

1999

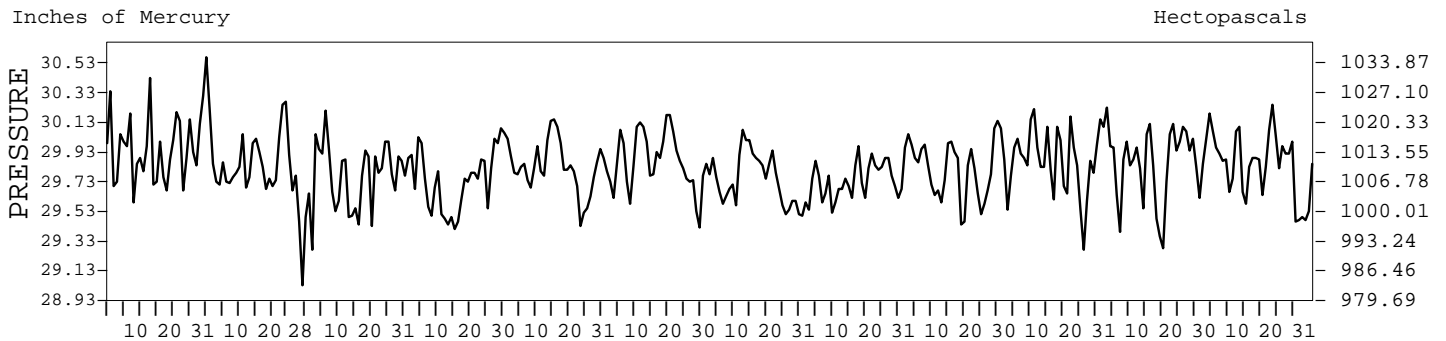
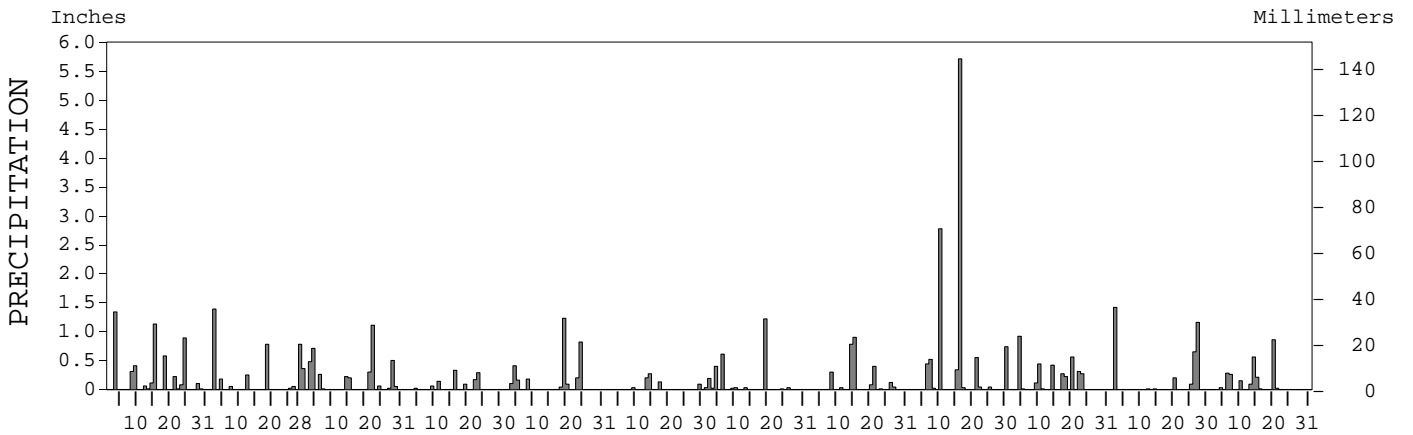
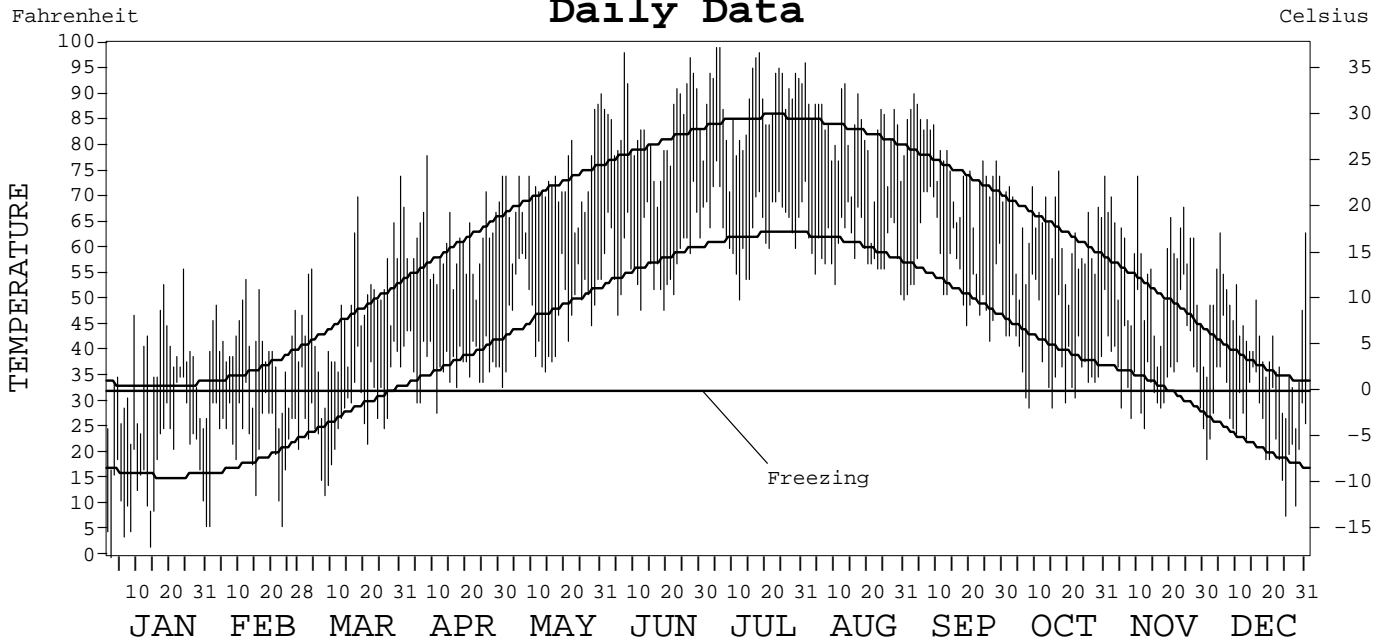
LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-1137

