	4.49	2.28	49.29
2007	2.81	1.98	3.32	5.89	2.37	3.99	5.33	3.47	0.57	6.19	4.44	5.02	45.38
2008	1.28	7.62	5.12	2.89	3.89	2.96	6.08	1.33	8.11	3.02	2.38	6.84	51.52
2009	2.00	0.78	1.73	2.60	4.64	6.78	5.93	4.88	2.93	4.90	1.12	6.30	44.59
2010	2.37	4.18	5.76	3.42	3.85	2.22	8.87	1.70	7.48	4.86	2.99	2.92	50.62
2011	2.67	3.53	6.43	5.98	4.37	4.76	3.94	13.47	12.99	4.50	4.90	4.18	71.72
POR= 64 YRS	3.23	2.86	3.65	3.76	3.94	3.82	4.51	4.20	4.44	3.40	3.62	3.67	45.10

WBAN : 14737

**AVERAGE TEMPERATURE (°F) 2011 ALLENTOWN (KABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1982	19.9	29.9	37.3	47.2	62.5	65.7	73.5	68.3	64.1	54.0	45.5	38.5	50.5
1983	30.2	32.0	41.9	49.2	58.3	70.0	76.4	75.5	66.5	54.3	43.5	28.6	52.2
1984	23.0	36.7	33.7	49.3	58.7	72.0	73.2	74.1	62.4	59.5	43.4	38.4	52.0
1985	24.9	32.2	42.3	54.2	63.6	67.3	73.3	71.9	66.2	54.2	46.1	29.4	52.1
1986	29.3	28.1	41.1	50.5	64.6	69.1	73.9	69.6	64.1	54.0	39.5	33.8	51.5
1987	27.8	29.2	42.6	50.8	61.6	71.4	75.9	70.5	64.3	49.1	43.4	34.9	51.8
1988	22.7	29.7	40.7	48.5	61.6	68.7	77.9	75.0	62.8	48.2	44.5	31.7	51.0
1989	33.4	30.4	39.0	48.5	59.3	70.2	72.7	71.5	65.5	55.0	42.1	21.2	50.7
1990	37.1	36.3	43.3	51.9	58.8	70.0	74.2	71.8	63.1	57.5	45.6	37.2	53.9
1991	29.5	35.9	42.3	52.6	67.2	71.6	74.7	74.1	64.7	54.7	43.8	35.7	53.9
1992	32.2	33.9	37.4	48.8	59.3	68.5	72.4	69.4	63.7	49.3	43.1	34.0	51.0
1993	33.3	26.9	35.6	50.6	63.0	70.5	76.9	74.4	64.1	51.7	43.1	33.1	51.9
1994	20.7	25.6	37.1	54.7	59.5	73.8	77.6	70.9	65.0	53.2	48.0	37.6	52.0
1995	34.3	28.3	44.1	49.4	59.9	70.5	76.4	75.0	64.5	56.8	36.9	26.8	51.9
1996	25.1	29.7	34.7	48.9	56.7	69.4	70.1	70.9	64.2	52.1	37.2	35.9	49.6
1997	27.1	35.6	38.9	47.7	55.7	68.0	72.3	69.2	62.0	52.4	39.3	33.6	50.2
1998	36.5	38.6	42.7	51.8	65.0	68.2	72.9	72.9	65.8	53.4	42.8	37.8	54.0
1999	30.3	33.4	38.0	49.2	59.5	70.0	78.0	72.2	65.3	50.7	46.3	34.9	52.3
2000	27.5	31.1	44.3	49.4	61.2	69.2	70.2	70.2	61.6	52.8	40.4	25.4	50.3
2001	27.1	31.4	36.5	50.6	60.6	69.5	68.9	73.7	62.3	53.6	47.0	38.2	51.6
2002	34.2	36.1	40.9	52.4	57.4	69.7	75.7	75.0	66.4	51.7	40.9	29.6	52.5
2003	23.6	25.8	39.9	48.7	57.3	67.3	74.2	75.0	65.6	51.5	46.7	33.0	50.7
2004	22.0	30.6	41.2	51.1	65.9	67.8	72.3	71.5	66.3	52.1	44.6	32.8	51.5
2005	26.8	31.7	34.9	52.6	56.3	72.7	75.6	75.6	68.7	55.8	44.8	29.6	52.1
2006	36.5	31.8	41.4	52.4	60.9	69.5	75.9	72.8	62.2	51.6	47.6	39.1	53.5
2007	33.2	24.0	39.0	47.6	62.5	70.4	72.5	73.0	67.0	60.8	40.8	33.0	52.0
2008	31.7	31.4	39.8	52.4	56.4	71.8	74.6	69.5	66.0	50.6	41.2	32.6	51.5
2009	23.3	32.1	40.1	51.2	60.4	67.5	70.1	73.0	62.7	51.4	46.7	31.4	50.8
2010	28.8	29.0	45.5	53.7	63.2	72.2	76.6	73.3	66.6	53.0	42.3	28.9	52.8
2011	23.6	31.2	39.5	52.7	64.2	71.1	78.0	72.2	67.3	53.8	46.6	38.4	53.2
POR= 64 YRS	27.9	30.4	39.1	50.3	60.3	69.6	74.1	72.2	64.6	53.4	43.0	32.3	51.4

