

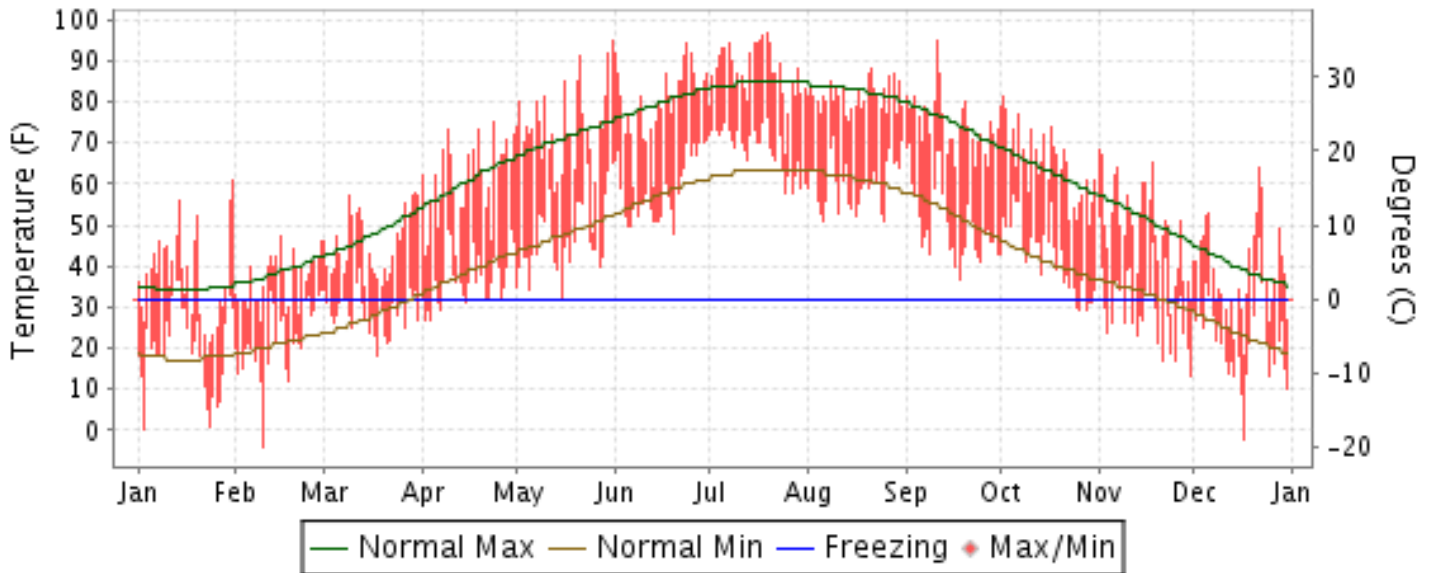


# 2013 LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA

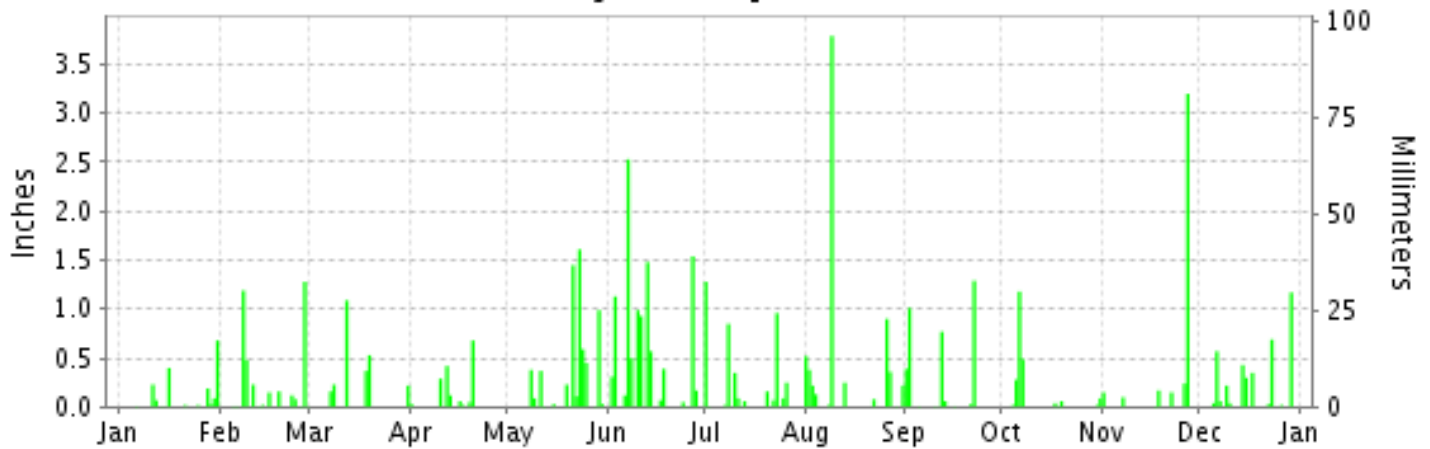
ISSN 0198-1137

## WINDSOR LOCKS, CONNECTICUT (KBDL)

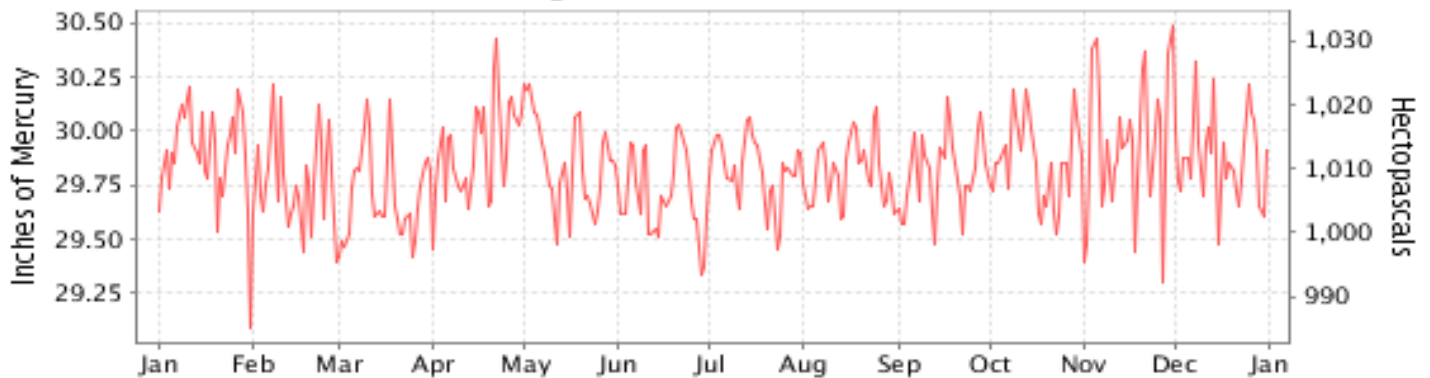
### Daily Max/Min Temperature



### 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 2013

## WINDSOR LOCKS (KBDL)

LATITUDE: 41° 56'N      LONGITUDE: 72° 40'W      ELEVATION (FT): GRND: 190 BARO: 165      TIME ZONE: EASTERN (UTC -5)      WBAN: 14740

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	37.2	36.5	45.3	60.7	73.4	80.1	87.2	81.2	74.6	64.9	49.7	38.5	60.8	
	HIGHEST DAILY MAXIMUM	61	47	58	75	95	94	97	88	95	81	68	64	97	
	DATE OF OCCURRENCE	31	15	30	24	31	24	19	21	11	02	01	22	JUL 19	
	MEAN DAILY MINIMUM	20.1	21.9	28.8	36.8	47.3	58.9	68.6	60.2	50.5	42.4	29.9	22.3	40.6	
	LOWEST DAILY MINIMUM	0	-4	18	27	32	48	58	51	37	29	13	-2	-4	
	DATE OF OCCURRENCE	03	10	18	04+	15	20	27+	25+	18	28+	30	17	FEB 10	
	AVERAGE DRY BULB	28.6	29.2	37.0	48.8	60.3	69.5	77.9	70.7	62.6	53.7	39.8	30.4	50.7	
	MEAN WET BULB	26.0	26.0	32.1	41.6	53.9	62.8	70.5	64.1	57.0	48.6	34.8	28.3	45.5	
	MEAN DEW POINT	17.6	17.8	22.9	31.1	47.4	58.4	66.9	59.8	52.4	43.2	25.7	22.7	38.8	
	NUMBER OF DAYS WITH:														
	MAXIMUM >= 90°	0	0	0	0	3	4	12	0	1	0	0	0	20	
	MAXIMUM <= 32°	11	10	0	0	0	0	0	0	0	0	2	10	33	
	MINIMUM <= 32°	27	24	25	10	1	0	0	0	0	5	18	26	136	
MINIMUM <= 0°	1	1	0	0	0	0	0	0	0	0	0	1	3		
H/C	HEATING DEGREE DAYS	1119	994	860	481	191	33	2	0	131	350	749	1064	5974	
	COOLING DEGREE DAYS	0	0	0	0	54	175	413	182	65	5	0	0	894	
RH	MEAN (PERCENT)	64	64	59	55	67	71	72	72	72	71	59	73	67	
	HOUR 01 LST	70	70	69	73	84	85	85	86	87	86	68	77	78	
	HOUR 07 LST	72	72	65	62	70	73	76	75	78	79	67	79	72	
	HOUR 13 LST	53	53	46	36	47	54	55	51	51	50	44	64	50	
	HOUR 19 LST	61	63	60	50	65	73	73	73	75	72	60	73	67	
