

2005

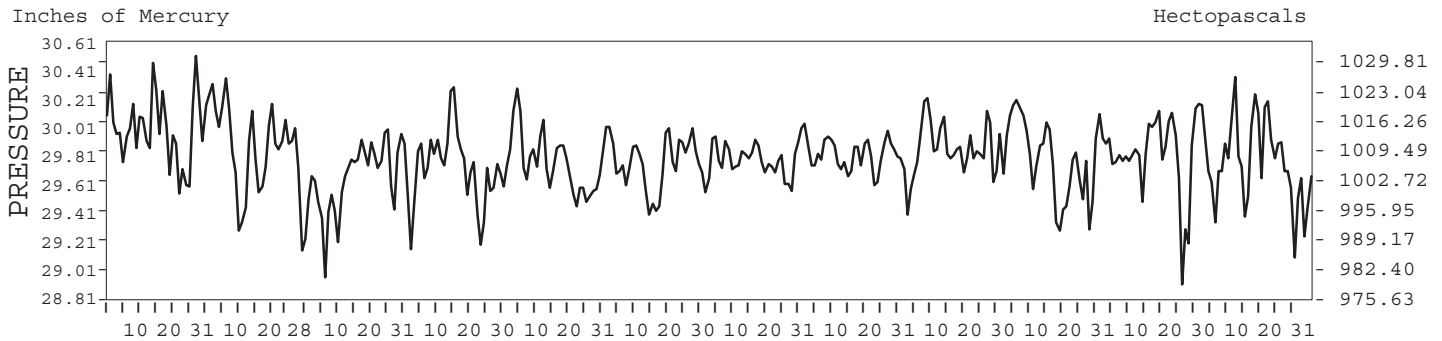
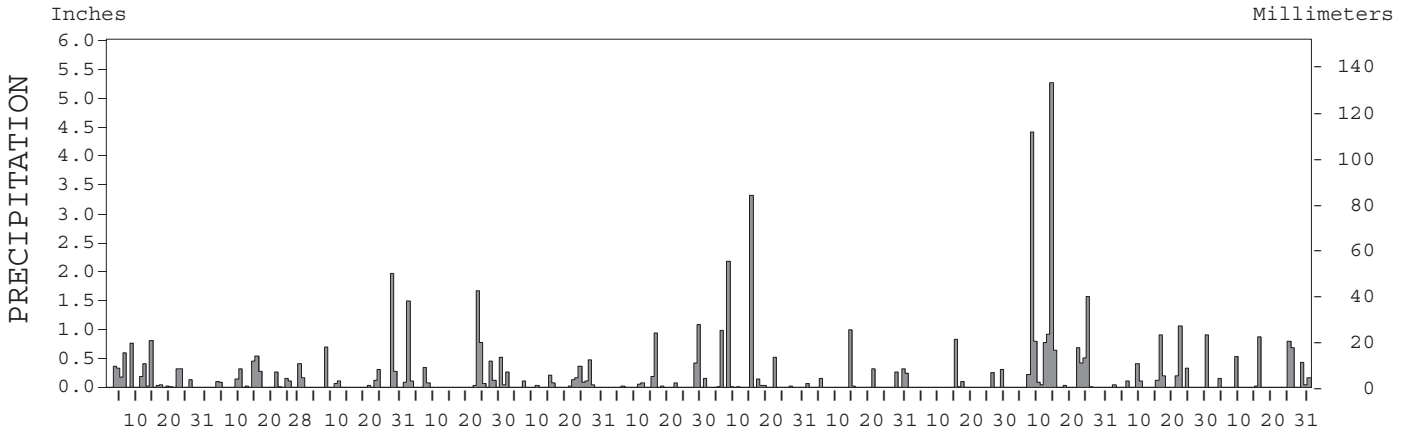
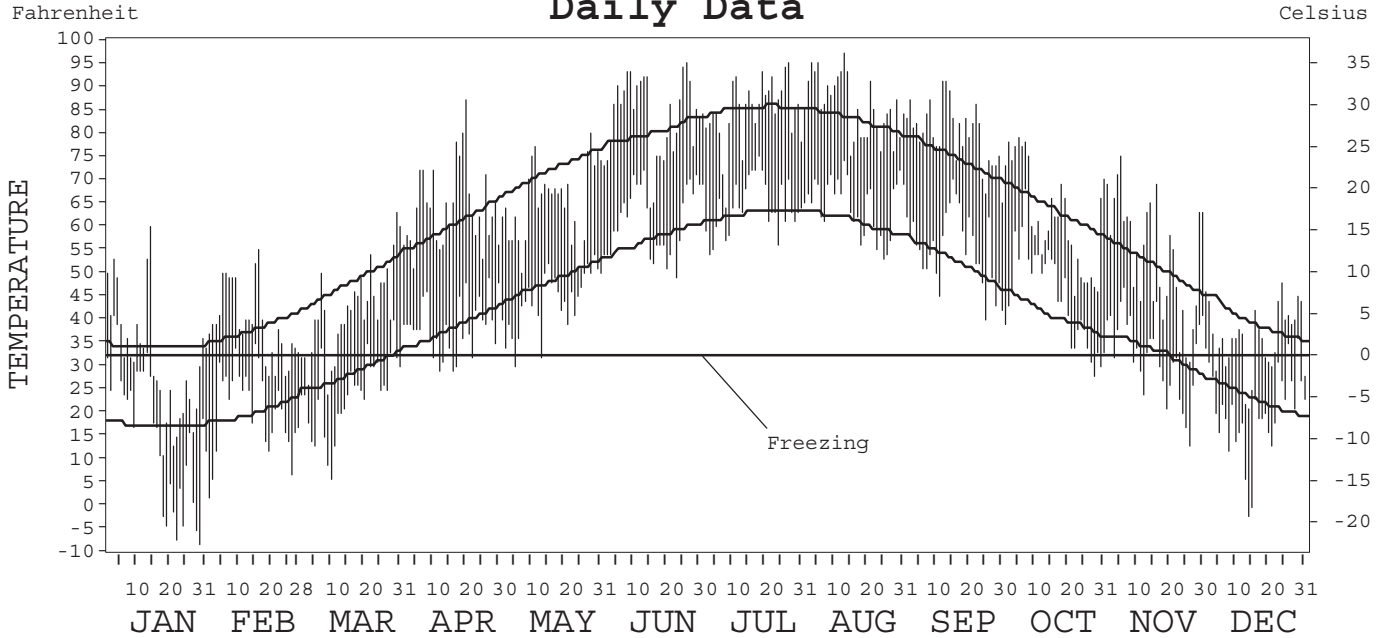
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1137