**HEATING DEGREE DAYS (base 65°F) 2011 ALLENTOWN (KABE)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	5	28	82	347	575	815	1071	920	708	477	222	23	5273
1983-84	0	1	96	336	639	1121	1295	813	963	464	211	12	5951
1984-85	0	1	135	180	642	820	1240	914	702	346	106	28	5114
1985-86	0	3	85	324	559	1093	1098	1025	735	427	115	20	5484
1986-87	0	35	92	361	759	960	1143	997	688	423	178	5	5641
1987-88	0	16	73	487	637	926	1306	1016	747	486	145	52	5891
1988-89	5	6	97	515	607	1026	974	963	798	489	204	12	5696
1989-90	4	7	92	309	680	1350	858	800	670	416	188	17	5391
1990-91	7	12	129	269	574	853	1092	806	696	374	92	10	4914
1991-92	0	0	113	326	631	902	1007	895	845	478	197	23	5417
1992-93	4	9	110	482	649	955	974	1060	904	424	103	27	5701
1993-94	0	3	121	407	652	985	1369	1099	856	315	202	6	6015
1994-95	0	2	60	362	506	840	942	1020	639	461	170	2	5004
1995-96	0	0	91	264	838	1181	1225	1016	932	477	283	16	6323
1996-97	2	2	104	394	826	897	1169	816	803	513	282	54	5862
1997-98	5	9	116	395	766	966	875	731	693	387	82	48	5073
1998-99	0	6	68	353	660	836	1067	879	829	468	180	15	5361
1999-00	1	8	74	434	554	924	1155	973	636	462	167	33	5421
2000-01	3	16	176	372	729	1224	1168	934	878	434	164	28	6126
2001-02	15	0	119	354	533	822	946	801	739	410	261	15	5015
2002-03	0	4	48	425	717	1091	1278	1091	774	485	234	56	6203
2003-04	0	0	40	413	543	984	1328	992	731	411	88	32	5562
2004-05	0	10	27	391	604	988	1180	930	928	369	268	9	5704
2005-06	0	0	24	302	599	1092	878	922	724	374	167	18	5100
2006-07	0	0	105	411	515	796	978	1143	798	519	143	15	5423
2007-08	11	15	53	192	718	986	1024	967	776	373	273	9	5397
2008-09	0	6	65	439	705	997	1283	916	765	428	166	34	5804
2009-10	2	2	96	414	542	1037	1112	1002	597	350	140	18	5312
2010-11	1	1	51	367	673	1112	1277	940	785	380	110	5	5702
2011-	0	1	50	344	542	818							