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG(VISBY <= 1/4 MI)	7	3	0	1	4	0	2	1	0	2	1	4	25	
	THUNDERSTORMS	0	0	0	1	6	7	5	5	3	0	0	0	27	
PR	MEAN STATION PRESS. (IN.)	29.89	29.76	29.70	29.92	29.85	29.71	29.82	29.80	29.81	29.86	29.88	29.88	29.82	
	MEAN SEA-LEVEL PRESS. (IN.)	30.10	29.97	29.90	30.13	30.04	29.90	30.01	30.00	30.00	30.06	30.12	30.09	30.03	
WINDS	RESULTANT SPEED (MPH)	4.2	4.5	5.7	1.8	2.0	2.0	1.9	2.0	1.5	1.4	4.0	2.3	2.3	
	RES. DIR. (TENS OF DEGS.)	27	32	32	28	22	22	23	23	28	30	28	29	29	
	MEAN SPEED (MPH)	7.7	8.0	9.6	9.3	7.0	7.3	5.9	5.6	5.4	5.4	8.2	6.3	7.1	
	PREVAIL.DIR.(TENS OF DEGS.)	31	31	32	18	17	18	18	18	32	01	31	36	32	
	MAXIMUM 2-MINUTE WIND														
	SPEED (MPH)	39	33	31	31	35	37	22	32	29	32	31	23	39	
	DIR. (TENS OF DEGS.)	28	35	29	30	30	25	23	28	26	18	30	31	28	
	DATE OF OCCURRENCE	31	09	23	03	29	25	19	04	12	07	24	24	JAN 31	
	MAXIMUM 3-SECOND WIND:														
	SPEED (MPH)	55	44	38	43	48	46	29	40	38	45	40	32	55	
DIR. (TENS OF DEGS.)	20	32	30	30	30	26	23	29	26	18	31	30	20		
DATE OF OCCURRENCE	31	17	23	03	21	25	19	04	12	07	24	25	JAN 31		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	1.75	3.76	2.60	1.67	6.36	10.79	4.19	6.88	3.58	2.19	4.02	3.92	51.71	
	GREATEST 24-HOUR (IN.)	0.75	1.65	1.09	0.73	1.92	3.01	1.29	3.79	1.32	1.18	3.42	1.17	3.79	
	DATE OF OCCURRENCE	30-31	08-09	12	19-20	23-24	07-08	01-02	09	21-22	06	26-27	29	AUG 09	
	NUMBER OF DAYS WITH:														
PRECIPITATION 0.01	11	14	6	8	15	15	12	12	9	9	7	12	130		
PRECIPITATION 0.10	4	7	6	4	9	12	6	9	4	3	6	7	77		
PRECIPITATION 1.00	0	2	1	0	2	4	1	1	2	1	1	1	16		
SNOWFALL	SNOW,ICE PELLETS,HAIL														
	TOTAL (IN.)	5.9	25.4	9.8	0.0	0.0	0.0	0.0	0.0	0.0	T	T	12.7	53.8	
	GREATEST 24-HOUR (IN.)	3.4	13.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	T	T	5.3	13.4	
	DATE OF OCCURRENCE	16	08	18							30	27+	14	FEB 08	
	NUMBER OF DAYS WITH:														
SNOWFALL >= 1.0	2	3	4	0	0	0	0	0	0	0	0	3	12		

