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ABSTRACT These materials are designed to provide a compact listing of sources of information as well as a collection of tested formats for collecting resource information for a town or city. It provides supplementary materials for the Land Use Decision Making Kit. Among materials included are listings of federal agencies involved in water and land use programs, a town level checklist/questionnaire designed to assemble data needed for evaluation of land use plans, a census data form, and a community survey form to determine the desires and the attitudes of the community. The program is designed to be used with secondary school students, college students, and interested citizens. (RH)
A CITIZEN'S GUIDE TO INFORMATION ON
LAND USE DECISION MAKING

A LAND USE DECISION

SYNTHESIS

IMPLEMENTATION
LOCAL STATE FEDERAL

PLANNING FOR PEOPLE

CULTURAL SYSTEMS

INLAND WETLANDS COASTAL WETLANDS UPLANDS OPEN SPACE

GEOSYSTEMS HYDRO-SYSTEMS BIOLOGICAL SYSTEMS

MAPS-MAP READING AERIAL PHOTOGRAPHY
A CITIZEN'S GUIDE TO INFORMATION ON LAND USE DECISION MAKING

The citizen's guide is designed as a compact listing of sources of information as well as a collection of tested formats for collecting resource information on your town.

Below is an annotated list of the contents of the citizen's guide:

1. A list of Federal Agencies Involved in Water and Land Use Programs. A complete listing of federal agencies that have a direct or indirect role in land use decisions. Their involvement is characterized by direct roles (research, planning, preparation, construction, operation maintenance), indirect roles (advice and counsel on research, planning, etc.), or financial assistance (grants, loans, advances, bonds).


2B. Regional Agencies Exercising Control over Land and Water Use Decisions.

2C. Local Bodies Exercising Control over Land and Water Use Decisions.


5. Directory of Public and Private Agencies Involved in Land Use.

6. Summary of Natural Resource Data for the Town of Glastonbury - this is a sample form that is available for each town in Connecticut from the Natural Resource Center, Department of Environmental Protection, State Office Building, Hartford, Conn. 06115 (phone 566-3540). The summary sheet contains a listing of the sources of topographic, geologic, soils, hydrologic and natural areas data that is available for a town.

7. TOWN LEVEL CHECKLIST/QUESTIONNAIRE - this checklist/questionnaire has been designed to assemble data needed for evaluation of consistency in plans for land use and merits of proposed specific land uses by towns. The sources of all data needed in each section is provided near questions. Highly recommended.

8. 1970 Census Data for a Town or City - a chart that helps a decision maker collect information on the population of their community. Located in Planning for People Unit, guide sheet # 18, Part V.

9. COMMUNITY SURVEY - a sample survey that can assist decision makers in determining the desires and attitudes of their community. Located in Planning for People Unit, guide sheet # 19.

Edited by:
Larry Schaefer

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I’d like to acknowledge the generosity and support of J. Pershing & Co.

Perry Decisions
50 New Street
New Haven, CT 06511
I. Department of Agriculture

A. Agricultural Research Service
   1. Hydrological and Geological Research

B. Agricultural Stabilization and Conservation Service
   1. Irrigation, Drainage and Land Management
   2. Water Pollution Control and Wastewater Disposal
   3. Forestry
   4. Fish and Wildlife Conservation

C. Economic Research Service
   1. Economic and Statistical Research

D. Farmers Home Administration
   1. Water Supply
   2. Flood Control
   3. Irrigation, Drainage and Land Management
   4. Water Pollution Control and Wastewater Disposal
   5. Forestry
   6. Recreation
   7. Water-borne Transportation

E. Federal Extension Service
   1. Irrigation, Drainage and Land Management
   2. Forestry
   3. Recreation

II. Department of Commerce

A. Economic Development Administration
   1. Water Supply
   2. Flood Control
   3. Water Pollution Control and Wastewater Disposal
   4. Water-borne Transportation

B. National Oceanic and Atmospheric Administration
   1. Fish and Wildlife Conservation
   2. Hydrological and Geological Research
   3. Marine Sciences
   4. Mining and Mine Water Disposal
   5. Weather and Atmospheric Research

C. Office of Business Economics
   1. Economic and Statistical Research

D. Office of Regional Economic Development
   1. Economic and Statistical Research

III. Department of Defense

A. Department of the Army, Corps of Engineers
   1. Water Supply
   2. Flood Control
   3. Navigation
   4. Irrigation, Drainage and Land Management
   5. Recreation
   6. Fish and Wildlife Conservation
   7. Hydroelectric Power
   8. Hydrological and Geological Research

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Key:
- Direct role (research, planning, preparation, construction, operation maintenance)
- Indirect role (advice and counseling in research, planning, engineering of technical fields, use of federal facilities)
- Financial assistance (grants, loans, advances, underwriting of bond issues)

For agency programs with a financing component:
- Project or formula grants
- Direct loans
- Advances
- Guarantee of bond issue or loans
II. Department of the Navy, Office of Naval Research
   o 1. Hydrological and Geological Research

IV. Department of Housing and Urban Renewal
   + 1. Water Supply
   + 2. Water Pollution Control and Wastewater Disposal

V. Department of the Interior
   A. Bureau of Mines
      o*+ 1. Water Pollution Control and Wastewater Disposal
      o*+ 2. Mining and Mine Water Disposal
   B. Bureau of Outdoor Recreation
      o*+ 1. Recreation
   C. Fish and Wildlife Service
      o*+ 1. Recreation
      o*+ 2. Fish and Wildlife Conservation
      o*+ 3. Economic and Statistical Research
   D. Geological Survey
      o* 1. Hydrological and Geological Research
   E. National Park Service
      o* 1. Irrigation, Drainage and Land Management
      o* 2. Recreation
      o* 3. Fish and Wildlife Conservation
   F. Office of Water Research and Technology
      + 1. Hydrological and Environmental Quality Research

