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Climate Data Sources in Connecticut

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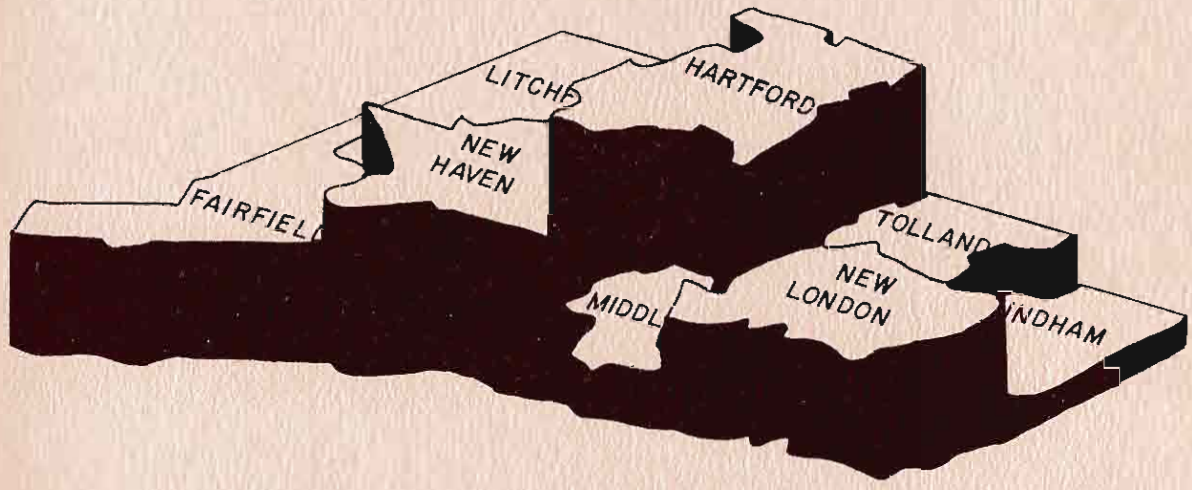

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STORRS AGRICULTURAL EXPERIMENT STATION
COLLEGE OF AGRICULTURE AND NATURAL RESOURCES
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by

Patricia A. Palley and David R. Miller

I. Introduction

This bulletin is a compilation of sources and types of climatic data measured in Connecticut. For the purposes of this bulletin, climate is defined as the statistical collective of weather conditions during a specified interval of time. The definitions and terms used in the bulletin are standard as defined by the American Meteorological Society (1970).

In the spring of 1981, a survey was sent to businesses, agencies and individuals throughout the state who measure various climatic and weatber parameters. Names were obtained from lists of public and private utility companies in Connecticut, from returns to a previous survey (Palley and Miller, 1981) where the respondent indicated he/she measures weather parameters, and through referrals. Approximately 300 surveys were distributed. Ninety-one returns from the mailing together with the two National Weather Service (NWS) stations and their forty-three cooperative stations are included. Thus, 136 sites where data are collected on a regular basis have been identified and appear in this bulletin under the heading "site reports" (Appendix I).

Only those that cnrrently measure weather parameters are included here. In addition to these, there are approximately 100 known sites with past data records that are not currently in operation. The past data from those sites

are available from the observer (most are former NWS cooperative stations that have been discontinued). An inventory of observers with extensive past data records is presently being compiled.

II. Types of stations that record weather data

The site reports in Appendix I include information observed at the following categories of weather stations in Connecticut:

A) Stations operated by the U.S. National Weather Service

There are two stations, termed "first-order stations", in Connecticut which are staffed wholly or in part by National Weather Service personnel. They are located at the Bradley International Airport in Windsor Locks (Bradley WSO AP) and at the Igor I. Sikorsky Memorial Airport in Stratford (Bridgeport WSO AP). Continual or hourly measurements of atmospheric pressure, temperature, humidity, wind, sunshine and precipitation are made for purposes of weather forecasting and long-term climate monitoring and analysis. These measurements are archived on magnetic tapes at the National Climate Center (NCC) in Asheville, North Carolina. Standard equipment, calibrated at least twice annually, is utilized to maintain quality control. The data from these stations appear in the NCC monthly publications entitled "Hourly Precipitation Data" (New England), "Climatological Data" (New England) and "Local Climatological Data" (Bridgeport and Hartford), and are available to the public on a subscription basis from the NCC (Appendix II).

B) Cooperative Observer Stations

There are forty-three stations, termed "second-order" or "substations" which are operated by individuals and/or businesses in Connecticut in cooperation with the NWS but not operated by NWS personnel. The observers are certified by the NWS to make meteorological observations, and instrument and quality standards must comply with those set forth by the NWS. The parameters measured at each site vary according to the individual observer; however, all stations measure precipitation, and the equipment is field calibrated at least once a year by a NWS Substations Network Specialist. The data from

these stations are sent in monthly to the NCC where the data are checkcd and archived and published monthly in "Climatological Data" (New England).

C) Public Utility Stations

Stations owned and operated by public utilities including municipal water and sewer departments and electric, water, gas and oil companies are included in this category. Measurements are taken to aid management operations such as scheduling water movement through a reservoir and the timing of oil deliveries. Instruments are generally standard and calibrated as necessary.

D) Air Pollution Monitoring Stations

Approximately 20 sites were set up, of which 12 are permanent, by the Connecticut Department of Environmental Protection to monitor air pollution concentrations. Power plants owned by Northeast Utilities also have stations to monitor and manage the emissions. High quality meteorological instrumentation are at all sites.

E) Private Stations

These sites are maintained by individuals and companies who measure data either at home or their place of business. Many of these observers are hobbyists, and many use the data to monitor home energy usage. The quality of these data varies considerably and must be checked before using it for exact calculations.

III. Parameters Measured

A) Precipitation includes snow, ice, rain, hail and other such types of accumulation. The standard instrument used for measuring precipitation is the NWS standard rain gage. There are basically two types of gages: recording, which takes continuous measurements and records them on a strip chart or magnetic tape; and non-recording, where once a day the observer reads the amount of precipitation that has fallen in the previous 24 hours. Sizes and styles of gages vary according to manufacturers.

B) Temperature

1) Surface air temperature is the most common type of temperature measurement taken. Maximum and minimum thermometers are the standard non-recording instruments used, where the observer takes a daily reading off the thermometers. Thermographs are the recording types of temperature instruments, where sensor readings are generally recorded continuously on strip charts.

2) Tower temperature is measured by recording temperature sensors mounted on towers. Height of measurements are not standardized and vary according to the observer's needs.

3) Soil temperature is generally measured by temperature sensors embedded several inches deep in the ground, and generally recorded continuously. There are only four known sites in Connecticut where this parameter is measured.

C) Wind

1) Wind speed is commonly measured by recording cup anemometers mounted atop a pole in an open, exposed area. Surface wind speed is usually measured at twenty or thirty feet above ground. Upper air winds are measured aloft in balloons or aircraft with a theodolite which senses motion.

2) Wind direction is most commonly measured by wind vanes. The recording type vane transmits movement to a recording device while the non-recording vane points into the direction of the wind and the observer simply writes down the direction of the arrow and records the direction from which the wind is blowing.

D) Humidity

Relative humidity and dewpoint are the two types of measurements generally taken which indicate water-vapor content in the air. The instruments most widely used for wet and dry bulb readings are hand held and recording psychrometers and hygrometers. Hygrothermographs are another type of instrument commonly used to simultaneously record relative humidity and air temperature.

E) Solar Radiation

Solar radiation is determined by measuring the amount of radiant energy from the sun that reaches the observation point. Solar radiation is usually measured by a pyrheliometer or pyranometer. The most common type of observation consists of measurements of the radiant energy in the visible wave lengths (termed short wave lengths) reaching a horizontal surface, including both radiation from the sun (direct beam solar radiation) and that reaching the instrument indirectly by scattering in the atmosphere (diffuse sky radiation). Many of the observers indicate solar radiation conditions by visually or mechanically estimating the percent of clouds covering the sky.

F) Barometric Pressure

Atmospheric pressure is the pressure exerted by the atmosphere as a consequence of gravitational attraction exerted upon the "column" of air directly above the point in question. A variety of barometers (non-recording) and barographs (recording) are the instruments used for these observations.

G) Evaporation

Evaporation, for meteorological purposes, is defined as the change of water from liquid to gas. A standard evaporation pan is the type of instrument used to measure the evaporation rate of water into the atmosphere. There are only three known sites in Connecticut where this observation is taken.

H) Type of Weather

All NWS and cooperative stations in Connecticut record the type of weather that occurs daily. Such notations include "sunny", "mostly cloudy", "light showers" and the like.

IV. Summary of Climate Observations in Connecticut:

Rainfall, snow and surface air temperature are the most commonly measured parameters statewide, with 108, 91 and 90 sites, respectively, which collect those data. Next are wind direction and wind speed, measured at 56 and 54 sites, respectively. Barometric pressure (30 sites), humidity (28 sites)

and solar radiation (26 sites) are less commonly measured in Connecticut. Tower temperature and soil temperature are measured at only 9 and 4 of the sites inventoried, respectively.

All NWS run and cooperative stations measure rainfall, all but two of those measure snow, and approximately two-thirds measure surface temperature. A minority of stations measure pressure, wind direction, wind speed, moisture and radiation with 8,7,6,5, and 4 sites each. Only one NWS cooperative station measures soil temperature and there are none that measure tower temperature. The station with the longest continuous record is in Middletown at Mt. Higby Reservoir with 123 years of rainfall, snowfall and surface temperature data.

Two thirds of the private stations collect rainfall and surface temperature data, while just over half measure wind direction, wind speed and snowfall. Approximately one-fourth of all private stations measure moisture, solar radiation and barometric pressure. Parameters least measured are tower temperature at 9 sites and soil temperature at 3 sites. The private station with the longest continuous record is at Lake Whitney in Hamden with seventy years of record of rain, snow, surface temperature and barometric pressure data.

On the average, the NWS and cooperative sites have record lengths between two and eight times longer than their private collector counterparts. Hartford county emerged as having the greatest total number of weather stations in the state (31), followed by New Haven county with 28 stations, Fairfield and Litchfield Counties, each with 23 stations, New London County (12), Tolland County (8), Middlesex County (7) and Windham County (4). Litchfield County contains the greatest number of cooperative NWS stations, having 10 sites within its boundaries. The main concentration of data collectors, all told, was found to be west of the Connecticut River, following the urban corridor patterns from southwest to north central Connecticut. A small cluster of sites is also evident in southeastern Connecticut along the shoreline. The most sparsely measured area extends from the south central through the east central portion of the state.

A series of maps and tables showing site distributions by parameter and

summarized statistics by state and county are included for reference in this bulletin.

V. How to Use the Maps and Site Reports

The bulletin includes three sections containing information on climatic data available in Connecticut: maps, charts and site reports. One map is included for each parameter (Figures I through IX) and displays the distribution of sites in Connecticut where these observations are made. The charts (Tables 1 through 4) contain summarized statistics of record lengths for each parameter. Separate charts are included for the NWS stations (both first- and second-order), for private data collectors, and for all sites combined, both by county and statewide.

The site reports (Appendix 1) are arranged alphabetically by county, and within county by town where the equipment is located (not necessarily the same as the observer's address). They contain all the information available on each site: parameters measured, length of record and how data are recorded, frequency of observation, instruments used, calibration, and location of instrumentation including geographical coordinates, elevation and USGS (United States Geological Survey) 7.5 minute series map quandrangle.

To use the manual, first check the maps to find the parameter(s) and locations that are needed. Next, go to the "site report" Appendix section to find the relevant report(s). For example, if wind speed data are needed for Danbury from 1978-1980, the wind speed map should be checked to determine the closest station to Danbury with wind speed observations. One site will be found in Danbury, and the site report can then be located under "D" in Fairfield County. The report indicates that six years of wind speed data are available as of Spring 1981 and are recorded on magnetic tapes, strip charts/graphs and on punch cards. Should it be necessary to obtain the data records or additional information, the observer can be contacted at the address given at the top of each report. Most of the observers have been very cooperative in exchanging meteorological information.

TABLE I

RECORD LENGTHS FOR STATE (Summary)

	RAIN	SNOW	SOIL TEMP	SURFACE TEMP	TOWER TEMP	WIND SPEED	WIND DIRECTION	HUMIDITY	SOLAR RADIATION	BARO PRESSURE	EVAPO-RATION	TEMP DIFFER.	RIVER STAGE
NWS													
# sites	45	43	1	28		6	7	5	4	8	2		7
max. yrs	123	123	10	123		50	50	50	46	123	30		123
min. yrs	7	7	10	7		10	31	32	10	25	15		14
mean yrs	46.8	48.4	10	42		33.3	40.9	41	31.3	55.1	22.5		43.7
median yrs	40	40	10	40		34.5	40	40	34.5	43.5	22.5		40
OTHER													
# sites	63	48	3	62	9	48	49	23	22	22	1	4	
max. yrs	70	70	15	70	15	50	50	50	12	70	4	7	
min. yrs	.25	1	0	0	0	0	0	0	0	0	4	4	
mean yrs	19	23.4	5	12.9	7.4	9.9	10.2	14.9	3.9	11.4	4	6	
median yrs	10	20	0	7.8	7	6	6	6	3.5	8	4	6.5	
COMBINED													
# sites	108	91	4	90	9	54	56	28	26	30	3	4	7
max. yrs	123	123	15	123	15	50	50	50	46	123	30	7	123
min. yrs	.25	1	0	0	0	0	0	0	0	0	4	4	14
mean yrs	30.6	35.2	6.3	21.9	7.4	12.5	14.1	19.6	8.1	23	16.3	6	43.7
median yrs	22.5	31	5	13.5	7	6	7	7	5.5	10	15	6.5	40

TABLE II

COMBINED NWS AND COOPERATIVE AND PRIVATE STATIONS RECORD LENGTHS, BY COUNTY

	RAIN	SNOW	SOIL TEMP	SURFACE TEMP	TOWER TEMP	WIND SPEED	WIND DIRECTION	HUMIDITY	SOLAR RADIATION	BARO PRESSURE	EVAPO-RATION	TEMP DIFFER.	RIVER STAGE
FAIRFIELD													
# sites	18	14		18	1	10	11	5	6	5		1	1
max. yrs	96	96		46	4	37	37	37	37	37		14	40
min. yrs	1	5		.5	4	0	0	6	1	1		14	40
mean yrs	28.1	34.5		16.5	4	10	10.2	12.4	9.8	17		14	40
median yrs	20	28		15	4	6	6	6	6	10		14	40
HARTFORD													
# sites	25	20	2	20	3	14	12	7	4	7			1
max. yrs	112	112	15	93	15	50	50	50	32	32			14
min. yrs	.25	2	0	.25	5	1	1	1.5	1	1.5			14
mean yrs	24.2	28.8	7.5	21.4	11.7	11.1	12.5	18.8	12.8	10.2			14
median yrs	15	21	7.5	13.5	15	5.5	5.5	12	9	6			14
LITCHFIELD													
# sites	22	20		15		7	7	3	1	6	2	2	3
max. yrs	67	67		67		50	50	50	1.5	50	15	7	40
min. yrs	2	7.5		3		3	7.5	2.5	1.5	7.5	4	6	20
mean yrs	28.2	30.7		28.7		13.7	21.1	30.8	1.5	15.8	9.5	6.	33.3
median yrs	25.5	35		30		10	10	40	1.5	9.5	9.5	6.	40
MIDDLESEX													
# site	3	3		5	2	3	4	2	2	1			1
max. yrs	123	123		123	7	7	7	7	7	123			123
min. yrs	5	5		1	6	2	1	6	1	123			123
mean yrs	55.7	55.7		34	6.5	5	4	6.5	4	123			123
median yrs	39	39		5	6.5	6	4	6.5	4	123			123
NEW HAVEN													
# sites	22	17		16	1	8	10	5	6	4			
max. yrs	84	84		70	8	50	50	50	46	70			
min. yrs	1	1		1	8	1	1	5	1	6			
mean yrs	35.9	44.1		17.3	8	10.5	14.6	22.6	10.8	24.8			
median yrs	38	50		10	8	6	7	6	5	11.5			
NEW LONDON													
# sites	8	7	1	8	2	8	8	5	4	6		1	
max. yrs	105	105	0	25	7	50	50	50	7	50		7	
min. yrs	5	15	0	0	0	0	0	0	0	0		7	
mean yrs	34.8	39.6	0	14	3.5	16.1	15.3	17.2	3.3	20.8		7	
median yrs	24.5	25	0	17	3.5	13	9.5	7	3	22.5		7	
TOLLAND													
# sites	6	6	1	6		3	3		3	1	1		1
max. yrs	93	93	10	93		40	40		10	93	30		29
min. yrs	1.5	1.5	10	1.5		2	2		1	93	30		29
mean yrs	35.3	35.3	10	28.1		15	15		4.7	93	30		29
median yrs	34	34	10	16		3	3		3	93	30		29
WINDHAM													
# sites	4	4		2		1	1	1					
max. yrs	50	50		50		50	50	50					
min. yrs	9	9		41		50	50	50					
mean yrs	32	32		45.5		50	50	50					
median yrs	34.5	34.5		45.5		50	50	50					
TOTAL #SITES	100	83	4	89	9	54	56	28	26	29	3	4	7

