

**Institute of Ecosystem Studies**

**A REFERENCE GUIDE AND BIBLIOGRAPHY TO THE ECOLOGY  
AND NATURAL RESOURCES OF  
THE NEW YORK CITY METROPOLITAN AREA**

*Second Edition*

**Alejandro Flores**

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**Steward T.A. Pickett**

**Mark J. McDonnell**

**Number 12**

**Occasional Publication of the Institute of Ecosystem Studies**

**March 1997**

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## *Preface to the Second Edition*

In the first edition of the Bibliography (*The Ecology and Natural Resources of New York City: A Bibliography*, 1991, Occasional Publication #5 of the Institute of Ecosystem Studies, Millbrook, NY), we attempted to simplify the task of assembling in one place all of the published information printed in the last 150 years on the terrestrial and freshwater ecosystems found in the New York City (NYC) area. The success of the first edition and the increased need to access such published information for the NYC Tri-State Region has led to the development of this expanded and updated version of the Bibliography.

The second edition has added almost 1700 references to the original compilation. While some of these new references update the original compilation, most additions have resulted from expanding the geographical area of interest to correspond with the 31 counties covered under the Regional Plan Association's plan for the New York-New Jersey-Connecticut area (Yaro and Hiss, 1996). The second edition also features a revised set of keywords that includes new locations and

incorporates feedback from the user community. While the logic for classifying references has been retained, we have updated and expanded the keywords for all original references. Because the number of references has substantially increased, the results have been expanded to include several figures. Finally, the second edition includes a new section (Appendix A) describing some of the available geographic information system (GIS) data for the area. This initial list of GIS data is meant to serve as an aid to accessing a rapidly expanding world of ecological information in the form of digital maps.

As with the first edition, we view this compilation of information as developmental, and encourage readers to inform us of any corrections and manuscripts we have overlooked. The focus of this bibliography continues to be the terrestrial and freshwater environment and thus does not include references of marine or estuarine systems in the New York City Metropolitan area (NYCMA).

## *Preface to the First Edition*

Ecological studies which are now underway by the Institute of Ecosystem Studies in the New York Botanical Garden Forest, and the increasing interest in studying and managing natural areas in New York City by the Department of Parks, the United States Forest Service and others has created a great need to readily access pertinent ecological and natural resource management information for the New York City Metropolitan Area. Most of those involved with this surge of activity have discovered that it is difficult to access, or even determine, if information is available for the region. This bibliography attempts to simplify this task by assembling in one place all of the published information printed in the last 150 years on the terrestrial and freshwater ecosystems found in the NYCMA (New York City metropolitan area).

The bibliography contains a list of references; a brief description on how to use the bibliography to search for

specific references; and a list of sources and local institutions that may have additional information not included in this bibliography. We made every effort to include all of the published material available for the topic, excluding newspaper and most newsletter articles.

We view this compilation of information as developmental, and encourage readers to inform us of any corrections and articles we have overlooked. The bibliography concentrates on the terrestrial and freshwater environment and thus does not include references of marine or estuarine systems. References pertaining to these ecosystems have already been compiled in a bibliography which may be obtained from the National Park Service Cooperative Research Unit, Center for Coastal and Environmental Studies, Rutgers University, New Brunswick, New Jersey.

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## Introduction

The context of human ecology is increasingly the urban fabric of cities and suburbs. About half of the world's population now lives in urban areas. Much of the attention paid to this well-known phenomenon has focused on the exploding megacities of tropical nations, such as Mexico City, Sao Paulo, Cairo, and Jakarta. However, a similar trend has occurred in the United States, where it is estimated that 80% of the population will live in urban and suburban areas by the turn of the century. Accordingly, our understanding of these human populated landscapes will be crucial to the development of management strategies and public policy that will protect or enhance the quality of life for the bulk of the populace.

While rapid population growth continues to threaten the quality of life in many metropolitan areas around the world, a more serious threat in North America is posed by the rapid outward expansion of the urban landscape into the surrounding countryside. Concern with the long-term sustainability of expanding urban centers is now a driving paradigm for planners, policy makers, and resource managers in metropolitan North America. This is certainly the case in the New York City Metropolitan Area (NYCMA) where the population has increased by only 13% between the years 1960 and 1990, but the loss of natural and agricultural lands to urban development has increased by a staggering 60%<sup>1</sup>. Concurrently, the incorporation of ecological knowledge into decision making is increasingly regarded as strategic in protecting life-sustaining systems and enhancing the quality of life in human populated areas.

Success in incorporating ecological knowledge into decision-making, however, is often limited by the availability or accessibility of ecological information. Ecological information appears to be of poor quality or non-existent for urbanized landscapes in North America, yet a wealth of information can be found with some time and effort. This is especially true for an urban area like NYCMA which enjoys a long history and a rich legacy of scholarship in the biological sciences. Unfortunately, like for many other urban centers in North America, this legacy of scholarship is not easily accessible in the NYCMA. Available information is scattered, in multiple formats, and at times residing in obscure places. Toward the end of making ecological information more readily available, this bibliography provides a comprehensive list of references to published material on the ecology and natural resources of terrestrial and freshwater landscapes in NYCMA. Since the bibliography delineates the state of our

ecological knowledge in NYCMA, it will also be useful in prioritizing future ecological research efforts in the area and other metropolitan landscapes.

## Research Methods

In order to achieve our goal of providing the user community with an actualized and comprehensive bibliographic reference, we have conducted an extensive search for published manuscripts addressing a broad range of ecological topics. The search has involved a multifaceted approach to the collection and processing of ecologically relevant references spanning over 150 years and covering 31 counties in the Tri-State Region (Figure 1).

For the first edition we had compiled a list of obvious sources of ecological information which included local libraries, museums, botanical gardens, and academic institutions, and at the same time compiled a list of journals, magazines, and other printed materials that publish information about the region. We then made visits to the institutions on the list and began to examine back issues of the identified published materials. As a final check, we conducted computerized data searches to locate sources of information that may have been overlooked. These references were recorded on index cards, assigned keywords, and a note was made as to where the reference was located or cited, i.e., verified. The references were next entered into a computer database system designed for managing bibliographic references at the Institute of Ecosystem Studies in Millbrook, NY. Each record in the database represented a separate reference which included a unique call number, names of author(s), year of publication, the source, list of keywords, and the type of the publication. The bibliographic system enabled us to sort the references by location and subject, update references, and create author indexes and various user-defined reference formats.

To expand the geographic extent and update the second edition, we have continued some of these earlier efforts but have relied primarily on electronic databases and other reference lists compiled by individuals working in the field. Electronic database searches covering the whole geographic extent were done for the period between January 1989 to September 1995. The following databases were consulted through DIALOG OneSearch:

<sup>1</sup>Yaro, R.D. and Hiss, T. (eds). 1996. *A region at risk: The third regional plan for the New York-New Jersey-Connecticut Metropolitan Area*. Regional Plan Association. New York: Island Press, Covel, CA.

- 1) BIOSIS PREVIEWS(R) 1969-1995/Jul W3  
© 1995 BIOSIS
- 2) Meteor. & Geastro. Abs. 1970-1995/Jun  
© 1995 Amer. Meteorological Soc.
- 3) Enviroline(R) 1970-1995/Jun  
© 1995 CIS, Inc.
- 4) GeoArchive 1974-1995/May  
© 1995 Geosystems
- 5) Env. Bib. 1974-1995/Feb  
© 1995 Intl. Acad. at Santa Barbara
- 6) GEOBASE(TM) 1980-1995/Jul  
© 1995 Elsevier Science Ltd.
- 7) GeoRef 1785-1995/Aug B1  
© 1995 American Geological Institute

3. The keyword "**New York Metro Area**" or New York City Metropolitan Area is used when referring to more than two counties in different states;
4. The term "**Long Island**" is used only if reference is specific to both Nassau and Suffolk counties;
5. The term "**Northern New Jersey**" is used when referring to three or more counties in the state of New Jersey;
6. The term "**Southeastern New York**" is used when referring to three or more counties in the state of New York;
7. The term "**Western CT**" is used when referring to the three NYCMA counties in the state of Connecticut;
8. County names (e.g., "**Fairfield**" or "**Passaic**") are used only if the reference is specific to that county; and
9. Finally, the keyword "**Other**" is used for references which did not specify any particular location in the NYCMA.

In addition, reference lists provided by individuals such as Dr. Steven Clemants, Metropolitan Flora Project, Brooklyn Botanic Garden, Brooklyn, New York, and Mr. David Kunstler, New York City Department of Parks and Recreation, were consulted. These lists were used primarily to identify earlier published materials and those in the "gray" literature, i.e., materials not appearing in peer reviewed journals. All references were either electronically or manually imported into PAPHYRUS 7.0<sup>2</sup>, a software program designed to manage bibliographic references. Processing of references involved the standardization of formats, identification of duplicates, and a systematic assignment of a minimum set of keywords for all new and existing references. A description of the revised set of keywords used in this second edition of the bibliography follows.

<sup>2</sup>PAPHYRUS 7.0. 1994. Software manual. Research Software Design, Inc.: Portland, OR.

## Location Keywords

The geographical area covered in the bibliography includes NYC and its adjacent metropolitan area which encompasses 26 counties in the "Tri-State" region (Figure 1). The references listed in the bibliography are organized into major headings by location, using the following assignment criteria (Box 1):

1. NYC boroughs (e.g., "**Bronx**") are used only if the reference is specific to that borough. In most cases the geographical area was inferred from the title and not from review of text;
2. The term **New York City** is used when referring to more than two NYC boroughs;

*Box 1*  
**Location Keywords**

County Names  
Long Island  
NYC Borough Name  
New York City  
New York Metro Area  
Northern New Jersey  
Other  
Southeastern New York  
Western Connecticut

## First Order Keywords

References are further subdivided for each specific location keyword by references to the ecological categories providing the biophysical context to the content of the reference (Box 2). A single keyword is mandatorily assigned to each reference, enabling its use as a major subheading in the index.