VI. Department of Justice

Office of Attorney General [protection against violation of federal laws]

VII. Department of Transportation
   A. Coast Guard
      o* 1. Navigation
      o* 2. Water Pollution Control and Wastewater Disposal
      o* 3. Water-borne Transportation
      o* 4. Marine Sciences
   B. Federal Highway Administration
      + 1. Irrigation, Drainage and Land Management

VIII. Executive Office of the President
   A. Atomic Energy Commission
      o*+ 1. Water Pollution Control and Wastewater Disposal
   B. Environmental Protection Agency
      o*+ 1. Water Supply
      o*+ 2. Water Pollution Control and Wastewater Disposal
      o* 3. Water-borne Transportation
   C. Council on Environmental Quality
      o 1. Irrigation, Drainage and Land Management
      o 2. Water Pollution Control and Wastewater Disposal
      o 3. Forestry
      o 4. Fish and Wildlife Conservation
      o 5. Water-borne Transportation
      o 6. Marine Sciences
   D. Office of Emergency Preparedness
      o 1. Water Supply
      o 2. Irrigation, Drainage and Land Management
   E. Federal Power Commission
      o 2. Hydroelectric Power
      o 2. Economic and Statistical Research
State of Connecticut Agencies Involved in Water and Land Use Programs

I. Department of Community Affairs

1. Grants to Municipalities for Harbor Improvement
2. Grants to Local Housing Development Corporations
3. Grants for Housing Site Development
4. Grants for Demolishing Unsound Structures

II. Office of State Planning

1. Regional Planning Grants for Water and Sewer

III. Connecticut Well Drilling Board

1. Issuance of Permits for Wells

IV. Industrial Building Commission

1. Pollution Abatement Grants
2. Loan Insurance

V. Department of Environmental Protection

Preservation and Conservation Division

1. Flood Control Studies
2. Regulation of State Controlled Shellfish Grounds
3. Assistance to Towns for Open Space Acquisition
4. Supervision and Promotion of Boating
5. Long-range Water Resources Planning
6. Supervision of Water Resources Utilization
7. Regulation of Dredging and Construction in Connecticut Waters
8. Inventory and Regulation of Tidal Wetlands
9. Shore Erosion and Control

Division of Environmental Quality

1. Grants for Separation of Storm and Sanitary Sewers
2. Grants for Municipal Pollution Abatement Facilities
3. Establishing and Enforcing Water Pollution Standards
4. Enforcement of Air Quality
5. Evaluation of Pollution Contamination in Shellfish Grounds
6. Grants and Equipment for Solid Waste Disposal Plants
7. Enforcement and Control of Solid Waste Disposal

VI. Connecticut Development Commission

1. Development of Marine Commerce Industry

VII. Department of Health

1. Control of Water-borne Diseases
2. Regulation of Sub-surface Sewage Disposal
Regional Agencies Exercising Control
over Land and Water Use Decisions

Interstate
New England Regional Commission
New England River Basins Commission
Interstate Sanitation Commission
New England Interstate Water Pollution Control Compact Commission
Atlantic States Marine Fisheries Commission
Connecticut Interstate Water Compact
Tri State Planning Commission

Intrastate
Regional Planning Agencies (6)
Southeastern Connecticut
Connecticut River Estuary
South Central Connecticut
Greater Bridgeport Valley
Southwestern Connecticut

Local Bodies Exercising Control
over Land and Water Use Decisions

Planning Boards
Zoning Boards
Appeals Boards
Conservation Commissions
Licensing Boards
Building Departments
Sewer Boards
Police Departments
Boards of Health
Public Works Departments
ENVIRONMENTAL IMPACT OFFICE
Director: Wallace Hickson
Room 1201, John F. Kennedy Federal Building
Boston, MA 02203
(617) 223-1615

The Environmental Impact Office:

- Prepares environmental impact statements for planned EPA actions as required by the National Environmental Policy Act (NEPA).
- Reviews statements prepared by other agencies and concerns on environmental areas (air, water, noise, solid waste, pesticides, and radiation) that fall within its area of expertise and advises agencies on alternatives which may avoid significant adverse environmental impacts.

REGIONAL ADMINISTRATOR: John A. S. McAllem
Deputy Regional Administrator: Kenneth L. Johnson
Room 2203, John F. Kennedy Federal Building
Boston, MA 02203
(617) 223-7210

The Regional Administrator and the Deputy Regional Administrator are the official spokesmen for EPA in the New England Region. They are responsible for interpreting national program goals and seeing that national programs are carried out, taking into account the unique environmental characteristics of the Region.

AIR AND HAZARDOUS MATERIALS DIVISION
Director: Merrill S. Kohan
Room 2111, John F. Kennedy Federal Building
Boston, MA 02203
(617) 223-1115

The Air and Hazardous Materials Division coordinates and conducts regional programs for control of air pollution, pesticides regulation, solid and hazardous wastes, noise, and radiation. Specific activities include:

- Awards annual support and training grants to states for air pollution control activities.
- Provides technical assistance in development of state pesticide plans, including certification of applicators.
- Provides technical assistance to state air pollution control agencies in activities to prevent and abate air pollution.
- Monitors compliance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), including producer-distributor registration, port of entry inspections, and registered use violators.
- Advises on environmental radiation problems.
- Collects data for use in developing national noise standards.
- Provides technical assistance on solid waste and hazardous materials disposal.
- Awards annual and special program support grants and demonstration grants for new technology in solid waste management.