# NORMALS, MEANS, AND EXTREMES WINDSOR LOCKS (KBDL)

LATITUDE: 41° 56'N      LONGITUDE: 72° 40'W      ELEVATION (FT): GRND: 190 BARO: 165      TIME ZONE: EASTERN (UTC -5)      WBAN: 14740

	ELEMENT	POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	34.5	38.5	47.7	60.5	71.2	79.6	84.5	82.7	74.9	63.1	51.6	39.7	60.7
	MEAN DAILY MAXIMUM	65	34.4	37.5	46.6	60.3	71.3	79.7	84.8	82.6	74.7	63.6	51.1	38.8	60.5
	HIGHEST DAILY MAXIMUM	59	72	73	89	96	99	100	103	102	99	91	81	76	103
	YEAR OF OCCURRENCE		2007	1985	1998	1976	2010	1964	2011	2001	1983	1963	1974	1998	JUL 2011
	MEAN OF EXTREME MAXS.	65	54.3	55.1	68.4	82.0	89.1	93.6	95.6	93.7	89.3	80.8	69.8	58.8	77.5
	NORMAL DAILY MINIMUM	30	17.7	20.9	27.9	38.4	47.7	57.3	62.7	61.1	52.7	41.1	33.2	23.4	40.3
	MEAN DAILY MINIMUM	65	17.5	19.8	27.9	38.0	47.6	57.0	62.5	60.5	52.2	41.3	32.8	22.3	40.0
	LOWEST DAILY MINIMUM	59	-26	-21	-6	9	28	35	44	36	30	17	1	-14	-26
	YEAR OF OCCURRENCE		1961	1961	2003	1970	2008	2002	1962	1965	2000	1978	1989	1980	JAN 1961
	MEAN OF EXTREME MINS.	65	-2.4	0.5	11.0	25.3	33.9	43.9	51.1	47.5	36.4	26.2	17.6	3.9	24.6
	NORMAL DRY BULB	30	26.1	29.7	37.8	49.4	59.5	68.5	73.6	71.9	63.8	52.1	42.4	31.6	50.5
	MEAN DRY BULB	65	25.9	29.1	37.3	49.2	59.4	68.5	73.6	71.6	63.5	52.4	42.0	30.6	50.3
	MEAN WET BULB	30	22.1	23.8	30.4	39.8	50.9	60.4	65.2	64.0	57.3	46.2	36.2	27.1	43.6
	MEAN DEW POINT	30	18.9	20.0	26.8	36.0	47.9	58.0	63.2	62.2	55.5	43.7	33.3	23.7	40.8
	NORMAL NO. DAYS WITH: MAXIMUM >= 90	30	0.0	0.0	0.0	0.2	0.9	2.9	5.8	4.0	0.8	0.0	0.0	0.0	14.6
	MAXIMUM <= 32	30	12.3	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	6.7	27.9
	MINIMUM <= 32	30	27.8	24.9	21.0	6.4	0.4	0.0	0.0	0.0	0.1	4.4	14.5	25.5	125.0
MINIMUM <= 0	30	2.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	3.4	
H/C	NORMAL HEATING DEG. DAYS	30	1206	988	843	472	205	40	3	9	110	407	678	1037	5998
	NORMAL COOLING DEG. DAYS	30	0	0	0	6	33	144	269	223	74	7	0	0	756
RH	NORMAL (PERCENT)	30	65	63	61	59	65	68	69	71	74	70	68	68	67
	HOURLY 01 LST	30	70	68	69	69	77	81	82	85	86	82	75	72	76
	HOURLY 07 LST	30	72	72	72	69	74	77	78	83	86	83	78	75	77
	HOURLY 13 LST	30	56	52	49	45	48	51	51	54	55	52	55	57	52
	HOURLY 19 LST	30	63	59	56	53	56	61	62	67	71	68	66	66	62
S	PERCENT POSSIBLE SUNSHINE	42	53	56	57	55	57	60	62	62	59	57	45	47	56
W/O	MEAN NO. DAYS WITH: HEAVY FOG(VISBY <= 1/4 MI)	50	2.9	2.1	2.3	1.2	1.4	1.8	1.6	1.8	2.5	2.8	2.0	2.8	25.2
	THUNDERSTORMS	64	0.1	0.2	0.7	1.2	2.7	4.3	4.7	3.8	2.0	0.8	0.3	0.2	21.0
CLOUDINESS	MEAN: SUNRISE-SUNSET (OKTAS)	42	5.2	5.2	5.4	5.4	5.4	5.3	5.1	4.9	4.8	4.6	5.4	5.2	5.2
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.0	4.9	5.1	5.0	5.1	5.0	4.8	4.7	4.6	4.3	5.0	5.0	4.9