**First-order keywords are defined as follows:**

1. **Air:** studies of air quality;
2. **Aquatic:** includes references related to open freshwater habitats, e.g., streams and ponds;
3. **Climate:** meteorological studies;
4. **Forests:** all references related to forest habitats; These include woodlands, shrublands, and barrens generally associated with forests in the region;
5. **Geology:** all geologic studies that are relevant to the ecological systems or the environmental quality of an area;
6. **Grasslands:** all references related to grassland habitats; These include all areas covered by herbaceous vegetation, e.g., old fields, agricultural lands, and pastures;
7. **Green space:** all references related to open space or protected areas, e.g., parks, reserves, sanctuaries, greenways, refuges etc;
8. **Madelands:** all references pertaining to residential, commercial, or industrial areas including landfills, mines, and streets;
9. **Soil:** studies of soil including surveys and classifications;
10. **Water:** includes references of water quality or quantity;
11. **Wetlands:** includes references related to freshwater wetland habitats, e.g., marshes or red-maple swamps, which do not generally include open-water habitats; and
12. **Multiple:** all references that refer to three or more media or landscape types.

Box 2

### First Order Keywords

Air  
 Aquatic  
 Climate  
 Forests  
 Geology  
 Grasslands  
 Green space  
 Madelands  
 Multiple  
 Soil  
 Water  
 Wetlands

## Second-Order Keywords

Second-order keywords were used to facilitate the indexing of specific topics. More than one can be used per reference. These words are used to group references into more informative categories (Box 3). Second-order keywords can be grouped into those which are taxonomically based and those which are not. **Non-taxonomic keywords** are described briefly as follows:

1. **Assessments:** used for soil or geologic surveys or ecological studies that go beyond inventories or descriptions;
2. **Biodiversity:** all references addressing the issue of biodiversity at any biological level;
3. **Biogeochemistry:** ecological studies at the ecosystem level of biological organization including nutrient cycling and trophic dynamics;
4. **Community dynamics:** studies of plant or animal community changes over time;
5. **Disturbance:** studies on human or abiotic disturbances including fire;
6. **Education:** used to refer to educational publications focused at the general public. These include nature guides, bibliographies and other education material;
7. **Health:** references that relate to pathological studies including diseases and injuries and other biological stresses;
8. **History:** all references related to either the natural or cultural history relevant to ecology or natural resources management;
9. **Inventory:** all references related to ecological inventories including censuses and species lists or catalogues;
10. **Life history:** ecological studies at the species level of biological organization including physiology, behavior and autecology of plants or animals;
11. **Management practices:** all references related to management activities including approaches and techniques but excluding those associated with restoration or planning;

Box 3

### Second-order/ Non-Taxonomic Keywords

Assessments  
 Biodiversity  
 Biogeochemistry  
 Community dynamics  
 Disturbance  
 Education  
 Health  
 History  
 Inventory  
 Life history  
 Management practices  
 Native-nonnative  
 Planning  
 Pollution  
 Population dynamics  
 Rare-endangered  
 Restoration



- 12. **Native-nonnative:** a study or report of non-native species (plant or animal);
- 13. **Planning:** all references related to planning activities usually associated with the protection of green spaces;
- 14. **Pollution:** refers to all studies dealing with any kind of pollution;
- 15. **Population dynamics:** ecological studies at the population level of biological organization including population size changes, colonizations etc;
- 16. **Rare-endangered:** study or report of a rare plant or animal species in the region; and
- 17. **Restoration:** pertains to the restoration of ecological systems or habitats.

**Taxonomic Keywords**, on the other hand, are references that pertain to various taxonomic categories. Second-order/ taxonomic keywords are subdivided into two major groups clustered around animals and plants (Box 4):

**Animals:**

- Amphibians
- Animals (more than one animal group, includes wildlife)
- Birds
- Fish
- Insects
- Invertebrates (excluding insects)
- Mammals
- Protozoa
- Reptiles

**Plants:**

- Algae (includes phytoplankton)
- Bacteria
- Bryophytes (including mosses)
- Ferns
- Fungi
- Herbs (flowers, grasses, etc.)
- Lichens
- Shrubs
- Trees
- Vegetation (used only when more than one plant group is addressed)

*Box 4*  
**Second-order/  
Taxonomic Keywords**

***A n i m a l s :***  
Amphibians  
Animals  
Birds  
Fish  
Insects  
Invertebrates  
Mammals  
Protozoa  
Reptiles

***P l a n t s :***  
Algae  
Bacteria  
Bryophytes  
Ferns  
Fungi  
Herbs  
Lichens  
Shrubs  
Trees  
Vegetation

The list of references, as they appear in the bibliography, are ordered alphabetically by the primary author's last name, or if no author is given, by the name of the sponsoring institution.

226. Britton, EG (1927): Rare wild flowers of New York City and vicinity. J NY Bot Gard 28, 248-49.

*Keywords: [INVENTORY; MULTIPLE; NYC METRO AREA; RARE-ENDANGERED; VEGETATION]*

The reference number listings for location, ecological media and second-order keywords can be found in the index. No attempt was made to cross reference second-order with first-order keywords, due to the large number of different possible combinations; however, by including all of the assigned keywords in the reference list one can, for a specific purpose, perform this task without much difficulty. In addition, a separate index listing of second-order keywords is included to enable easy access to more specific subject headings.

## Keywords Describing Specific Places

As well as the location, first order and second order keywords, we have included these following keywords describing the name of a specific park, reserve, refuge or greenspace.

ALLEY PARK	GREENBROOK SANCTUARY	PALISADES PARK
APPALACHIAN HIGHLANDS	GREENBURGH NATURE CENTER	PASSAIC COUNTY
AUDUBON CENTER NATURAL AREA	HACKLEBARNEY NATURAL AREA	PELHAM BAY PARK
BARRIER ISLAND NATIONAL PARKS	HARRIMAN STATE PARK	PROSPECT PARK
BATTERY PARK	HECKSHER STATE PARK	REEVES-REED ARBORETUM
BEAR MOUNTAIN STATE PARK	HIGH ROCK PARK	RIVERDALE PARK
BEDFORD PARK	HIGH POINT STATE PARK	ROEBLING PARK
BELMONT LAKE STATE PARK	HITHER HILLS STATE PARK	SAINT JOHN'S POND PRESERVE
BLUE HERON POND PARK	HOYT FARM PARK	SANDS POINT PRESERVE
BRONX RIVER PARKWAY	HUDSON RIVER VALLEY	SCULLY SANCTUARY
RESERVATION	HUNTER ISLAND REFUGE	SECTON FALLS PARK
BRONX PARK	HUNTERDON COUNTY	SHAWANGUNK/KITTATINNY
BROOKLYN BOTANIC GARDEN	HUTCHESON MEMORIAL FOREST	SLOPE PARK
CALEB SMITH STATE PARK	INWOOD HILL PARK	STATEN ISLAND GREENBELT
CATSKILL PARK	JENNY JUMP STATE PARK	STOKES STATE FOREST
CAUMSETT STATE PARK	JEROME PARK	SUBURBAN BIRD SANCTUARY
CENTRAL PARK	JONES BEACH STATE PARK	SUNKEN MEADOW STATE PARK
CLAY PITS PONDS PARK	KALBFLEISH RESEARCH	SUPPLY PONDS NATURAL AREA
CONFERENCE HOUSE PARK	STATION	TEATOWN LAKE RESERVATION
CONNETQUOT RIVER STATE PARK	KISSENA PARK	THEODORE ROOSEVELT
CONSTITUTION MARSH SANCTUARY	KUSER NATURAL AREA	SANCTUARY
CRANBERRY BOG PRESERVE	LEEDS POND PRESERVE	THOMPSON POND PRESERVE
CUNNINGHAM PARK	LI PINE BARRENS	TOBAY SANCTURAY
DELAWARE RIVER VALLEY	LIBERTY STATE PARK	UDALLS PARK PRESERVE
DREW UNIVERSITY PRESERVE	LONG ISLAND WILDLIFE REFUGE	UPLAND FARMS SANCTUARY
FIRE ISLAND SEASHORE	MAHLON DICKERSON RESERVA-	VAIL BLYDENBURGH PRESERVE
FOREST PARK	TION	VALLEY STREAM STATE PARK
FORT WASHINGTON PARK	MARINE PARK	VAN CORTLAND PARK
FORT TYRON PARK	MASHOMACK PRESERVE	VOORHEES STATE PARK
GATEWAY PARK	MASSAPEQUA PRESERVE	W. BUTLER MEMORIAL SANCTUARY
GRAVIES POINT PRESERVE	MCLEAN GAME REFUGE	W. T. DAVIS WILDLIFE REFUGE
GREAT SWAMP NATIONAL WILDLIFE	MIANUS GORGE WILDLIFE REFUGE	WARD'S ISLAND PARK
REFUGE	MORRISTOWN NATIONAL HISTORIC	WATCHUNG RESERVATION
GREAT KILLS PARK	PARK	WAVE HILL NATURAL AREA
GREAT SWAMP NATIONAL WILDLIFE	MUTTONTOWN PRESERVE	WEIR PRESERVE
REFUGE	NEW YORK BOTANICAL GARDEN	WELD PARK-GREEN GATE PARK
	NJ PINELANDS	WILWOOD STATE PARK
	OAKLAND LAKE PARK	WOLFES POND PARK
	ORIENT BEACH STATE PARK	YALE NATURAL PRESERVE

## RESULTS

The following section summarizes the most salient aspects revealed by an analysis of all references included in the Bibliography. A total of 1678 references were additionally identified and catalogued in the second edition bringing the overall number of references in the database to 2407.