OFFICE OF THE REGIONAL COUNSEL
Regional Counsel: Robert C. Thompson
Room 2201, John F. Kennedy Federal Building
Boston, MA 02203
(617) 223-5792

The Regional Counsel:

- Provides legal services to the Regional Administrator and the Regional Counsel.
- Provides policy guidance in the development and implementation of regional programs.
- Advises New England states on assuming authority for environmental programs mandated by federal law.
- Assists in development and implementation of state programs authorized by federal law.
- Reviews construction grants and handles bid complaints.
- Provides guidance to EPA employees on the application of conflict of interest and other statutes governing their conduct.

WATER PROGRAMS DIVISION
Director: Lester A. Sutton
Room 2315, John F. Kennedy Federal Building
Boston, MA 02203

The Water Programs Division has three branches dealing with water quality, municipal facilities, and drinking water supplies. Specific activities include:

- Awards annual support grants to state and interstate agencies for water pollution control activities.
- Assists in development and review of state-wide continuing planning process, basin plans, and areawide waste treatment management plans.
- Administers the Construction Grants Program, which authorizes grants to local communities of federal funds to cover 75 percent of the eligible costs for needed sewage treatment facilities.
- Inspects and certifies municipal facilities and advises on correct operation and maintenance.
- Issues municipal discharge permits under NPDES.
- Administers federal responsibilities under the Safe Drinking Water Act, including giving technical assistance and financial aid to states for development and implementation of effective state programs.
- Provides technical assistance, surveillance, and evaluation for pollution controls at federal installations.

- Awards annual state program support grants and demonstration grants for new technology in solid waste management.
DEPARTMENT OF ENVIRONMENTAL PROTECTION REGIONS

REGION 1
Mr. Anthony Cantele
P. O. Box 161
Pleasant Valley, CT 06063
374-2620

REGION 2
Mr. Martin Chiniske
Judd Hill Road
Middlebury, CT 06762
374-1753

REGION 3
Mr. John Spencer
Rt. 42, Box 150A
East Hampton, CT 06424
295-9523

REGION 4
Mr. John Olsen
RFD #1
Voluntown, CT 06384
376-2513

REGION 5
Mr. Robert Jones
P. O. Box 9
Waterford, CT 06385
443-0166

DISTRICT CONSERVATIONISTS AND SOIL AND WATER CONSERVATION DISTRICTS

FAIRF ield Country
Mr. David Thompson
Route 6, Stony Hill
Bethel, CT 06801
743-5453

MIDDLESEX COUNTY
Mr. Barry Cavanna
Middlesex Agric. Center
Haddam, CT 06438
345-4511

NEW LONDON COUNTY
Mr. C. Sherman-Chase
New London Agric. Center
Norwich, CT 06360
587-4163

REGIONAL PLANNING AGENCIES IN CONNECTICUT

CAPITOL REGION COUNCIL OF GOVERNMENTS
79 Elm Street
Hartford, CT 06106
522-2217

CENTRAL CONN. REGIONAL PLANNING AGENCY
30 Bank Street, Third Floor
New Britain, CT 06051
224-2655

CENTRAL NAUGATUCK VALLEY REGIONAL PLANNING AGENCY
Essex Square Theatre Building
Essex, CT 06426
767-9494

GREATER BRIDGEPORT REGIONAL PLANNING AGENCY
202 Professional Building
White Plains Road
Trumbull, CT 06611
268-0014

HOUSATONIC VALLEY COUNCIL OF ELECTED OFFICIALS
256 Main Street
Danbury, CT 06810
748-1471

LITCHFIELD HILLS REG. PLANNING AGENCY
40 Main Street
Torrington, CT 06790
482-5575

NORTHEASTERN CONN. REGIONAL PLANNING AGENCY
P. O. Box 198
Brooklyn, CT 06234
774-1253

REGIONAL PLANNING AGENCY OF SOUTH CENTRAL CONNECTICUT
96 Grove Street
New Haven, CT 06510
777-4795 or 777-4796

SOUTHEASTERN CONNECTICUT REGIONAL PLANNING AGENCY
139 Boswell Avenue
Norwich, CT 06360
889-2324

SOUTHWESTERN REGIONAL PLANNING AGENCY
137 Rowayton Avenue, Second Floor
Rowayton, CT 06853
866-5543

VALLEY REGIONAL PLANNING AGENCY
365 Main Street
Ansonia, CT 06401
735-0689

WINDHAM REGIONAL PLANNING AGENCY
33 Church Street
Wallingford, CT 06492
423-0651 or 423-0651
<table>
<thead>
<tr>
<th>County</th>
<th>Contact Information</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fairfield County</td>
<td>Mr. Howard C. Kemmerer</td>
<td>Appalachian Mountain Club</td>
</tr>
<tr>
<td></td>
<td>24 Main Street</td>
<td>Environmental Defense Fund, Inc.</td>
</tr>
<tr>
<td></td>
<td>10022</td>
<td>Natural Resources Defense Council, Inc.</td>
</tr>
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<td></td>
<td>Middletown, CT 06457</td>
<td>The Nature Conservancy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>National Audubon Society</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecticut Audubon Society</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecticut Conservation Association</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connecticut Forest and Park Association, Inc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>League of Women Voters of Connecticut</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Natural Resources Council of Connecticut, Inc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Zero Population Growth, Inc.</td>
</tr>
<tr>
<td>Middlesex County</td>
<td>Mr. Lloyd D. Wilhelm</td>
<td></td>
</tr>
</tbody>
</table>
This is a summary of the available data and Natural Resource information for your town. The Natural Resources Center, Department of Environmental Protection, is charged with providing a centralized source for natural resources data, information, and expertise to help the towns in their land use planning and decisions. This summary is intended to keep your town abreast of the various types of natural resources data that are available, and to identify agencies which are responsible for or have expertise concerning the data. Inquiries concerning additions, changes, and corrections of information on these summaries should be sent to the Natural Resource Center, Department of Environmental Protection, State Office Building, Hartford, Connecticut 06115. (Phone 566-3540)