HARTFORD,
CONNECTICUT (BDL)

Daily Data



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Thomas R. Karl

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL ENVIRONMENTAL AND INFORMATION SERVICE
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 ASHEVILLE, NORTH CAROLINA

METEOROLOGICAL DATA FOR 1999

HARTFORD, CT (BDL)

LATITUDE: 41° 56' 17" N LONGITUDE: 72° 40' 57" W ELEVATION (FT): GRND: 198 BARO: 198 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	34.3	40.5	48.4	60.8	72.1	83.7	88.5	82.2	76.1	62.7	55.9	42.9	62.3	
	HIGHEST DAILY MAXIMUM	56	54	74	78	90	98	99	96	90	75	74	63	99	
	DATE OF OCCURRENCE	24	12	31	08	31	07	06+	01	03	17	10	31+	JUL 06+	
	MEAN DAILY MINIMUM	17.4	23.1	28.5	37.5	47.7	58.2	64.5	60.3	55.8	39.5	36.6	26.2	41.3	
	LOWEST DAILY MINIMUM	0	6	12	28	33	47	50	50	42	29	25	8	0	
	DATE OF OCCURRENCE	02	23+	08	11	01	05	12	31	26	15+	30+	25	JAN 02	
	AVERAGE DRY BULB	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	
	MEAN WET BULB	24.1	28.0	32.5	41.6	53.9			63.9		47.1		30.8		
	MEAN DEW POINT	18.1	19.0	21.7	30.1	47.5			59.1		42.4		22.8		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	1	8	14	4	1	0	0	0	0	28
	MAXIMUM ≤ 32°	12	4	2	0	0	0	0	0	0	0	0	3	21	
MINIMUM ≤ 32°	28	27	21	3	0	0	0	0	0	5	10	23	117		
MINIMUM ≤ 0°	1	0	0	0	0	0	0	0	0	0	0	0	1		
H/C	HEATING DEGREE DAYS	1207	923	815	466	168	9	0	11	67	422	555	934	5577	
	COOLING DEGREE DAYS	0	0	0	0	17	194	368	210	101	0	0	0	890	
RH	MEAN (PERCENT)	72	62	55	52	67	65	66	70	79	74	72	65	67	
	HOUR 01 LST	76	70	65	65	81	82	83	84	90	88	80	70	78	
	HOUR 07 LST	78	72	67	61	77	76	77	83	90	90	80	74	77	
	HOUR 13 LST	63	52	44	35	53	45	46	53	61	51	57	53	51	
	HOUR 19 LST	73	59	48	47	58	58	60	62	76	73	69	63	62	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	5	2	1	2	1	0	2	2	1	2	5	3	26	
	THUNDERSTORMS	1	0	1	0	1	0	5	1	1	1	0	0	11	
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.)	29.97	29.85	29.74	29.73	29.84	29.86	29.74	29.76	29.80	29.90	29.85	29.83	29.82	
	MEAN SEA-LEVEL PRESS. (IN.)	30.17	30.04	29.93	29.93	30.03			29.94		30.09		30.05		
WINDS	RESULTANT SPEED (MPH)	1.5	2.5	4.3	4.0	1.1	2.6	0.9	1.8	1.2	2.2	3.4	3.8	1.8	
	RES. DIR. (TENS OF DEGS.)	29	34	29	33	28	18	26	32	21	26	27	31	29	
	MEAN SPEED (MPH)	7.7	8.3	11.5	9.1	7.2	7.6	6.9	6.8	7.1	7.4	9.4	7.5	8.0	
	PREVAIL. DIR. (TENS OF DEGS.)	05	29	28	01	02	19	19	36	18	19	19	01	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	46	31	39	34	28	31	39	23	38	33	36	36	46	
	DIR. (TENS OF DEGS.)	24	28	17	30	26	27	27	30	02	30	15	30	24	
	DATE OF OCCURRENCE	18	10	04	07	25	07	19	09	16	14	02	11	JAN 18	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	56	40	52	44	34	39	60	28	46	45	46	52	60	
DIR. (TENS OF DEGS.)	24	29	17	29	26	27	27	19	31	30	14	29	27		
DATE OF OCCURRENCE	18	05	04	07	25	07	19	17+	17	14	02	11	JUL 19		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	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	
	GREATEST 24-HOUR (IN.)	1.34	1.39	1.41	0.33	1.29	0.47	1.22	1.19	5.72	0.92	1.68	0.88	5.72	
	DATE OF OCCURRENCE	03	02	21-22	16	19-20	13-14	19	14-15	16	04	26-27	20-21	SEP 16	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	14	8	13	7	9	5	11	9	11	11	7	10	115	
PRECIPITATION ≥ 0.10	9	5	9	4	7	3	4	5	7	9	4	6	72		
PRECIPITATION ≥ 1.00	2	1	1	0	1	0	1	0	2	0	2	0	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

NORMALS, MEANS, AND EXTREMES

HARTFORD, CT (BDL)