### Number of publications through time

References in the database provide evidence to the long history of biological scholarship in the NYCMA. Manuscripts have been published for over 150 years. The number of references per decade (Figure 2) suggest a pattern of sustained increment in the decade by decade production of manuscripts since the 1850s. There are two historical coun

ter trends to this generalized increased productivity: (a) a minor decrease in the number of references for the 1890s

after an acute peak in production during the 1880s; and (b) a considerable decrease in the number of references for the 1940s. Policies of the government were reflected in both trends; the peak of publications occurring in the 1880s is attributable to the establishment of federal and state agencies charged with conducting natural research surveys. It was also a period in which several noted naturalists were practicing in the region, such as N.L. Britton, W.T. Davis, N. Hollick and others. The decrease in the 1940s reflected the United States' participation in World War II. The almost continuous gradual increment in number of references before the 1970s coincides with the increase observed in scientific publications nationwide. The dramatic increase in productivity since the 1970s of ecological and environmental science literature is also a reflection of the environmental movement of the 1960s. Increased environmental awareness led in the following decade to the recognition



Figure 2. Total number of references by decade for the NYC Metropolitan Area.

that plants and animals continued to inhabit urban areas even though these landscapes were highly modified. This awareness led to the increasing legitimization of scientific inquiry in urban landscapes among biologists.

text 10 figure 3

Figure 3. Relative proportion of references for the NYCMA by state.

### Geographic focus

The most important aspect about the geographic distribution of literature in the NYCMA is that it is focused at the local scale. Regional studies involving a unit of analysis beyond the boundaries of a county are not common. For the larger NYCMA, most references address an area within a county or given state (Figure 3). This pattern is also true within New York City, where borough-wide or city-wide studies are limited in number (Figure 4). The parks, reserves, and other green spaces in metropolitan areas are considered as islands, whose ecological content is devoid of an ecological context. Indeed, the majority of references neglect the sociocultural or biophysical matrix that provides context to the landscape elements studied. However, ecological context is the key to understanding the internal dynamics of landscape elements and their connections to the rest of the landscape. Ecological studies in NYCMA would greatly benefit from addressing aspects of the landscape matrix providing a context to

each landscape unit studied. Moreover, studies at multiple spatial scales are indispensable to begin understanding the ecological dynamics of the NYCMA landscape.

Another important aspect of the literature found for the NYCMA landscape is that references are not homogeneously distributed throughout the geographic area (Figure 4). The number of references found for different locations is at least partly dependent upon the development history of the region and the presence of an active organization conducting ecological research or practicing natural resource management.

text 11 figure 4

Figure 4. Relative proportion of references for New York City by borough.

The development history of a location is another factor affecting the number of references. For example, Staten Island has the greatest number of references for NYC (37%), which has only recently come under development pressure when compared to Manhattan (7%), which has the longest development history for the region. Somewhat surprising is the percentage for Brooklyn (14%), which surpasses that for Queens (7%), even though Brooklyn has had a longer history of development and has little undeveloped space remaining. This finding is in part a result of research and management being conducted by the Brooklyn Botanic Garden.

## Ecological Media

There is a wide variety of ecological media or habitat providing context to ecological and natural resource studies in NYCMA (Figure 5). The reference totals for media categories were not unexpected. By far the most frequently found references were in the green space (549) and forests (295) categories, which, as previously mentioned, is due to

The biological and non-biological subject matter of references is highly diverse for NYCMA (Figure 6). However, three issues dominate the biological focus of the literature: (1) Pollution (268); (2) Biodiversity (241); and (3) Life History (204) (Figure 6). Whereas education (289) and to a lesser extent planning (150) dominate the non-ecological subject focus (Figure 7). A high number of ecological references in NYCMA are limited to descriptions or inventories of species and habitats (446). Indeed, few community-wide (80) or ecosystem level (41) studies were found in the literature. This is partly due to an historical focus on species inventories and to a lesser extent, on community classifications. There are, however, both practical and theoretical calls to widen the focus of ecologi

*Figure 5. Number of NYCMA references by media.*

the long history of botanical research that has taken place in the region. There are also many references addressing cross media phenomena or multiple habitat (763). Relatively less work has been done on madelands (87) and both air and climate (84 combined).

## Subject matter

cal inquiry to include levels of organization above that of the species (Pickett et al.)<sup>3</sup>. Moreover, characterizations of ecological structure would be greatly enhanced by complementary characterizations of ecological processes. Studies of process are few in the NYCMA. For instance, there is approximately only one reference addressing ecological process for every nine addressing ecological structure in

the greenspace literature. Examples of meaningful processes that could be studied include species interactions (e.g., predation and competition) and energy/material transfers (e.g., photosynthesis and decomposition).

<sup>3</sup>Pickett, S.T.A., R.S. Ostfeld, M. Shachak, and G. Likens. 1997. *The ecological basis of conservation: Heterogeneity, ecosystems and biodiversity*. Chapman and Hall, New York.



text 13 figure 6

Figure 6. Total number of NYCMA references for biological subject categories.

The category "native-nonnative" refers to concern with the role and proportion of native and nonnative species in the region.

text 14 figure 7

Figure 7. Total number of NYCMA references for non-biological subject categories.

### Taxonomic focus

Many manuscripts note, describe or analyze the presence of species in the different landscapes of the NYCMA. Unfortunately, these efforts continue to be focused on a few popular taxonomic groups at the expense of others. The literature in NYCMA overwhelmingly focuses on two taxonomic groups: birds and trees. There are many more references about birds than all other animals combined (Figure 8). This latter outcome is undoubtedly related to the popularity of bird watching in the NYCMA, which is due in part to the area's close proximity to coastal bird

text 15 figure 8

Figure 8. Number of NYCMA references for various taxonomic group of animals.

migration routes and the diversity of habitat types found in the region. A less pronounced, though similar relationship applies to trees when compared to other plants (Figure 9). Attention has overwhelmingly focused on taxa that are highly visible (trees vs. bacteria) and that are generally perceived as charismatic (e.g., birds vs. amphibians). While the study of these taxa is important, the profound bias toward them has resulted in other taxa being virtually unexplored. References pertaining to bryophytes, fungi, lichens, bacteria and invertebrate animals are especially low. But, perhaps more consequential, has been an overall negligence of the less visible belowground component of ecosystems.

text 16 figure 9

Figure 9. Total number of NYCMA references for various taxonomic groups of plants.

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128; 190; 332; 440; 441; 442; 443; 499; 537; 541; 560; 624; 759; 760; 764; 766; 1007; 1178; 1185; 1187; 1188; 1367; 1512; 1607; 1650; 1651; 1733; 1873; 1916; 1917; 1928; 1961; 1975; 1976; 2097; 2237; 2347; 2377.

#### **Birds:**

7; 20; 22; 23; 24; 42; 92; 93; 94; 114; 115; 119; 120; 121; 122; 123; 124; 125; 126; 151; 156; 164; 175; 178; 179; 180; 206; 207; 208; 211; 212; 213; 217; 218; 270; 285; 286; 287; 288; 289; 290; 291; 292; 294; 303; 304; 306; 307; 308; 309; 310; 311; 312; 313; 315; 316; 317; 318; 320; 321; 322; 323; 324; 325; 326; 346; 347; 348; 351; 362; 363; 364; 388; 408; 409; 446; 448; 473; 484; 491; 492; 493; 494; 495; 496; 497; 535; 536; 538; 554; 562; 571; 572; 573; 576; 577; 588; 589; 590; 591; 592; 593; 594; 595; 596; 597; 598; 599; 600; 601; 602; 605; 606; 607; 608; 609; 618; 619; 627; 639; 641; 642; 643; 644; 645; 646; 647; 648; 649; 652; 655; 664; 665; 676; 678; 679; 701; 702; 705; 706; 707; 708; 709; 710; 713; 717; 725; 727; 733; 750; 785; 787; 788; 795; 796; 798; 799; 800; 802; 803; 822; 879; 880; 881; 943; 962; 963; 964; 965; 966; 967; 969; 970; 971; 972; 973; 976; 977; 978; 979; 980; 981; 982; 986; 992; 999; 1000; 1006; 1009; 1015; 1109; 1110; 1129; 1155; 1160; 1193; 1197; 1199; 1200; 1210; 1214; 1216; 1217; 1218; 1219; 1220; 1221; 1222; 1223; 1237; 1238; 1240; 1247; 1249; 1254; 1255; 1281; 1286; 1295; 1296; 1297; 1337; 1338; 1339; 1343; 1344; 1345; 1355; 1379; 1410; 1411; 1412; 1423; 1439; 1440; 1443; 1445; 1455; 1457; 1484; 1485; 1486; 1487; 1488; 1489; 1514; 1522; 1550; 1603; 1604; 1607; 1609; 1693; 1694; 1696; 1698; 1699; 1700; 1701; 1706; 1707; 1716; 1717; 1718; 1723; 1724; 1725; 1730; 1731; 1732; 1735; 1740; 1741; 1742; 1743; 1744; 1745; 1746; 1770; 1776; 1791; 1793; 1794; 1797; 1800; 1817; 1825; 1829; 1830; 1831; 1853; 1859; 1887; 1888; 1889; 1890; 1891; 1892; 1893; 1894; 1896; 1897; 1898; 1907; 1908; 1909; 1910; 1911; 1914; 1920; 1942; 1943; 1944; 1945; 1946; 1947; 1948; 1949; 1950; 1956; 1982; 1983; 1984; 1985; 2048; 2049; 2050; 2051; 2052; 2053; 2054; 2055; 2056; 2058; 2059; 2061; 2062; 2125; 2126; 2168; 2240; 2282; 2311; 2329; 2330; 2331; 2332; 2333; 2334; 2335; 2362; 2365; 2380; 2394; 2395; 2396; 2397; 2398; 2399.