	MEAN NO. DAYS WITH: CLEAR	42	7.7	6.6	6.7	6.3	5.6	5.7	5.7	6.9	8.4	9.4	5.7	6.9	81.6
	PARTLY CLOUDY	42	7.8	7.7	8.4	8.5	9.7	10.3	12.1	10.8	8.9	8.5	8.2	7.5	108.4
	CLOUDY	42	15.5	13.9	16.0	15.2	15.7	14.0	13.2	13.3	12.7	13.0	16.1	16.6	175.2
PR	MEAN STATION PRESSURE(IN)	30	29.83	29.82	29.82	29.76	29.78	29.75	29.77	29.81	29.86	29.85	29.87	29.84	29.81
	MEAN SEA-LEVEL PRES. (IN)	30	30.03	30.02	30.02	29.96	29.97	29.94	29.96	30.00	30.05	30.05	30.07	30.05	30.01
WINDS	MEAN SPEED (MPH)	30	8.3	8.8	9.3	9.0	8.1	7.2	6.6	6.3	6.7	7.3	7.9	8.1	7.8
	PREVAIL.DIR.(TENS OF DEGS)	39	32	32	32	19	19	19	19	19	19	19	36	36	19
	MAXIMUM 2-MINUTE: SPEED (MPH)	17	46	44	43	41	43	45	43	39	38	41	39	41	46
	DIR. (TENS OF DEGS)		24	29	30	20	30	36	28	27	02	29	29	01	24
	YEAR OF OCCURRENCE		1999	2011	1997	2000	2008	2000	2012	2005	1999	2007	2003	2010	JAN 1999
	MAXIMUM 3-SECOND SPEED (MPH)	17	56	58	54	56	69	52	63	51	46	62	54	56	69
	DIR. (TENS OF DEGS)		24	32	29	32	29	34	27	29	32	10	24	36	29
	YEAR OF OCCURRENCE		1999	2003	1997	2010	2008	2000	2012	2011	2002	2012	1998	2010	MAY 2008
PRECIPITATION	NORMAL (IN)	30	3.23	2.89	3.62	3.72	4.35	4.35	4.18	3.93	3.88	4.37	3.89	3.44	45.85
	MAXIMUM MONTHLY (IN)	59	9.61	8.90	6.86	9.90	12.00	13.60	11.17	21.87	11.22	16.32	8.53	8.36	21.87
	YEAR OF OCCURRENCE		1978	2008	1983	1983	1989	1982	2009	1955	1999	2005	1972	1969	AUG 1955
	MINIMUM MONTHLY (IN)	59	0.38	0.45	0.27	1.10	0.73	0.67	0.97	0.54	0.84	0.35	0.40	0.78	0.27
	YEAR OF OCCURRENCE		1981	1987	1981	1999	1959	1988	2001	1981	1986	1963	2012	1955	MAR 1981
	MAXIMUM IN 24 HOURS (IN)	59	2.56	2.78	3.66	3.74	4.90	6.14	3.48	12.12	5.72	5.81	3.42	3.34	12.12
	YEAR OF OCCURRENCE		1979	2008	2011	2007	1989	1982	1960	1955	1999	2005	2013	2010	AUG 1955
	NORMAL NO. DAYS WITH: PRECIPITATION >= 0.01	30	10.8	9.7	11.5	11.2	12.8	12.2	10.4	10.0	9.8	10.2	10.7	10.7	130.0
	PRECIPITATION >= 1.00	30	0.7	0.5	0.8	0.9	1.1	1.1	1.1	1.2	1.0	1.3	1.1	0.8	11.6
SNOWFALL	NORMAL (IN)	30	12.3	11.0	6.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.0	7.4	40.5
	MAXIMUM MONTHLY (IN)	54	54.3	32.2	43.3	14.3	1.3	T	0.0	T	0.0	12.3	8.7	35.4	54.3
	YEAR OF OCCURRENCE		2011	1969	1956	1982	1977	1993	T	2008	2011	1986	1969	JAN 2011	
	MAXIMUM IN 24 HOURS (IN)	54	24.0	21.0	14.8	14.1	1.3	T	0.0	T	0.0	12.3	8.6	13.9	24.0
	YEAR OF OCCURRENCE		2011	1983	1993	1982	1977	1993	2008	2011	2011	1980	1969	JAN 2011	
	MAXIMUM SNOW DEPTH (IN)	49	25	29	20	14	0	0	0	0	1	8	16	29	
	YEAR OF OCCURRENCE		1961	1961	1956	1982					1979	1971	1969	FEB 1961	
	NORMAL NO. DAYS WITH: SNOWFALL >= 1.0	30	3.0	2.2	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	10.1