LATITUDE: 41° 56' 17" N LONGITUDE: 72° 40' 57" W ELEVATION (FT): GRND: 198 BARO: 198 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	33.2	36.4	46.8	59.9	71.6	80.0	85.0	82.7	74.8	63.7	51.0	37.5	60.2
	MEAN DAILY MAXIMUM	51	34.2	37.3	46.2	59.8	71.4	80.0	83.1	82.4	74.3	63.9	50.8	38.5	60.2
	HIGHEST DAILY MAXIMUM	45	65	73	89	96	99	100	102	101	99	91	81	76	102
	YEAR OF OCCURRENCE		1967	1985	1998	1976	1996	1964	1966	1975	1983	1963	1974	1998	JUL 1966
	MEAN OF EXTREME MAXS.	51	53.6	55.1	68.5	80.8	88.8	93.6	93.9	93.7	89.4	80.9	70.1	58.3	77.2
	NORMAL DAILY MINIMUM	30	15.8	18.6	28.1	37.5	47.6	56.9	62.2	60.4	51.8	40.7	32.8	21.3	39.5
	MEAN DAILY MINIMUM	51	17.3	19.6	27.7	37.6	47.5	56.8	61.0	60.2	51.7	41.0	32.6	21.9	39.6
	LOWEST DAILY MINIMUM	45	-26	-21	-6	9	28	37	44	36	30	17	1	-14	-26
	YEAR OF OCCURRENCE		1961	1961	1967	1970	1985	1986	1962	1965	1979	1978	1989	1980	JAN 1961
	MEAN OF EXTREME MINS.	51	-2.8	-6	10.6	24.7	34.2	43.7	49.5	47.0	35.6	26.1	17.5	2.9	24.0
	NORMAL DRY BULB	30	24.6	27.5	37.5	48.7	59.6	68.5	73.7	71.6	63.3	52.2	41.9	29.5	49.9
	MEAN DRY BULB	51	25.6	28.5	36.9	48.7	59.4	68.5	72.1	71.3	63.2	52.4	41.6	30.1	49.9
	MEAN WET BULB	16	24.2	26.1	32.7	42.3	52.5	61.1	61.5	60.3	57.5	47.1	34.7	26.5	43.9
	MEAN DEW POINT	16	16.9	17.7	23.7	33.2	45.6	55.9	57.4	56.4	53.3	41.7	28.6	19.6	37.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.3	1.1	3.6	8.0	4.8	1.3	*	0.0	0.0	19.1	
MAXIMUM ≤ 32°	30	14.1	9.4	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.5	9.5	35.2	
MINIMUM ≤ 32°	30	28.8	25.4	21.4	8.5	0.8	0.0	0.0	0.0	0.3	6.4	16.6	26.9	135.1	
MINIMUM ≤ 0°	30	3.2	1.7	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	6.0	
H/C	NORMAL HEATING DEG. DAYS	30	1252	1050	853	489	194	20	0	6	96	397	693	1101	6151
	NORMAL COOLING DEG. DAYS	30	0	0	0	0	27	125	270	210	45	0	0	0	677
RH	NORMAL (PERCENT)	30	64	63	60	58	63	67	68	71	73	69	68	68	66
	HOUR 01 LST	30	69	68	68	68	76	80	82	84	85	80	75	73	76
	HOUR 07 LST	30	71	72	71	69	73	77	78	82	86	83	78	75	76
	HOUR 13 LST	30	56	54	50	45	47	51	51	53	54	51	56	59	52
	HOUR 19 LST	30	62	60	56	52	56	60	61	65	70	67	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)	45	2.5	2.4	2.2	1.4	1.7	2.2	2.0	2.2	2.9	3.2	2.2	2.7	27.6