TABLE III

NATIONAL WEATHER SERVICE AND COOPERATIVE STATIONS: RECORD LENGTHS, BY COUNTY

	RAIN	SNOW	SOIL TEMP	SURFACE TEMP	TOWER TEMP	WIND SPEED	WIND DIRECTION	HUMIDITY	SOLAR RAD	BARO PRESS	EVAPO-RATION	RIVER STAGE
FAIRFIELD												
# sites	8	8		6		2	2	1	1	2		1
max. yrs	96	96		46		37	37	37	37	37		40
min. yrs	25	25		25		31	31	37	37	31		40
mean yrs	49.6	49.6		32.3		34	34	37	37	34		40
median yrs	38.5	38.5		30.5		34	34	37	37	34		40
HARTFORD												
# sites	7	7		5		1	1	1	1	1		1
max. yrs	112	112		93		32	32	32	32	32		14
min. yrs	7	7		7		32	32	32	32	32		14
mean yrs	53.4	53.4		46.2		32	32	32	32	32		14
median yrs	41	41		49		32	32	32	32	32		14
LITCHFIELD												
# sites	10	10		6		1	1	1		1	1	3
max. yrs	67	67		67		10	50	40		50	15	40
min. yrs	20	20		40		10	50	40		50	15	20
mean yrs	42.8	42.8		46.5		10	50	40		50	15	33.3
median yrs	40.5	40.5		41		10	50	40		50	15	40
MIDDLESEX												
# sites	2	2		2						1		1
max. yrs	123	123		123						123		123
min. yrs	39	39		39						123		123
mean yrs	81	81		81						123		123
median yrs	81	81		81						123		123
NEW HAVEN												
# sites	5	3		3			1	1	1			
max. yrs	84	84		46			46	46	46			
min. yrs	10	46		10			46	46	46			
mean yrs	44.4	66.7		22.7			46	46	46			
median yrs	46	70		12			46	46	46			
NEW LONDON												
# sites	5	5		2		1	1	1		2		
max. yrs	105	105		25		50	50	50		50		
min. yrs	15	15		15		50	50	50		25		
mean yrs	46.8	46.8		20		50	50	50		37.5		
median yrs	39	39		20		50	50	50		37.5		
TOLLAND												
# sites	5	5	1	3		1	1		1	1	1	1
max. yrs	93	93	10	93		40	40		10	93	30	29
min. yrs	9	9	10	29		40	40		10	93	30	29
mean yrs	42	42	10	54		40	40		10	93	30	29
median yrs	39	39	10	40		40	40		10	93	30	29
WINDHAM												
# sites	3	3		1								
max. yrs	41	41		41								
min. yrs	9	9		41								
mean yrs	26	26		41								
median yrs	28	28		41								
TOTAL #SITES	45	43	1	28	0	6	7	5	4	8	2	7

TABLE IV

RECORD LENGTHS OF PRIVATE DATA COLLECTORS, BY COUNTY

	RAIN	SNOW	SOIL TEMP	SURFACE TEMP	TOWER TEMP	WIND SPEED	WIND DIRECTION	HUMIDITY	SOLAR RADIATION	BARO PRESSURE	EVAPO-RATION	TEMP DIFFERENCE
FAIRFIELD												
# sites	10	6		12	1	8	9	4	5	3		1
max. yrs	20	20		20	4	7	12	7	7	10		4
mIn. yrs	1	5		.5	4	0	0	6	1	1		4
mean yrs	10.9	14.5		8.6	4	4	4.9	6.3	4.4	5.7		4
median yrs	9	16		6	4	5	6	6	6	6		4
HARTFORD												
# sites	18	13	2	15	3	13	11	6	3	6		
max. yrs	50	50	15	50	15	50	50	50	12	12		
min. yrs	.25	2	0	.25	5	1	1	1.5	1	1.5		
mean yrs	12.8	15.5	7.5	13.2	11.7	9.5	10.7	16.6	6.3	6.7		
median yrs	8.5	11.8	7.5	9	15	4.5	5	9	6	5		
LITCHFIELD												
# sites	12	10		9		6	6	2	1	5	1	2
max. yrs	50	50		50		50	50	50	1.5	10	4	7
min. yrs	2	7.5		3		3	7.5	2.5	1.5	7.5	4	6
mean yrs	16	18.7		16.8		14.3	16.3	26.3	1.5	8.9	4	6.5
median yrs	15	20.5		10		10	10	26.3	1.5	9	4	6.5
MIDDLESEX												
# sites	1	1		3	2	3	4	2	2			
max. yrs	5	5		5	7	7	7	7	7			
min. yrs	5	5		1	6	2	1	6	1			
mean yrs	5	5		2.7	6.5	5	4	6.5	4			
median yrs	5	5		2	6.5	6	4	6.5	4			
NEW HAVEN												
# sites	17	14		13	1	8	9	4	5	4		
max. yrs	70	70		70	8	50	50	50	6	70		
min. yrs	1	1		1	8	1	1	5	1	6		
mean yrs	33.4	39.3		16.1	8	10.5	11.1	16.8	3.8	24.8		
median yrs	30	50		8	8	6	7	6	4	11.5		
NEW LONDON												
# sites	3	2	1	6	2	7	7	4	4	4		1
max. yrs	24	24	0	24	7	24	24	24	7	23		7
min. yrs	5	19	0	0	0	0	0	0	0	0		7
mean yrs	14.7	21.5	0	12	3.5	11.3	10.3	9	3.3	12.5		7
median yrs	15	21.5	0	12	3.5	6	6	6	3	13.5		7
TOLLAND												
# sites	1	1		3		2	2		2			
max. yrs	1.5	1.5		3		3	3		3			
min. yrs	1.5	1.5		1.5		2	2		1			
mean yrs	1.5	1.5		2.2		2.5	2.5		2			
median yrs	1.5	1.5		2		2.5	2.5		2			
WINDHAM												
# sites	1	1		1		1	1	1				
max. yrs	50	50		50		50	50	50				
min. yrs	50	50		50		50	50	50				
mean yrs	50	50		50		50	50	50				
median yrs	50	50		50		50	50	50				
TOTAL #SITES	63	48	3	62	9	48	49	23	22	22	1	4

FIGURE I

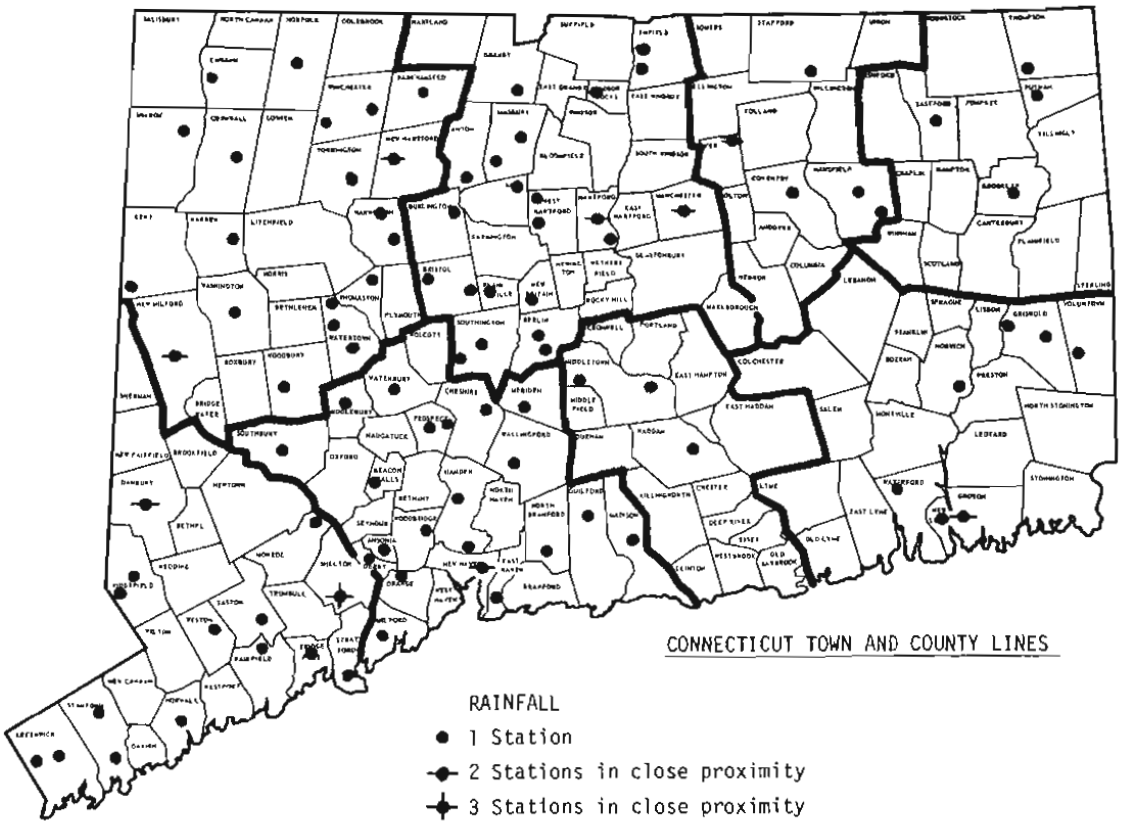


FIGURE II

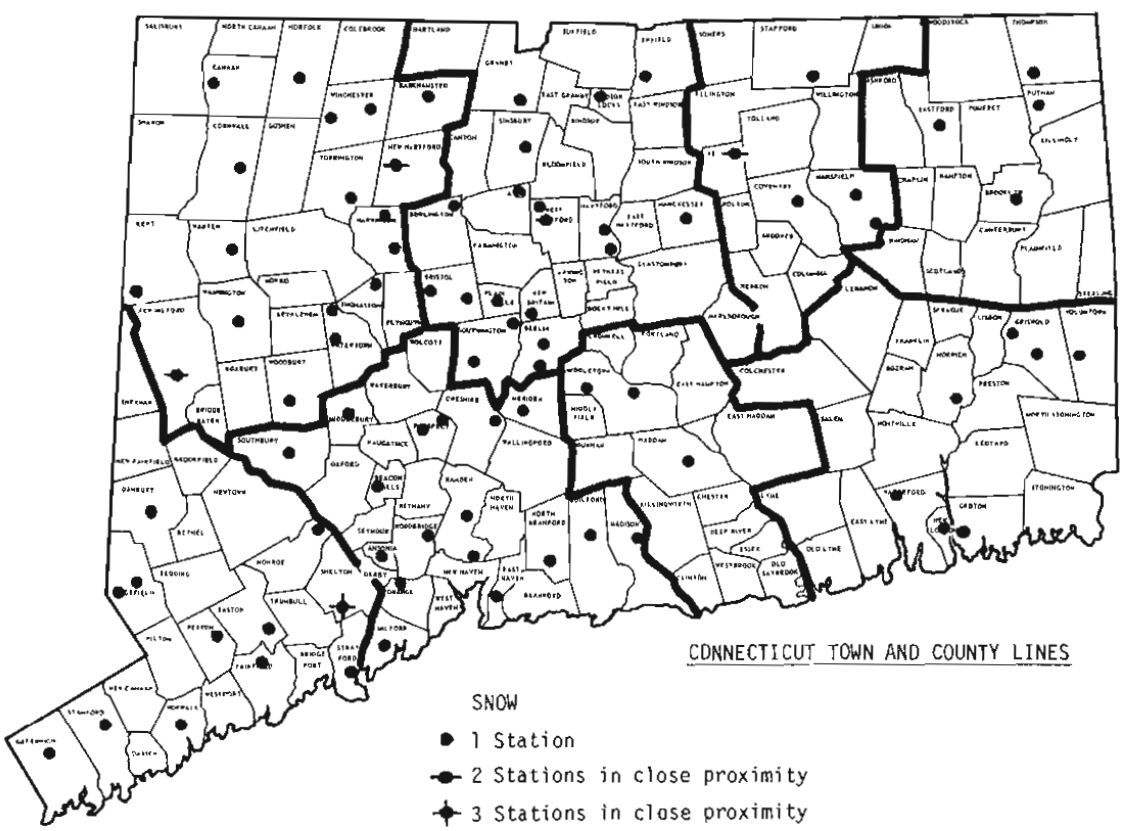
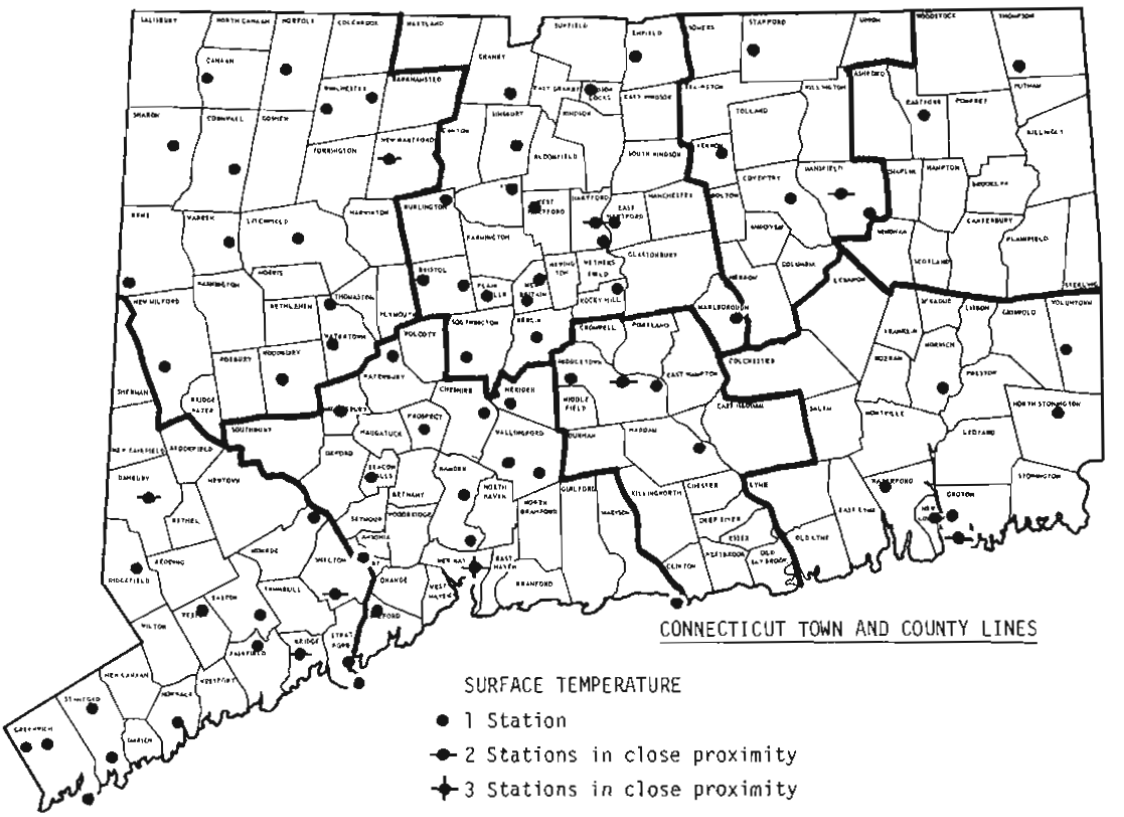