I. Topographic and Geologic Information

A. The Quadrangle Name(a) refer to the 1:24,000 scale U.S. Geological Survey 7½ minute quadrangle map (area bounded by 7½ minutes of latitude and longitude equaling approximately 55 square miles). Topographic maps display, on a plane surface, planimetric features (roads, rivers, towns, and other political boundaries) and elevation contour lines above mean sea level at 10 foot intervals. Topographic maps serve as excellent bases on which to plot various kinds of natural resources data. Because quadrangle maps depict areas within boundaries of longitude and latitude, rather than political boundaries, more than one quadrangle may be required to cover the area within a town. In the tabulation below, the column entitled Quadrangle Name lists the quadrangles needed to cover your town.

B. The Approx. % of Area column shows roughly the percentage of your town that falls in each of the listed quadrangles.

C. The Latest Revision column identifies the data of the latest topographic edition that is available. The letters PR following the date, if present, indicate the edition is a photo-revision of the previous complete or standard map.

D. Geologic Maps are produced using a topographic base and basically fall into two categories, the Surficial map and the Bedrock map. The Surficial Geology map describes the nature and distribution of the surficial deposits or overburden that lie between the bedrock and the land's surface. The Bedrock Geology map describes the nature and distribution of the solid rock that underlies all areas. The number and letter designation in the surficial and bedrock columns identify the published geologic maps. If the number and letter designation falls between the two columns, it indicates one map includes both surficial and bedrock geology.

E. Ortho Photos are distortion-corrected black and white photos covering the aerial limits of the 7½ minute quadrangle, scale 1:24,000. Available in: photocopy continuous tone paper prints for $3.25; diazo copies for $0.75; stable base (mylar) continuous copy $7.00; film positives or negatives, continuous tone or screened $13.00. Order from Eastern Mapping Center, U.S.G.S. National Center, Stop 562, Reston, Va. 22092.

Topographic maps and geologic maps can be purchased at the State Library, Hartford (topographic maps $0.75; geologic maps $1.00). Connecticut Valley Urban Area Project maps are $0.75. For distribution information, contact the Natural Resource Center.

<table>
<thead>
<tr>
<th>Quadrangle Name</th>
<th>Orthophoto</th>
<th>Approx. % of Area</th>
<th>Latest Revision</th>
<th>Surficial Geology</th>
<th>Bedrock Geology</th>
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</thead>
<tbody>
<tr>
<td>Glastonbury</td>
<td>80</td>
<td></td>
<td>72PR</td>
<td>open file</td>
<td>QR 5</td>
</tr>
<tr>
<td>Marlborough</td>
<td>yes</td>
<td>19</td>
<td>72PR</td>
<td>open file</td>
<td>QQ-791</td>
</tr>
<tr>
<td>Hartford South</td>
<td>1</td>
<td>72PR</td>
<td></td>
<td>QR 20</td>
<td></td>
</tr>
</tbody>
</table>

Other Topographic and Geologic Data Available:

Glastonbury: CVUAP Thickness of Principal Clay Unit, MF-561 A; Contour Map of the Bedrock Surface, MF-561 B; Natural Land Slopes, Contr. 110

Marlborough: CVUAP Flood Prone Areas, Contr. 105; Unconsolidated Materials, MF-645 A

Drainage Areas, MF-645 B

Hartford South: CVUAP Contour Map of Bedrock Surface, MF-487 A; Thickness of Principal Clay Unit, MF-487 B; Thickness of Material Overlying Principal Clay Unit, MF-487 C; Depth to Bedrock, MF-487 D
II. Soils Information

A. **Detailed Soils Maps** display the aerial extent of the various soil units which are differentiated on the basis of their physical and chemical properties, as well as such landscape considerations as slope, drainage, stoniness, etc. With this map, generalized and specific interpretations can be made through the use of special keys for Natural Soil Groups, Agricultural Classes, Urban Groups, Percolation Rate Classes, Slope, etc. Certain keys may be obtained from the Natural Resource Center. To make the Detailed Soils map, the soil surveyor, in the field, identifies, names, and locates the various soils on a town basis and plots this information on aerial survey photographs. These photographs are published at a scale of 1:15,840 on a county basis (Hartford County was published at a scale of 1:20,000). Usually it requires many photographs to cover a particular town. To make a single map of a town's soils therefore requires the photographs to be mosaicked or fitted together to minimize overlap and distortion. The Soil Conservation Service produces mosaicked town detailed soils maps only when requested by individual towns.

B. **Stream Belt Maps** inventory a broad range of land, water, and natural resources, and define their capabilities, limitations, and potentials for local planning purposes.

C. **General Soils Maps** depict broad soil groups, based on the association or pattern of individual soil units to each other (scale - 1:24,000).