#### **Fish:**

223; 279; 406; 480; 485; 506; 566; 617; 844; 1072; 1073; 1085; 1164; 1234; 1291; 1369; 1460; 1481; 1536; 1607; 1608; 1900; 1921; 1922; 1923; 1924; 1980; 2017; 2176; 2303; 2324; 2371; 2385.

**Insects:**

252; 253; 254; 255; 256; 259; 384; 434; 463; 467; 477; 486; 498; 509; 513; 520; 522; 530; 533; 673; 703; 704; 747; 775; 922; 995; 1014; 1094; 1108; 1123; 1278; 1279; 1280; 1283; 1317; 1366; 1775; 1826; 1832; 1957; 1968; 1972; 1990; 1998; 2099; 2100.

**Invertebrates:**

152; 161; 192; 327; 394; 416; 527; 528; 697; 1075; 1104; 1131; 1152; 1213; 1502; 1683; 1734; 1756; 1826; 1832; 1939; 2024; 2025; 2093; 2108; 2109; 2177; 2285; 2310; 2386; 2387.

**Mammals:**

98; 282; 283; 284; 342; 361; 428; 439; 472; 483; 500; 542; 703; 704; 711; 765; 768; 816; 913; 948; 957; 968; 991; 1016; 1060; 1159; 1169; 1250; 1298; 1368; 1507; 1511; 1607; 1627; 1628; 1637; 1656; 1729; 1795; 1860; 2020; 2283.

**Protozoa:**

417; 418; 452.

**Reptiles:**

332; 440; 442; 443; 445; 459; 499; 541; 564; 565; 624; 653; 654; 752; 761; 764; 766; 767; 769; 770; 797; 818; 1007; 1178; 1185; 1186; 1187; 1188; 1232; 1367; 1505; 1512; 1651; 1726; 1733; 1915; 1916; 1917; 1928; 2018; 2097.

**Plants****Algae:**

403; 419; 451; 479; 696; 921; 1087; 1248; 1430; 1572; 1668; 1979.

**Bacteria:**

368; 556; 613; 696; 1567; 1569; 1574; 1578.

**Brophytes:**

47; 84; 225; 651; 663; 887; 888; 1147; 1163; 1454; 2001.

**Ferns:**

83; 166; 214; 266; 393; 420; 579; 675; 687; 736; 842; 1066; 1195; 1476; 2003; 2010; 2012; 2015; 2188; 2189; 2284; 2353.

**Fungi:**

387; 899; 900; 901; 1031; 1082; 1264; 1510; 1658; 1756; 1815; 2316; 2317.

**Herbs:**

3; 52; 55; 63; 68; 69; 82; 86; 91; 176; 184; 224; 235; 239; 272; 274; 329; 402; 490; 531; 668; 669; 836; 841; 906; 940; 945; 1023; 1026; 1081; 1150; 1171; 1194; 1230; 1243; 1252; 1276; 1425; 1431; 1432; 1437; 1438; 1447; 1466; 1551; 1661; 1734; 1931; 1932; 1933; 1934; 1960; 2029; 2065; 2066; 2095; 2118; 2161; 2179; 2186; 2193; 2198; 2199; 2202; 2204; 2207; 2210; 2216; 2222; 2241; 2336; 2370; 2392.

**Lichens:**

257; 258; 469; 545; 563; 651; 662; 909; 1426; 1761; 2275; 2363; 2364.

**Shrubs:**

48; 53; 60; 66; 71; 75; 76; 78; 113; 186; 232; 249; 314; 386; 391; 470; 490; 502; 510; 511; 517; 531; 558; 628; 712; 827; 835; 840; 843; 1035; 1177; 1206; 1262; 1285; 1303; 1304; 1340; 1341; 1414; 1468; 1516; 1616; 1617; 1618; 1619; 1620; 1622; 1641; 1642; 1695; 1702; 1710; 1711; 1774; 1799; 1802; 1803; 1818; 1848; 1872; 1886; 1959; 2009; 2011; 2013; 2014; 2138; 2140; 2160; 2243; 2306; 2308; 2321; 2344.

**Trees:**

5; 14; 43; 44; 48; 54; 56; 59; 61; 65; 67; 73; 74; 77; 103; 104; 135; 146; 153; 168; 169; 170; 173; 236; 239; 240; 242; 244; 246; 247; 248; 250; 267; 268; 297; 299; 338; 340; 343; 344; 350; 355; 382; 386; 394; 435; 458; 467; 468; 470; 501; 503; 504; 508; 512; 516; 521; 523; 525; 526; 529; 582; 614; 694; 716; 731; 732; 745; 749; 753; 757; 782; 812; 814; 830; 832; 835; 839; 840; 889; 892; 894; 895; 905; 907; 911; 937; 984; 1003; 1013; 1020; 1022; 1045; 1049; 1088; 1118; 1149; 1150; 1151; 1162; 1177; 1190; 1196; 1256; 1260; 1282; 1285; 1304; 1315; 1328; 1347; 1358; 1359; 1380; 1402; 1408; 1413; 1452; 1479; 1494; 1509; 1515; 1518; 1564; 1583; 1586; 1589; 1616; 1617; 1618; 1619; 1620; 1622; 1652; 1670; 1685; 1695; 1702; 1710; 1711; 1720; 1721; 1722; 1748; 1765; 1774; 1798; 1802; 1803; 1824; 1838; 1864; 1865; 1866; 1868; 1927; 1959; 1991; 2006; 2007; 2011; 2013; 2014; 2058; 2089; 2103; 2140; 2144; 2151; 2164; 2205; 2229; 2230; 2270; 2279; 2301; 2306; 2320; 2321; 2325; 2327; 2341; 2381; 2403.

**APPENDIX A: EXAMPLES OF AVAILABLE GIS INFORMATION**

New York City Metro Area ..... Page 115  
 Connecticut (State-wide) ..... 118  
 New Jersey (State-wide)..... 122  
 New York (State-wide)..... 125  
 New York City ..... 129  
 Westchester County..... 131

**Abbreviations Used and Sources for Ordering GIS-Based Documentation**

<b>ADC</b>	American Digital Cartography, Inc. 3003 W. College Avenue Appleton, WI 54914-2910	<b>EII</b>	Earth-Info, Inc. 5541 Central Avenue Boulder, CO 80301
<b>ADI</b>	American.dbf. Inc. 155 N. Beacon Street, Suite 200 Brighton, MA 02135	<b>EOSAT</b>	EOSAT Corporation 4300 Forbes Boulevard Lanham, MD 20706
<b>ARC/Info</b>	GIS software developed by ESRI	<b>EPA</b>	Environmental Protection Agency 401 M Street, S.W. Washington, DC 20460
<b>ASCII</b>	American Standard Code for Information Exchange	<b>EPA RCRA</b>	Resource Conservation and Recovery Act
<b>Atlas GIS</b>	GIS Software marketed by Claritas, Inc., 53 Brown Road, Ithaca, NY 14850-1262	<b>EPA Storet</b>	A database maintained by EPA for Storage and <b>database</b> Retrieval of water quality parametric data for U.S. waterways
<b>AVHRR</b>	Advanced Very High Resolution Radiometer	<b>Equifax</b>	Equifax National Decisions Systems, Inc. 5375 Mira Sorrento Place, Suite 400 San Diego, CA 92121
<b>BLR</b>	Business Location Research, Inc. 1820 E. River Road #110 Tucson, AZ 85710	<b>Equinox</b>	Equinox, Inc. 1953 Gallows Road, Suite 300 Vienna, VA 22182
<b>Claritas</b>	Claritas, Inc. 53 Brown Road Ithaca, New York 14850-1262	<b>ESRI</b>	Environmental Systems Research Institute
<b>CT DEP</b>	Connecticut Department of Environmental Protection 74 Elm Street Hartford, Ct 06106	<b>Etak</b>	Etak, Inc. 1430 O'Brien Drive Menlo Park, CA 94025
<b>DEI</b>	Digital Enhancements 820 16th Street, Suite 605 Denver, CO 80202-3206	<b>FEMA</b>	Federal Emergency Management Agency 26 Federal Plaza, Room 1338 New York, NY 10278
<b>DLG</b>	Digital line graphs (from USGS)	<b>GeoData</b>	maintained by USGS FGDC 590 National Center Reston, VA 22092
<b>DXF</b>	Data Exchange Format (a format for storing vector data in ASCII or binary files)		
<b>EDR</b>	Environmental Data Resources, Inc. 3630 Poast Road Southport CT 06490		