Windsor Locks,
CONNECTICUT (BDL)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2005

WINDSOR LOCKS, CT (BDL)

LATITUDE: 41° 56' 17" N LONGITUDE: 72° 40' 57" W ELEVATION (FT): GRND: 162 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	31.4	39.1	42.2	64.1	65.0	83.3	84.6	85.7	79.7	61.9	53.4	35.9	60.5	
	HIGHEST DAILY MAXIMUM	60	55	63	87	80	95	97	97	91	79	75	48	97	
	DATE OF OCCURRENCE	14	16	30	20	28	26	19	13	13+	05	05	24	AUG 13	
	MEAN DAILY MINIMUM	15.5	21.0	24.0	38.5	44.1	61.2	64.3	64.5	55.2	44.9	32.3	20.5	40.5	
	LOWEST DAILY MINIMUM	-8	2	6	29	30	49	54	53	40	28	13	-2	-8	
	DATE OF OCCURRENCE	29	01	10	16+	05	23	03	25	25	28	26	14	JAN 29	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	21.6	26.7	29.9	44.2	49.0	65.5	67.8	68.0	61.0	49.8				
	MEAN DEW POINT	14.7	18.9	22.3	34.4	42.7	61.8	63.9	64.1	56.3	46.0				
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	10	6	11	2	0	0	0	29	
	MAXIMUM ≤ 32°	18	5	6	0	0	0	0	0	0	0	2	10	41	
	MINIMUM ≤ 32°	28	26	27	6	2	0	0	0	0	3	15	28	135	
MINIMUM ≤ 0°	7	0	0	0	0	0	0	0	0	0	0	2	9		
H/C	HEATING DEGREE DAYS	1284	972	980	409	317	14	4	0	47	369	658	1131	6185	
	COOLING DEGREE DAYS	0	0	0	3	0	238	306	321	129	16	0	0	1013	
RH	MEAN (PERCENT)	70	66	66	59	68	74	72	73	71	79	68	69	70	
	HOUR 01 LST	75	74	72	72	82	86	85	87	85	87	77	72	80	
	HOUR 07 LST	78	77	79	69	79	82	80	85	85	89	78	79	80	
	HOUR 13 LST	61	52	55	43	50	57	57	53	51	65	54	59	55	
	HOUR 19 LST	67	61	60	50	60	67	67	68	68	77	65	66	65	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	6	2	3	0	2	0	1	1	0	3	4	3	25	
	THUNDERSTORMS	0	0	0	2	2	5	3	4	1	2	1	1	22	
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.)	30.01	29.90	29.63	29.73	29.76	29.77	29.79	29.80	29.88	29.80	29.82	29.76	29.80	
	MEAN SEA-LEVEL PRESS. (IN.)	30.21	30.10	29.83	29.92	29.95	29.96	29.98	29.99	30.07	29.99				
WINDS	RESULTANT SPEED (MPH)	4.8	4.5	4.8	0.4	3.2	2.3	1.8	1.3	1.6	3.9	3.0	3.8	2.0	
	RES. DIR. (TENS OF DEGS.)	35	34	32	27	01	19	24	23	26	35	27	30	32	
	MEAN SPEED (MPH)	7.8	7.7	8.9	8.9	8.2	7.3	6.9	6.3	6.4	9.0	7.9	7.5	7.7	
	PREVAIL. DIR. (TENS OF DEGS.)	01	01	32	18	01	18	18	18	19	02	19	01	01	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	31	36	36	30	28	39	39	33	35	35	29	39	
	DIR. (TENS OF DEGS.)	02	32	30	30	04	26	31	27	26	30	28	32	27	
	DATE OF OCCURRENCE	23	11	09+	28	25	29	22	05	29	17+	24	09	AUG 05	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	45	40	48	46	36	32	49	44	45	46	45	40	49	
DIR. (TENS OF DEGS.)	02	33	30	30	05	26	31	27	18	30	28	29	31		
DATE OF OCCURRENCE	23	11	09	28	25+	29	22	05	29	17	24	03+	JUL 22		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	0.81	0.99	2.16	2.42	0.56	1.08	3.32	1.01	0.82	5.81	1.25	1.45	5.81	
	DATE OF OCCURRENCE	13-14	14-15	28-29	23-24	26-27	29	15	14-15	15	14-15	21-22	25-26	OCT 14-15	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	16	13	9	12	14	9	12	8	5	15	11	9	133	
PRECIPITATION ≥ 0.10	11	9	7	8	8	4	6	6	3	11	10	7	90		
PRECIPITATION ≥ 1.00	0	0	1	2	0	1	2	0	0	3	1	0	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	27.7	16.3	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	16.6	82.9	
	GREATEST 24-HOUR (IN.)	6.4	4.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	10.5	10.5	
	DATE OF OCCURRENCE	22	28	08								24	09	DEC 09	
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	7	6	6	0	0	0	0	0	0	0	1	3	23		

NORMALS, MEANS, AND EXTREMES

WINDSOR LOCKS, CT (BDL)