<table>
<thead>
<tr>
<th>Type of Map</th>
<th>Mapped</th>
<th>Published</th>
<th>Mosaicked</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detailed Soils</td>
<td>yes</td>
<td>Hartford Co., 1958</td>
<td>yes</td>
</tr>
<tr>
<td>General Soils</td>
<td>yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Streambelt</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For information please contact your Regional Planning Agency or District Conservationist. See item VII.

III. Hydrology Data

Since 1961 the U.S. Geological Survey has undertaken a series of river basin studies to determine the quantity and quality of water available at any location in the State. For these studies the State has been subdivided into 10 river basin areas. At the completion of each study the data, maps, and results are published in two separate Connecticut Water Resources Bulletins.

- **Hydrogeologic Data (Basic Data)**
  - Upper Conn., CWR Bull. 25, 1971

- **Water Resources Inventory of Connecticut (Interpretative)**

**Other Data**

a. "Gazetteer of Natural Drainage Areas of Streams and Water Bodies Within the State of Connecticut"
b. Preliminary Drainage Area Maps (quadrangle base)
c. Annually published "Water Resources Data for Connecticut"

For inquiries concerning these reports and other information, contact the Natural Resource Center or the U.S. Geological Survey, Water Resources Division, 235 Post Office Building, Box 745, Hartford, Connecticut 06101, phone 244-2528.

IV. Natural Areas

Listed areas were identified by the Connecticut Forest and Park Association, 1010 Main St., East Hartford, Conn. 06108, in a recent statewide survey to locate unique, unusual, or otherwise natural features. Both biological and physical were included. The number and name identify the area. Towns should review the list and notify the Forest and Park Association or the Natural Resource Center of additional Natural Areas that the town recognizes.

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>C270</td>
<td>Glastonbury Meadows</td>
</tr>
<tr>
<td>C271</td>
<td>Salmon Brook Pitch Pine Stand</td>
</tr>
<tr>
<td>C280</td>
<td>Roaring Brook and Cotton Hollow</td>
</tr>
<tr>
<td>C421</td>
<td>Addison Bog</td>
</tr>
<tr>
<td>C422</td>
<td>Great Pond</td>
</tr>
</tbody>
</table>
**V. Other Resource Data**

A. Department of Environmental Protection, Water and Related Resources, Room 205, State Office Building, Hartford, Conn. 06115 (telephone 566-7220):
1. Inland Wetland Maps (by town). As applies to Public Act 155 (price $.80)
2. Tidal Wetland Maps (by unit). As applies to Public Act 695 (price $.80)
3. Stream Channel Encroachment Lines

B. Department of Environmental Protection, Natural Resources Center, Room 561, State Office Building, Hartford, Conn. 06115 (telephone 566-3540):
2. 1975 " (not available)

C. Department of Finance and Control, Planning and Budget Division, 340 Capitol Ave., Hartford, Conn. 06115 (telephone 566-4057):
1. 1970 Land Use Inventory (scale 1:24,000, on a quadrangle base). A 58 category land use inventory map based on 1970 data, available through PBD (above) or Regional Planning Agency (see VII).
2. 1970 Location of Existing Sanitary and Water Related Facilities, Services, and Uses (scale 1:48,000 on a quadrangle base). Map showing the location of sewer service areas, water service areas, water supply lands, storage sites, waste disposal sites, and other related information. Copies available from the Planning and Budget Division or copies are available for inspection at the Natural Resources Center.

D. Department of Transportation, Bureau of Highways, Soils and Foundations:
1. Construction Aggregate Availability Studies (sand and gravel availability studies): These studies show on maps the preliminary estimates of the location and volumes of sand and gravel deposits in the State. Inquiries should be directed to the Natural Resources Center. Published by quadrangle at a scale of 1:24,000 for most of the state; 1:48,000 for the remainder.

**VI. Biologic Data:** Fish management areas, wildlife management areas, preserves, reports, etc. Collection of Connecticut biologic information for use in land planning and resource management was actively initiated by the Natural Resources Center with the hiring of a full time biologist in the fall of 1974. For the preliminary stages of this project particular stress is being placed on inventories of those species, associated habitats and their location within the State which are considered rare, endangered or otherwise unique. As this program progresses we hope vegetation/habitat maps on a quadrangle basis will be developed for the entire State.

**VII. Regional Agencies Important to Your Town:**

A. University of Connecticut, Cooperative Extension Agent:
   Mr. Fred Nelson
   1280 Asylum Ave., Carriage House
   Hartford, Conn. 06105  Phone: 236-6151

B. Regional Planning Agency:
   Mr. Dana Hanson
   Capitol Region Council of Governments
   79 Elm St., Hartford, Conn. 06106  Phone: 522-2217

C. District Conservationists and Soil and Water Conservation Districts:
   Mr. Vern Anderson
   Route 5, South Main St.
   Warehouse Point, Conn. 06088  Phone: 623-8607

D. Department of Environmental Protection Regions:
   Region 3
   Mr. John Spencer
   RR #2, Box 150A, East Hampton, Conn. 06424  Phone: 295-9523
This checklist/questionnaire has been formulated by Meta Systems Inc. under contract with the Office of Water Resources Research, U.S. Department of the Interior. The contract, No. 14-31-0001-4211, is entitled “An Operational Framework for Coastal Zone Management Planning.”

The attached checklist/questionnaire has been designed to assemble data needed for evaluation of consistency in plans for land use and the merits of proposed specific land uses by towns in the coastal zone. The major goal of the questionnaire is to develop a data base consistent for all towns in the coastal zone. To this end it is important that all questions be answered fully and in the units specified. The sources for all data in each section should be listed.