- GBF/DIME** Geographic Base Files and Dual Independent Map Encoding. Files produced by the U.S. Census Bureau containing codes and coordinates of line segments for most metropolitan areas.
- GDT** Geographic Data Technology, Inc.  
11 Lafayette Street  
Lebanon, NH 03766-1445
- GIRAS**
- HDP** Hydrosphere Data Products, Inc.  
1002 Walnut, Suite 200  
Boulder, CO 80302
- Landsat MSS** Landsat Multispectral Scanner, an instrument aboard Landsat family of satellites
- Landsat TM** Landsat Thematic Mapper, an instrument aboard family of satellites
- MSA** Metropolitan statistical area boundaries
- NCDC** National Climatic Data Center  
151 Dalton Avenue  
Asheville, NC 28801-5001
- NJ DEP** New Jersey Department of Environmental Protection  
GIS Section, 401 East State Street  
Trenton, NJ 08625
- NOAA** National Oceanic and Atmospheric Administration  
Federal Building 4, Room 2069  
4401 Suitland Road  
Suitland, MD 20283
- NYC DCP** New York City Department of City Planning  
22 Reade St.  
New York, NY 10007
- NYC PR** New York City Department of Parks and Recreation  
Natural Resources Group  
1234 Fifth Avenue  
New York, NY 10029  
Attn.: Christine Doolan, GIS Manager
- NYPL** New York Public Library, Map Library  
Fifth Avenue and 42nd Street  
New York, NY 10018
- NYS DEC** New York State Department of Environmental Conservation  
Information Management Group  
50 Wolf Road, Room 614  
ISD, Albany, NY 12233
- NYS DOT** New York State Department of Transportation  
Map Information Sales  
Building 4, Room 105  
Empire State Plaza  
Albany, NY 12232
- Roadnet** Roadnet Technologies, Inc.  
2311 York Road  
Timonium, MD 21093
- Rutgers** Rutgers University  
New Brunswick, NJ 08901
- RPA** Regional Plan Association  
61 Broadway, 11th Floor  
New York, NY 10006
- SCS** Soil Conservation Service, U.S. Department of Agriculture
- SPOT** SPOT Image Corp.  
1897 Preston White Drive  
Reston, VA 20191-4368
- TIFF** Tag Image Format
- TIGER** Topographically Integrated Geographic Encoding and Referencing, a digital database developed at the U.S. Census Bureau to support its mapping needs for the Decennial Census and other Bureau programs  
U.S. Census Bureau  
Washington, DC 20233
- UCML** University of Connecticut Map and Geographic Information Center (MAGIC)  
University of Connecticut  
Storrs, CT 06268
- UM** University of Massachusetts (from RPA)
- UCSB** Major libraries via University of California at Santa Barbara, Santa Barbara, CA.
- USDA SCS** U.S. Department of Agriculture Soil Conservation Service
- USGS-Eros** USGS-Eros Data Center  
United States Geological Service  
Earth Resources Observation System Data Center  
Sioux Falls, SD
- USGS NCIC** United States Geological Service  
National Cartographic Information Center  
12201 Sunrise Valley Drive  
Reston, VA 20192

**UTM** Universal Transverse Mercator

**Vista** Vista Environmental Information, Inc.  
5060 Shorham Place, Suite 300  
San Diego, CA 92122

**WC DP** Westchester County Department of Planning  
Map Services  
County Office Building  
White Plains, NY 10601

**ZedX** ZedX Inc.  
P.O. Box 404  
Boalsburg, PA 16827-0404



# NEW YORK CITY METRO AREA GIS-BASED INFORMATION<sup>1</sup>

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	State and county boundaries	1990	Arc/Info	a) Equifax b) Claritas			
	City boundaries		Arc/Info	Equifax			
	Geographic names		Arc/Info	ADC		USGS maps	–Names of geographic elements on USGS maps
	Postal areas		Arc/Info	a) Equifax b) ADI c) VISTA			–Zipcode boundaries
	Catskill Park boundary			NYS DEC	Public		–Ulster and Sullivan Counties
<b>LAND USE AND LAND COVER</b>							
	Land use and land cover		a) Vector and Raster in UTM	USGS NCIC	Inexpensive		a) 1:58,000 air photos
	Land cover	8/91		University of Massachusetts		Landsat TM	–NY Mid Hudson region –UMass is creating Klemas Classification System plus Vegetation Index
	Land use	9/91		University of Massachusetts		Landsat TM	–NY Mid Hudson region –UMass is creating Klemas Classification System plus Vegetation Index
<b>CENSUS DATA</b>							
	U.S. Census			Rutgers University		TIGER Files	–Tri-State region –Rectified to UTM by RPA/Rutgers
	Census tracts (TIGER)	a) 1970 > b) 1990	a) CD or Disk b) ASCII	a) Major libraries via UCSB b) GDT	a) \$50 per quad	a) DLG3 & GBF/ DIME files	a) Topologically but not geometrically accurate
	Census block boundaries	1990	Arc/Info	a) ADI b) VISTA			–Block groups are the highest resolution geographic area for the U.S.
	Census division	1990	Arc/Info	a) Claritas			–Minor civil division and

<sup>1</sup>See preceding pages for identification of abbreviations used.



THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
		1990					
	Metropolitan statistical area boundaries	a) 1996 b) 1990	Arc/Info	a) Claritas			–Metropolitan statistical areas boundaries
	Demographics	a) 1990, 1980 b) 1990 c) 1970, 1980 & 1990	Arc/Info	a) Claritas b) Equinox			a) Education, employment, housing, etc. b) Also provides the census geographic centroids
	Demographic trends	1996	Arc/Info	Claritas		Census data	Current year estimates and 5 yr. projections
<b>TOPOGRAPHY AND SOILS GEOLOGY</b>							
	Topographic contours			a) USGS NCIC b) ADC	a) \$150 per quad	a) GeoData Files b) USGS	a) Govt. Agency 7.5 and 15 min. quads. Scale 1:24,000
	Elevation		a) Digital Elevation Models/Raster b) Digital Terrain Models Raster	a) USGS NCIC b) Defense Mapping Agency	a) \$90 per quad then \$7 for each >5	a) U.S. GeoData Files	a) Govt. Agency 7.5 min quads. 30 m. res. b) Govt. Agency 1:250,000 at 30 m. res.
	Elevation		a) Digital Elevation Models Raster b) Digital Terrain Models Raster	a) ADC b) SPOT		a) USGS b) SPOT Satellite Imagery	a) 1:24,000 and 1:250,000 b) 60 km. x 60 km scene or quarter scene
	Soils		Arc/Info	EII		SCS Map Unit Information Record	a) Soil-5 data b) Pedon data c) Muir data – more specific in location than Soils-5 and Pedon
<b>HYDROGRAPHY</b>							
	Hydrographic features and units			NYS DEC	Public		–NY and NJ
	Hydrology monthly		Arc/Info	a) HDP b) EII		USGS Water store database	–Stream flow, reservoir storage, water temperature, pH, and total dissolved solids
	Water quality		Arc/Info	HDP		EPA Storet Database	–Includes parameters in bacteriology, dissolved oxygen, pesticides.

							metals, nitrogen, inorganics, etc.
Surface and ground water quality		Arc/Info	EII			USGS Water store data-base	
<b>AIR/CLIMATE</b>							
Climate monthly		Arc/Info	a) HDP b) EII			a) NOAA b) NCDC	–Precipitation, snowfall, evaporation, and maximum and minimum temperatures
Climate high resolution	1951-1990	Raster	ZedX			NOAA	–Climate data generated by an interpolation algorithm at a spatial resolution of 1 sq. km
Hourly precipitation			ZedX			NCDC first order stations	
Surface airways			ZedX			NCDC active first order stations	–Wind speed and direction, humidity, pressure, visibility, solar radiation and many more.
<b>TRANSPORTATION NETWORK AND MADELANDS</b>							
Streets and highways	1996	Arc/Info	a) ADC b) BLR c) Roadnet				a)Street data b)Interstate, US, State and County highways c)All major roads in the U.S., plus detailed streets in metro areas
Addressed streets	1996	Arc/Info	a) GDT b) Etak			TIGER files	a)Dynamp 500-4000 b)Etakmaps
Traffic volume		Arc/Info	BLR			TIGER files	–Average daily volumes
Contaminated sites		Arc/Info	a) Vista b) EDR			EPA	a)Potential Superfund sites b)Sites around commercial, industrial, or residential property
Leaking underground storage tanks		Arc/Info	Vista				–Sites with leaking underground tanks
Priority list of contaminated sites		Arc/Info	Vista			EPA and state agencies	–National and state priority lists for contaminated sites
Hazardous waste facilities		Arc/Info	Vista			EPA, RCRA Division	–Sites with facilities that are registered with the EPA
Toxic release	1987, 1988 and 1989	Arc/Info	Vista				–Facilities that handle chemicals in excess of 25,000 lbs.

	Solid waste sites		Arc/Info	Vista				-Sites with solid waste landfills
<b>VEGETATION AND WILDLIFE</b>								

<b>OTHER</b>							
	Digital line graphs		Arc/Info	a) ADC			-1:24,000 and 1:100,000 -Comprehensive layers that include geopolitical, hydrological transportation and features
	National street and boundary		Arc/Info	a) ADI			
<b>RAW DATA</b>							
	Landsat TM	1982-present; every 18 days	7-band 250 mb scene	EOSAT	\$3600 per scene; cheaper for old data	Landsat TM	-Private company 185 x 185 km with 30 x 30 resol.
	Landsat MSS	1972-present; every 18 days	4-band	EOSAT	\$600 per scene; cheaper for old data	Landsat MSS	-Private company 195 x 185 km with 79 x 56 resol.
	SPOT	1986-present		SPOT		SPOT	-Private company 60 x 60 km with 20/10 x 20/10 resol.
	AVHRR	1978-present		NOAA		AVHRR	-Govt. Agency 1,500 x 2,500 kms with 1 x 1 km resol.
	Landsat TM	11/94 08/88 06/91		Rutgers University		Landsat TM	-14/31-33 (11/94) 14/31-33 (8/88) Partial Cov. (06/91)

## CONNECTICUT (STATE WIDE) GIS-BASED INFORMATION

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	State boundaries		Arc/Info Polygon & Line	CT DEP	\$5/disk \$15 cartridge plus \$25 processing fee		-Scale 1:24,000 & 1:250,000
	County boundaries		Arc/Info Polygon & Line	CT DEP	\$5/disk \$15 cartridge plus \$25 processing fee		-Scale 1:24,000 & 1:250,000
	Municipal boundaries		Arc/Info Polygon & Line	a) CT DEP b) Univ. Mass/Conn.	1\$5/disk \$15 cartridge plus \$25	b)USGS DLG	a)Scale 1:24,000 & b)1:250,000