	THUNDERSTORMS	45	0.1	0.2	0.7	1.2	2.4	3.9	4.5	3.6	2.1	1.0	0.4	0.1	20.2
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)	11	29.82	29.81	29.79	29.78	29.79	29.79	29.81	29.85	29.90	29.90	29.87	29.83	
	MEAN SEA-LEVEL PRES. (IN)	16	30.06	30.04	30.02	29.95	29.96	29.93	29.98	30.01	30.05	30.09	30.08	30.07	30.02
WINDS	MEAN SPEED (MPH)	39	9.0	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)	25	31	31	31	18	18	18	18	18	18	18	36	36	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	46	38	43	41	39	31	39	34	38	38	36	39	46
	DIR. (TENS OF DEGS)		24	24	30	05	28	27	27	28	02	29	15	27	24
	YEAR OF OCCURRENCE		1999	1997	1997	1998	1998	1999	1999	1997	1999	1998	1999	1998	JAN 1999
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	3	56	49	54	47	61	40	60	41	46	46	54	52	61
DIR. (TENS OF DEGS)		24	29	29	05	31	26	27	28	31	28	24	29	31	
YEAR OF OCCURRENCE		1999	1997	1997	1998	1998	1998	1999	1997	1999	1998	1998	1999	MAY 1998	
PRECIPITATION	NORMAL (IN)	30	3.41	3.23	3.63	3.85	4.12	3.75	3.19	3.65	3.79	3.57	4.04	3.91	44.14
	MAXIMUM MONTHLY (IN)	45	9.61	7.27	6.86	9.90	12.00	13.60	8.43	21.87	11.22	11.61	8.53	8.36	21.87
	YEAR OF OCCURRENCE		1978	1981	1983	1983	1989	1982	1988	1955	1999	1955	1972	1969	AUG 1955
	MINIMUM MONTHLY (IN)	45	0.38	0.45	0.27	1.10	0.73	0.67	1.07	0.54	0.84	0.35	0.51	0.78	0.27
	YEAR OF OCCURRENCE		1981	1987	1981	1999	1959	1988	1983	1981	1986	1963	1976	1955	MAR 1981
	MAXIMUM IN 24 HOURS (IN)	45	2.56	2.16	2.62	3.01	4.90	6.14	3.48	12.12	5.72	4.45	2.90	3.12	12.12
	YEAR OF OCCURRENCE		1979	1965	1987	1979	1989	1982	1960	1955	1999	1959	1988	1973	AUG 1955
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.7	10.1	11.2	10.7	11.8	11.5	9.4	9.6	9.3	8.2	11.2	12.3	126.0	
PRECIPITATION ≥ 1.00	30	0.7	0.9	0.9	1.0	1.1	0.9	0.7	1.1	1.2	1.0	1.0	1.2	11.7	
SNOWFALL	NORMAL (IN)	30	12.8	12.2	7.7	1.3	0.*	0.0	0.0	0.0	0.0	0.1	2.3	11.0	47.4
	MAXIMUM MONTHLY (IN)	42	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)	42	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)	47	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	3.0	2.6	2.0	0.4	0.*	0.0	0.0	0.0	0.0	0.*	0.6	3.4	12.0	