LATITUDE: 41° 56' 17" N LONGITUDE: 72° 40' 57" W ELEVATION (FT): GRND: 162 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	34.1	37.7	47.7	59.9	71.7	80.0	84.9	82.5	74.3	63.1	50.9	39.0	60.5
	MEAN DAILY MAXIMUM	57	34.0	37.3	46.3	59.8	71.1	80.0	83.1	82.6	74.5	63.7	50.9	38.5	60.2
	HIGHEST DAILY MAXIMUM	51	66	73	89	96	99	100	102	102	99	91	81	76	102
	YEAR OF OCCURRENCE		2002	1985	1998	1976	1996	1964	1966	2001	1983	1963	1974	1998	AUG 2001
	MEAN OF EXTREME MAXS.	57	53.7	55.1	68.2	81.4	88.7	93.6	94.0	94.0	89.0	80.8	70.2	58.5	77.3
	NORMAL DAILY MINIMUM	30	17.2	19.9	28.3	37.9	48.1	57.0	62.4	60.7	52.1	40.6	32.6	22.6	40.0
	MEAN DAILY MINIMUM	57	17.3	19.7	27.7	37.7	47.4	56.9	61.0	60.5	52.0	41.1	32.6	22.0	39.7
	LOWEST DAILY MINIMUM	51	-26	-21	-6	9	28	35	44	36	30	17	1	-14	-26
	YEAR OF OCCURRENCE		1961	1961	2003	1970	2001	2002	1962	1965	2000	1978	1989	1980	JAN 1961
	MEAN OF EXTREME MINS.	57	-2.8	0.0	10.6	24.8	33.9	43.5	49.7	47.4	36.0	26.0	17.2	3.2	24.1
	NORMAL DRY BULB	30	25.7	28.8	38.0	48.9	59.9	68.5	73.7	71.6	63.2	51.9	41.8	30.8	50.2
	MEAN DRY BULB	57	25.6	28.5	36.8	48.8	59.3	68.6	72.2	71.6	63.4	52.4	41.7	30.2	49.9
	MEAN WET BULB	20	23.8	26.1	32.7	42.5	52.4	61.3	62.5	62.2	58.1	47.2	35.9	27.0	44.3
	MEAN DEW POINT	20	16.5	17.9	24.0	33.6	45.8	56.5	58.3	58.3	53.9	42.0	29.8	20.3	38.1
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	1.2	3.4	7.4	4.4	1.0	0.0	0.0	0.0	17.7	
MAXIMUM ≤ 32°	30	13.4	8.7	1.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	7.5	31.9	
MINIMUM ≤ 32°	30	28.1	24.9	20.9	7.6	0.5	0.0	0.0	0.0	0.3	6.1	16.2	26.4	131.0	
MINIMUM ≤ 0°	30	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	4.8	
H/C	NORMAL HEATING DEG. DAYS	30	1218	1024	844	486	195	38	3	12	120	413	697	1054	6104
	NORMAL COOLING DEG. DAYS	30	0	0	1	5	38	144	277	220	68	5	1	0	759
RH	NORMAL (PERCENT)	30	65	63	61	59	64	68	69	71	74	70	68	68	67
	HOUR 01 LST	30	70	68	68	69	77	81	82	85	86	82	75	72	76
	HOUR 07 LST	30	72	72	72	69	74	77	78	83	86	83	78	75	77
	HOUR 13 LST	30	56	52	49	45	48	51	51	54	55	52	55	57	52
	HOUR 19 LST	30	63	59	56	53	56	61	62	66	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)	51	2.6	2.5	2.4	1.4	1.7	2.2	2.0	2.3	2.6	3.1	2.2	2.8	27.8
	THUNDERSTORMS	51	0.1	0.2	0.7	1.3	2.7	4.0	4.4	3.7	2.1	1.0	0.4	0.1	20.7