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
				State Plane	processing fee		
	Township boundaries		Arc/Info Line	a) NYS DEC b) UCML	Public		a) Polygon attribute data appears to include census information b) By County, 7.5 quad, and town levels
	Place names		Arc/Info Anno.	CT DEP	\$5/disk \$15 cartridge plus \$25 processing fee		–Towns and populated places –Scale 1:24,000
	Planning regions		Arc/Info Polygon & Line	CT DEP	\$5/disk \$15 cartridge plus \$25 processing fee		–Scale 1:24,000 & 1:250,000
<b>LAND USE AND COVER</b>							
	Land use & cover		a) Vector and Raster in UTM	a) USGS NCIC b) CT DEP c) UCML	a) Inexpensive b) \$5/disk \$15 cartridge plus \$25 processing fee		a) 1:58,000 b) Scale 1:24,000 c) At town level
	Land cover	1980 1988 1987	Arc-Info Polygon	Univ. Mass.-Conn. State Plane		Landsat TM & Landsat MSS	
	Land use	1980 1988 1987	Arc-Info Polygon	Univ. Mass.-Conn. State Plane		Landsat TM & Landsat MSS	
	Public lands		Arc-Info Polygon	Univ. Mass./SNRC			
	Landform names		Arc/Info Anno.	CT DEP	\$5/disk \$15 cartridge plus \$25 processing fee		–Hills, Islands, Points, Beaches. –Scale 1:24,000
<b>CENSUS DATA</b>							
	Census tract boundaries	a) 1970 >	a) CD or Disk	a) Major Libraries via UCSB b) UCML	a) \$50 per quad	a) DLG3 and GBF-/DIME files	a) Topologically but not geometrically accurate. b) State wide
	Census block boundaries			UCML			–State wide
	Census block group bound-			UCML			–State wide

aries						
Census place boundaries			UCML			–State wide
Population and housing	1970, 1980, 1990		UCML			–State wide

**TOPOGRAPHY, SOILS AND GEOLOGY**

	Topographic contours		a) DLG-3 Lat-Lon-Vector b) Arc/Info Polygon	a) USGS NCIC b) CT DEP	a) \$150 per quad b) \$5/disk \$15 cartridge plus \$25 processing fee	a) US GeoData Files b) USGS DEMs	a)Govt. Agency 7.5 and 15 min quads. 1:24,000 b)7.5 Minute Quad Bound with 4 or 16 tics/quad 10-foot contours
	Elevation		a) Digital Elevation models-Raster b) Digital Terrain models-Raster	a) USGS NCIC b) Defense Mapping Agency	a) \$90 per quad then \$7 each for >5	a) US GeoData Files	a)Govt. Agency 7/5 min. quads 30 m. resolution
	Digital orthophoto			UCML			-3.5 minute quads
	Surficial materials			UCML			-7.5 minute quads and town levels

**HYDROGRAPHY**

	Drainage basins		a) Arc/Info Polygon and Line	a) CT DEP b) UCML	a) \$5/disk; \$15 cartridge + \$25 processing fee		a)Major, Regional, Subregional and Local Basins Scale 1:24,000 b)7.5 minute quad and town levels
	Hydrography		A) Arc/Info Polygon and Line	a) CT DEP b) Univ. Mass./Conn. State plane c) UCML	a) \$5/disk; \$15 cartridge + \$25 processing fee	b) USGS DLG	a)Detailed versions 1 & 2. Scale 1:24,000 b)USGS DLG c)County, 7.5 minute quad, and town levels
	Hydrography subsets			UCML			-7.5 quad and town levels
	Public watersupply watersheds		Arc/Info Polygon & Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		-Scale 1:24,000
	Public water supply service areas		Arc/Info Polygon and Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		-Water, exclusive and sewer service areas. -Scale 1:24,000
	Public water supply reservoirs and wells		Arc/Info Polygon and Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		-Scale 1:24,000
	Aquifer protection areas		Arc/Info Polygon and Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		-Level B Aquifer Scale 1:24,000

**AIR/CLIMATE**

**TRANSPORTATION NETWORK & MADELANDS**

Roads and trails		Arc/Info Polygon & Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		–Scale 1:24,000
Roads		Arc/Info Line	a) Univ. Mass/Conn. State Plane b) UCML		a) USGS DLG	a)Local, State and Federal Scale 1:24,000 b)by county
Railroads		Arc/Info Line	a) CT DEP b) UCML	\$5/disk; \$15 cartridge + \$25 processing fee		a)Scale 1:24,000 b)by county
Airports		Arc/Info Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		–Scale 1:24,000
Power			UCML	\$5/disk; \$15 cartridge + \$25 processing fee		–By county
Physical features			UCML			–By county
Non-visible features			UCML			–Fences, right-of-ways, etc., by county
Sanitary wastewater		Arc/Info	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		–Sewer Service Areas and Sewage treatment plants –Scale 1:24,000
Leachate and wastewater drainage		Arc/Info Polygon & Line	CT DEP	\$5/disk; \$15 cartridge + \$25 processing fee		–Scale 1:50,000

**VEGETATION AND WILDLIFE**

**RAW DATA**

Landsat TM	a) 1982-present Every 18 days b) 8/91	a) 7 band 250 mb scene	a) EOSAT b) Univ. Mass.	a) \$3600 a scene; cheaper for old data	Landsat TM	–Private Company 185 x 185 km. with 30 x 30 m. resol.
Landsat MSS	1972-present. Every 18 days	4-band	EOSAT	\$600 per scene; cheaper for old data	Landsat MSS	–Private Company 185 x 185 km with 79 x 56 m. resol.
SPOT	1986-present		SPOT		SPOT	–Private Company 60 x 60 km. with 20/20 x 20/20 resol.
AVHRR	1978-present		NOAA		AVHRR	–Govt. Agency 1,500 x 2,500 kms with 1 x 1 km. resol.



## NEW JERSEY (STATE WIDE) GIS-BASED AVAILABLE INFORMATION

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	Municipal boundaries		b) ARC/Info	a) NYS DEC b) NJ DEP	a) Public b) Public	b) 1:24,000 topographic maps	a) Attribute file includes census, county name and acreage data b) 1:24,000
	County boundaries		ARC/Info	NJ DEP	Public	1:24,000 topographic maps	— 1:24,000
	Geonames		ARC/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 point locations with labels
	Historic places		ARC/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Sites less than 10 acres in size in the National Register of Historic Places
	Open space		ARC/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Federal and state open space
	Hackensack Meadowlands District		ARC/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Outline of boundary
	Pineland protection boundaries		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Aggregated into categories
<b>LAND USE AND LANDCOVER</b>							
	Land use and landcover		Vector and Raster in UTM	USGS NCIC	Cheap	a: 1:58,000 air photos	
	Public beaches		ARC/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Public beach point locations
<b>CENSUS</b>							
	Census tract boundaries	>1970	CD or Disk	Major libraries via UCSB	\$50 per quad	DLG3 and GBF/DIME files	—Topologically but not geometrically accurate
	TIGER			NJ State Data Center			—County line coverages containing roads, hydrography, railroads, utilities
<b>TOPOGRAPHY, SOILS AND GEOLOGY</b>							
	Topographic contours		DGL3 Lat-Lon Vector	USGS NCIC	\$150 per quad	US GeoData files	—Govt. Agency 7.5 and 15 min quads. Scale 1:24,000

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
	Elevation		a) Digital elevation models-Raster b) Digital terrain models-Raster	a) USGS b) Defense Mapping Agency	a) \$90 per quad; \$7 each for >5	a) US GeoData files	a) Govt. Agency 7.5 min quads. at 30 m. resolution b) Govt. Agency scale 1:250,000 at 30 m. resolution
	Integrated terrain Unit		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Soils, landuse/landcover, geology and flood prone areas
	Geology		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:63,360 Statewide map of atlas sheet geology
<b>HYDROLOGY</b>							
	Hydrology		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Waterfeatures for entire state by county
	Surface water and supply intakes		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Public surface water supply intakes
	Water supply reservoirs		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Reservoirs and wellfields > 50 acres
	Freshwater wetlands		Arc/Info	NJ DEP	Public	1:12,000 quarter-quads	—Delineations as per the Freshwater Wetlands Act
	Upper wetlands limit line		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Arthur Kill/Kill van Kull area
	Tidelines		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Riparian claims line for all flood lands
	High hazard line		Arc/Info	NJ DEP	Public	FEMA maps for the Atlantic Coastline	—1:24,000 —Recompiled high hazard line
	Historic shorelines	1836-1997	Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000
	Shoreline classes		Arc/Info	NJ DEP	Public	1:24,000 USGS quads b) 1:24,000 USGS photoquads	a) Classified as beach, marsh, bulkheaded, etc. b) Statewide map of coast/shoreline
	Shore structures	1986	Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Jetties, groins, and revetments

	Barnegat Bay watershed water quality	a) 1976 & 1980 b) 1980 & 1987	Arc/Info	NJ DEP	Public	1:24,000 USGS quads	a) Mean total coliform b) Fecal coliform geometric mean concentrations
	Water quality monitoring sites		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —location of surface water quality monitoring sites
<b>AIR/CLIMATE</b>							
	Precipitation/temperature		Arc/Info	NJ DEP	Public	1:24,000 quads	—1:24,000 Coded by municipality boundaries
<b>TRANSPORTATION NETWORK AND MADELANDS</b>							
	Point sources		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 NJPDES permitted facilities
	Buildings and piers		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Large buildings and piers in the Arthur Kill/Kill van Kull areas
	Boat ramps and marinas		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Barnegat Bay watershed area
	Dredge areas		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Barnegat Bay watershed areas where dredging has occurred
	Dredge disposal areas		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Barnegat Bay watershed areas where disposal has occurred
	Solid waste		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Landfill locations
	Hazardous waste		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 Site locations from the status report
<b>VEGETATION AND WILDLIFE</b>							
	White Cedar stands		Arc/Info. Nad83	NJ DEP	Public	1:24,000 Topographic maps	—1:24,000 statewide
	Barnegat Bay watershed nesting birds		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Colonial nesting birds by species
	Barnegat Bay watershed waterfowl		Arc/Info	NJ DEP	Public	1:24,000 USGS quads	—1:24,000 —Migratory waterfowl staging areas
<b>RAW DATA</b>							
	Landsat TM	1982-present. Every 18 days	7-band 250 mb scene	EOSAT	\$3600 per scene; cheaper for	Landsat TM	—Private Company 185 x 185 km with 30 x 30 resol.