FIGURE III

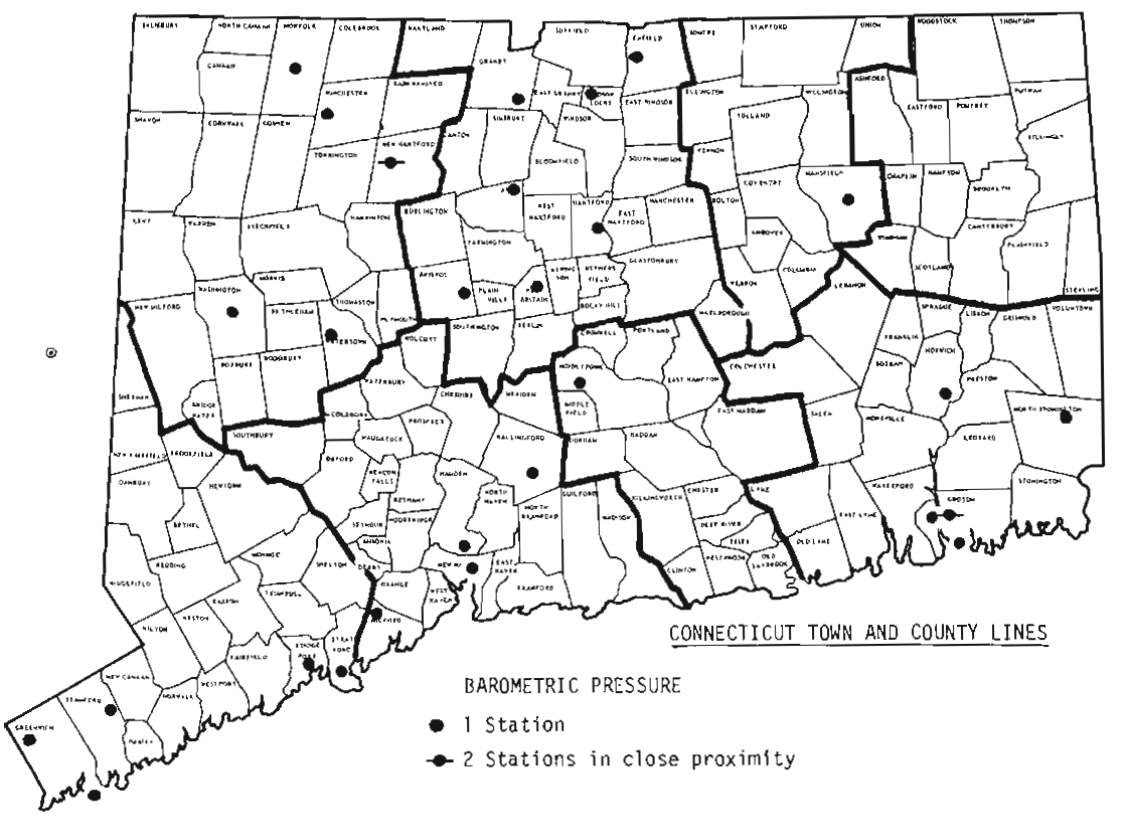


CONNECTICUT TOWN AND COUNTY LINES

SURFACE TEMPERATURE

- 1 Station
- 2 Stations in close proximity
- 3 Stations in close proximity

FIGURE IV



CONNECTICUT TOWN AND COUNTY LINES

BAROMETRIC PRESSURE

- 1 Station
- 2 Stations in close proximity

FIGURE V

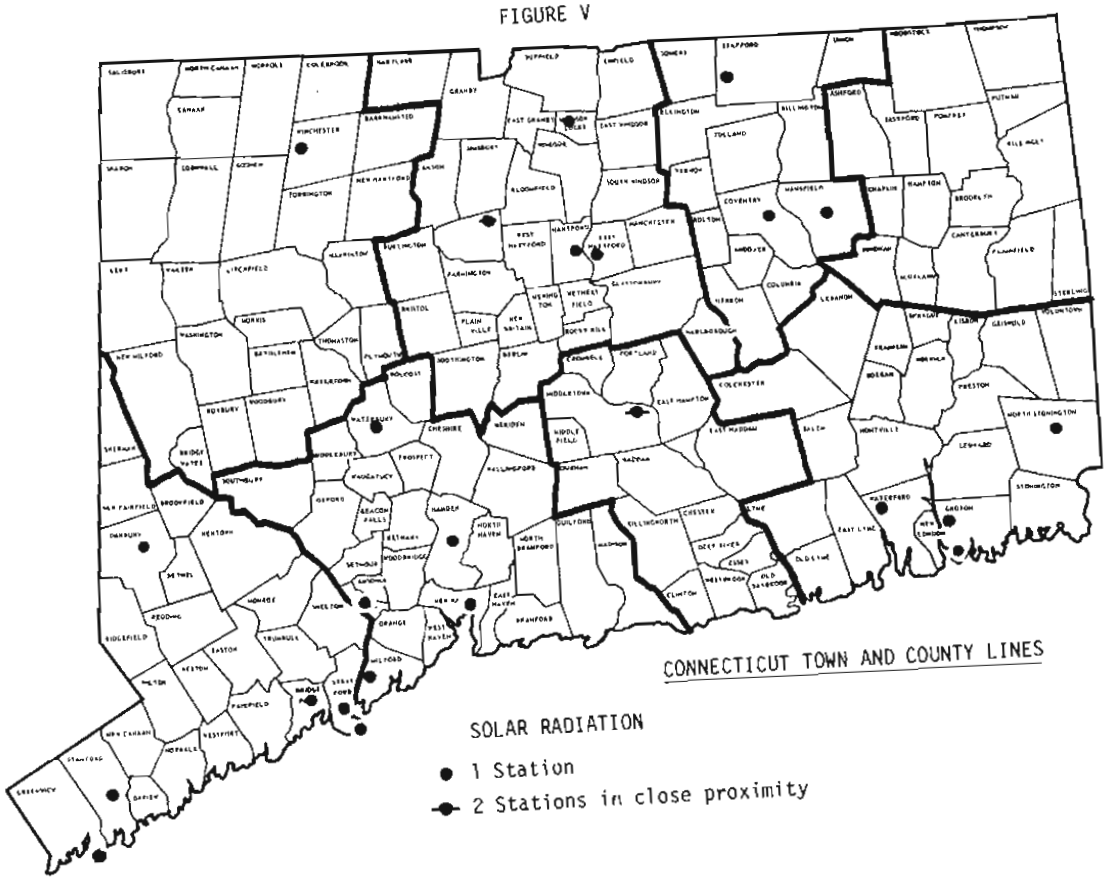


FIGURE VI

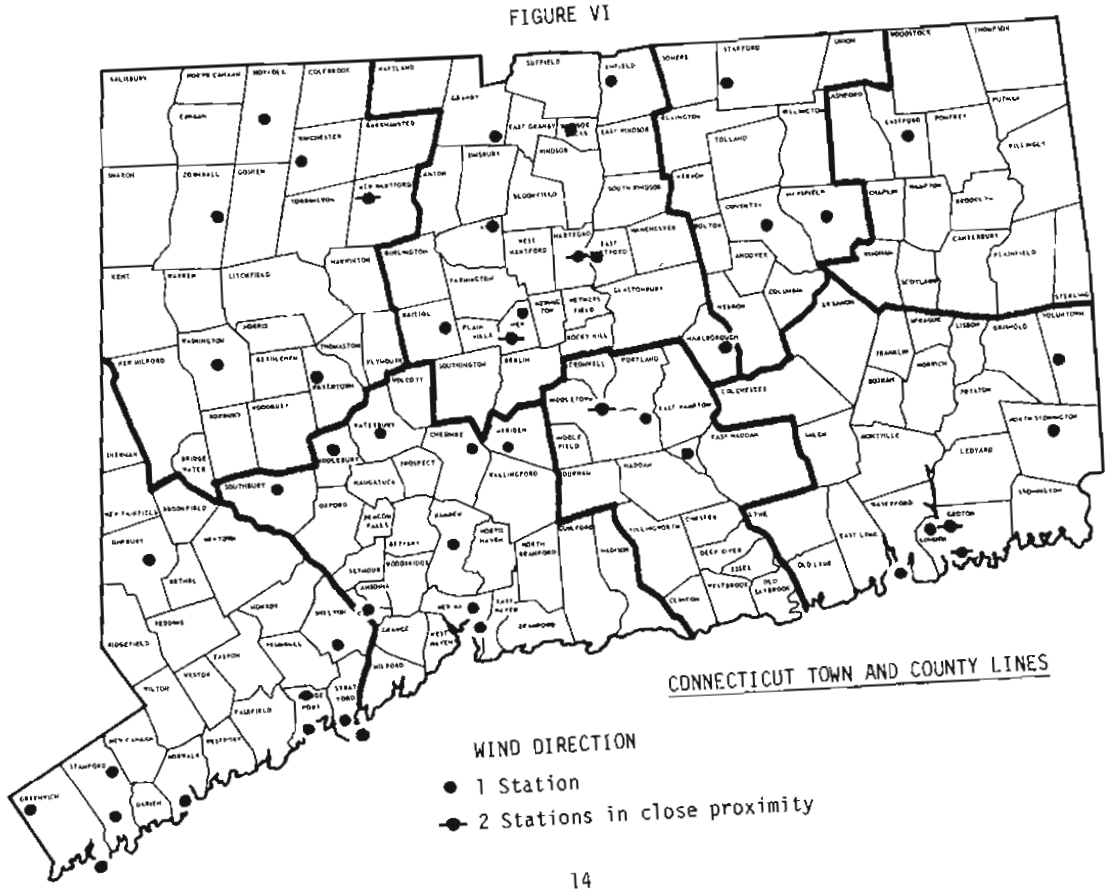
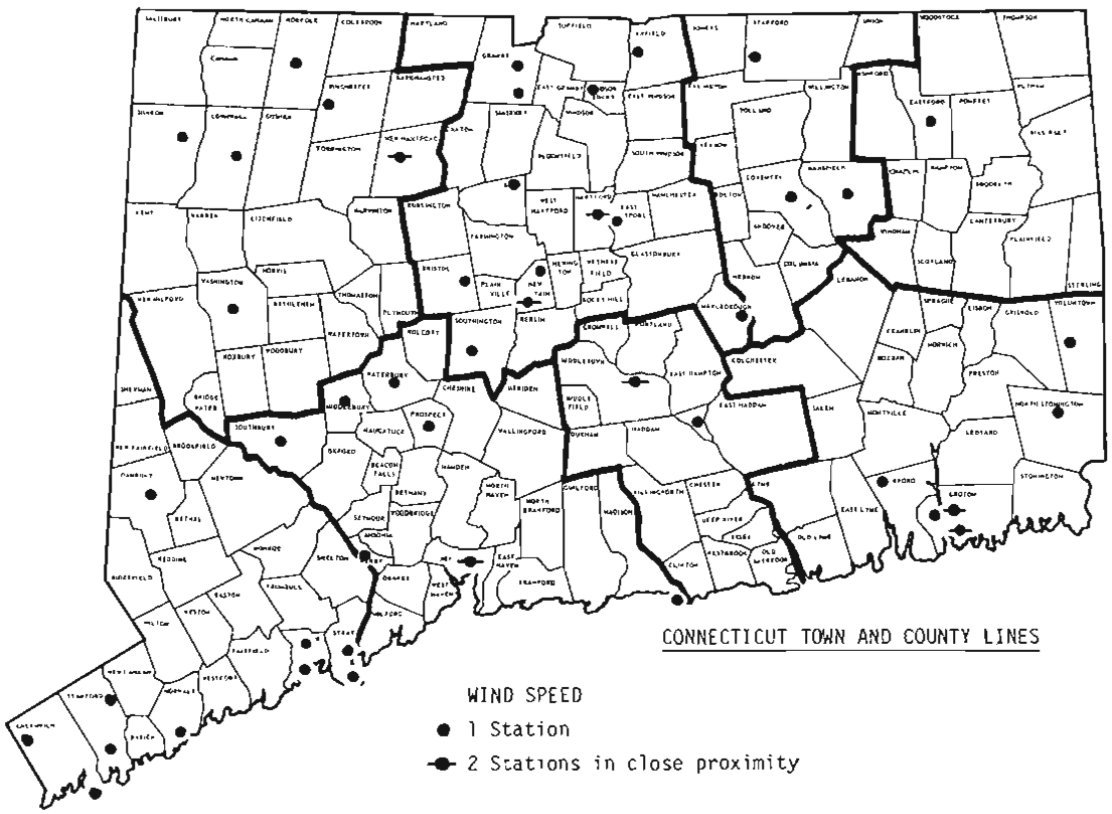


FIGURE VII



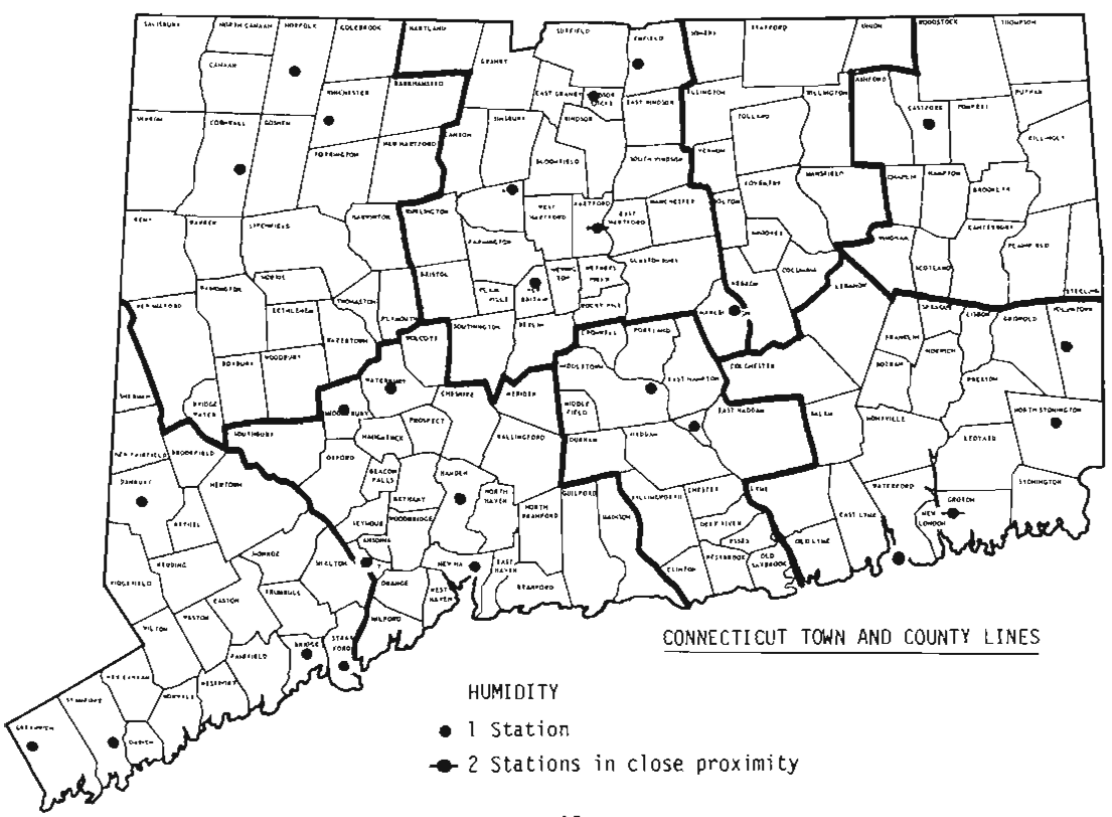
CONNECTICUT TOWN AND COUNTY LINES

WIND SPEED

● 1 Station

●—● 2 Stations in close proximity

FIGURE VIII



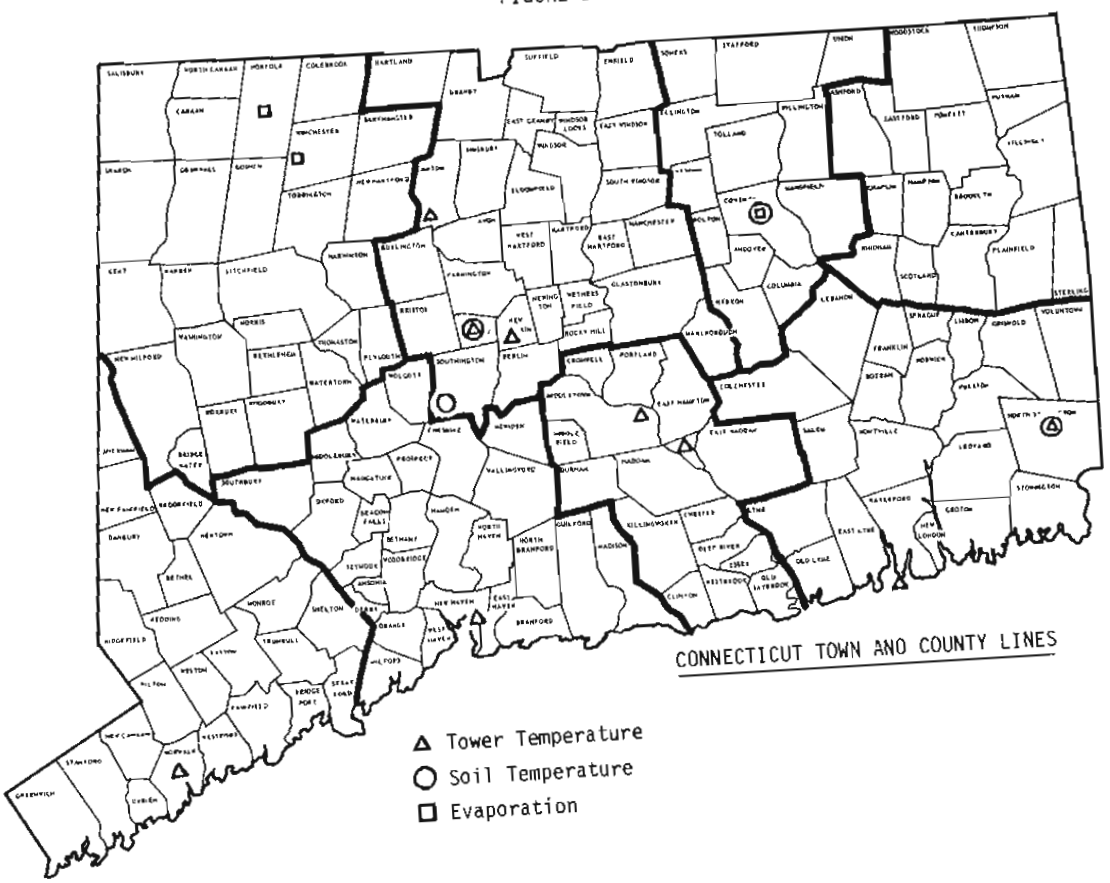
CONNECTICUT TOWN AND COUNTY LINES

HUMIDITY

● 1 Station

●—● 2 Stations in close proximity

FIGURE IX


CONNECTICUT TOWN AND COUNTY LINES
Tower Temperature
Soil Temperature
Evaporation

APPENDIX I

Site Reports

Fairfield County Site Reports

Observer: V.W. Yanosy, Conn. DEP Observer's address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X		
Hourly	X			X		X	X		X	X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6	6		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X		
Strip Charts/Graphs	X			X		X	X		X	X		
By Hand												
Other (specify) punch cards	X			X		X	X		X	X		

Instruments Used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MX1-G).