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)	17	29.82	29.83	29.79	29.80	29.79	29.79	29.81	29.81	29.87	29.88	29.89	29.85	29.83
	MEAN SEA-LEVEL PRES. (IN)	21	30.05	30.05	30.02	29.97	29.96	29.93	29.98	30.01	30.05	30.08	30.06	30.06	30.02
WINDS	MEAN SPEED (MPH)	45	8.9	9.5	10.1	9.9	8.8	8.1	7.3	7.0	7.4	7.8	8.5	8.6	8.5
	PREVAIL. DIR (TENS OF DEGS)	31	32	32	32	18	18	18	18	18	18	18	36	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	46	38	43	41	39	45	39	39	38	38	39	41	46
	DIR. (TENS OF DEGS)		24	31	30	20	23	36	31	27	02	29	29	26	24
	YEAR OF OCCURRENCE		1999	2002	1997	2000	2002	2000	2005	2005	1999	1998	2003	2000	JAN 1999
	MAXIMUM 5-SECOND:														
SPEED (MPH)	9	56	58	54	53	61	52	60	44	46	46	54	55	61	
DIR. (TENS OF DEGS)		24	32	29	20	31	34	27	27	32	30	24	25	31	
YEAR OF OCCURRENCE		1999	2003	1997	2000	1998	2000	1999	2005	2002	2005	1998	2000	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	3.84	2.96	3.88	3.86	4.39	3.85	3.67	3.98	4.13	3.94	4.06	3.60	46.16
	MAXIMUM MONTHLY (IN)	51	9.61	7.27	6.86	9.90	12.00	13.60	8.43	21.87	11.22	16.32	8.53	8.36	21.87
	YEAR OF OCCURRENCE		1978	1981	1983	1983	1989	1982	1988	1955	1999	2005	1972	1969	AUG 1955
	MINIMUM MONTHLY (IN)	51	0.38	0.45	0.27	1.10	0.73	0.67	0.97	0.54	0.84	0.35	0.51	0.78	0.27
	YEAR OF OCCURRENCE		1981	1987	1981	1999	1959	1988	2001	1981	1986	1963	1976	1955	MAR 1981
	MAXIMUM IN 24 HOURS (IN)	51	2.56	2.16	2.62	3.01	4.90	6.14	3.48	12.12	5.72	5.81	2.90	3.12	12.12
	YEAR OF OCCURRENCE		1979	1965	1987	1979	1989	1982	1960	1955	1999	2005	1988	1973	AUG 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	11.4	10.1	11.9	11.3	12.6	11.3	9.9	10.0	9.7	9.0	10.3	11.6	129.1	
PRECIPITATION ≥ 1.00	30	0.9	0.7	1.0	1.0	1.1	1.0	0.9	1.2	1.1	1.1	1.2	1.0	12.2	
SNOWFALL	NORMAL (IN)	30	14.4	11.1	7.9	1.5	0.1	0.0	0.0	0.0	0.1	2.5	8.4	46.0	
	MAXIMUM MONTHLY (IN)	46	42.8	32.2	43.3	14.3	1.3	T	0.0	0.0	0.0	1.7	8.7	35.4	43.3
	YEAR OF OCCURRENCE		1996	1969	1956	1982	1977	1993				1979	1986	1969	MAR 1956
	MAXIMUM IN 24 HOURS (IN)	46	14.9	21.0	14.8	14.1	1.3	T	0.0	0.0	0.0	1.7	8.6	13.9	21.0
	YEAR OF OCCURRENCE		1996	1983	1993	1982	1977	1993				1979	1980	1969	FEB 1983
	MAXIMUM SNOW DEPTH (IN)	49	25	29	20	14	0	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	3.3	2.5	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.6	11.6	