					old data		
	Landsat MSS	1972-present. Every 18 days	4-band	EOSAT	\$600 per scene; cheaper for old data	Landsat MSS	—Private Company 185 x 185 km with 79 x 56 m. resol.
	SPOT	1986-present		SPOT		SPOT	—Private Company 60 x 60 km with 20/10 x 20/10 m. resol.
	AVHRR	1978-present		NOAA		AVHRR	—Govt. Agency 1,500 x 2,500 kms with 1 x 1 km. resol.
	Historic airphotos		Arc/Info	NJ DEP			—Tidelines elements NJ DEP
	Quarterquads		Arc/Info	NJ DEP	Public		—1:12,000 —State plane coordinate templates and tics for data entry

## NEW YORK (STATE WIDE) GIS-BASED AVAILABLE INFORMATION

THEMES	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	Feature names		Arc/Info and DGN	NYS DOT	Public	NYS DOT 1:24,000 Scale quadrangles, officila listings, Rand McNally Rand Data file, etc.	—1:75,000 or 1:100,000
	All civil boundaries		Arc/Info and DGN	NYS DOT	Public	NYS DOT 1:24,000 scale quadranges	—1:24,000
	Municipal boundaries			NYS DEC	Public		—NYS municipal boundaries and statewide data
	County boundaries			NYS DEC	Public	Dissolved from Equalization & Assessment	—NYS County boundaries with county name annotation
	NYS-DEC regional boundaries			NYS DEC	Public		—Includes region number annotation
	NYS-DEC Wildlife and Nat. Res. Management			NYS DEC	Public		—Zones delineated with respect to land form, topography, bedrock, soil productivity, climate and

	boundaries						forest type.
	State recreational land		Arc/Info and DGN	NYS DOT	Public	NYS DOT 1:24,000 scale quadrangles	—1:24,000
	State facilities		Arc/Info and DGN	NYS DOT	Public	NYS DOT 1:24,000 scale quadrangles	—1:24,000
	County and municipal parks		Arc/Info and DGN	NYS DOT	Public	NYS DOT 1:24,000 scale quadrangles	—1:24,000
<b>LAND USE AND LANDCOVER</b>							
	Land use & landcover		Vector and Raster in UTM	USGS NCIC	Cheap	a)1:58,000 air photos	
	Land use	ca. 1975-1982		NYS DEC	Public		—Scale 1:250,000
	Land cover	ca. 1975-1982		NYS DEC	Public		—Scale 1:250,000 GIRAS data
<b>CENSUS</b>							
	Census tracts (TIGER)	>1970	CD or Disk	Major libraries via UCSB	\$50 per quad	DLG3 and GBF/DIME files	—Topologically but not geometrically accurate
	Population size and density	1990	a) Atlas GIS	a) NYPL b) NYS DEC	Public	US Census Bureau 1990 Census of Population and Housing	a) By county b) Population and densities of cities and towns and their borders
<b>TOPOGRAPHY, SOILS AND GEOLOGY</b>							
	Topographic contours		DGL3 Lat-Lon vector	USGS NCIC	\$150 per quad	US GeoData Files	—Govt. Agency 7.5 and 15 min quads. Scale 1:24,000
	Elevation		Digital elevation models Raster	a) USGS NCIC b) NYS DEC	a) \$90 per quad then \$7 for >5 b) Public	US GeoData Files	a) Govt. Agency 7.5 quads and 30 m. resolution b) Approx. 50% of NYS. Scales 1:24,000 and 1:250,000
	Elevation		Digital terrain models Raster	Defense Mapping Agency			—Govt. Agency Scale 1:250,000 at 30 m. resolution
	Planimetric & Topographic	1990-	Raster in TIFF	NYS DOT	\$75 (1) or \$50 >2		—1:24,000
	Soil type index			NYS DEC	Public		—Index coverage to 1:250,000 soils.
	Soil types			NYS DEC	Public	Apparently derived by	—Soils boundaries and names for NYS

						generalizing USGS 1:250,000 DLG coverages and attributing with NYS ID numbers and soil names	
	Surficial geology			NYS DEC	Public		—Unconsolidated materials, includes material and shade symbol
	Bedrock geology			NYS DEC	Public		—Bedrock data including material and shade codes
<b>HYDROLOGY</b>							
	Hydrology			NYS DEC	Public		—1:100,000 DLG Hydro
	Primary aquifer areas			NYS DEC	Public		—New York State excluding NYC and Long Island with attributes for number, location, and status
	USGS stream gaging stations			NYS DEC	Public		
	Hydrography		Arc/Info and DGN	NYS DOT	\$300/Co \$2,000/State	DLG files from the USGS	—1:100,000 —All streams >1 mile; all water bodies and swamps >500 feet in the shortest dimension; waterfalls, dams, canals, and aqueducts —1:250,000 statewide
<b>AIR/CLIMATE</b>							
	Air monitoring stations			NYS DEC	Public		—Attributes include station name
<b>TRANSPORTATION NETWORK AND MADELANDS</b>							
	Roads			NYS DEC	Public		—1:100,000 DLG Roads
	Roads		Arc/Info and DGN	NYS DOT	\$600/County \$4,000/State	NYS DOT Centralized local accident surveillance system	—1:100,000 DLG Roads —1:250,000 (statewide)
	Highway corridor						—1:200,000 Available for >1986 —Roads; railroads; airports; transmission lines.

							buildings; hydrography and contours (5-ft.)
	Railroads			NYS DEC	Public		—1:100,000 DLG Railroads
	Misc. transportation			NYS DEC	Public		—1:100,000 DLG Misc. Transportation (e.g., airports)
	Misc. transportation		Arc/Info and DGN	NYS DOT	\$300 Co \$1000 State	DLG files from the USGS	—1:100,000 all railroads, public airports, power transmission lines, telephone lines, major pipelines, and boat launch sites —1:250,000
	400 largest polluters			NYS DEC	Public		—Facility data for 400 largest pollution generators in NYS
	Point data with USGS names by county			NYS DEC	Public		—Point data with USGS names by county
	Inactive hazardous sites			NYS DEC	Public		—Redefined items contain site information
	Location of mines			NYS DEC	Public		—Locations of mines regulated under the Mined Land Reclamation Program
	Type of mining wells		Arc/Info	NYS DEC	Public		—Oil, gas and solution mining well data including type and contact information
<b>VEGETATION AND WILDLIFE</b>							
<b>RAW DATA</b>							
	Landsat TM	1985-1995		EOSAT		Landsat TM	
	Landsat TM	8/91		NY DEC		Landsat TM	—Potential access via USFWS-NYSDEC-Cornell
	Aerial photography			USGS Eros			

## NEW YORK CITY GIS-BASED AVAILABLE INFORMATION

THEME	TYPE	DATES	FORMAT	AVAILABL E FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	Admin. & political districts	1994	DXF	NYC DCP	\$50/disk to Public; \$10/disk to Govt.	NYC Board of Elections	—Election/Legislative district outlines and numbers for communities and boroughs
	Taxes		DXF	NYC DCP	\$50/disk to Public; \$10/disk to Govt.		—Street names, tax block outlines, and annotation points with block numbers by borough.
	Locations of all park-owned properties			NYC PR			
<b>LAND USE AND COVER</b>							
	Landuse all major parks			NYC PR			—Within 2,000 feet of all major parks
	Landuse of Pelham Bay Park	1960		NYC PR			—Pelham Bay Park is in the Bronx
	Landuse of Inwood Hill Park	1940 1960 1988		NYC PR			
	Base map of major parks						—Bronx: Pelham Bay & Van Cortland Parks; Manhattan: Inwood Hill & Central Park; Staten Island: Greenbelt & Wolfe's Park; Queens: Alley Pond & Forest Park parks.
<b>CENSUS DATA</b>							
	Census tracts	1990?	DXF	NYC DCP	\$50/disk to Public; \$10/disk to Govt.		—Census tracts outlines and numbers for communities and boroughs
<b>TOPOGRAPHY, SOILS AND GEOLOGY</b>							
	Elevation, slope and aspect			NYC PR			—Bronx: Pelham Bay and Van Cortland Parks; Manhattan: Inwood and Central Park; Staten Island: Wolfe's Park; Queens: Alley Pond and Forest Park.



THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
	Soils			NYC PR			—Wolfe's Pond Park
<b>HYDROGRAPHY</b>							
	Freshwater wetlands			NYC PR		NYS DEC mapped	—Bronx, Brooklyn, and Staten Island
	Streams and water						—Staten Island's Greenbelt
<b>AIR/CLIMATE</b>							
<b>TRANSPORTATION NETWORK AND MADELANDS</b>							
	Streets	1994	MapInfo Interchange	NYC DCP	\$350 to Public; \$70 to Govt.		—Single line representation of City's streets with address ranges
	Trails within local parks			NYC PR			—Bronx: Pelham Bay and Van Cortland Parks; Staten Island, Greenbelt; Queens: Alley Pond Park
<b>VEGETATION AND WILDLIFE</b>							
	Vegetation cover			NYC PR			—City wide
	Detailed vegetation for selected parks			NYC PR			—Bronx: Pelham Bay and Van Cortland Parks; Manhattan: Inwood Hill and Central Parks; Brooklyn: Marine Park; Staten Island, Arthur Kill, Long Pond & Wolfe's Park; Queens: Alley Pond and Forest Park
	Rare plants			NYC PR			—Staten Island: Long Pond and Greenbelt
	Breeding bird census	1987-1993		NYC PR			—Bronx: Pelham Bay Park; Manhattan: Inwood Park (92 and 94).
	Fire	1987-1995		NYC PR			—Bronx: Van Cortland Park; Manhattan: Inwood Hill Park
<b>RAW DATA</b>							
	Landsat TM	1982-present. Every 18 days	7-band 250 mb scene	EOSAT	\$3600 per scene; cheaper for old data	Landsat TM	—Private company 185 x 185 km with 30 x 30 m. resol.
	Landsat MSS	1972-present. Every 18 days	4-band	EOSAT	\$600 per scene; cheaper for old data	Landsat MSS	—Private company 185 x 185 km with 79 x 56 resol.