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**COOLING DEGREE DAYS (base 65°F) 2011 ALLENTOWN (KABE)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1982	0	0	0	1	37	76	274	137	63	13	0	0	601
1983	0	0	0	11	21	179	361	337	148	13	0	0	1070
1984	0	0	0	0	25	226	260	291	65	18	0	0	885
1985	0	0	2	27	66	100	262	222	125	1	0	0	805
1986	0	0	0	0	111	152	282	187	72	23	0	0	827
1987	0	0	0	3	78	204	344	194	58	0	0	0	881
1988	0	0	0	0	48	172	412	324	36	3	0	0	995
1989	0	0	0	0	37	173	248	218	116	6	1	0	799
1990	0	0	5	31	6	171	299	228	78	42	0	0	860
1991	0	0	0	9	167	215	306	290	110	15	0	0	1112
1992	0	0	0	0	27	135	241	151	79	0	0	0	633
1993	0	0	0	1	49	198	375	302	103	0	0	0	1028
1994	0	0	0	13	40	275	400	192	67	1	1	0	989
1995	0	0	0	0	18	173	359	319	85	16	0	0	970
1996	0	0	0	2	32	153	177	192	87	0	0	0	643
1997	0	0	0	0	3	148	239	146	35	10	0	0	581
1998	0	0	10	1	87	149	247	257	100	0	0	0	851
1999	0	0	0	0	16	170	414	236	92	0	0	0	928
2000	0	0	0	2	55	165	169	187	81	0	0	0	659
2001	0	0	0	10	34	172	142	275	44	3	0	0	680
2002	0	0	0	39	33	163	338	322	95	18	0	0	1008
2003	0	0	0	2	2	132	292	315	64	0	1	0	808
2004	0	0	0	1	124	125	237	219	72	0	0	0	778
2005	0	0	0	6	7	249	337	334	144	21	0	0	1098
2006	0	0	0	2	46	159	345	247	30	1	0	0	830
2007	0	0	0	0	70	183	251	269	120	65	0	0	958
2008	0	0	0	1	12	217	304	152	98	0	0	0	784
2009	0	0	0	23	30	116	169	261	34	1	0	0	634
2010	0	0	0	15	90	240	367	266	104	0	0	0	1082
2011	0	0	0	20	92	197	410	229	125	2	0	0	1075