**PRECIPITATION (inches) 2013 WINDSOR LOCKS (KBDL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	1.80	4.72	3.93	4.24	11.55	2.16	4.22	1.32	1.20	2.76	2.49	2.46	42.85
1985	0.73	1.72	2.16	1.54	2.77	3.55	4.55	6.44	3.83	2.27	6.04	1.28	36.88
1986	5.34	3.02	2.72	1.55	2.28	6.79	4.44	3.44	0.84	2.18	5.57	6.15	44.32
1987	6.20	0.45	4.44	5.23	2.18	3.66	2.27	4.25	7.19	3.67	3.66	1.57	44.77
1988	3.36	3.99	2.06	2.35	3.46	0.67	8.43	2.12	1.88	2.29	7.84	1.35	39.80
1989	0.88	1.85	3.02	3.33	12.00	6.65	3.40	6.81	4.67	7.62	2.89	1.49	54.61
1990	4.03	3.37	2.46	4.55	6.38	3.59	2.09	8.32	2.13	7.63	3.76	4.86	53.17
1991	2.45	1.78	4.52	3.54	5.18	2.37	2.90	8.69	5.67	3.17	4.03	2.96	47.26
1992	2.73	2.23	3.79	3.13	3.21	5.77	4.62	3.60	2.43	1.95	4.19	4.33	41.98
1993	2.63	2.90	6.67	4.71	1.92	2.63	4.90	1.80	5.35	4.15	3.27	4.16	45.09
1994	5.83	3.38	5.70	2.51	4.12	3.84	5.32	5.33	5.47	1.53	4.57	5.38	52.98
1995	3.84	3.24	1.89	2.60	2.63	1.02	2.58	3.81	3.15	9.46	4.38	2.32	40.92
1996	6.99	2.86	2.45	6.29	2.98	2.39	6.97	1.67	7.53	5.25	4.14	5.69	55.21
1997	3.15	1.38	3.60	2.43	3.37	1.90	3.92	7.33	0.97	1.65	5.87	2.18	37.75
1998	3.37	3.12	4.87	3.35	7.84	7.18	2.23	1.98	2.33	5.67	2.34	0.83	45.11
1999	5.26	3.50	4.28	1.10	3.23	0.72	2.59	2.66	11.22	3.54	3.54	2.47	44.11
2000	2.83	2.24	3.69	4.21	4.45	6.74	5.48	3.33	3.88	1.07	0.95	3.30	42.17
2001	1.35	2.90	6.13	1.22	4.71	5.12	0.97	3.71	3.10	0.76	0.86	2.20	33.03
2002	1.25	1.45	3.75	3.32	5.33	5.12	2.21	2.81	3.22	4.35	4.99	3.74	41.54
2003	2.21	3.39	3.67	2.62	4.95	6.27	2.65	5.76	11.13	5.16	3.14	4.96	55.91
2004	1.47	1.76	2.88	5.45	3.16	2.21	4.27	4.26	8.25	1.65	2.68	4.23	42.27
2005	4.47	2.83	3.69	5.69	2.07	2.84	7.38	2.34	1.47	16.32	4.35	3.67	57.12
2006	5.43	3.06	0.78	3.89	7.23	9.16	2.14	4.36	2.25	6.69	4.99	1.83	51.81
2007	2.81	1.54	3.71	7.54	3.73	3.62	4.54	0.98	1.17	3.39	3.03	4.33	40.39
2008	2.24	8.90	5.24	3.72	2.63	5.87	7.88	6.74	9.33	2.38	3.77	6.65	65.35
2009	2.90	1.30	2.59	3.37	3.43	6.27	11.17	2.85	1.78	4.86	2.27	5.50	48.29
2010	2.66	3.95	6.81	1.30	2.31	4.02	3.29	2.21	2.56	5.31	3.78	6.15	44.35
2011	4.03	4.91	5.67	5.51	3.99	6.75	1.72	11.67	9.65	6.52	3.81	5.00	69.23
2012	2.96	1.47	1.52	3.02	3.27	4.22	4.34	4.12	4.57	4.00	0.40	4.55	38.44
2013	1.75	3.76	2.60	1.67	6.36	10.79	4.19	6.88	3.58	2.19	4.02	3.92	51.71
POR= 65 YRS	3.37	3.10	3.84	3.81	3.85	3.96	3.57	4.07	4.07	3.88	3.85	3.88	45.25