Calibration: All instruments field calibrated twice yearly against standard inatruments by staff technicians.

Location of instrumentation: Bridgeport, CT. Trailer on paved parking lot in residential and industrial neighborhood. No surrounding vegetation. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold. Long Island Sound one mile south

Latitude: 41° 11' 10" N

Longitude: 73° 11' 05" W

Approx. Elevation: 10 ft.

USGS Bridgeport, CT Quadrangle

Observer: Tim Root Observer's Address: WEZN, 10 Middle St., Bridgeport, CT 06604

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X							X	
Hourly											X	
Daily				X							X	
Weekly											X	
TOTAL # YEARS OF RECORD as of Spring 1981				10							10	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X							X	
By Hand												
Other (specify)												

Instruments used: Taylor recording barometer, thermometer.

Calibration: None.

Location of instrumentation: Inside radio station building on seventh floor in downtown Bridgeport.

Latitude: 41° 11' N

Longitude: 73° 11' 30" W

Approx. Elevation: 10 ft.

USGS Bridgeport, CT Quadrangle

Observer: The United Illumination Co. Observer's Address: 80 Temple St., New Haven, CT 06506

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously						X	X					
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981						*	*					
HOW IS DATA RECORDED	* beginning mid-1981											
(✓) Magnetic Tapes						X	X					
Strip Charts/Graphs						X	X					
By Hand												
Other (specify)												

Instruments used: Texas Electronics 450-LC5 wind direction and speed system.

Calibration: One - two times yearly by TRC environmental consultants of Wethersfield, CT.

Location of instrumentation: Bridgeport Harbor next to Tongue Point Light. Wind sensors located at top of pole 35 feet above grade next to equipment trailer housing. Some small trees within 30 feet. Fuel storage tanks at approximately 580 ft. to the west (40 ft. high).

Latitude: 41° 09' 58" N

Longitude: 73° 10' 40" W

Approx. Elevation: Sea Level

USGS Bridgeport, CT Quadrangle

NWS Station: Danbury Observer: J. Simko, Jr., 26 Victor St., Danbury, CT 06810

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	46	46		46								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Max-min thermometers; thermometer support; 8" standard rain gage .

Calibration: N/A

Location of instrumentation: Home of observer. Residential area with rolling to hilly terrain, station is on top of a hill.

Latitude: 41° 23' N

Longitude: 73° 28' W

Approx. Elevation: 510 ft.

USGS Danbury, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer'e Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X		
Hourly	X			X		X	X		X	X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6	6		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X		
Strip Charts/Graphs	X			X		X	X		X	X		
By Hand												
Other (specify) punch cards	X			X		X	X		X	X		

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix NK1-G).

Calibration: All instruments field calibrated twice yearly against standard instrumente by staff techniciane.

Location of instrumentation: Residential area on the campus of Western Conn. State College in Danbury, CT. Trailer is on grassed area near tennis courts. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold.

Latitude: 41° 24' 05" N

Longitude: 73° 26' 38" W

Approx. Elevation: 380 ft.

USGS Danbury, CT Quadrangle

29

Observer: Bridgeport Hydraulic Co. Observer's Address: 835 Main St., Bridgeport, CT 06609

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20		20								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Standard rain gage.

Calibration: N/A

Location of instrumentation: Easton Reservoir dam in Easton, CT. Grass surface cover, open area with no obstructions.

Latitude: 41° 14' 45" N

Longitude: 73° 15' 30" W

Approx. Elevation: 300 ft.

USGS Westport, CT Quadrangle

Observer: Bridgeport Hydraulic Co. Observer's Address: 835 Main St., Bridgeport, CT 06609

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20		20								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Standard rain gage.

Calibration: N/A

Location of instrumentation: Hemlock Reservoir dam in Fairfield, CT.

Latitude: 41° 12' 15" N

Longitude: 73° 17' W

Approx. Elevation: 230 ft.

USGS Westport, CT Quadrangle

NWS Station: Putnam Lake Observer: Greenwich Water Co., Putnam Lake, Greenwich, CT 06830

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	96	96		25								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" standard rain gage; min-max thermometers (Airguide).

Calibration: N/A

Location of instrumentation: South end of Putnam Lake in Greenwich, CT at Filtration Plant. Site is approximately 100 yards from lake.

Latitude: 41° 05' N

Longitude: 73° 38' W

Approx. Elevation: 300 ft.

USGS Glenville, CT - NY Quadrangle

Observer: V.W. Yanosy, Conn. DEP Obeerver's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
(✓) Continuously	X			X		X	X		X		X	
Hourly	X			X		X	X		X		X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6		6	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X		X	
Strip Charts/Graphs	X			X		X	X		X		X	
By Hand												
Other (specify) punch cards	X			X		X	X		X		X	

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); pressure sensor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Greenwich, CT Bruce Golf Course. Equipment is on the SE side of clubhouse, grass and trees all around. Wind tower 30 ft., rain gage 6 ft., temp. inside sampling manifold, baro. inside building.

Latituds: 41° 04' 23" N

Longitude: 73° 42' 26" W

Approx. Elevation: 450 ft.

USGS Glenville, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
(✓) Continuously				X		X	X			X	X	
Hourly				X		X	X			X	X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1		1	1			1	1	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes				X		X	X			X	X	
Strip Charts/Graphs				X		X	X			X	X	
By Hand												
Other (specify)												

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WS-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MK1-G); pressure ssnsor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Greenwich, CT, Point Park. Peninsula south of Old Greenwich on Long Island Sound. Wind tower 30 ft., temp. inside sampling manifold, solar 9 ft.

Latitude: 41° 00' 15" N

Longitude: 73° 35' 08" W

Approx. Elevation: 10 ft.

USGS Stamford, CT Quadrangle

NWS Station: Stevenson Dam Observer: Northeast Utilities Service Co., Box 270, New Milford, CT 06776

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40										40
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										X
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of instrumentation: Stevenson Dam in Monroe, CT.

Latitude: 41° 23' N

Longitude: 73° 10' W

Approx. Elevation:

USGS Southbury, CT Quadrangle

NWS Station: Norwalk Gas Plant Observer: Conn. Light & Power Co. Gas Plant, Tyndall Ave., Norwalk, CT 06850

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	25	25		25								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X								
Other (specify)												

Instruments used: Max-min thermometers; thermograph; 8" standard rain gage ; Universal recording rain gage.

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Power Co. Gas Plant in river valley, Norwalk River approx. 500 ft. East.

Latitude: 41° 07' N

Longitude: 73° 25' W

Approx. Elevation: 37 ft.

USGS Norwalk, CT South Quadrangle

Observer: H.L. Chamberlain, Northeast Utilities Observer's Address: Box 270, Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Δ Temp.
FREQUENCY OF COLLECTION												
(✓) Continuously					X	X	X					X
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981					4	4	4					4
HOW IS DATA RECORDED												
(✓) Magnetic Tapes					X	X	X					X
Strip Charts/Graphs					X	X	X					X
By Hand												
Other (specify)												

Instruments used: Wind speed and direction (Climatronics F460); temperature and change in temperature (Rosemount 104MN).

Calibration: Regular calibration and maintenance performed by staff technicians.

Location of instrumentation: Norwalk Harbor plant, Norwalk, CT. Tower 150 ft., measurement heights: wind speed and direction 147 ft., temperature 33 ft. and 145 ft., change in temp. 145 ft.

Latitude: 41° 04' 30" N

Longitude: 73° 24' 31" W

Approx. Elevation: 10 ft.

USGS Norwalk, CT Quadrangle

Observer: Thomas Andersen III Observer's Address: 9 Mimosa Ct., Ridgefield, CT 06877

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	1	5		4								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Temperature (Taylor indoor/outdoor).

Calibration: None.

Location of instrumentation: Home of observer, in north side of house (away from sunlight).

Latitude: 41° 18' 45" N

Longitude: 73° 30' W

Approx. Elevation: 700 ft.

USGS Bethel, CT Quadrangle

NWS
Station: Round Pond Observer: Ridgefield Water Supply Co., Mr. Terrence Knoche, 262 W. Mtn. Rd., Ridgefield, CT 06877

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	35	35										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage.

Calibration: None.

Location of instrumentation: On West Mountain Rd. (Rt. 102). Open lawn with no obstruction, only woods about 50 ft. away.

Latitude: 41° 17' 30" N
Longitude: 73° 32' W
Approx. Elevation: 800 ft.
USGS Peach Lake, NY - CT Quadrangle

Observer: Bridgeport Hydraulic Co. Observer's Address: 835 Main St., Bridgeport, CT 06609

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20		20								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Inetruments used: Standard rain gage and thermometer.

Calibration: N/A

Location of instrumentation: Trap Falls Dam in Shelton, CT. Open area with no obstructions, grass surface cover, adjacent to reeervoir impoundment.

Latitude: 41° 16' N
Longitude: 73° 08' W
Approx. Elevation: 312 ft.
USGS Long Hill, CT Quadrangle

Observer: Richard S. Havourd, Jr. **Observer's Address:** 11 Ward Dr., Shelton, CT 06484

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X								
Hourly												
Daily	X	X		X			X					
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	12	12		5 mos.	*		12					
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X								
By Hand	X	X		X			X					
Other (specify)												

* to be installed

Instruments used: Weighting rain gage (1/100"); min-max thermometer (Brooklyn, weksler); surface thermograph (Bristol) installed 10/80; wind vane (Taylor); rail collecting tube (.05", Taylor).

Calibration: Brooklyn and Bristol thermographs compared daily with Weksler thermograph which is checked annually as NWS. Weighting rain gauge compared with Taylor coll. tube.

Location of instrumentation: Home of observer. Wt. rain gage on mobile home roof (unobstructed). Taylor tube on pole 5'5" above ground, 12' away from 12' high mobile home. Brooklyn thermo. on NE side of home (shielded from morning sun); weksler thermo. mounted with Taylor tube with sun shielding. Bristol thermograph sensor mounted on NE side of home with shield. Location 11 Ward Dr., Shelton (1977-present), and 29 Capitol Dr, Shelton, Ct. (1969-1976).

Latitude: 41° 16' N

Longitude: 73° 08' W

Approx. Elevation: 300 ft.

USGS Long Hill, CT Quadrangle

Observer: Tim Root Observer's Address: 10 Fir Dr., Shelton, CT 06484

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X				X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand		X										
Other (specify)	rain gage											

Instruments used: 8" recording rain gage.

Calibration: None.

Location of instrumentation: Home of observer.

Latitude: 41° 16' N

Longitude: 73° 08' W

Approx. Elevation: 300 ft.

USGS Long Hill, CT Quadrangle

NWS

Station: Stamford 5N Observer: Pat Standart, Stamford Museum & Nature Center, High Ridge at Scofieldtown Rds., Stamford, CT 06905

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X				X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	31	31		31		31	31				31	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X				X	
Other (specify)												

Instruments used: Science Associates: 8" standard rain gage ; recording rain gage ; recording thermometer; max-min thermometers; wind system; barometer; two barographs.

Calibration: As necessary by observer, NWS Substation Network Specialist and Science Associates.

Location of instrumentation: Stamford Museum and Nature Center. Shelter in open area, wind tower near main building, barometer and barographs inside observer's office.

Latitude: 41° 08' N

Longitude: 73° 33' W

Approx. Elevation: 190 ft.

USGS Stamford, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X		
Hourly	X			X		X	X		X	X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	8			8		7	7		7	7		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X		
Strip Charts/Graphs	X			X		X	X		X	X		
By Hand												
Other (specify) Punch cards	X			X		X	X		X	X		

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind spsed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments are field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Stamford, CT. Located on a paved parking lot with tall buildings on SE and SW. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold.

Latitude: 41° 03' 33" N

Longitude: 73° 32' 12" W

Approx. Elevation: 20 ft.

USGS Stamford, CT Quadrangle

NWS
Station: Bridgeport WSO AP Observer: NWS Office, Sikorsky Memorial Airport, Stratford, CT 06497

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X		X	X	X	X	X	X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	37	37		37		37	37	37	37	37	37	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand	X	X		X		X	X	X	X	X	X	
Other (specify)												

Instruments used: 8" standard rain gauge; 240 recording rain gage; hygrothermograph.

Calibration: Biannually by NWS Substation Network Specialist.

Location of instrumentation: Bridgeport Municipal Airport, Stratford, CT.

Latitude: 41° 10' N

Longitude: 73° 08' W

Approx. Elevation: 10 ft.

USGS Bridgeport, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				2*		2*	2*			1*		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify) punch cards				X		X	X					

* summer only

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind spsed sensor (WS-10A); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Stratford, CT - USCG Light House on Stratford Point on Long Island Sound. Wind tower 38 ft., temp. shield 29 ft., solar 29 ft.

Latitude: 41° 09' 07" N

Longitude: 73° 06' 18" W

Approx. Elevation: 10 ft.

USGS Milford, CT Quadrangle

NWS
Station: Saugatuck Dam Observer: Bridgeport Hydraulic Co., Attn: Robert Harper, Valley Forge Rd., Weston, CT 06883

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	87	87		30								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X								
Other (specify)												

Instruments used: Standard max-min thermometers; 8" standard rain gage.

Calibration: Staff technicians perform calibrations as necessary.

Location of instrumentation: Saugatuck Reservoir Dam in Weston, CT. Semi-open field with minor brush growth.

Latitude: 41° 15' N

Longitude: 73° 21' W

Approx. Elevation: 300 ft.

USGS Westport, CT Quadrangle

Hartford County Site Reports

Observer: Talcott Mountain Science Center Observer's Address: Montivideo Rd., Avon, CT 06028

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION (✓) Continuously				X		X	X	X		X	X	
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	2		12		12	12	12		12	12	
HOW IS DATA RECORDED (✓) Magnetic Tapes												
Strip Charts/Graphs	X			X		X	X	X		X	X	
By Hand	X	X										
Other (specify)												

Instruments used: Anemometer system (Aerovane); microbarograph (Short & Mason); pyronometer and pyroheliometer (Eppley); hygrothermograph (Belfort); tipping bucket rain gage (MRI).

Calibration: Eppleys are calibrated yearly by factory, hygrothermograph yearly by staff.

Location of Instrumentation: Hygrothermograph in shelter, microbarograph inside, Eppleys on rooftop, anemometer atop 18 ft. pole, tipping bucket on wooden sundial.

Latitude: 41° 48' N

Longitude: 72° 47' 30" W

Approx. Elevation: 800 ft.

USGS Avon, CT Quadrangle

Observer: M. Seelye, Town of Berlin Observer's Address: Town Hall, Berlin, CT 06037

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	*G.W. & Brook Levels
FREQUENCY OF COLLECTION (✓) Continuously												
Hourly												
Daily	X	X										X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	5	5										5
HOW IS DATA RECORDED (✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										X
Other (specify)												

* Ground Water

Instruments used: Tru-check rain gags (Edwards Mfg.).

Calibration: N/A

Location of instrumentation: Brook valley at Elton Rd. municipal well site, Berlin, CT.

Latitude: 41° 36' 00" N

Longitude: 72° 46' 10" W

Approx. Elevation: 110 ft.

USGS Meriden Quadrangle

Observer: Bristol Water Dept. Observer's Address: 119 Rivereide Ave., Bristol, CT 06010

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20		20								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Min-max thermometer (Taylor); rain gage (Science Associates).

Calibration: N/A

Location of instrumentation: Filtration Plant on Rt. 6 in Bristol, CT. Open area, grass surface, two tanks and building nearby.

Latitude: 41° 41' N

Longitude: 72° 59' W

Approx. Elevation: 600 ft.

USGS Bristol, CT Quadrangle

Observer: Denis R. Miller Observer's Address: 23 Birdsview Ave., New Hartford, CT 06057

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X*	X*				X*	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10		10		10	10				10	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X				X	
Other (specify)												

*4 times daily

Instruments used: Anemometers (Airguide & Maximum); thermograph; min-max thermometers.

Calibration: As necessary.

Location of instrumentation: At observer's office, 171 Central in the Forestville section of Bristol.

Latitude: 41° 41' N

Longitude: 72° 54' W

Approx. Elevatiou: 352 ft.

USGS Bristol, CT Quadrangle

NWS Station: Burlington Observer: NDC Water Bureau, PO Box 800, 555 Main St., Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	49	49		49								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" standard rain gage , Shelter, T-Support max-min thermometers.

Calibration: N/A

Location of instrumentation: Barnes Hill Rd., Burlington, CT by SE shores of Nepaug Reservoir. Very hilly wooded area.

Latitude: 41° 48' N

Longitude: 72° 56' W

Approx. Elevation: 510 ft.