PRECIPITATION (inches) 2005 Windsor Locks, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	5.57	3.11	2.86	3.93	4.45	2.86	3.51	5.76	2.55	4.10	0.51	2.97	42.18
1977	2.41	2.81	6.57	4.89	3.70	3.99	3.37	2.44	8.17	5.45	4.38	5.68	53.86
1978	9.61	1.42	3.63	1.51	4.61	2.94	2.51	3.61	2.67	1.75	2.12	4.23	40.61
1979	9.12	2.83	4.25	5.88	3.48	0.91	1.97	4.44	2.95	4.76	3.46	2.57	46.62
1980	0.72	0.98	5.87	5.39	1.65	3.81	2.65	1.60	1.40	2.58	4.22	0.82	31.69
1981	0.38	7.27	0.27	2.92	2.17	1.37	4.21	0.54	4.49	5.19	2.34	4.00	35.15
1982	4.76	2.83	2.23	4.12	3.30	13.60	2.60	4.41	2.41	3.31	3.12	1.32	48.01
1983	4.68	3.83	6.86	9.90	4.82	2.61	1.07	2.55	2.10	5.52	6.09	5.97	56.00
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
POR= 54 YRS	3.46	3.09	3.78	3.74	3.78	3.70	3.50	3.89	3.87	3.45	3.72	3.69	43.67

WBAN : 14740

AVERAGE TEMPERATURE (°F) 2005 Windsor Locks, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	19.5	34.8	40.3	53.3	58.4	72.7	72.4	71.0	62.4	49.9	38.3	24.8	49.8
1977	18.7	27.6	42.9	51.2	63.6	68.0	74.5	72.8	64.0	52.0	44.4	28.0	50.6
1978	23.6	22.1	35.1	48.1	59.9	69.2	71.9	70.0	58.6	49.0	38.6	29.3	48.0
1979	26.6	18.0	41.2	49.0	64.1	69.0	74.6	70.8	61.6	50.7	45.5	33.6	50.4
1980	27.6	24.3	35.2	49.2	61.0	66.4	74.2	73.2	64.9	50.3	37.9	24.6	49.1
1981	17.8	35.3	38.1	52.0	61.6	69.6	74.8	70.6	62.5	49.3	43.7	31.0	50.5
1982	18.8	29.2	36.7	45.8	61.4	65.0	74.4	69.5	63.0	51.5	45.8	36.0	49.8
1983	27.1	29.1	39.2	48.9	56.8	69.9	74.9	72.7	66.5	52.5	42.7	28.1	50.7
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	54.3	34.5	49.6	61.2	68.6	74.3	73.4	63.0	49.8	40.8	30.9	52.4
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
POR= 101 YRS	26.6	28.1	37.2	48.2	59.2	67.9	72.4	71.0	63.5	52.9	42.1	30.7	50.0