WBAN : 14740

**AVERAGE TEMPERATURE (°F) 2013 WINDSOR LOCKS (KBDL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1984	21.8	34.3	31.4	48.0	56.0	69.8	71.8	73.2	59.8	55.2	41.5	35.7	49.9
1985	21.5	29.9	39.7	50.7	60.6	63.7	72.4	70.2	63.4	51.9	43.2	27.5	49.6
1986	27.4	26.2	38.7	51.0	61.7	66.0	72.3	69.5	61.8	51.4	38.3	33.1	49.8
1987	25.0	26.7	39.8	49.7	60.8	68.8	74.2	69.0	62.9	49.2	41.4	33.2	50.1
1988	23.1	28.3	38.5	47.4	59.7	66.7	75.2	74.5	62.2	47.6	42.3	29.3	49.6
1989	30.8	28.6	37.4	46.5	60.4	68.3	72.6	71.4	63.9	53.4	40.9	18.1	49.4
1990	34.7	33.0	40.2	49.2	56.7	69.0	74.4	73.3	64.0	57.4	44.5	36.7	52.8
1991	27.0	33.9	40.5	53.3	65.8	70.5	73.7	73.1	62.1	55.1	42.7	32.8	52.5
1992	28.6	30.3	34.6	46.4	58.5	66.4	69.9	69.1	62.6	49.2	40.6	31.2	49.0
1993	28.8	23.8	34.5	49.6	61.2	68.6	74.3	73.4	63.0	49.8	40.8	30.9	49.9
1994	18.8	23.2	36.1	50.9	58.3	71.1	77.1	70.0	63.7	52.6	46.1	35.0	50.2
1995	32.4	25.8	41.1	46.8	58.0	69.3	76.5	72.1	62.2	55.8	38.1	27.1	50.4
1996	25.1	27.7	34.3	49.6	58.3	69.3	71.2	71.9	62.9	51.1	38.1	35.8	49.6
1997	27.1	34.7	36.2	47.2	56.1	68.7	72.3	70.1	63.2	50.6	38.8	31.4	49.7
1998	32.6	36.2	40.3	49.9	62.9	67.0	72.9	73.6	65.7	52.6	41.6	36.8	52.7
1999	25.9	31.8	38.5	49.2	59.9	71.0	76.5	71.3	66.0	51.1	46.3	34.6	51.8
2000	24.0	31.0	43.7	47.8	59.6	67.7	69.6	69.6	62.1	51.8	40.9	25.4	49.4
2001	25.4	28.4	34.3	49.7	59.5	69.6	69.7	75.2	63.4	53.5	45.9	36.9	51.0
2002	34.0	34.6	39.1	52.0	57.1	67.3	75.2	73.9	66.7	50.2	40.4	29.9	51.7
2003	20.9	23.7	37.2	46.3	56.9	67.0	73.2	74.3	64.5	50.0	44.4	33.0	49.3
2004	18.7	29.5	38.9	49.6	61.5	66.8	72.1	71.6	64.9	51.4	42.5	30.4	49.8
2005	23.5	30.1	33.1	51.3	54.6	72.3	74.5	75.1	67.5	53.4	42.9	28.2	50.5
2006	33.1	30.0	37.8	51.2	58.8	69.0	76.6	72.0	63.1	52.0	46.8	38.0	52.4
2007	31.5	23.9	36.2	46.7	62.1	69.0	73.5	72.7	67.0	59.7	40.7	30.1	51.1
2008	29.5	29.6	37.4	51.8	57.6	70.7	75.6	70.0	65.0	51.1	41.3	32.2	51.0
2009	21.3	30.4	37.7	51.0	59.1	66.3	70.2	73.1	62.1	50.5	46.5	30.3	49.9
2010	27.5	31.0	45.0	54.7	63.3	70.7	77.2	73.4	67.6	53.3	42.6	28.5	52.9
2011	23.0	26.6	37.0	50.2	62.1	68.5	76.0	72.2	67.6	53.4	46.4	37.5	51.7
2012	31.6	35.8	47.1	52.0	63.8	68.5	76.2	74.1	64.4	55.6	40.0	35.3	53.7
2013	28.6	29.2	37.0	48.8	60.3	69.5	77.9	70.7	62.6	53.7	39.8	30.4	50.7
POR= 65 YRS	25.9	29.1	37.3	49.2	59.4	68.5	73.6	71.6	63.5	52.4	42.0	30.6	50.3

**HEATING DEGREE DAYS (base 65°F) 2013 WINDSOR LOCKS (KBDL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	3	3	186	298	698	896	1341	975	776	428	167	76	5847
1985-86	0	14	119	401	648	1157	1159	1081	809	413	174	63	6038
1986-87	14	32	135	422	793	981	1230	1065	773	452	191	29	6117
1987-88	1	31	100	481	700	981	1292	1057	817	523	186	75	6244
1988-89	9	23	112	539	672	1101	1054	1012	847	553	175	31	6128
1989-90	0	22	103	354	715	1444	935	890	763	478	251	21	5976
1990-91	5	0	112	276	608	873	1170	863	755	373	107	16	5158
1991-92	1	0	156	311	663	990	1122	1002	936	553	218	37	5989
1992-93	9	16	138	486	722	1042	1114	1148	935	454	139	43	6246
1993-94	3	4	142	464	722	1049	1424	1163	888	417	226	15	6517
1994-95	0	8	77	379	561	923	1005	1088	737	539	224	13	5554
1995-96	0	4	130	283	802	1169	1227	1078	944	465	241	19	6362
1996-97	1	2	120	424	802	900	1167	841	883	526	274	49	5989
1997-98	3	6	104	445	777	1036	998	801	769	447	101	59	5546
1998-99	1	3	61	378	694	873	1207	923	815	466	168	9	5598
1999-00	0	11	67	422	555	934	1264	978	657	512	210	65	5675
2000-01	3	17	154	398	716	1221	1217	1023	946	466	202	27	6390
2001-02	12	0	101	361	568	863	953	845	797	427	262	55	5244
2002-03	2	11	46	468	730	1081	1358	1151	853	555	248	51	6554
2003-04	0	3	57	459	612	986	1431	1021	801	459	140	47	6016
2004-05	2	5	64	411	667	1066	1284	972	980	409	317	14	6191
2005-06	4	0	47	369	658	1131	986	975	837	410	232	35	5684
2006-07	0	9	100	400	541	826	1035	1145	886	545	154	32	5673
2007-08	4	14	52	218	722	1077	1093	1019	847	391	237	11	5685
2008-09	0	4	85	424	704	1008	1350	964	842	447	198	42	6068
2009-10	3	12	118	443	548	1067	1155	947	610	311	132	20	5366
2010-11	1	0	46	362	670	1124	1294	1069	861	445	157	27	6056
2011-12	0	0	53	356	552	846	1028	839	552	400	110	36	4772
2012-13	0	0	93	286	746	914	1119	994	860	481	191	33	5717
2013-	2	0	131	350	749	1064							