USGS Collinsville, CT Quadrangle

Observer: Joseph F. McNamara Observer's Address: Town of Canton WPCF, River Rd., Collinsville, CT 06022

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X				X							
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	15				15							
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand												
Other (specify)												

Instruments used: Min-max thermometer (Taylor), clear rain gage 5" cap. (Taylor).

Calibration: None.

Location of instrumentation: Rain gage and thermometer four feet above ground.

Latitude: 41° 49' N

Longitude: 72° 56' W

Approx. Elevation: 300 ft.

USGS Collinsvills, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1		1	1			1		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify)												

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WD-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: East Hartford, CT. Behind 20 ft. building on grass area. Evergreen trees 15 ft. high, 74m. east. Wind tower 30 ft., solar 15 ft., temp. shield 14 ft.

Latitude: 41° 47' 10" N

Longitude: 72° 37' 52" W

Approx. Elevation: 50 ft.

USGS Hartford, CT North Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X		X	
Hourly	X			X		X	X		X		X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	5			5		5	5		5		5	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X		X	
Strip Charts/Graphs	X			X		X	X		X		X	
By Hand												
Other (specify) punch cards	X			X		X	X		X		X	

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WD-10A), wind speed sensor(WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G); pressure sensor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Enfield, CT. Grassed area in front of Kosciuszko Jr. H.S., tall evergreen trees to the north. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold, baro. inside trailer.

Latitude: 41° 59' 55" N

Longitude: 72° 34' 23" W

Approx. Elevation: 120 ft.

USGS Broad Brook, CT Quadrangle

Observer: Tom Thompson Observer's Address: Town of Enfield, WPCP, 90 Parsons Rd., Enfield, CT 06082

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	8.5	8.5										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 11" Clear-vu rain gage (Taylor).

Calibrations: None.

Location of instrumsntation: On railings surrounding aeration tank in approximate center of plant grounds. Surroundings open.

Latitude: 41° 58' N

Longitude: 72° 36' W

Approx. Elevation: 50 ft.

USGS Broad Brook, CT Quadrangle

Observer: David Arnold Observer's Address: 196 No. Granby Rd., Granby, CT 06035

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Twice Daily						X						
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981						2						
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand						X						
Other (specify)												

Instruments used: Wind odometer (Enertech).

Calibration: None.

Location of instrumentation: Atop 100 ft. tower of wind generator, above all vegetation and buildings for ½ mile radius.

Latitude: 41° 57' N

Longitude: 72° 47' W

Approx. Elevation: 200 ft.

USGS Tariffville, CT Quadrangle

Observer: John Swenson Observer's Address: 26 Buttlee Rd., Granby, CT 06035

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily (May-Sept.)	X	X		X		X	X				X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981		5		5		2	2				5	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X				X	
Other (specify)												

Instruments used: Min-max thermometer (Taylor); anemometer (Maximum Inc., Maestro); barometer (Atco); rain gage , 6" cap. plastic.

Calibration: None.

Location of instrumentation: Wooded, settled area, ground gently sloping toward east. Grass and pine needle surface cover. Wind 18 ft., temp. 5 ft., rain 3 ft., barometer inside house.

Latitude: 41° 55' N

Longitude: 72° 48' W

Approx. Elevation: 260 ft.

USGS Tariffville, CT Quadrangle

Observer: C. Bagley, Travelers Weather Service Observer's Address: 242 Constitution Plaza, Hartford, CT 06103

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		every 6 hours			
Hourly	X	X		X		X	X		X			
Daily	X	X		X		X	X					
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	26	26		26		24	24		25			
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X		X		X	X		X			
By Hand	X	X		X		X	X		X			
Other (specify)												

Instruments used: Dewpoint (Foxboro); temperature (Bristol); wind (Bendix).

Calibration: Calibrations performed as needed by outside technicians.

Location of instrumentation: Downtown Hartford, CT. Sensors in instrument shelters atop 250 Constitution Plaza.

Latitude: 41° 46' N

Longitude: 72° 40' W

Approx. Elevation: 10 ft.

USGS Hartford, CT North Quadrangle

NWS
Station: Hartford - Brainard Field Observer: MDC, WPCP, 240 Brainard Rd., Hartford, CT

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	93	93		93								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments usod: Weighting rain gage (Belfort); min-max thermometer (Weksler); surface thermograph (Belfort).

Calibration: Yearly and as needed by NWS Substation Network Specialist.

Location of instrumentation: Open field approx. 50 ft. from nearest building, grass surface.

Latitude: 41° 44' N

Longitude: 72° 39' W

Approx. Elevation: 10 ft.

USGS Hartford, CT South Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECTPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X	X	
Hourly	X			X		X	X		X	X	X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6	6	6	
HOW IS OATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X	X	
Strip Charts/Graphs	X			X		X	X		X	X	X	
By Hand												
Other (specify) punch cards	X			X		X	X		X	X	X	

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G); pressure seneor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Hartford, CT in trailer at rear of State Office Bldg. parking lot on pavement. Buildings to east. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold, baro. inside trailer.

Latitude: 41° 45' 41" N

Longitude: 72° 40' 43" W

Approx. Elevation: 50 ft.

USGS Hartford, CT North Quadrangle

Observer: Richard E. Link Observer's Address: 8 Winesap Rd., Kensington, CT 06037

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X								
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	18	22		22								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X								
By Hand	X	X										
Other (specify)												

Instruments used: Remote reading recording thermograph (Taylor), 7 day chart -40/+120°F, 12" diameter chart. Standard 8" rain and snow gage on tripod, no wind shield. Thermograph in service since November 1958.

Calibration: Thermograph from time to time. Inserting bulb in solution of ice cubes and water.

Location of instrumentation: Thermograph bulb mounted 4.5 ft. above ground on north side of attached garage. Rain gage in open grass covered back yard approximately 50 ft. from house. Open area (1 acre), small wooded section 60 ft. to south.

Latitude: 41° 36' 30" N

Longitude: 72° 47' 30" W

Approx. Elevation: 200 ft.

USGS Meriden, CT Quadrangle

Observer: Town of Manchester, Cooper Hill Filter Plant Observer's Address: 49 Cooper Hill St., Manchester, CT 06040

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X	X										
Hourly												
Daily												
Weekly	X	X										
TOTAL # YEARS OF RECORD as of Spring 1981	3	3										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand												
Other (specify)												

Instruments used: Rain gage 0" to 12" (Belfort Instrument Co. model #8051).

Calibration: Every six months by Water Dept. by weight bases using special calibration weights.

Location of instrumentation: Located on plant's clearwell with 20 foot diameter clear opening.

Latitude: 41° 46' N

Longitude: 71° 32' W

Approx. Elevation: 200 ft.

USGS Manchester, CT Quadrangle

Observer: D. Wackter, TRC Observer's Address: 125 Silas Deane Hwy., Wethersfield, CT 06109

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	pH
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily												
Weekly	X											X
TOTAL # YEARS OF RECORD as of Spring 1981	.3											.3
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand												
Other (specify)												

Instruments Used: Plastic calibrated rain gage .

Calibration: None.

Location of instrumentation: 119 Love La., Manchester, CT. Flas grassy area in back yard.

Latitude: 41° 46' N

Longitude: 72° 33' W

Approx. Elevation: 80 ft.

USGS Manchester, CT Quadrangle

Observer: State of Conn., DEP Forestry Unit Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		50	50	50				
HOW IS DATA RECORDED												
(✓) Magnetic Tapes								X				
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X				
Other (specify)												

Instruments used: Hydrothermograph, anemometer.

Calibration: Field calibrated annually and as necessary.

Location of instrumentation: Marlborough, CT on Rt. 66 just east of the Blackledge River.

Latitude: 41° 39' N

Longitude: 72° 26' W

Approx Elevation: 350 ft.

USGS Marlbouough, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X					
Hourly				X		X	X					
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1*		1*	1*					
HOW IS DATA RECORDED				*summer only								
(✓) Magnetic Tapes				X		X	X					
Strip Charts/Graphs				X		X	X					
By Hand												
Other (specify)												

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: New Britain, CT at Klingberg Family Center, on top of a hill in well exposed area. Wind tower 30 ft., temp. shield outdoors 9 ft.

Latitude: 41° 39' 25" N

Longitude: 72° 46' 47" W

Approx. Elevation: 170 ft.

USGS New Britain, CT Quadrangle

Observer: S.B. Newman Observer's Address: Copernicus Hall, Central Conn. State College, New Britain, CT 06050

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X		X		X	
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1½		1½	1½		1½		1½	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X		X	X		X		X	
By Hand												
Other (specify)												

Instruments used: Temperature/dewpoint recorder (Foxboro); barograph (Taylor); anemometer/wind vane (Weathermeasure).

Calibration: Instruments have not been calibrated but appear to be quite accurate.

Location of instrumentation: Temp./dewpoint in shelter on roof of Copernicus Hall. Wind vane/anemometer on roof of Copernicus Hall, partially blocked by observatory dome to west approx. 20 ft. Barograph inside weather laboratory in Copernicus Hall.

Latitude: 41° 41' 20" N

Longitude: 72° 46' W

Approx. Elevation: 150 ft.

USGS New Britain, CT Quadrangle

NWS
Station: Shuttle Meadow Reservoir Observer: Office of Director of Water, 1000 Shuttle Meadow Ave., New Britain, CT 06050

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of instrumentation: Home of caretaker at Shuttle Meadow Run.

Latitude: 41° 39' N

Longitude: 72° 49' W

Approx. Elevation: 410 ft.

USGS New Britain, CT Quadrangle

Observer: C. Larom, The Stanley Works Observer's Address: 195 Lake St., New Britain, CT 060

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously					X	X	X					
Hourly					X							
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981					5	5	5					
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs					X	X	X					
By Hand					X							
Other (specify)												

Instruments used: Temperature (Science Associates #170 @ #175 shelter); wind speed and direction (Aeromne #4-120 and 4-141 recorder).

Calibration: Thermometers calibrated annually.

Location of instrumentation: Wind on roof of Boiler house approx. 50 ft. above ground. Temperature on north side of bldg. spprox. two ft. below roof line of two-story Boiler house addition.

Latitude: 41° 40' N

Longitude: 72° 47' 30" W

Approx. Elevation: 200 ft.

USGS New Britain, CT Quadrangle

Observer: Walter M. Karabin, Plainville WPC Observer's Address: Cronk Rd., Plainville, CT 06062

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X	X	X	X							
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	15	15	15	15	15							
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X	X	X	X							
Other (specify)												

Instruments used: Thermometsr (Taylor); rain gage (Taylor).

Calibration: None.

Location of instrumontation: Open area at Filtration Plant, adjacent to the Pequabuck River.

Latitude: 41° 41' N

Longitude: 72° 52' W

Approx. Elevation: 150 ft.

USGS New Britain, CT Quadrangle

Observer: Harold J. Johnston Observer's Address: MDC Rocky Hill WPCP, Rocky Hill, CT 06067

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily				X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				23								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand				X								
Other (specify)												

Instruments used: Min-max thermometer (Taylor).

Calibration: N/A

Location of instrumentation: 20 ft. from building on NE side, mounted to flag pole.

Latitude: 41° 40' N

Longitude: 72° 38' W

Approx. Elevation: 100 ft.

USGS Hartford, CT South Quadrangle

Observer: Richard A. Rothstein Observer's Address: 9 Amy La., Simsbury, CT 06070.

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X				X	
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	½			*		*	*				*	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X											
Other (specify)												

*not recorded

Instruments used: Barometer (Taylor); fence post rain gage ; downeaster "Don Kent" wind direction and speed; indoor - outdoor thermometer (Taylor).

Calibration: None.

Location of instrumentation: Home of observer, situated on rising terrain - plateau in Farmington River valley; house surrounded by woods. Winds blocked by woods except from north. Wind 10 m., temperature 8 m., precip. 2m. Rain gage mounted on deck fence post - clear exposure.

Latitude: 41° 50' N

Longitude: 72° 51' W

Approx. Elevation: 350 ft.

USGS Avon, CT Quadrangle

NWS Station: Simsbury Observer: Town of Simsbury Sewer Dept., Drake Hill Rd., Simsbury, CT 06070

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	?	?		?								14
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								X
Other (specify)												

Instruments used: Standard rain gage ; hi-lo thermometer.

Calibration: None.

Location of instrumentation: Rain gage is mounted on hand rail near chlorine tank, about 50 ft. from nearest building, several hundred feet from trees. Thermometer mounted on north side of building at treatment plant site. River elevation taken from transmitter in Tarriffville, CT of river gauge at Drake Hill bridge.

Latitude: 41° 51' N

Longitude: 72° 48' W

Approx. Elevation: 150 ft.

USGS Avon, CT Quadrangle

Observer: Barry D. O'Brien Observer's Address: 1215 West Center St., Southington, CT 06489

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	2	4		*		**						
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X						
Other (specify)												

* records begin Jan. 11, 1981
** 4 yrs. max gusts only

Instruments used: Tipping bucket rain gage (Edmund); min-max thermometer (Taylor); anemometer - wind speed indicator with peak gust register (Maximum, Inc.).

Calibration: Performed by observer. Tipping bucket gage compared with standard cylindrical type rain gage; anemometer is calibrated by manufacturer to within 3 mph.

Location of instrumentation: Valley bottom site, small grassy area partially surrounded by trees. Rain gage 20 ft. above ground away from trees, etc.; anemometer mounted 30 ft. above ground away from sources of errors and trees; thermometer 4½ ft. above grass-covered ground in an instrument shelter.

Latitude: 41° 37' N

Longitude: 72° 54' W

Approx. Elevation: 209 ft.

USGS Southington, CT Quadrangle

Observer: G.A. Emond Observer's Address: Southington Water Dept., 65 High St., Southington, CT 06489

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	31	31		*								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

*17 years of record at High St.; thermometers recently moved from High St. to reservoir site.

Instruments used: Thermometers (Taylor & Freas); rain gage.

Calibration: None.

Location of instrumentation: Hillside location near treatment house for reservoirs, open above equipment with some small shrubbery nearby (no taller than equipment).

Latitude: 41° 34' 30" N

Longitude: 72° 56' 30" W

Approx. Elevation: 380 ft.

USGS Southington, CT Quadrangle

NWS
Station: Hartford Reservoir #6 Observer: MDC Water Treatment Plant, 1420 Farmington Ave., West Hartford, CT 06107

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	112	112		50								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X			X								
By Hand	X	X		X								
Other (specify)												

Instruments used: Rain gage (Casella); min-max thermometer (Bristol).

Calibration: Gage is checked by stick measurement.

Location of instrumentation: Inside building at West Hartford Reservoir.

Latitude: 41° 47' 30" N

Longitude: 72° 47' W

Approx. Elevation: 400 ft.

USGS Avon, CT Quadrangle

NWS
Station: West Hartford Observer: MDC Water Bureau, PO Box 800, 555 Main St., Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	41	41										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage ; tipping bucket gage .

Calibration: N/A

Location of instrumentation: Filter Plant, Hartford Water Bureau. Station is in residential area with several small reservoirs nearby. Plant is near Reservoir #1.

Latitude: 41° 45' N

Longitude: 72° 47' W

Approx. Elevation: 275 ft.

USGS Avon, CT Quadrangle

NWS
Station: Hartford WSO AP Observer: NWS Office, Bradley International Airport, Windsor Locks, CT 06096

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X		X	X	X	X	X	X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	32	32		32		32	32	32	32	32	32	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X	X		X		X	X	X	X	X	X	
Strip Charts/Graphs	X	X		X		X	X	X	X	X	X	
By Hand	X	X		X		X	X	X	X	X	X	
Other (specify)												

Instruments used: 8" standard rain gage ; 12" D.T. recording rain gage , tipping bucket rain gage ; max-min thermometers

Calibration: Twice yearly by NWS Substation Network Specialist.

Location of instrumentation: Bradley International Airport in Windsor Locks, CT.

Latitude: 41° 56' N

Longitude: 72° 41' W

Approx. Elevation: 160 ft.

USGS Windsor Locks, CT Quadrangle

Litchfield County Site Reports

NWS
Station: Barkhamsted Observer: MDC Water Bureau, PO Box 800, 555 Main St., Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	49	49										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: NWS 8" standard rain gage .

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Beach Rock Rd., Barkhamsted, CT. Very hilly area, little residential around.

Latitude: 41° 55' N
Longitude: 72° 57' W
Approx. Elevation: 660 ft.
USGS New Hartford, CT Quadrangle

Observer: State of Conn., DEP Forestry Unit Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		50	50	50				
HOW IS DATA RECORDED												
(✓) Magnetic Tapes								X				
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X				
Other (specify)												

Instruments used: Hydrothermographs, anemometer.

Calibration: Field calibrated annually and as necessary.

Location of instrumentation: Mohawk Mtn., Cornwall, CT. South of Rt. 4, below Mohawk Mtn. Rd.

Latitude: 41° 49' N
Longitude: 73° 18' W
Approx. Elevation: 1350 ft.
USGS Cornwall, CT Quadrangle

NWS
Station: Falls Village Observer: Hartford Electric Light Co., Falls Village, CT 06031

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	67	67		67								67
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								X
Other (specify)												

Instruments used: 8" standard rain gage.

Calibration: N/A

Location of instrumentation: Falls Village section of Canaan, CT. Site on Housatonic River.