PRECIPITATION (inches) 1999 HARTFORD, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0.39	5.15	4.28	4.12	3.59	2.49	1.49	3.18	3.20	2.08	4.31	4.15	38.43
1971	2.80	4.60	3.24	2.85	4.08	0.71	3.23	5.31	4.24	4.46	5.68	3.55	44.75
1972	2.02	5.12	6.71	4.61	7.49	9.66	3.84	3.45	1.84	4.20	8.53	7.08	64.55
1973	3.28	3.05	3.22	6.59	5.95	5.07	1.77	4.50	3.73	3.47	2.14	8.31	51.08
1974	4.10	1.95	4.49	3.64	3.03	2.38	2.39	3.36	8.57	2.34	2.62	4.52	43.39
1975	4.30	3.22	3.82	2.99	3.29	3.83	6.11	4.60	9.02	5.28	4.57	4.31	55.34
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
POR= 95 YRS	3.59	3.15	3.74	3.72	3.72	3.54	3.44	3.89	3.68	3.23	3.80	3.66	43.16

WBAN : 14740

AVERAGE TEMPERATURE (°F) 1999 HARTFORD, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	16.8	28.2	35.1	49.0	61.5	67.8	75.2	73.8	65.4	54.9	44.1	26.8	49.9
1971	19.4	29.0	35.4	46.3	58.1	71.0	73.7	72.2	67.7	58.3	39.6	32.8	50.3
1972	27.9	26.0	34.6	44.3	60.1	65.9	73.8	71.1	64.3	48.9	38.7	30.8	48.9
1973	29.4	27.2	43.3	50.4	58.0	71.8	75.0	76.4	64.7	54.7	43.6	32.9	52.3
1974	28.2	27.0	36.8	50.7	56.6	67.3	73.7	72.7	63.3	47.3	40.7	30.7	49.6
1975	31.2	29.7	35.9	45.8	64.6	68.3	76.1	71.8	61.7	55.7	48.2	28.5	51.5
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	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
POR= 95 YRS	26.7	28.0	37.1	48.2	59.2	67.9	72.4	71.0	63.5	52.9	42.1	30.6	50.0

WBAN : 14740

HEATING DEGREE DAYS (base 65°F) 1999 HARTFORD, CT (BDL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	89	322	619	1177	1410	1001	911	556	215	17	6317
1971-72	2	11	55	214	756	992	1140	1125	935	619	172	50	6071
1972-73	6	9	82	494	782	1054	1097	1051	665	444	229	13	5926
1973-74	0	0	102	322	635	988	1134	1056	868	435	287	37	5864
1974-75	2	1	121	542	725	1057	1040	986	894	567	111	43	6089
1975-76	0	11	121	292	503	1125	1403	869	759	391	213	20	5707
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-	0	11	67	422	555	934							