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**COOLING DEGREE DAYS (base 65°F) 2013 WINDSOR LOCKS (KBDL)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1984	0	0	0	0	11	182	218	265	38	4	0	0	718
1985	0	0	0	3	37	44	234	182	78	3	0	0	581
1986	0	0	0	0	79	103	249	179	48	7	0	0	665
1987	0	0	0	3	70	150	292	161	42	0	0	0	718
1988	0	0	0	0	27	134	331	326	37	6	0	0	861
1989	0	0	0	0	37	136	240	224	77	0	0	0	714
1990	0	0	0	13	1	146	305	263	89	48	1	0	866
1991	0	0	0	29	139	191	278	257	76	12	0	0	982
1992	0	0	0	0	21	85	170	151	74	2	0	0	503
1993	0	0	0	0	28	155	297	271	89	0	0	0	840
1994	0	0	0	1	25	205	381	173	43	0	0	0	828
1995	0	0	0	0	11	151	363	230	57	1	0	0	813
1996	0	0	0	9	42	155	200	221	63	0	0	0	690
1997	0	0	0	0	5	168	237	172	58	6	0	0	646
1998	0	0	13	1	42	127	254	273	89	0	0	0	799
1999	0	0	0	0	17	194	368	210	101	0	0	0	890
2000	0	0	0	0	46	154	152	166	77	1	0	0	596
2001	0	0	0	11	40	170	166	322	60	12	0	0	781
2002	0	0	0	43	25	132	322	293	104	17	0	0	936
2003	0	0	0	0	3	119	261	299	46	0	0	0	728
2004	0	0	0	2	40	108	228	216	68	0	0	0	662
2005	0	0	0	3	0	238	306	321	129	16	0	0	1013
2006	0	0	0	1	44	164	367	234	49	1	0	0	860
2007	0	0	0	3	69	158	272	259	120	59	0	0	940
2008	0	0	0	1	12	190	336	165	91	2	0	0	797
2009	0	0	0	33	21	89	172	271	38	0	0	0	624
2010	0	0	0	11	86	196	383	270	129	5	0	0	1080
2011	0	0	0	8	73	139	345	230	137	3	0	0	935
2012	0	0	4	17	84	147	355	292	81	1	0	0	981
2013	0	0	0	0	54	175	413	182	65	5	0	0	894

**SNOWFALL (inches) 2013 WINDSOR LOCKS (KBDL)**

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1984-85	0.0	0.0	0.0	0.0	0.1	3.8	6.9	9.4	2.1	1.4	0.0	0.0	23.7
1985-86	0.0	0.0	0.0	0.0	2.0	5.4	5.1	11.8	0.2	0.8	0.0	0.0	25.3
1986-87	0.0	0.0	0.0	0.0	8.7	4.9	34.0	1.6	1.7	0.4	0.0	0.0	51.3
1987-88	0.0	0.0	0.0	T	8.6	5.8	22.6	17.6	4.9	T	T	0.0	59.5
1988-89	0.0	0.0	0.0	0.0	0.0	6.3	0.6	4.6	3.4	T	T	0.0	14.9
1989-90	0.0	0.0	0.0	0.0	5.3	12.4	10.5	9.0	4.3	1.5	0.0	0.0	43.0
1990-91	0.0	0.0	0.0	0.0	T	8.1	10.2	5.8	5.7	0.0	0.0	0.0	29.8
1991-92	0.0	0.0	0.0	0.0	0.7	6.0	1.7	5.3	7.3	2.6	0.0	0.0	23.6
1992-93	0.0	0.0	0.0	T	T	6.7	10.5	13.8	31.1	T	0.0	T	62.1
1993-94	0.0	0.0	0.0	0.0	T	6.7	31.3	29.4	17.5	0.0	T	0.0	84.9
1994-95	0.0	0.0	0.0	0.0	3.9	1.1	5.7	10.1	0.0	1.5	0.0	0.0	22.3
1995-96	0.0	0.0	0.0	0.0	5.6	20.3	42.8	20.6	17.8				
1996-97													
1997-98													
1998-99													
1999-00													
2000-01						8.0	10.4	21.4	13.5	0.0			
2001-02						3.0							
2002-03						13.6	15.6	21.4	11.1	2.3	0.0	0.0	
2003-04	0.0	0.0	0.0	T	T	23.4	11.1	4.0	7.0	0.0	0.0	0.0	45.5
2004-05	0.0	0.0	0.0	0.0	1.5	9.6	27.7	16.3	19.0	0.0	0.0	0.0	74.1
2005-06	0.0	0.0	0.0	0.0	3.3	16.6	21.8	22.2	4.8	1.2	0.0	0.0	69.9
2006-07	0.0	0.0	0.0	0.0	0.0	T	1.2	11.2	11.6	T	0.0	0.0	24.0
2007-08	0.0	0.0	0.0	0.0	1.0	18.8	10.6	12.9	4.2	0.0	T	0.0	47.5
2008-09	0.0	T	0.0	0.0	T	20.7	12.9	3.9	8.0	0.0	0.0	0.0	45.5
2009-10	0.0	0.0	0.0	T	0.0	12.8	6.4	11.4	T	0.0	0.0	0.0	30.6
2010-11	0.0	0.0	0.0	0.0	T	14.2	54.3	15.6	1.0	1.3	0.0	0.0	86.4
2011-12	0.0	0.0	0.0	12.3	0.0	T	6.8	5.9	1.7	0.0	0.0	0.0	26.7
2012-13	0.0	0.0	0.0	0.0	2.9	12.9	5.9	25.4	9.8	0.0	0.0	0.0	56.9
2013-	0.0	0.0	0.0	T	T	12.7							
POR= 57 YRS	0.0	T	0.0	0.3	1.8	10.2	13.5	12.2	8.9	1.2	T	T	48.1