Latitude: 41° 57' N
Longitude: 73° 22' W
Approx. Elevation: 550 ft.
USGS South Canaan, CT Quadrangle

Observer: Bristol Water Dept. Observer's Address: 119 Riverside Ave., Bristol, CT 06010

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Rain gage (Science Associates).

Calibration: N/A

Location of instrumentation: Cook's Dam, Harmony Hill Rd. in Harwinton, CT. Field, grassy area, one tree close by.

Latitude: 41° 46' 30" N
Longitude: 72° 02' 30" W
Approx. Elevation: 850 ft.
USGS Torrington, CT Quadrangle

Observer: Bristol Water Dept. Observer's Address: 119 Riverside Ave., Bristol, CT 06010

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Rain gage (Science Associates).

Calibration: N/A

Location of instrumentation: #5 Reservoir on Blueberry Hill Rd. in Harwinton. Open field, grass surface cover.

Latitude: 41° 44' N

Longitude: 73° 00' W

Approx. Elevation: 900 ft.

USGS Torrington, CT Quadrangle

NWS
Station: Bulls Bridge Dam Observer: Northeast Utilities Service Co., Box 270, New Milford, CT 06776

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40		40								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Standard rain gage and max-min thermometers.

Calibration: N/A

Location of instrumentation: Kent, CT.

Latitude: 41° 39' 30" N

Longitude: 73° 29' 30" W

Approx. Elevation: 260 ft.

USGS Kent, CT Quadrangle

Observer: Ted Legendre, Town of Litchfield, Sewer Dept. Observer's Address: PO Box 343, Litchfield, CT 06759

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	*	*		10								
HOW IS DATA RECORDED	*not recorded											
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand				X								
Other (specify)	Estimate											

Instruments used: Min-max thermometer (Taylor).

Calibration: N/A

Location of instrumentation: NE corner of building behind trees.

Latitude: 41° 45' N

Longitude: 73° 11' W

Approx. Elevation: 1080 ft.

USGS Litchfield, CT Quadrangle

Observer: Denis Miller Observer's Address: 23 Birdsview Ave., New Hartford, CT 06057

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X*	X*				X*	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10		10		10	10				10	
HOW IS DATA RECORDED	*4 times daily											
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X				X	
Other (specify)												

Instruments used: Anemometers (Airguide & Maximum); thermograph; min-max thermometers.

Calibration: As necessary.

Location of instrumentation: Home of observer in Bakersville section of New Hartford.

Latitude: 41° 50' N

Longitude: 73° 01' W

Approx. Elevation: 775 ft.

USGS Torringron, CT Quadrangle

Observer: Denis R. Miller Observer's Address: 23 Birdsview Ave., New Hartford, CT 06057

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X*	X*				X*	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10		10		10	10				10	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X				X	
Other (specify)												

*4 times daily

Instruments uaed: Anemometers (Airguide & Maximum); thermograph; min-max thermometers.

Calibration: As neceasary.

Location of instrumentation: One mile north of observer's residence in a valley location in Maple Hollow section of New Hartford.

Latitude: 41° 50' N

Longitude: 73° 01' W

Approx. Elevation: 566 ft.

USGS Torrington, CT Quadrangle

Observer: Kenneth Bailey Observer's Address: WPCF, 123 West St., New Milford, CT 06776

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	21	21		21								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Non-recording rain gage (Taylor); non-recording thermometer (Springfield).

Calibration: N/A

Location of instrumentation: Rain gage mounted on top of chain link fence, unobstructed; thermometer mounted on side of building, one foot off wall. North side shaded majority of time.

Latitude: 41° 34' N

Longitude: 73° 25' W

Approx. Elevation: 240 ft.

USGS New Milford, CT Quadrangle

NWS
Station: Rocky River Dam Observer: Northeast Utilities Service Co., Rocky River Dam, New Milford, CT 06776

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
(✓) Continuously												
Hourly												
Daily	X	X										X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40										40
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										X
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of Instrumentation: Rocky River Dam in New Milford, CT.

Latitude: 41° 35' N

Longitude: 73° 26' W

Approx. Elevation: 220 ft.

USGS New Milford, CT Quadrangle

NWS
Station: Norfolk 2SW Observer: Edward C. Childs, D.F. Russ, Norfolk, CT 06058

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Evap.
(✓) Continuously	X	X		X		X	X	X			X	X
Hourly												
Daily	X	X		X				X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		10	50	40			50	15
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X		X				X				
By Hand	X	X		X				X				X
Other (specify)						Instrument					Instrument	

Instruments used: Standard rain gage ; thermohygrograph (Belfort); max-min recording thermometers; psychrometer; barometer/altimeter (Keuffel & Esser); anemometer.

Calibration: Twice a year by NWS Substation Network Specialist.

Location of instrumentation: Two miles SW of Norfolk, CT. Area is flat above a wooded slope to north and NW dropping to a 58 aere deep pond (where ice depths are measured). Instruments are enclosed in a fenced area 30-50 ft. from low buildings and tree growth. Wind accumulator is attaehed to anemometer and vane atop 50 ft. tower on prominent hill to the south of the station.

Latitude: 41° 58' N

Longitude: 73° 13' W

Approx. Elevation: 1337 ft.

USGS Norfolk, CT Quadrangle

Observer: James A. March Observer's Address: Amici Assoc., Cornwall Bridge, CT 06754

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously						X						
Hourly												
Daily	X			X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	3			3		3						
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs						X						
By Hand	X			X								
Other (specify)												

Instruments used: Rain gage , high-low thermometer, wind velocity recorder.

Calibration: N/A

Location of instrumentation: Open space on top of Mtn. in Sharon, CT.

Latitude: 41° 52' N

Longitude: 73° 25' W

Approx. Elevation: 1229 ft.

USGS Ellsworth, CT Quadrangle

NWS
Station: Thomaston Dam Observer: U.S. Corps of Engineers, Thomaston Dam, Blakeman Rd., Thomaston, CT 06787

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								River
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X										X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20										20
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X										X
Other (specify)												

Instruments used: Recording rain gage (Fischer & Porter).

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Site on Naugatuck River in Thomaston, CT.

Latitude: 41° 42' N

Longitude: 73° 03' W

Approx. Elevation: 538 ft.

USGS Thomaston, CT Quadrangle

NWS
Station: Torrington Observer: Torrington Water Co., 110 Prospect St., Torrington, CT 06790

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of instrumentation: Open area at Water Co., 110 Prospect St. in Torrington, CT.

Latitude: 41° 48' N

Longitude: 73° 07' W

Approx. Elevation: 580 ft.

USGS Torrington, CT Quadrangle

NWS
Station: Shepaug Dam Observer: Waterbury Water Co., 21 E. Aurora St., Waterbury, CT 06708

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	41	41		41								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" standard rain gage ; max & min thermometers.

Calibration: N/A

Location of instrumentation: Shepaug Dam Reservoir in Warren, CT.

Latitude: 41° 43' N

Longitude: 73° 18' W

Approx. Elevation: 840 ft.

USGS New Preston, CT Quadrangle

Observer: Theodore Averill Observer's Address: Calhoun St., Washington Depot, CT 06794

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously						X	X				X	
Hourly												
Daily	X	X				X	X				X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	8	8				3	10				8	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X				X	X					
Other (specify)												

Instruments used: Flat bottom St. vile rain gage ; indoor-outdoor and min-max thermometers (Taylor); anemometer (Maximum); hand made wind director; barometer (I/B).

Calibration: None.

Location of instrumentation: Farm located two miles NW of Washington Depot near top of Baldwin Hill. Rain gage on top of hillside clothes dryer; thermometers on back porch - northerly direction- 8 ft. off ground; anemometer and wind direction on house roof (25 ft.).

Latitude: 41° 39' 30" N

Longitude: 73° 20' W

Approx. Elevation: 900 ft.

USGS New Preston Quadrangle

Observer: Mareten Linsley Observer's Address: Magnolia Hill Rd., Watertown, CT 06795

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily or more often	X	X		X			X				X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	7½	7½		7½			7½				7½	
HOW IS DATA RECORDED	(18 years previous records at Southbury address)											
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X			X				X	
Other (specify)												

Instruments used: Standard 6" rain gage ; barometer (Swift Instrument); max-min thermometer (Taylor); weather vane.

Calibration: Thermometer checked in winter at freezing point; barometer checked frequently with Hartford and New York reports.

Location of instrumentation: 7½ yeare in Watertown. Open country, moderate valley from W to N to E increasing in elevation; from SW to SE on a hill decreasing in elevation. Remainder of time was in Southbury, CT, elevation 225 ft.

Latitude: 41° 38' N

Longitude: 73° 10' W

Approx. Elevation: 740 ft.

USGS Litchfield, CT Quadrangle

NWS

Station: Wigwam Reservoir Observer: Waterbury Water Co., 21 S. Aurora St., Waterbury, CT 06708

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40		40								40
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								X
Other (specify)												

Instruments used: 8" standard rain gage ; max & min thermometers; recording rain gage (Fischer & Porter).

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Along access road to dam near admin. building, in Watertown, CT. At Reservoir control station.

Latitude: 41° 41' N

Longitude: 73° 09' W

Approx. Elevation: 570 ft.

USGS Litchfield, CT Quadrangle

Observer: Robert Zappone Observer's Address: 625 Main St., Watertown, CT 06795

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	2											
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X											
Other (specify)												

Instruments used: Remote recording rain gage (Weather Measure Corp.); event recorder (Weather Measure Corp.).

Calibration: None.

Location of instrumentation: On roof of Town Hall Annex, open area.

Latitude: 41° 36' N

Longitude: 73° 07' W

Approx. Elevation: 600 ft.

USGS Waterbury, CT Quadrangle

Observer: Bill Jacquemin Observer's Address: PO Box 51, Winchester, CT 06094

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								Evapo-
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	ration
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X	X		X	X	X
Hourly												
Daily	X	X		X		X	X		X			
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10		10		*	*	2½		1½**	9	4
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X		X(2yrs)	X(2yrs)	X		X	X	X
By Hand	X	X				X(10yrs)	X(10yrs)		X		X	
Other (specify)												

*Daily 10 yrs., continuously 2 yrs.
**not presently recorded

Instruments used: 8" rain gage (Sci. Assoc.); remote rain gage (Belfort); hygrothermograph (Belfort); radiometer (Sci. Assoc.); recording wind system (Sci. Assoc.); barograph (Taylor); evaporation (Sci. Assoc.).

Calibration: Hygrothermograph calibrated yearly by observer.

Location of instrumentation: Winchester Center, CT, south exposure Grantville Rd. Temp. and humidity 5 ft. over grassy ground in shelter. Winds 30 ft. above ground. Observation time midnight.

Latitude: 41° 55' N

Longitude: 73° 09' W

Approx. Elevation: 1346 ft.

USGS Norfolk, CT Quadrangle

Observer: R.J. Kemp Observer's Address: Winsted Sewage Treatment Plant, No. Main St, Winsted, CT 06098

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	30	30		30								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)	Plant Log											

Instruments used: Min-max thermometer (Taylor); rain gage (Taylor).

Calibration:

Location of instrumentation: Winsted, CT Rt. 8 North. The thermometer is mounted on the north side of building, sheltered from direct sun. Rain gage 5 ft. off ground on open lawn.

Latitude: 41° 56' N

Longitude: 73° 03' W

Approx. Elevation: 550 ft.

USGS Winchester, CT Quadrangle

NWS
Station: Woodbury Observer: Mr. Earl Gillette, Saw Pit Hill Rd., Woodbury, CT 06798

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	41	41		41								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" standard rain gage, NWS thermometers.

Calibration: N/A

Location of instrumentation: Home of Observer.

Latitude: 41° 33' N
Longitude: 73° 14' W
Approx. Elevation: 650 ft.
USGS Woodbury, CT Quadrangle

Middlesex County Site Reports

NWS
Station: Cockaponset Observer: Don Berry, Ranger Headquarters, Cockaponset State Forest, Ranger Rd., Haddam, CT 06438

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	39	39		39								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" standard rain gage, shelter U-tube thermometer, recording rain gage (Fischer & Porter).

Calibration: Biannually by NWS Substation Network Specialist.

Location of instrumentation: Cockaponset Ranger Station. Gage is on side of Head Ranger's home. Hilly terrain, heavily wooded.

Latitude: 41° 27' 30" N

Longitude: 72° 31' W

Approx. Elevation: 160 ft.

USGS Haddam, CT Quadrangle

Observer: H.L. Chamberlain Observer's Address: Northeast Utilities, PO Box 270, Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Δ Temp.
FREQUENCY OF COLLECTION												
(✓) Continuously					X	X	X		X			
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981					6	6	6		6			6
HOW IS DATA RECORDED												
(✓) Magnetic Tapes					X	X	X		X			X
Strip Charts/Graphs					X	X	X		X			X
By Hand												
Other (specify)												

Instruments used: Wind speed & direction (Climatronics F460); temperature and temperature difference (Rosemount 104 MN); dew point (Foxboro Dewcell 2711AG).

Calibration: Extensive program of periodic data checking, maintenance and calibration. Most calibration and maintenance performed by staff technicians.

Location of instrumentation: Connecticut Yankee Nuclear Power Station in Haddam Neck, CT. Wind speed & direction 33 ft. and 196 ft.; temp. 33 ft. and 196 ft.; dew point 33 ft.; temp. difference 120 ft. and 196 ft.

Latitude: 41° 28' 46" N

Longitude: 72° 29' 01" W

Approx. Elevation: 11 ft.

USGS Deep River, CT Quadrangle

Observer: H.L. Chamberlain Observer's Address: Northeast Utilities, Box 270, Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Δtemp. *visiblity
FREQUENCY OF COLLECTION (✓) Continuously					X	X	X		X	X		X
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981					7	7	7		7	7		7
HOW IS DATA RECORDED (✓) Magnetic Tapes					X	X	X		X	X		X
Strip Charts/Graphs					X	X	X		X	X		X
By Hand												
Other (specify)												

*visibility monitored through 8/80

Instruments used: Wind speed & direction (Climatronics F460); temp. & temp. difference (Rosemount 104MN); dew point (Foxboro Dewcell 2711AG); solar radiation (Eppley 848); visibility (MRI 1580); direct solar radiation (Eppley N1P).

Calibration: Extensive program of periodic data checking, maintenance and calibration. Most calibration and maintenance performed by staff technicians.

Location of instrumentation: Maromas Power Station, located in wooded area of Middletown, CT. Wind speed & direction 33 ft., 150 ft., 325 ft., 494 ft.; temp. and dew point 33 ft., 494 ft.; temp. difference 150 ft., 325 ft., 494 ft; solar, direct solar and visibility 12 ft.

Latitude: 41° 31' 45" N

Longitude: 72° 33' 50" W

Approx. Elevation: 50 ft.

USGS Middle Haddam, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION (✓) Continuously				X			X					
Hourly				X			X					
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1			1					
HOW IS DATA RECORDED (✓) Magnetic Tapes												
Strip Charts/Graphs				X			X					
By Hand												
Other (specify) punch cards				X			X					

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Middletown, CT on top of City Hall bldg. Wind tower on tripod above penthouse - 56 ft. above ground. Temp. inside sampling manifold.

Latitude: 41° 33' 39" N

Longitude: 72° 38' 54" W

Approx. Elevation: 30 ft.

USGS Middletown, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				2*		2*	2*			1*		
HOW IS DATA RECORDED				*summer only								
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify) punch cards				X		X	X			X		

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard inetruments by staff technicians.

Location of instrumentation: Middletown, CT on top of five-story building at Conn. Valley Hospital. Wind tower 72 ft. above ground; solar 60 ft.; temp. inside sampling manifold.

Latitude: 41° 33' 07" N

Longitude: 72° 37' 50" W

Approx. Elevation: 150 ft.

USGS Middletown, CT Quadrangle

NWS
Station: Middletown 4W Observer: Robert Poole, RD #1, Box 744, Middletown, CT 06457

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	River Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X							X	X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	123	123		123							123	123
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X							X	X
Other (specify)												

Instruments used: 8" standard rain gage ; recording thermomster and barometer (Bristol).

Calibration: As necessary by NWS Substation Network Specialist.

Location of instrumentation: At Mt. Higby Reservoir.

Latitude: 41° 33' N

Longitude: 72° 43' W

Approx. Elevation: 369 ft.

USGS Middletown, CT Quadrangle

Observer: S. Moncata Observer's Address: Middletown WPCP, River Rd., Middletown, CT 06457

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	type weather
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	5	5		5								5
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								X
Other (specify)												

Instruments used: Hi-lo thermometer (Taylor). Measurements taken at 8:00 a.m.

Calibration:

Location of instrumentation: Thermometer on window ledge, second story cement block bldg., no vegetation. This plant has been in operation since 4-1-76. Old plant was in operation from 1954-1976, and has all records plus wind direction.

Latitude: 41° 33' N

Longitude: 72° 35' W

Approx. Elevation: 50 ft.

USGS Middle Haddam, CT Quadrangle

New Haven County Site Reports

NWS
Station: Ansonia 1 NE Observer: Ansonia Derby Water Co. 230 Beaver St., Ansonia, CT 06401

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	84	84										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" non-recording standard rain gage .