WBAN : 14740

COOLING DEGREE DAYS (base 65°F) 1999 HARTFORD, CT (BDL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	8	58	129	322	280	108	16	0	0	921
1971	0	0	0	0	7	201	274	243	142	11	4	0	882
1972	0	0	0	3	30	83	286	203	70	1	0	0	676
1973	0	0	0	11	19	221	318	362	99	8	0	0	1038
1974	0	0	0	11	34	110	282	247	77	0	3	0	764
1975	0	0	0	0	106	147	348	229	27	7	6	0	870
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

SNOWFALL (inches) 1999 HARTFORD, CT (BDL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	T	T	27.0	17.7	8.4	12.8	4.0	0.0	0.0	69.9
1971-72	0.0	0.0	0.0	0.0	8.2	6.6	2.9	24.9	13.2	2.7	0.0	0.0	58.5
1972-73	0.0	0.0	0.0	0.4	2.1	12.0	14.1	5.9	0.4	0.3	0.0	0.0	35.2
1973-74	0.0	0.0	0.0	0.0	T	3.1	14.3	5.8	4.8	2.1	0.0	0.0	30.1
1974-75	0.0	0.0	0.0	T	0.8	8.5	10.2	16.0	2.5	0.3	0.0	0.0	38.3
1975-76	0.0	0.0	0.0	0.0	0.3	13.4	15.6	5.0	12.3	0.0	0.0	0.0	46.6
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-													
POR= 41 YRS	0.0	0.0	0.0	0.1	2.1	10.3	12.7	11.7	9.8	1.5	0.0	T	48.2

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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999
HARTFORD,
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

HARTFORD, CONNECTICUT

LOCATION	OCCUPIED FROM	OCCUPIED TO	AIRLINE DISTANCES AND DIRECTIONS FROM PREVIOUS LOCATION	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE												AUCI M T S W	* Type M = AMOS T = AUTOB S = ASOS W = AWOS	REMARKS
						SEA LEVEL	GROUND													
							U R B A N E L E V A T I O N	W I N D I N S T R U M E N T	E M E R G E N C Y	R O O F T O P	S U R F A C E	T E L E P S Y C H R O M E T E R	R A I N G A U G E	W E I G H T I N G	8 I N C H	H I G H S P E E D	H I G H W A T E R			
CITY																				
Hartford National Bank and Trust Company 777 Main Street	10/07/04	2/28/33		41° 46'	72° 40'	59	#140	123	122		116			116			# - 132 feet to 9/8/08.			
New Post Office or Federal Building 136 High Street	2/28/33	2/29/40	3/8 mile W	41° 46'	72° 41'	58	102	67	66		59			59			Consolidated with Airport Station 2/29/40.			
AIRPORT																				
Brainard Field	2/18/30	3/24/36		41° 44'	72° 39'	15	41										Bur. of Air Commerce to 8/1/33 and CAA to 3/24/36.			
Rentschler Field East Hartford	3/25/36	10/31/39	1-1/4 mi. NE	41° 45'	72° 38'	41	57	6	5				3				CAA to 12/28/38 and WBAS to 10/31/39.			
Administration Building Brainard Field Hartford	11/01/39	8/10/54	1-1/2 mi. SW	41° 44'	72° 39'	15	44	6	5		b3	a4	3				a - Added 2/29/40. b - Removed 10/12/51.			
Bradley Field Windsor Locks	4/01/47	2/19/53	14 miles N	41° 56'	72° 41'	169	27	5	5					3			SAWRS to 8/6/47 and CAA to 2/19/53.			
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	NA		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'	198										S	ASOS Commissioned 04/01/96			

SUBSCRIPTION:
Price and ordering information available through: National Climatic Data Center, Federal Building, Asheville, North Carolina 28801.
INQUIRIES/COMMENTS CALL: (828) 271-4800

National Climatic Data Center
151 Patton Avenue, Rm 120
Asheville NC 28801-5001

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