**SNOWFALL (inches) 2011 ALLENTOWN (KABE)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1982-83	0.0	0.0	0.0	0.0	T	2.3	8.8	29.5	0.6	4.6	0.0	0.0	45.8
1983-84	0.0	0.0	0.0	0.0	T	5.0	12.8	0.6	15.9	T	0.0	0.0	34.3
1984-85	0.0	0.0	0.0	0.0	T	5.7	6.7	11.5	0.3	T	0.0	0.0	24.2
1985-86	0.0	0.0	0.0	0.0	T	2.7	5.7	16.5	T	1.1	0.0	0.0	26.0
1986-87	0.0	0.0	0.0	0.0	0.5	2.4	21.9	9.6	1.1	T	0.0	0.0	35.5
1987-88	0.0	0.0	0.0	0.0	3.7	2.2	21.0	11.6	1.7	T	0.0	0.0	40.2
1988-89	0.0	0.0	0.0	0.0	0.0	0.1	3.9	2.8	5.4	0.0	0.0	0.0	12.2
1989-90	0.0	0.0	0.0	0.0	3.0	7.3	8.8	2.0	0.9	0.1	0.0	0.0	22.1
1990-91	0.0	0.0	0.0	0.0	T	8.8	5.0	0.9	2.1	T	0.0	0.0	16.8
1991-92	0.0	0.0	0.0	0.0	T	0.8	2.8	2.2	9.8	T	0.0	0.0	15.6
1992-93	0.0	0.0	0.0	0.0	T	0.9	1.6	13.4	21.6	0.0	0.0	0.0	37.5
1993-94	0.0	0.0	0.0	0.0	T	1.9	33.9	24.7	14.7	0.0	T	0.0	75.2
1994-95	0.0	0.0	0.0	0.0	0.7	0.4	0.5	10.1	2.0	0.0	0.0	0.0	13.7
1995-96	0.0	0.0	0.0	0.0	4.1	15.7	35.5	10.2	6.1	0.2	0.0	0.0	71.8
1996-97	0.0	0.0	0.0	0.0	T	1.1	5.5	4.5	9.6	2.8	0.0	0.0	23.5
1997-98	0.0	0.0	0.0	0.0	T	3.5	3.7	T	0.0	0.0	0.0	0.0	7.2
1998-99	0.0	0.0	0.0	0.0	0.0	0.3	2.1	1.2	T	0.0	0.0	0.0	3.6
1999-00	0.0	0.0	0.0	0.0	T	T	18.1	5.5	T	0.0	0.0	0.0	23.6
2000-01	0.0	0.0	0.0	0.0	T	10.8	10.8	20.1	5.5	T	0.0	0.0	47.2
2001-02	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.7	T	T	0.0	0.0	9.7
2002-03	0.0	0.0	0.0	T	1.2	15.2	4.7	27.5	1.8	4.0	0.0	0.0	54.4
2003-04	0.0	0.0	0.0	T	T	12.0	16.2	2.6	8.5	T	0.0	0.0	39.3
2004-05	0.0	0.0	0.0	0.0	T	1.6	16.2	17.2	7.3	0.0	0.0	0.0	42.3
2005-06	0.0	0.0	0.0	0.0	0.6	14.0	1.0	16.1	T	0.8	0.0	0.0	32.5
2006-07	0.0	0.0	0.0	0.0	0.0	T	2.1	11.2	9.7	T	0.0	0.0	23.0
2007-08	0.0	0.0	0.0	0.0	3.2	6.9	2.6	8.5	T	T	0.0	0.0	21.2
2008-09	0.0	0.0	0.0	T	0.3	6.0	9.6	4.1	4.1	T	0.0	0.0	24.1
2009-10	0.0	0.0	0.0	T	T	15.4	1.5	42.9	T	0.0	0.0	0.0	59.8
2010-11	0.0	0.0	0.0	0.0	1.4	3.6	26.5	4.5	2.9	T	0.0	0.0	38.9
2011-	0.0	0.0	0.0	6.8	0.0	T							
POR= 64 YRS	0.0	0.0	0.0	0.1	1.1	5.9	9.2	9.7	5.5	0.6	T	0.0	32.1

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**REFERENCE NOTES :**

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS(OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD. CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED.</p>	<p>GENERAL CONTINUED: WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65 F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY. ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER. STATION HISTORY STOPPED WITH THE 2009 ANNUAL. IF YOU NEED HISTORY GO TO "MULTI-NETWORK MEDADATA SYSTEM", URL IS: <a href="https://mi3.ncdc.noaa.gov/mi3qry/login.cfm">https://mi3.ncdc.noaa.gov/mi3qry/login.cfm</a> SNOWFALL STOPPED MONTH &amp; YEAR INDICATED ABOVE. NO FURTHER YEARS INCLUDED UNLESS RESTARTED.</p> <p><b>NOTE:</b> 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 ALLENTOWN PENNSYLVANIA (KABE)

Allentown is located in the east central section of the state and in the Lehigh River valley. Twelve miles to the north is Blue Mountain, a ridge from 1,000 to 1,800 feet in height. The South Mountain, 500 to 1,000 feet high, fringes the southern edge of the city. Otherwise the country is generally rolling with numerous small streams. A modified climate prevails. Temperatures are usually moderate and precipitation generally ample and dependable with the largest amounts occurring during the summer months when precipitation is generally showery. General climatological features of the area are slightly modified by the mountain ranges so that at times during the winter there is a temperature difference of 10 to 15 degrees between Allentown and Philadelphia, only 50 miles to the south.