Calibration: As necessary by NWS Substation Network Specialist.

Location of instrumentation: Quillinan Reservoir site in Ansonia, CT. Open field with no obstructions, only grass surface cover.

Latitude: 41° 21' N

Longitude: 73° 04' W

Approx. Elevation: 140 ft.

USGS Ansonia, CT Quadrangle

Observer: Bridgeport Hydraulic Co. Observer's Address: 835 Main St., Bridgeport, CT 06609

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	20	20		20								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: Seymour Reservoir Dam in Beacon Falls, CT.

Latitude: 41° 26' N

Longitude: 73° 05' W

Approx. Elevation: 340 ft.

USGS Naugatuck, CT Quadrangle

Observer: James Theriault Observer's Address: 1325 Cheshire St., Cheshire, CT 06410

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X								
Hourly												
Daily	X	X		X			X					
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10	10		10			10					
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X			X					
Other (specify)	Rain gage											

Instruments used: Rain gage (Springfield); min-max thermometer (Taylor).

Calibration: None.

Location of instrumentation: Rain gage on open grass surface, no obstructions, mounted on 4 ft. pole. Thermometer, wall mounted, north wall, shaded area.

Latitude: 41° 32' N

Longitude: 72° 51' W

Approx. Elevation: 100 ft.

USGS Meriden, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X		
Hourly	X			X		X	X		X	X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	5			5		5	5		5	4		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X		
Strip Charts/Graphs	X			X		X	X		X	X		
By Hand												
Other (specify) punch cards	X			X		X	X		X	X		

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Derby, CT, between an industrial and commercial area on top of a flood control dike for the Housatonic River. A sewage treatment plant is to the east. Trailer on dirt and grass. Wind tower 30 ft., rain gage 15 ft., solar 15 ft.

Latitude: 41° 19' 02" N

Longitude: 73° 05' 50" W

Approx. Elevation: 50 ft.

USGS Ansonia, CT Quadrangle

NWS
Station: East Haven - Saltonstall Observer: New Haven Water Co., 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	70	70										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage ; Fisher & Porter recording rain gage .

Calibration: As necessary by NWS Substation Network Specialist.

Location of instrumentation: Lake Saltonstall, just off Rt. 1 in East Haven, CT.

Latitude: 41° 17' N
Longitude: 72° 52' W
Approx. Elevation: 30 ft.
USGS Branford, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X							X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	70	70		70							70	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X							X	
Other (specify)												

Instruments used: Standard rain gage , thermometers and barometer.

Calibration: N/A

Location of instrumentation: Water Filtration Plant at south end of Lake Whitney in Hamden, CT.

Latitude: 41° 20' N
Longitude: 72° 55' W
Approx. Elevation: 30 ft.
USGS New Haven, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1*		1*	1*			1*		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify)												

*summer only

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WD-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Madison, CT on Hammonasset Point on Long Island Sound. Shed is surrounded by low brush. Wind tower 30 ft., solar 12 ft., temp. inside sampling manifold.

Latitude: 41° 15' 35" N

Longitude: 72° 33' 03" W

Approx. Elevation: 10 ft.

USGS Clinton, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	30	30										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: South end of Lake Hammonasset, just off Rt. 80 in Madison, CT.

Latitude: 41° 21' N

Longitude: 72° 37' W

Approx. Elevation: 273 ft.

USGS Clinton, CT Quadrangle

Observer: D.M. Daniels Observer's Address: Evansville Ave., Meriden, CT 06450

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X	X		X								
Hourly												
Daily	X	X		X			X					
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	?	?		?			?					
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand				X			X					
Other (specify)												

Instruments used: Weighting rain gage (Belfort); min-max thermometer (Taylor); anemometer.

Calibration: None.

Location of instrumentation: Thermometer on north side of building, no obstructions. Grass cover in front, then asphalt. Height 4 ft. Rain gage on top of building, no obstructions, height 15 ft. Anemometer on top of bldg. at Meriden-Markham airport (acrosa street), no obstructions.

Latitude: 41° 31' N

Longitude: 72° 50' W

Approx. Elevation: 100 ft.

USGS Meriden, CT Quadrangle

Observer: State of Conn., DEP Forestry Unit Observer's Address: 165 Capitol St., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		50	50	50				
HOW IS DATA RECORDED												
(✓) Magnetic Tapes								X				
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X				
Other (specify)												

Instruments used: Hygrothermographs, anemometer.

Calibration: Field calibrated annually and as necessary.

Location of instrumentation: Middlebury, CT, junction Rts. 64 and 188.

Latitude: 41° 31' N

Longitude: 73° 08' W

Approx. Elevation: 700 ft.

USGS Woodbury, CT Quadrangle

Observer: H.L. Chamberlain Observer's Address: Northeast Utilities, Box 270, Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously										X		
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981										2+		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes										X		
Strip Charts/Graphs										X		
By Hand												
Other (specify)												

Instruments used: Solar radiation (Epplsy 848); direct solar radiation (Eppley NIP).

Calibration: Extensive program of periodic data checking, maintenance and calibration. Most calibration and maintenance performed by staff technicians.

Location of instrumentation: Devon Power Plant, Milford, CT. Instruments mounted on roof of building.

Latitude: 41° 12' 27" N

Longitude: 73° 06' 30" W

Approx. Elevation: 65 ft.

USGS Milford, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	55	55										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage.

Calibration: N/A

Location of instrumentation: South of Rt. 1 at Milford Reservoir dam in Milford, CT.

Latitude: 41° 12' 30" N

Longitude: 73° 05' 30" W

Approx. Elevation: 30 ft.

USGS Milford, CT Quadrangle

Observer: So. Conn. Gas Co., L.N.G. Plant Observer's Address: 775 Oronoque Rd., Milford, CT 06460

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								Degree
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Day
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly				X								X
Daily											X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				10							8	10
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X								
By Hand				X							X	X
Other (specify)												Meter

Instruments used: Bristol Mod. 1T500ZDL Temp. Recorder, Princo #469 Mercurial barometer, Johnson fuel demand meter (degree days).

Calibration: Barometer: bi-annual calibration by vendor.

Location of instrumentation: East bank of Housatonic River at Oronoque Rd. Mostly open with some obstruction from bldgs. and liquid gas storage tank. Temp. recorder, degree day meter, NW corner of bldg., height 20 ft. Barometer indoors.

Latitude: 41° 14' 15" N

Longitude: 73° 05' 15" W

Approx. Elevation: 30 ft.

USGS Milford, CT Quadrangle

NWS
Station: Mount Carmel Observer: E.W. Pearson, The Lockwood Farm, 890 Evergreen Ave., Mount Carmel, CT 06518

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X				X		X		
Hourly												
Daily	X	X		X			X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	46	46		46			46	46		46		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X				X		X		
By Hand	X	X		X			X	X				
Other (specify)												

Instruments used: Non-recording rain gage (Belfort); min-max thermometer (NWS); hygrothermograph (Belfort); psychrometer (Science Assoc.); pyrheliometer (Belfort); wind valve.

Calibration: Thermometers and hygrothermograph checked semi-annually with standard thermometers; Pyrheliometer field calibrated annually against test equipment by Experiment Station staff technicians.

Location of instrumentation: Mt. Carmel, CT off Rt. 10. Instruments in open field with grass surface cover. Two 75 ft. evergreen trees form obstruction to ENE at approx. 45 ft. Height of measurements: wind 18 ft., temp. and humidity 5 ft., radiation 7 ft.

Latitude: 41° 24' N

Longitude: 72° 54' W

Approx. Elevation: 180 ft.

USGS Mt. Carmel, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X	X	
Hourly	X			X		X	X		X	X	X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6	6	6	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X	X	
Strip Charts/Graphs	X			X		X	X		X	X	X	
By Hand												
Other (specify) Punch cards	X			X		X	X		X	X	X	

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G); pressure sensor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: New Haven, CT. Located in commercial area of city near entrance ramp to I-91. Buildings to the west. Trailer on grass. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold, baro. inside trailer.

Latitude: 41° 18' 38" N

Longitude: 72° 55' 02" W

Approx. Elevation: 20 ft.

USGS New Haven, CT Quadrangle

NWS Station: New Haven Observer: Bureau of Engineering, Rm. 504, 200 Orange St., New Haven, CT 06510

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X								
Hourly												
Daily	X			X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	12			12								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X			X								
By Hand	X			X								
Other (specify)												

Instruments used: Weighting rain gage (Belfort); min-max thermometers (Weksler); thermograph (Belfort).

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Rooftop location; flat, gravel covered roof; 3 ft. parapet wall; in central business district at observer's address (above).

Latitude: 41° 18' N

Longitude: 72° 56' W

Approx. Elevation: 20 ft.

USGS New Haven, CT Quadrangle

Observer: The United Illuminating Co. Observer's Address: Environ. Eng. Dept., 80 Temple St., New Haven, CT 06506

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X	X	X	X					
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				8	8	8	8					
HOW IS DATA RECORDED												
(✓) Magnetic Tapes						X*	X*					
Strip Charts/Graphs				X	X	X	X					
By Hand												
Other (specify)												

*new installation 1981

Instruments used: Temperatures (RTD Rosemount Eng.); wind (Bendix aerovane 120).

Calibration: Calibration of wind instruments by TRC consultants on annual or semi-annual basis.

Location of instrumentation: 300 ft. south of New Haven Harbor Station power building. Surface temp. at mid-point and at top of tower (297 ft.); wind speed and direction at 297 ft.

Latitude: 41° 17' N

Longitude: 72° 54' W

Approx. Elevation: 10 ft.

USGS New Haven, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: South end of Lake Gaillard in North Branford, CT.

Latitude: 41° 20' N

Longitude: 72° 46' W

Approx. Elevation: 200 ft.

USGS Branford, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: Menunckatuck Reservoir dam in North Guilford, CT.

Latitude: 41° 22' 45" N

Longitude: 72° 42' 45" W

Approx. Elevation: 253 ft.

USGS Durham, CT Quadrangle

Observer: Donald Baerman Observer's Address: 42 Wayland St., Mt. Carmel Station, CT 06518

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	pH
FREQUENCY OF COLLECTION												
(✓) Continuously												as it occurs
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981												1*
HOW IS DATA RECORDED												*irregularly
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand												X
Other (specify)												

Instrumsnts used: Hydrion paper.

Calibration: N/A

Location of instrumentation: North Haven, CT at home of observer.

Latitude: 41° 22' N

Longitude: 72° 54' W

Approx. Elevation: 100 ft.

USGS New Haven, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	70	70										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instrumsnts used: Standard rain gage .

Calibratien: N/A

Location of instrumentation: Wepawaug Reservoir dam, just off Rt. 34 in Orange, CT.

Latitude: 41° 18' N

Longitude: 73° 02' W

Approx. Elevation: 183 ft.

USGS Ansonia, CT Quadrangle

Observer: Raymond R. Dudginski Observer's Address: 24 Cedar Hill Dr., Prospect, CT 06712

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								Weather
FREQUENCY OF COLLECTION	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Conditions
(✓) Continuously												
Hourly												
Daily	X	X		X		X						X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	1*	1*		1*		1*						1*
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X						X
Other (specify)												

*1 year in Prospect, 20 years previously in Ansonia.

Instruments used: Staudard rain gage ; wind gust register (Maximum); min & max thermometers (Maximum).

Calibration: As necessary by manufacturer.

Locstion of instrumentation: Home of observer.

Latitude: 41° 30' 30" N

Longitude: 72° 59' 30" W

Approx. Elevation: 800 ft.

USGS Southington, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION (✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	60	60										
HOW IS DATA RECORDED (✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: Prospect Reservoir dam in Prospect, CT.

Latitude: 41° 30' N

Longitude: 72° 57' W

Approx. Elevation: 430 ft.

USGS Mount Carmel, CT Quadrangle

Observer: Heritage Water Co. Observer's Address: Heritage Rd., Southbury, CT 06488

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION (✓) Continuously	X						X					
Hourly												
Daily	X	X				X	X					
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	?	?				?	?					
HOW IS DATA RECORDED (✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X				X	X					
Other (specify)												

Instruments used: Rain gage (Tru-Chek).

Calibration: N/A

Location of instrumentation: Out from any buildings, mounted on anchor type fence in vicinity of golf course.

Latitude: 41° 29' N

Longitude: 73° 13' W

Approx. Elevation: 200 ft.

USGS Southbury, CT Quadrangle

Observer: E.J. Anderson **Observer's Address:** Wallingford Electric Division, 100 John St.,Wallingford, CT 06492

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly				X							X	
Daily				X							X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				15							15	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand				X							X	
Other (specify)												

Instruments used: Thermometer (Taylor); Barometer (American Schaeffer & Budenberg Div., Manning Maxwell & Moore)

Calibration: None.

Location of instrumentation: Thermometer attached to window frame outside; barometer inside Generating Station.

Latitude: 41° 27' N

Longitude: 72° 50' W

Approx. Elevation: 50 ft.

USGS Wallingford, CT Quadrangle

NWS

Station: Wallingford Filter Plant Observer: Dept. of Public Utilities, Sewer Division, PO Box 725, Wallingford, CT 06492

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X			X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	10			10								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X			X								
Other (specify)												

Instruments used: 8" standard rain gage ; regular mercury thermometer.

Calibration: None.

Location of instrumentation: Mackenzie Reservoir Filter Plant, Northford Rd., Wallingford, CT. Open concrete platform.

Latitude: 41° 26' 09" N

Longitude: 72° 46' 45" W

Approx. Elevation: 180 ft.

USGS Wallingford, CT Quadrangle

Observer: V.W. Yanosy, Comm. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X		
Hourly	X			X		X	X		X	X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	6			6		6	6		6	6		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X		
Strip Charts/Graphs	X			X		X	X		X	X		
By Hand												
Other (specify) Punch cards	X			X		X	X		X	X		

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I): wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Waterbury, CT on grassed area of entrance ramp to I-84, hwy. 125m. north 40 ft. high, Naugatuck River valley. Wind tower 30 ft., rain gage 15 ft., solar 15 ft., temp. inside sampling manifold.

Latitude: 41° 33' 01" N

Longitude: 73° 02' 37" W

Approx. Elevation: 250 ft.

USGS Waterbury, CT Quadrangle

Observer: New Haven Water Co. Observer's Address: 90 Sargent Dr., New Haven, CT 06511

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	70	70										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Standard rain gage .

Calibration: N/A

Location of instrumentation: Lake Dawson dam, adjacent to Rt. 69 in Woodbridge, CT.

Latitude: 41° 22' N

Longitude: 72° 58' W

Approx. Elevation: 162 ft.

USGS New Haven, CT Quadrangle

New London County Site Reports

Observer: W.F. Bohlen Observer's Address: Marine Sciences Institute, Univ. of Conn., Avery Point, Groton, CT 06340

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								Tides,
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Water temp
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X				X	X
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				23		23	23				23	23
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X		X	X				X	X
By Hand												
Other (specify)												

Instruments used: Wind speed and direction (Bendix, Friez 141); air temperature (Taylor); barometer (Bendix, 628-M); tide gauge (Acco Bristol, Dynamaster recorder 4331-10A).

Calibration: Wind direction set to true north; tide gage aligned with a USCS station; temperature initially calibrated by a staff technician.

Location of instrumentation: All instruments are located at Avery Point at the mouth of the Thames River, unobstructed except from the north. No trees of significant vegetation. Tide gage is located on the Poquonock River in Groton.

Latitude: 41° 19' N

Longitude: 72° 04' W

Approx. Elevation: 10 ft.

USGS New London, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTIDN												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				1*		1*	1*			1*		
HDW IS DATA RECORDED				*summer only								
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify)												

Instruments used: Temperature sensor (Climatronics #100093), wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MK1-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by field technicians.

Location of instrumentation: Groton, CT Avery Point Light House on peninsula south of Groton on Long Island Sound. Wind tower 30 ft., temp. inside aampling manifold, solar 30 ft.

Latitude: 41° 18' 56" N

Longitude: 72° 03' 49" W

Approx. Elevation: 10 ft.

USGS New London, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X			X		X	X		X	X	X	
Hourly	X			X		X	X		X	X	X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	5			5		5	5		5	5	5	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes	X			X		X	X		X	X	X	
Strip Charts/Graphs	X			X		X	X		X	X	X	
By Hand												
Other (specify) punch cards	X			X		X	X		X	X	X	

Instruments used: Tipping bucket rain gage (Texas Electronics); temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); dew cell thermistor (YSI9101); solar radiation sensor (Matrix MK1-G); pressure sensor (YSI2014).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Groton, CT. Located in an open grassed area of Fort Griswold State Park. Thames River is ¼ mile west, Long Island Sound 3 miles south. Rain gage 15 ft., wind tower 30 ft., solar 15 ft., temp. inside sampling manifold.

Latitude: 41° 21' 16" N

Longitude: 72° 04' 17" W

Approx. Elevation: 80 ft.