To be filled out by __________________________

Department __________________________

POPULATION

Present Population (1974) __________

1980 population estimate __________

1990 population estimate __________

2000 population estimate __________

2010 population estimate __________

Source and year of population estimates:

The U.S. Dept. of Commerce, Bureau of Economic Analysis provides yearly revisions of population projections by counties for the years 1980, 1990, 2000, and 2010. The Connecticut Department of Finance and Control, Planning Division uses BEA techniques to disaggregate these estimates to the town level.

EMPLOYMENT

Total employment __________

Employed town population (those living in Town) __________

Unemployment rate __________

Employment by one digit SIC:

01: Agriculture, forestry, and fishing __________

10: Mining __________

15: Construction __________

20: Manufacturing __________

40: Transportation, communications, electric, gas, and sanitary services __________

50: Wholesale trade __________

52: Retail trade __________

60: Finance, insurance, and real estate __________

70: Services __________

90: Public administration __________

Source and year of employment data: The Connecticut Department of Labor, Research and Information Division compiles town level data on total employment, employment in the various SIC categories, and unemployment. Data on employed town population (living in the town) are contained in the U.S. Census.

EMPLOYMENT (continued)

Manufacturing by two digit SIC:

20: Food and kindred products
21: Tobacco manufactures
22: Textile mill products
23: Apparel and other finished products made from fabrics and similar materials
24: Lumber and wood products except furniture
25: Furniture and fixtures
26: Paper and allied products
27: Printing, publishing, and allied industries
28: Chemicals and allied products
29: Petroleum refining and related industries
30: Rubber and miscellaneous plastics products
31: Leather and leather products
32: Stone, clay, glass, and concrete products
33: Primary metal industries
34: Fabricated metal products, except machinery and transportation equipment
35: Machinery, except electrical
36: Electrical and electronic machinery, equipment, and supplies
37: Transportation equipment
38: Measuring, analyzing, and controlling instruments; photographic, medical and optical goods; watches and clocks
39: Miscellaneous manufacturing industries

FISCAL

Tax rate
Equalized tax rate
Grand List
Total revenue from local sources:
Revenue from sales tax
Revenue from municipal charges:
Sewer
Water
Electric
Other (specify)
Revenue from inter-governmental transfers:
Education
Other (specify)
Total budget
Budget items:
General government
Public safety
Public works
Health
Public Welfare
FISHING

Tons of catch:

| Shellfish | Other fish |

Source and year of fishing data:

The U.S. Dept. of Commerce, National Marine Fisheries Service, Statistical and Market News Division collects data on all fish landings. In published form the data are available only at the county level. However, the data are actually collected by town and an individual town might obtain town level figures by requesting a special tabulation.

The U.S. Army Corps of Engineers in its annual publication Waterborne Commerce of the United States lists fish landings (in the two categories "Shellfish" and "Other Fish") by point of landing. Town totals could be obtained by totaling all landing points within a town.

<table>
<thead>
<tr>
<th>Education</th>
<th>Libraries</th>
<th>Recreation service:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>General purpose</td>
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<tr>
<td></td>
<td></td>
<td>Schools</td>
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<td></td>
<td></td>
<td>Sewers</td>
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<tr>
<td></td>
<td></td>
<td>Urban renewal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total debt service</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Principal credit rating</td>
</tr>
</tbody>
</table>

Local town budgets provide data on the items listed. The Connecticut Tax Department compiles comparative data for all towns in the state on grand lists, tax rates and equalization valuations. This is published yearly in the document Information Relative to the Assessment and Collection of Taxes.
SHIPPING

Total tonnage:
- Internal (river) (tons/year)
- Coastwise (tons/year)
- Foreign (tons/year)

Source and year of shipping data:
The U.S. Army Corps of Engineers' annual publication Waterborne Commerce of the United States provides these data by point of shipment and by point of landing. Town totals may be obtained by totaling the shipment and landing points within a town.

INSTITUTIONAL

Government employment (SIC 90: Public Administration)
Educational and medical employment (SIC's 00: Health Services, and 82: Educational Services)

Source and year of institutional data:
The U.S. Census of Population provides data on these types of employment but only by place of residence of the employee, not by place of work.

LAND USE

Total area
Total land acreage (total town area minus water areas)
Total water acreage
Residential acreage:
- Total residential acreage
- Total number of dwelling units
- Number of seasonal dwelling units
- Acreage zoned residential presently undeveloped

Density of residential dwelling units:

<table>
<thead>
<tr>
<th>Density (units per acre)</th>
<th>Number of Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 0.5 du/acre</td>
<td></td>
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<tr>
<td>0.5 - 1.0 du/acre</td>
<td></td>
</tr>
<tr>
<td>1.0 - 2.0 du/acre</td>
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</tr>
<tr>
<td>2.0 - 8.0 du/acre</td>
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<tr>
<td>&gt; 8.0 du/acre</td>
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</tr>
</tbody>
</table>

Industrial acreage:
- Light (SIC's 20, 21, 23, 25, 27, 30, 31, 34, 35, 36, 38, 39)
- Heavy (SIC's 22, 24, 26, 28, 29, 32, 33, 37)
- Acreage zoned light industrial presently undeveloped
- Acreage zoned heavy industrial presently undeveloped
- Institutional acreage (schools, hospitals, town buildings, etc.)
- Agricultural acreage (active agricultural use)
LAND USE (continued)

Acreage zoned light industrial presently undeveloped

Acreage zoned heavy industrial presently undeveloped

Institutional acreage (schools, hospitals, town buildings, etc.)