The growing season averages 177 days, and generally ranges from 170 to 185 days. It begins late in April and ends late in October. The average occurrence of the last temperature of 32 degrees in the spring is late April, and the average first fall minimum of 32 degrees is mid-October.

Maximum temperatures during most years are not excessively high and temperatures above 100 degrees are seldom recorded. However, the average humidity in the valley is quite high, and combined with the normal summer temperatures, causes periods of discomfort.

Winters in the valley are comparatively mild. Minimum temperatures during December, January, and February are usually below freezing, but below zero temperatures are seldom recorded.

Seasonal snowfall is quite variable. Freezing rain is a common problem throughout the Lehigh Valley. Snowstorms producing 10 inches or more occur an average of once in two years. The accumulation of snowfall over the drainage area of the Lehigh River to the north of Allentown, combined with spring rains, frequently presents a flood threat to the city and surrounding area. The valley is also subject to torrential rains that cause quick rises in the river and feeder creeks.

The area is seldom subject to destructive storms of large extent. Heavy thunderstorms and tornadoes occasionally cause damage over limited areas. An exception to the usual weather was the storm that battered the east coast on November 25, 1950, when gusts of 88 mph were observed at the station.

# Station History

ALLENTOWN, PA

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
ALLENTOWN BETHLEHEM-EASTON AP	1948-01-01	1950-01-01	40° 39'	-75° 25'	384		AIRWAYS, COOP, USHCN
ALLENTOWN A-B-E INTL AP	1991-01-01	1995-11-01	40° 39'	-75° 25'	390		COOP, USHCN, WXSVC
ALLENTOWN BETHLEHEM-EASTON AP	1950-01-01	1969-01-01	40° 39'	-75° 25'	387		AIRWAYS, COOP, USHCN
ALLENTOWN LEHIGH VALLEY INTL AP	1995-11-01	Present	40° 39'	-75° 26'	390		ASOS, COOP, USHCN
ALLENTOWN BETHLEHEM-EASTON AP	1938-04-01	1948-01-01	40° 39'	-75° 25'			AIRWAYS
ALLENTOWN A-B-E INTL AP	1989-09-25	1991-01-01	40° 39'	-75° 25'	387		COOP, USHCN, WXSVC
ALLENTOWN BETHLEHEM-EASTON AP	1969-01-01	1989-09-25	40° 39'	-75° 25'	387		COOP, USHCN, WXSVC

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
PRECIP	1991-01-01	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	2002-12-04	DAILY	2400	UNIV	RCRD	
PRECIP	1965-12-01	1991-01-01	HOURLY	2400			
TEMP	1995-07-01	2002-12-04	DAILY	2400	HYGR		
TEMP	2002-12-04	2011-09-15	DAILY	2400	HYGR		
TEMP	2011-09-15	Present	DAILY	2400	ATEMP		
PRECIP	1938-04-01	1965-12-01	DAILY	2400	UNIV	RCRD	
PRECIP	1995-07-01	2002-12-04	HOURLY	2400	UNIV	RCRD	
PRECIP	2002-12-04	2011-09-15	DAILY	2400	TB	RCRD	
TEMP	1938-04-01	1965-12-01	DAILY	2400			
TEMP	1965-12-01	1991-01-01	DAILY	2400			
PRECIP	2002-12-04	2011-09-15	HOURLY	2400	TB	RCRD	
PRECIP	2011-09-15	Present	DAILY	2400	PCPNX		
PRECIP	1965-12-01	1991-01-01	DAILY	2400	UNIV	RCRD	
PRECIP	1991-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	
TEMP	1991-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	2011-09-15	Present	HOURLY	2400	AHTB	RCRD;HTD	

\* 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/asosimplementation.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.info@noaa.gov](mailto:ncdc.info@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](http://www.ncdc.noaa.gov)