USGS New London, CT Quadrangle

NWS Station: Groton Observer: City of Groton, Dept. of Utilities, 295 Meridan St., PO Box 820, Groton, CT 06340

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Sky Condition
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X		X		X	X	X			X	X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		50	50	50			50	50
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X			X	X
Other (specify)												

Instruments used: NWS rain gage and max-min thermometers; wind speed indicator (Dwyer); hygrometer (Weather Measure); barometer (Tycos).

Calibration: As necessary by NWS Substation Network Specialist.

Location of instrumentation: Water Filtration Plant in Groton, CT. Rain gauge in open lot; thermometers in shelter; wind speed indicator roof mounted with readout in building; hygrometer in shelter; barometer in building.

Latitude: 41° 21' N

Longitude: 72° 03' W

Approx. Elevation: 40 ft.

USGS New London, CT Quadrangle

NWS
Station: Jewett City Observer: Jewett City Water Co., 57 Slater Ave., Jewett City, CT 06351

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	39	39										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand												
Other (specify)												

Instruments used: Recording rain gage.

Calibration:. Biannually by NWS Substation Network Specialist.

Location of instrumentation: Stone Hill Reservoir in the Pachaug State Forest.

Latitude: 41° 38' N

Longitude: 71° 54' W

Approx. Elevation: 400 ft.

USGS Plainville, CT Quadrangle

NWS
Station: Jewett City 3ESE Observer: Mrs. Laura M. Bitgood, Box 101, RFD 1, Bitgood Rd., Jewett City, CT 06351

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	15	15										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of instrumentation: Home of observer. Gentle rolling hills with the Pachaug River 200 ft. north of station.

Latitude: 41° 35' N

Longitude: 71° 56' W

Approx. Elevation: 172 ft.

USGS Jewett City, CT Quadrangle

Observer: Roy McKernen Observer's Address: 65 Westbridge Rd, Apt. D-7, New London, CT 06320

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X	X		X		X	X				X	
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	15	19		19		19	12				22	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X		X	X				X	
Other (specify)												

Instruments used: U.S. Weather rain gage ; min-max thermometer (Taylor); maximum wind gust indicator; barometer (Taylor).

Calibration: Send to company if instruments require readjustment.

Location of instrumentation: Rain gage on roof top of condominium, min-max thermometer outside brick wall toward open area of parking lot, wind gust indicator on roof about 40 ft. high, barometer inside in living room.

Latitude: 41° 21' N

Longitude: 72° 04' W

Approx. Elevation: 10 ft.

USGS New London, CT Quadrangle

Observer: Anita DeVito Observer's Address: USDA Forest Service, 51 Mill Pond Rd., Hamden, CT 06514

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly			X	X	X	X	X	X		X	X	
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981			*	*	*	*	*	*		*	*	
HOW IS DATA RECORDED			*beginning Spring 1981									
(✓) Magnetic Tapes			X	X	X	X	X	X		X	X	
Strip Charts/Graphs												
By Hand												
Other (specify)												

Instruments used: Heathkit weather computer; YSI thermistors 44203; Weather Measure HMP 14UT temperature humidity probes; Datel DL-2 recorder.

Calibration: At beginning of field season by DeVito and Hubbard; Heathkit is compared to Bradley Station - NOAA, other units lab calibrated.

Location of instrumentation: Pachaug State Forest in North Stonington, CT at a gypsy moth focal area; approximately one-quarter mile west of Wyassup Lake. Wind above and within canopy; temp. above, within and at gypsy moth nesting locations; humidity at nesting locations; radiation within canopy only near nesting locations.

Latitude: 41° 29' N

Longitude: 71° 53' W

Approx. Elevation: 400 ft.

USGS Old Mystic, CT Quadrangle

NWS
Station: Norwich Pub. Util. Plant Observer: Dept. of Public Utilities, Mr. A.F. Nystrom, 34 Shetucket St., Norwich, CT 06361

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly				X							X	
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	25	25		25							25	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X								
By Hand	X	X		X							X	
Other (specify)												

Instruments used: temperature (Taylor); Weksler barometer; standard rain gage .

Calibration: None.

Location of instrumentation: Outside Power Plant building on the west side on No. Main St., Norwich, CT.

Latitude: 41° 31' N
Longitude: 72° 04' W
Approx. Elevation: 20 ft.
USGS Norwich, CT Quadrangle

Observer: State of Conn., DEP Forestry Unit Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	24	24		24		24	24	24				
HOW IS DATA RECORDED												
(✓) Magnetic Tapes								X				
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X				
Other (specify)												

Instruments used: Standard rain gage and thermometers.

Calibration: Hydrothermographs and anemometer field calibrated annually and as necessary.

Location of instrumentation: Voluntown, CT nursery, south end of Glasgo Pond. Open field.

Latitude: 41° 33' N
Longitude: 71° 52' 30" W
Approx. Elevation: 200 ft.
USGS Jewett City, CT Quadrangle

NWS
Station: Lake Konomoc Observer: City of New London Water Div., Hartford Rd., Waterford, CT 06385

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X*								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	105	105		15								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

*3 times daily

Instruments used: 8" standard rain gage.

Calibration: N/A

Location of instrumentation: Lake Konomoc Pump Station. Precipitation gage is on lawn 50 ft. from lake and 50 ft. from building on driveway. Thermometer is next to building.

Latitude: 41° 24' 30" N

Longitude: 72° 11' W

Approx. Elevation: 175 ft.

USGS Montville, CT Quadrangle

Observer: H.L. Chamberlain Observer's Address: Northeast Utilities, PO Box 270, Hartford, CT 06101

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Visibility △Temp.
FREQUENCY OF COLLECTION												
(✓) Continuously					X	X	X		X	X		X
Hourly												
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981					7+	7+	7+		7+	7+		7
HOW IS DATA RECORDED												
(✓) Magnetic Tapes					X	X	X		X	X		X
Strip Charts/Graphs					X	X	X		X	X		X
By Hand												
Other (specify)												

Instruments used: Wind speed and direction (Climatronics F460); temperature (Rosemount 104MN); temperature difference (Rosemount 104MN); dew point (Foxboro Dewcell 2711AG); solar radiation (Eppley 848); visibility (MRI 1580); direct solar radiation (Eppley NIP).

Calibration: Extensive program of periodic data checking, maintenance and calibration. Most calibration and maintenance performed by staff technicians.

Location of instrumentation: 450 ft. tower located south of Millstone Nuclear Power Station in Waterford, CT. Wind speed and direction 33ft., 142 ft., 374 ft. and 447 ft.; temp. 33 ft., 64 ft., and 447 ft.; dew point 33 ft., 64 ft., 447 ft.; temp. difference 142 ft., 374 ft., 447 ft.; visibility 14 ft., eolar 5 ft.

Latitude: 41° 18' 20" N

Longitude: 72° 09' 53" W

Approx. Elevation: 15 ft.

USGS Niantic, CT Quadrangle

Tolland County Site Reports

NWS
Station: Coventry Observer: University of Connecticut, U-87, Storrs, CT 06268

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								Evapo-
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	ration
FREQUENCY OF COLLECTION												
(✓) Continuously	X		X	X		X	X			X		
Hourly												
Daily	X	X		X		X	X			X		X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	40	40	10	40		40	40			10		30
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X		X	X		X	X			X		
By Hand	X	X		X								X
Other (specify)												

Instruments used: Weighting rain gage (Belfort); min-max thermomoter (Taylor); surface and soil thermographs (Belfort); anemometers (Belfort); radiometer (Eppley); standard evaporation pan.

Calibration: Anemometers, radiometers and thermometers field calibrated yearly against standard instruments by staff technicians.

Location of instrumentation: Open field with no obstruction, only grass surface cover. Valley bottom site (cold pocket) in Coventry, CT on Rt. 44A. Height of measurements: wind 30 ft. and 18 in.; soil temp. 1 in., 3 in., and 12 in., radiation 6 ft.

Latitude: 41° 48' N

Longitude: 72° 21' W

Approx. Elevation: 480 ft.

USGS South Coventry, CT Quadrangle

NWS
Station: Mansfield Hollow Lake Observer: US Corps of Engineers, Mansfield Hollow Lake, Mansfield, CT 06250

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								River
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	Stage
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X								X
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	29	29		29								29
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X								X
Other (specify)												

Instruments used: Recording rain gage .

Calibration: N/A

Location of instrumentation: At dam on Nachaug River.

Latitude: 41° 45' N

Longitude: 72° 11' W

Approx. Elevation: 250 ft.

USGS Spring Hill, CT Quadrangle

NWS
Station: Rockville Observer: Rockville Water & Aqueduct Co., Inc., PO Box 507, Rockville, CT 06066

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	39	39										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X	X										
By Hand												
Other (specify)												

Instruments used: Recording rain gage (Fischer & Porter).

Calibration: Annually by NWS Substation Network Specialist.

Location of instrumentation: Pumping Station of Reservoir.

Latitude: 41° 52' N

Longitude: 72° 26' W

Approx. Elevation: 510 ft.

USGS Rockville, CT Quadrangle

Observer: V.W. Yanosy, Conn. DEP Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly				X		X	X			X		
Daily												
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				2*		2*	2*			1*		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes				X		X	X			X		
Strip Charts/Graphs				X		X	X			X		
By Hand												
Other (specify) punch cards				X		X	X					

*summer only

Instruments used: Temperature sensor (Climatronics #100093); wind system (Climatronics Mark I); wind direction sensor (WD-10A), wind speed sensor (WS-10A); solar radiation sensor (Matrix MKi-G).

Calibration: All instruments field calibrated twice yearly against standard instruments by staff technicians.

Location of instrumentation: Stafford, CT in a clearing on grass cover in Shenipsit State Forest. Building 5 m. east, trees 100 m. west. Wind tower 30 ft., temp. shield outdoors 9 ft., solar 14 ft.

Latitude: 41° 58' 33" N

Longitude: 72° 23' 15" W

Approx. Elevation: 850 ft.

USGS Ellington, CT Quadrangle

NWS
Station: Stafford Springs 2 Observer: Michael Dunay, Stafford WPCF, Stafford Springs, CT 06076

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously	X											
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	9	9										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X										
Other (specify)												

Instruments used: Weighting rain gage (Fischer & Porter); 8" standard rain gage.

Calibration: Annually field calibrated by NWS Substation Network Specialist.

Location of instrumentation: Open, concrete surface, valley bottom at Water Pollution Control Facility on Rt. 32.

Latitude: 41° 57' N
Longitude: 72° 18' W
Approx. Elevation: 455 ft.
USGS Stafford Springs, CT Quadrangle

Observer: Solar Energy Testing Lab Observer's Address: Engr. II Rm. 306, Box U-139, UConn, Storrs, CT 06268

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously				X		X	X			X		
Hourly						X						
Daily				X						X		
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981				3		3	3			3		
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs				X		X	X			X		
By Hand				X		X	X			X		
Other (specify)												

Instruments used: Radiometer (Eppley); anemometer (Climet); thermometer (Omega); strip chart recordere (Cole - Parmer).

Calibration: Radiometer calibrated semi-annually against Eppley PSP, others calibrated monthly by other instruments by staff technician.

Location of instrumentation: Instruments located on roof of Engineering II building, location height exceeded slightly on WSW thru WNW side.

Latitude: 41° 48' N
Longitude: 72° 15' W
Approx. Elevation: 600 ft.
USGS South Coventry, CT Quadrangle

NWS
Station: Storrs Observer: University of Conn., Box U-87, Storrs, CT 06268

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X							X	
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	93	93		93							93	
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X							X	
Other (specify)												

Instruments used: Recording rain gage (Fischer & Porter); max & min thermometers; 8" standard rain gage ; thermograph; hygrothermograph; barograph.

Calibration: As necessary by staff technicians.

Location of instrumentation: University of Connecticut Agronomy farm, open fields.

Latitude: 41° 48' N

Longitude: 72° 14' W

Approx. Elevation: 650 ft.

USGS Spring Hill, CT Quadrangle

Observer: Lawrence Lee Observer's Address: 55 Hammond St., Vernon, CT 06066

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
				Air								
	Rain	Snow	Soil	Surface	Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	1½	1½		1½								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X								
Other (specify)												

Instruments used: Rain gage (Taylor); min-max thermometer (Taylor).

Calibration: None.

Location of instrumentation: Rain gage approx. 4 ft. off ground with no obstructions. Open lot of side of hill with good air drainage.

Latitude: 41° 52' N

Longitude: 72° 27' W

Approx. Elevation: 450 ft.

USGS Rockville, CT Quadrangle

Windham County Site Reports

NWS
Station: Brooklyn Observer: Donald J. Field, Wolf Den Rd., Brooklyn, CT 06234

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	28	28										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: Non-recording rain gage .

Calibration: N/A

Location of instrumentation: Home of observer. Gently rolling to hilly land.

Latitude: 41° 47' 30" N

Longitude: 71° 57' 30" W

Approx. Elevation: 240 ft.

USGS Danielson, CT Quadrangle

Observer: State of Connecticut, DEP Forestry Unit Observer's Address: 165 Capitol Ave., Hartford, CT 06115

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X		X		X	X	X				
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	50	50		50		50	50	50				
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X		X		X	X	X				
Other (specify)												

Instruments used: Standard rain gage and thermometers; hygrothermograph, anemometers.

Calibration: Field calibrated annually and as necessary.

Location of instrumentation: Open field in Nachaug State Forest, off Rt. 44 in Eastford, CT, approximately 1½ miles south of Frog Rock.

Latitude: 41° 52' N

Longitude: 72° 03' W

Approx. Elevation: 700 ft.

USGS Hampton, CT Quadrangle

NWS
Station: Putnam Observer: Sister Alfred de Marie Morin, 72 Church St., Putnam, CT 06260

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly												
Daily	X	X										
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	9	9										
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs												
By Hand	X	X										
Other (specify)												

Instruments used: 8" standard rain gage .

Calibration: N/A

Location of instrumentation: At rear of 72 Church St. in Putnam, CT.

Latitude: 41° 55' N

Longitude: 71° 55' W

Approx. Elevation: 295 ft.

USGS Putnam, CT Quadrangle

NWS
Station: West Thompson Lake Observer: Carl Buswell, U.S. Corps of Engineers, RFD #1, No. Grosvenordale, CT 06255

	PRECIPITATION		TEMPERATURES			WIND		MOISTURE		SOLAR	BARO.	OTHER
	Rain	Snow	Soil	Air Surface	Air Tower	Speed	Direction	Humidity	Dewpoint	Radiation	Pressure	
FREQUENCY OF COLLECTION												
(✓) Continuously												
Hourly	X	X										
Daily	X	X		X								
Weekly												
TOTAL # YEARS OF RECORD as of Spring 1981	41	41		41								
HOW IS DATA RECORDED												
(✓) Magnetic Tapes												
Strip Charts/Graphs	X											
By Hand	X	X		X								
Other (specify)												

Instruments used: 8" nonrecording rain gage ; Fischer & Porter model 35C recording rain gage ; max-min thermometers.

Calibration: Twice yearly by NWS Substation Network Specialist.

Location of instrumentation: Open area with no obstructions, only grass surface cover located behind utility building on West Thompson Rd. in Thompson, CT.

Latitude: 41° 57' N

Longitude: 71° 54' W

Approx. Elevation: 360 ft

USGS Putnam, CT Quadrangls

APPENDIX II

Published Data

Source	Publication
National Climate Center Federal Building Asheville, North Carolina 28801	Climatological Data, New England Hourly Precipitation Data, New England Local Climatological Data, Bridgeport Local Climatological Data, Hartford Climatological Data, National Summary (Final issue 1980 Annual Summary) Solar Radiation Data Storm Data
Public Documents Department U.S. Government Printing Office Washington, D.C. 20402	Daily Weather Maps, North America, Weekly series
NOAA/USDA Joint Agricultural Weather Facility USDA South Building, Room 3526 Washington, D.C. 20250	Weekly Weather and Crop Bulletin

PUBLICATION LIST

National Climatic Center

PUBLICATION
LOCAL CLIMATOLOGICAL DATA (MONTHLY)
LCD ANNUAL
CLIMATOLOGICAL DATA (MONTHLY)
CD ANNUAL
HOURLY PRECIPITATION DATA (MONTHLY)
HPD ANNUAL
MONTHLY CLIMATIC DATA FOR THE WORLD
STORM DATA (MONTHLY)
GLOBAL MONITORING OF THE ENVIRONMENT FOR SELECTED ATMOSPHERIC CONSTITUENTS*
COMPARATIVE CLIMATIC DATA*
HISTORICAL CLIMATOLOGICAL SERIES 5–1*
HISTORICAL CLIMATOLOGICAL SERIES 5–1 MONTHLY UPDATE
HISTORICAL CLIMATOLOGICAL SERIES 5–2*
HISTORICAL CLIMATOLOGICAL SERIES 5–2 MONTHLY UPDATE

* ONE ISSUE PER YEAR

U.S. Department of Commerce
National Oceanic and Atmospheric Administration
Environmental Data and Information Service
National Climatic Center

Literature Cited

Palley, P. A. and D. R. Miller. 1981. Climate Data Use and Users in Connecticut. University of Connecticut Storrs Agriculture Experiment Station Research Report No 71. 36 pp.

American Meteorological Society. 1970. Glossary of Meteorology. Boston, Mass. 638 pp.

Acknowledgements

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