HEATING DEGREE DAYS (base 65°F) 2005 Windsor Locks, CT (BDL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0	16	118	467	794	1242	1429	1038	684	419	130	45	6382
1977-78	1	8	112	399	610	1141	1276	1192	920	500	220	25	6404
1978-79	9	15	209	489	790	1102	1184	1310	730	473	81	26	6418
1979-80	16	30	152	442	578	965	1151	1174	916	466	146	68	6104
1980-81	0	0	99	449	808	1246	1456	824	828	380	149	10	6249
1981-82	0	9	115	481	635	1048	1427	996	871	569	128	64	6343
1982-83	1	30	96	416	575	894	1170	1002	793	483	261	24	5745
1983-84	0	7	106	404	662	1135	1332	884	1035	503	286	32	6386
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-	4	0	47	369	658	1131							

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COOLING DEGREE DAYS (base 65°F) 2005 Windsor Locks, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	0	0	47	18	257	236	208	47	6	0	0	819
1977	0	0	4	13	93	144	303	259	88	1	0	0	905
1978	0	0	0	0	71	159	228	173	26	0	0	0	657
1979	0	0	0	0	60	151	320	218	56	6	0	0	811
1980	0	0	0	0	31	117	296	263	107	1	0	0	815
1981	0	0	0	0	53	152	311	190	48	0	0	0	754
1982	0	0	0	0	22	70	298	176	45	2	3	0	616
1983	0	0	0	5	16	177	313	253	158	23	0	0	945
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

SNOWFALL (inches) 2005 Windsor Locks, CT (BDL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	0.4	7.3	20.0	9.1	11.0	0.3	1.3	0.0	49.4
1977-78	0.0	0.0	0.0	0.0	1.3	12.6	37.0	18.1	13.3	T	0.0	0.0	82.3
1978-79	0.0	0.0	0.0	0.0	4.3	10.3	8.6	9.2	T	3.6	0.0	0.0	36.0
1979-80	0.0	0.0	0.0	1.7	0.0	0.9	0.2	7.7	5.9	T	0.0	0.0	16.4
1980-81	0.0	0.0	0.0	0.0	8.6	3.9	4.1	0.9	0.2	0.0	0.0	0.0	17.7
1981-82	0.0	0.0	0.0	T	T	13.1	16.7	5.8	6.5	14.3	0.0	0.0	56.4
1982-83	0.0	0.0	0.0	0.0	T	5.7	10.2	29.4	0.2	0.9	0.0	0.0	46.4
1983-84	0.0	0.0	0.0	0.0	T	7.9	14.7	1.3	19.3	T	0.0	0.0	43.2
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-	0.0	0.0	0.0	0.0	3.3	16.6							
POR= 44 YRS	0.0	0.0	0.0	0.1	2.0	10.7	13.1	11.8	9.9	1.5	T	T	49.1

WBAN : 14740

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.</p>	<p>GENERAL CONTINUED: 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. 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.</p> <p>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.</p>
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2005
Windsor Locks,
CONNECTICUT (BDL)

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 LOCATION

Windsor Locks, CONNECTICUT

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE		ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
				NORTH	WEST	GROUND											
						SEA LEVEL	GROUND	WIND	EXTREME	PSYCHROMETER	SUNSHINE	TIPPING GAUGE	WEIGHING	8 INCH	HYGROMETER		
*NOTE: <u>AIRPORT</u>																	
Administration Building Bradley Field* Windsor Locks	2/20/53	04/01/96	1/2 mi. WSW	41°56'	72°41'	169	f20 m33	kd6	d6 j45	%56	e4	h47	i45	g4	CAA to 8/9/54; WB thereafter. d. 47 feet to 3/1/56. e. Added 5/24/56. f. 99 feet to 4/30/59. g. Telepsychrometer (6') 3/1/56-6/1/60. Hygro. added 12/31/59. h. 6 feet to 6/14/67. i. 3 feet to 6/14/67 j. Effective 7/1/68. k. Removed prior to 1969. m. Effective 8/31/79. %. commissioned 2/6/59.		
*Name changed to Bradley International Airport in 1966.																	
Bradley Int'l Airport	04/01/96	Present	NA	41°56'	72°41'	n162									S ASOS Commissioned 04/01/96 n. Ground Elevation		

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* NOTES: For earlier station history see previous editions.