Agricultural acreage (active agricultural use)

Reserved conservation acreage:

- Coastal wetlands
- Other wetlands
- Open lands
- Forest lands

Undeveloped and unused acreage

Other acreage (specify)

Source and year of acreage and dwelling unit density data:

The basic source of land use data is the 1970 Land Use Tabulations prepared by the Conn. Dept. of Transportation, Bureau of Planning and Research, and the Conn. Dept. of Finance and Control, Office of State Planning. Acreages for 58 types of land use are available on a whole town basis, and by census tracts, census block groups, and traffic zones within each town.

The basic source of housing data is the Census of Housing.
LAND USE (continued)

Miles of coastline (detailed miles)

Total miles

By type and ownership:

<table>
<thead>
<tr>
<th>Ownership</th>
<th>Private</th>
<th>Private with Public Access</th>
<th>Public</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type ↓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sandy beach</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Rocky beach</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Boulders/cliffs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wetlands</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recreation:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>docks and</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>marinas</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>warehousing</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>and docks</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source and year of coastline data:

An adequate data base is lacking in this area. The U.S. Dept. of the Interior, Bureau of Outdoor Recreation's study for LISS (the Long Island Sound Study) entitled Outdoor Recreation in Long Island Sound, Planning Aid Report #3: Demand Supply Needs provides town by town data but of an incomplete and difficult to interpret sort (in acres of beach rather than linear feet) on beach area and beach ownership. There appears to be no systematic data available on coastline other than recreation beach.
RECREATION

Non-beach recreation (acres):
- Private
- Private with public access
- Public

Beach used for recreation (acres):
- Private
- Private with public access
- Public

Boating (number):
- Slips
- Moorings
- Public boat ramps
- Parking spaces for use by boaters

Source and year of recreation data:
Information on all types of recreation facilities at the town level is provided in the U.S. Bureau of Outdoor Recreation's study for LISS Outdoor Recreation and Long Island Sound, Planning Aid Report No. 3: Demand Supply Needs, June, 1973.

MINING

Sand and gravel production (tons/year):
- Offshore production from dredging
- Inland

Crushed stone production (tons/year)

Quarry storage:
- Active:
  - Quarry pits (acres)
  - Ancillary areas (acres)
- Inactive (acres):

Source and year of mining data:
The LISS study Mineral Resources and Mining prepared by the U.S. Army Corps of Engineers gives aggregate demand and supply for the region. Apparently no town level data presently exist.

COMMERCE

Retail sales (dollars/year)

Number of retail employees

Square feet of retail area

Source and year of commerce data:
The Connecticut Department of Commerce collects yearly retail sales information on a town-by-town basis.
OFFSHORE ACTIVITIES

Number of islands

Acreage of islands

Miles of island shoreline (detailed miles)

Offshore population

Offshore dwelling units:
  Permanent
  Seasonal

Municipal expenditures applied to islands (specify type and amount):

Source and year of offshore activities data:

This is an important area which has received little or no systematic attention. The study team was unable to find any data on such questions as offshore area and ownership.

ELECTRICAL ENERGY

Generating capacity (MW):

Fossil steam

Nuclear

Hydro

Pumped storage

Gas turbine/ internal combustion

Cooling:

Fresh water requirements (mgd):

Fresh water source:
  Stream
  Estuary/marine
  Cooling lake

Type cooling: (Please circle)

Heat exchanger/ effluent to water body

Natural draft tower:
  Number of towers

Forced draft tower:
  Number of towers

Receiving water body: (Please circle)
  Stream
  Estuary/marine
  Cooling lake

Present heat input into receiving water body (BTU's per day)

Limit on heat input into receiving water body under State Water Quality Implementation Plan (BTU's per day)

Source and year of electrical energy data:

The LISS study Electric Power Generation provides town-by-town data on generating capacities. Utility companies are the main source for additional items.
LAND FORMING PROCESSES

Offshore dredging (except sand and gravel):
  Total tonnage per year
  Acres created/filled by dredging per year
  Acres filled with other materials per year
  Beach erosion (acres/year)
  Beach deposition (acres/year)
  Beach construction (acres/year)

Source and year of land forming processes data:

This is a critical area where little information is available. The U.S. Army Corps of Engineers report for LISS Erosion and Sedimentation provides some data for the region. The study team was unable to locate any town level data.

WATER

Peak daily water consumption (mgd)
Average daily water consumption (mgd)
Number of dwelling units supplied by distribution system
Number of dwelling units supplied by wells or other on-property means
Percent of dwelling units supplied by distribution system
Percent of dwelling units metered
Percent of industrial establishments metered
Percent of commercial establishments metered
Amount of industrial water self-supplied (mgd)
Residential water rates (price per 1,000 gallons) (specify if not linear)
Commercial water rates (price per 1,000 gallons)
Industrial water rates (price per 1,000 gallons)
Total residential water consumption (mgd)
Total commercial water consumption (mgd)
Total industrial water consumption (mgd)

Source and year of water supply data:

The various water companies serving the area have these data. The various regional planning agencies have within the last two years done comprehensive plans for water supply and wastewater treatment in their regions. These plans contain some of the information needed.
<table>
<thead>
<tr>
<th>Number of dwelling units with:</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Sewer hook-ups</td>
<td></td>
</tr>
<tr>
<td>Septic tanks</td>
<td></td>
</tr>
<tr>
<td>Cesspools</td>
<td></td>
</tr>
<tr>
<td>Package unit hook-ups</td>
<td></td>
</tr>
<tr>
<td>Other (specify):</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sewer rates (specify type of rate -- flat, etc. -- as well as price):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td></td>
</tr>
<tr>
<td>Commercial</td>
<td></td>
</tr>
<tr>
<td>Industrial</td>
<td></td>
</tr>
</tbody>
</table>

| Amount of industrial sewage self-treated (mgd) |  |

<table>
<thead>
<tr>
<th>Treatment plant:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (mgd)</td>
<td></td>
</tr>
<tr>
<td>Present flow into plant (mgd)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Processes used in plant: (Please circle)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary units:</td>
<td></td>
</tr>
<tr>
<td>Settling tank</td>
<td></td>
</tr>
<tr>
<td>Imhoff tank</td>
<td></td>
</tr>
<tr>
<td>Lagoon</td>
<td></td>
</tr>
<tr>
<td>Septic tank</td>
<td></td>
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<tr>
<td>Intermediate units:</td>
<td></td>
</tr>
<tr>
<td>Chemical feed and flocculation</td>
<td></td>
</tr>
<tr>
<td>Modified aeration</td>
<td></td>
</tr>
<tr>
<td>Lagoon</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Processes used in plant (continued) (Please circle):</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary units:</td>
<td></td>
</tr>
<tr>
<td>Trickling filters</td>
<td></td>
</tr>
<tr>
<td>Activated sludge</td>
<td></td>
</tr>
<tr>
<td>Lagoon</td>
<td></td>
</tr>
<tr>
<td>Tertiary units:</td>
<td></td>
</tr>
<tr>
<td>Mixed media filter</td>
<td></td>
</tr>
<tr>
<td>Sand or other media filter</td>
<td></td>
</tr>
<tr>
<td>Chemical precipitation for</td>
<td></td>
</tr>
<tr>
<td>Phosphorus removal</td>
<td></td>
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<tr>
<td>Other (specify):</td>
<td></td>
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<tr>
<td>Nitrogen removal:</td>
<td></td>
</tr>
<tr>
<td>Nitrogen stripping</td>
<td></td>
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<tr>
<td>Other (specify):</td>
<td></td>
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<tr>
<td>Activated carbon</td>
<td></td>
</tr>
<tr>
<td>Pressure filtration</td>
<td></td>
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<tr>
<td>Chlorination or disinfection units:</td>
<td></td>
</tr>
<tr>
<td>Pre-chlorination</td>
<td></td>
</tr>
<tr>
<td>Post-chlorination</td>
<td></td>
</tr>
</tbody>
</table>

| BOD concentration in incoming sewage (mg/l) |  |
| BOD concentration in treated sewage (mg/l)  |  |
| Phosphorus concentration in incoming sewage (mg/l) |  |
| Phosphorus concentration in treated sewage (mg/l) |  |
AIR QUALITY (continued)

Fuel use and emission standards:

Special state standards for town more stringent/lenient than state-wide standards: (Please specify)

- Heating oil
- Industrial
- Other

Local standards: (Please specify)

- Residential trash and leaf burning
- Industrial
- Other

SOLID WASTE

Source (tons/year):

- Industrial
- Commercial
- Residential
- Sewage treatment plant

Is there a municipal collection system (yes/no)

- Percent of dwelling units served
- Percent of commercial establishments served
- Percent of industrial establishments served

Disposal method (tons/year):

- Fill
- Fill with compaction
- Incineration
- Ocean disposal

Disposal charges (specify type of rate -- flat, etc. -- as well as price):

- Residential
- Commercial
- Industrial

Source and year of air quality data:

Data on air quality and emissions inventories at the town level (and on a one kilometer grid within the town in the case of emissions inventories) are available from the Connecticut Department of Environmental Protection, Division of Environmental Quality, Air Monitoring and Detection Office.


Source and year for solid waste disposal data:

Information on solid wastes is available from town departments of public works.
SEWERAGE (continued)

Receiving body for treatment plant outflow: (please circle)
- Stream
- Estuary
- Ocean
- Other (specify)

Present State classification of receiving water body (please circle)
- If stream or estuary: AA A B C
- If ocean: SA SB SC

Water quality goal for receiving water body under Connecticut Water Quality Implementation Plan (please circle): 
- If stream or estuary: AA A B C
- If ocean: SA SB SC

Water body limit for BOD from treatment plant to meet water quality goal (lbs/day)

Water body limit for phosphorus from treatment plant to meet water quality goal (lbs/day)

Source of data on sewerage:

Data on sewer plants and sewer flows are available from the various town sewer authorities. Some of the data are available in the comprehensive sewer plans drawn by the various regional planning agencies in the last two years.

AIR QUALITY

Background levels\(^1\) of:

- **Particulates (\(\mu g/m^3\))**
  - Annual geometric mean
  - Maximum 24-hour concentration
- **Sulfur oxides (\(\mu g/m^3\))**
  - Annual arithmetic mean
  - Maximum 24-hour concentration
  - Maximum 3-hour concentration
- **Carbon monoxide (mg/m\(^3\))**
  - Maximum 8-hour concentration
  - Maximum 1-hour concentration

(Extrapolate from the nearest measuring station if none is located in the town.)

Ambient air quality standards:

- **Particulates (\(\mu g/m^3\))**
  - Annual geometric mean
  - Maximum 24-hour concentration
- **Sulfur oxides (\(\mu g/m^3\))**
  - Annual arithmetic mean
  - Maximum 24-hour concentration
  - Maximum 3-hour concentration
- **Carbon monoxide (mg/m\(^3\))**
  - Maximum 8-hour concentration
  - Maximum 1-hour concentration

\(^1\) The air quality categories are those used in Connecticut Air Quality Implementation Plan, Connecticut Department of Environmental Protection, Hartford, Connecticut, 1972.