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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). 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. 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: <a href="http://www.ncdc.noaa.gov/homr/">http://www.ncdc.noaa.gov/homr/</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 "Summary of the Day First Order Station" and "Cooperative Summary of the Day" archives.</p>
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# 2013

## Windsor Locks

### CONNECTICUT (KBDL)

Bradley International Airport is located about 3 miles west of the Connecticut River on a slight rise of ground in a broad portion of the Connecticut River Valley between north-south mountain ranges whose heights do not exceed 1,200 feet.

The station is in the northern temperate climate zone. The prevailing west to east movement of air brings the majority of weather systems into Connecticut from the west. The average wintertime position of the Polar Front boundary between cold, dry polar air and warm, moist tropical air is just south of New England, which helps to explain the extensive winter storm activity and day to day variability of local weather. In summer, the Polar Front has an average position along the New England-Canada border with this station in a warm and pleasant atmosphere.

The location of Hartford, relative to continent and ocean, is also significant. Rapid weather changes result when storms move northward along the mid-Atlantic coast, frequently producing strong and persistent northeast winds associated with storms known locally as coastals or northeasters. Seasonally, weather characteristics vary from the cold and dry continental-polar air of winter to the warm and humid maritime air of summer.

Summer thunderstorms develop in the Berkshire Mountains to the west and northwest, move over the Connecticut Valley, and when accompanied by wind and hail, sometimes cause considerable damage to crops, particularly tobacco. During the winter, rain often falls through cold air trapped in the valley, creating extremely hazardous ice conditions. On clear nights in the late summer or early autumn, cool air drainage into the valley, and moisture from the Connecticut River, produce steam and/or ground fog which becomes quite dense throughout the valley, hampering ground and air transportation.

The mean date of the last springtime temperature of 32 degrees or lower is April 22, and the mean date of the first autumn temperature of 32 degrees is October 15.

# Station History

WINDSOR LOCKS, CT

NAME	Begin Date	End Date	Latitude	Longitude	Elevation Feet	Relocation	Platform
HARTFORD BRADLEY INTL AP	1996-04-01	2009-10-09	41° 56'	-72° 40'	160		ASOS, COOP
HARTFORD BRADLEY INTL AP	1969-01-01	1981-12-31	41° 55'	-72° 40'	169		COOP, WXSVC
HARTFORD BRADLEY FIELD	1947-04-01	1949-01-01	41° 55'	-72° 40'			AIRWAYS
HARTFORD BRADLEY FIELD	1949-01-01	1953-01-01	41° 55'	-72° 40'	174		AIRWAYS, COOP
HARTFORD BRADLEY FIELD	1959-01-01	1966-12-01	41° 55'	-72° 40'	169		AIRWAYS, COOP
HARTFORD BRADLEY INTL AP	1966-12-01	1969-01-01	41° 55'	-72° 40'	169		AIRWAYS, COOP
HARTFORD BRADLEY INTL AP	1981-12-31	1982-01-01	41° 55'	-72° 40'	169		COOP
HARTFORD BRADLEY INTL AP	1982-01-01	1996-04-01	41° 55'	-72° 40'	160		COOP
HARTFORD BRADLEY INTL AP	2009-10-09	Present	41° 56'	-72° 40'	190		ASOS, COOP
HARTFORD BRADLEY FIELD	1953-01-01	1959-01-01	41° 55'	-72° 40'	213		AIRWAYS, COOP

# Element History

Element	Begin Date	End Date	Frequency	Time Of Observation	Equipment *	Equipment * Modifications	Equipment Exposure
TEMP	1957-01-01	1990-10-01	DAILY	2400			
PRECIP	1992-01-01	1995-07-01	HOURLY	2400			
PRECIP	1995-07-01	2009-10-09	HOURLY	2400	UNIV	RCRD	ROOF
TEMP	2009-10-09	Present	DAILY	2400	HYGR		
PRECIP	2009-10-09	Present	DAILY	2400	PCPNX		
PRECIP	2009-10-09	Present	HOURLY	2400	AWPAG	RCRD;HTD	
PRECIP	1947-04-01	1957-01-01	DAILY	2400	UNIV	RCRD	
TEMP	1947-04-01	1957-01-01	DAILY	2400			
PRECIP	1990-10-01	1992-01-01	DAILY	2400	UNIV	RCRD	ROOF
PRECIP	1992-01-01	1995-07-01	DAILY	2400	UNIV	RCRD	ROOF
TEMP	1992-01-01	1995-07-01	DAILY	2400	HYGR		
PRECIP	1957-01-01	1990-10-01	HOURLY	2400			
TEMP	1995-07-01	2009-10-09	DAILY	2400	HYGR		
PRECIP	1990-10-01	1992-01-01	HOURLY	2400			
PRECIP	1957-01-01	1990-10-01	DAILY	2400	UNIV	RCRD	
TEMP	1990-10-01	1992-01-01	DAILY	2400			
PRECIP	1995-07-01	2009-10-09	DAILY	2400	UNIV	RCRD	ROOF

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