<b>THEME</b>	<b>TYPE</b>	<b>DATES</b>	<b>FORMAT</b>	<b>AVAILABL E FROM</b>	<b>APPROX. COST</b>	<b>DERIVED FROM</b>	<b>NOTES</b>
	SPOT	1986- present		SPOT		SPOT	—Private company 60 x 60 km with 20/10 x 20/10 m. resol.
	AVHRR	1978- present		NOAA		AVHRR	—Govt. Agency 1,500 x 2,500 kms with 1 x 1 km. resol.

## WESTCHESTER COUNTY GIS-BASED AVAILABLE INFORMATION

THEME	TYPE	DATES	FORMAT	AVAILABLE FROM	APPROX. COST	DERIVED FROM	NOTES
<b>GEOPOLITICAL</b>							
	Municipal boundaries		Polygon	WC DP			—Base scale 1:24,000
	Municipal election districts		Polygon	WC DP			—Base scale 1:100,000
	County legislative districts		Polygon	WC DP			—Base scale 1:100,000
	NYS Assembly & Senate districts		Polygon	WC DP			—Base scale 1:100,000
	US Congressional districts		Polygon	WC DP			—Base scale 1:100,000
	Zip Code boundaries		Polygon	WC DP			—Base scale 1:100,000
	Public and private districts		Polygon	WC DP			—Base scale 1:100,000
	Sewer districts		Polygon	WC DP			—Base scale 1:100,000
<b>LANDUSE AND COVER</b>							
	Generalized land use	1988	Polygon	WC DP			—Base scale 1:24,000
	Zoning districts		Polygon	WC DP			—Base scale 1:24,000
	Major open spaces	1994	Polygon	WC DP			—Base scale 1:24,000
	Pattern's open space overlay		Polygon	WC DP			—Base scale 1:24,000
	County parks and parkway lands		Polygon	WC DP			—Base scale 1:24,000
	State parks and parkway lands		Polygon	WC DP			—Base scale 1:24,000
	Pattern's land use intensity		Polygon	WC DP			—Base scale 1:24,000
	Coastal zone management areas		Polygon	WC DP			—Base scale 1:24,000

<b>CENSUS DATA</b>							
	Population distribution		Point	WC DP			—Base Scale 1:24,000
	TIGER		Line	WC DP			—Base scale 1:100,000
	Track boundaries		Polygon	WC DP			—Base scale 1:100,000
	Block group boundaries		Polygon	WC DP			—Base scale 1:100,000
	Block boundaries		Polygon	WC DP			—Base scale 1:100,000
<b>TOPOGRAPHY, SOILS AND GEOLOGY</b>							
	Slope		Polygon	WC DP			—Base scale 1:24,000 15-25% and >25% (over 1 acre)
	Soil survey		Polygon	WC DP			—Base scale 1:100,000
	Surface geology		Polygon	WC DP			
	Bedrock geology		Polygon	WC DP			
<b>HYDROGRAPHY</b>							
	Major and minor drainage divides		Polygon	WC DP			—Base scale 1:24,000
	Lakes, reservoirs and ponds		Polygon	WC DP			—Base scale 1:24,000
	Streams		Line	WC DP			—Base scale 1:24,000
	Wetlands	1982	Polygon	WC DP			—Base scale 1:24,000
	Wetlands		Polygon	WC DP			—Base scale 1:24,000
	Freshwater wetlands		polygon	WC DP			—Base scale 1:24,000
	Hydric soil wetlands		Polygon	WC DP			—Base scale 1:24,000
	USGS water monitoring sites		Point	WC DP			—Base scale 1:24,000
<b>AIR/CLIMATE</b>							
<b>TRANSPORTATION NETWORK AND MADELANDS</b>							
	All roads in		Line	WC DP			—Base scale 1:24,000

	county						
	Major roads		Line	WC DP			—Base scale 1:24,000
	Rail lines		Line	WC DP			—Base scale 1:24,000
	Rail stations		Point	WC DP			—Base scale 1:24,000
	County bridges		Point	WC DP			—Base scale 1:24,000
	Bus routes		Line	WC DP			—Base scale 1:100,000
	Bus stops		Point	WC DP			—Base scale 1:100,000
<b>WILDLIFE AND VEGETATION</b>							
<b>RAW DATA</b>							



## APPENDIX B: OTHER SOURCES OF INFORMATION

Listed below are various institutions and organizations possessing ecological and natural resource information on the NYCMA. Reference verification locations are included, in which case an abbreviation is given (in parentheses) as it appears in the reference list. Also are listed area universities and colleges that may have natural resource information for the NYCMA, particularly in the form of thesis publications and historic documents.

### Government Organizations

**Connecticut Department of Environmental Protection,**  
State Office Building, Hartford, CT 06115

**Gateway National Recreation Area,** National Park Service, HQ Building #69, Floyd Bennett Field, Brooklyn, NY 11234

**New Jersey Department of Environmental Protection,**  
P.O. Box 1390, Trenton, NJ 08625

**New Jersey Division of Parks and Forestry**  
501 E. State Street, CN 404  
Trenton, NJ 08625

**New York City Department of Environmental Protection,** 2358 Municipal Building, New York, NY, 10007

*A certified index of Environmental Impact Statements (NEPA and SEQ) written for projects in New York City is available. Many of the assessments pertain to construction projects in developed areas; however, natural resource information is available in most of them, e.g., air quality reports and other pollution information, which can be useful to planners and scientists. Some reports contain species lists and soil information.*

**New York City Department of Parks and Recreation (DPR),** The Arsenal, Central Park, New York, 10021.

*You will need to acquire a permit from DPR if you are interested in doing research or conducting a class of study in any of New York City's 27,000 acres of parkland. Contact the Natural Resources Group (see below) for information regarding a permit. Additional information regarding these properties is available from the following places:*

▪Capital Projects, Capital Projects, Olmsted Center, Flushing, NY 11368

*Various reports are available outlining park master and restoration plans. Some of these plans have valuable natural resource information and are included in the bibliography. The capital project references should not be considered an exhaustive list, since only major projects are included.*

▪ Map File, Olmsted Center, Flushing, NY 11368

*DPR has an extensive collection of maps and drawings of park properties, some dating back to the turn of the century. Of particular interest are the Natural Resource and Land Use maps produced by NRG and CLEARS in 1984. The survey located significant natural areas throughout the city. Most are available to the public for reproduction costs.*

▪Natural Resources Group (NRG), Rm. 249, 1234 Fifth Ave., Central Park, New York, 10029

*The DPR-NRG has been conducting an inventory and assessment of various major parks for the past five years. Management plans have been written for each park and are included in the bibliography; however, other types of information are available, such as water quality data and soil test results for certain parks. A recently published guide to the various environmental groups in New York City is available upon request.*

▪Park Administrators

*Park administrators have been appointed to several of the City's major parks and are good sources of information for a particular park. Most have trained horticultural or natural resources management staff who know their park well.*

Central Park Conservancy and Administrator's Office, 830 Fifth Ave., Central Park, New York 10021

Flushing Meadow Park Administrator's Office, The Olmsted Center, Flushing, NY 11368

Greenbelt Administrator's Office, 300 Altamont St., Staten Island, NY 10306

Van Cortlandt and Pelham Bay Parks Administrator's Office, 1 Bronx River Parkway, Bronx, New York 10462-2869

Prospect Park Administrator's Office, 95 Prospect Park West, Brooklyn, NY 11215

▪Park Historian, 830 Fifth Ave., The Arsenal, Central Park, NY 10021

*DPR has a fulltime Park Historian on staff who can answer many historical questions. Historic photographs,*

documents and other artifacts are on file.

- Urban Park Rangers, 1234 Fifth Ave., Rm. 205, NY 10029

*The most valuable information available from the Park Rangers comes from their experience gained in the field. Many hours are spent walking through park natural areas and one can acquire invaluable information regarding park use, wildlife sightings and plant species location from them.*

**New York City Department of Planning (DCP)**, 22 Reade St., New York, NY 10007

*The DCP has various map sets of the City available to the public. Available for purchase are sectional base maps (1 inch = 800 feet), sectional land use maps (1 inch = 600 feet), and smaller scale sectional base maps (1 inch = 1000 feet) among others. A brochure with ordering information is available from the above address.*

**New York Metropolitan Transportation Council (NYMTC)**, One World Trade Center, Suite 82 E., NY 10048

*A digest of informational sources for aerial photography and maps of the New York Metropolitan Area can be obtained. They also have mylar screen reproductions of aerial photographs at scales of 1:4800 and 1:24000 for the Tri-State Region available at a reasonable cost.*

**New York State Department of Environmental Conservation (DEC)**

- Division of Marine Resources, Building 40, SUNY, Stony Brook, New York 11794
- Region 2 Office, 47-40 21st St., Long Island City, NY 11101

*Urban forestry office for the NYCMA and wildlife management information.*

- Regulatory Affairs, 47-40 21st. St., Long Island City, NY 11101

*The Regulatory Affairs Unit is responsible for regulating the State wetland laws. Here you can find an index map of New York City for both fresh and salt water wetlands. Once the map needed is determined, it may be purchased from a private distributor.*

*The DEC has recently compiled a Fish and Wildlife Habitat Information Directory. The Directory can be obtained from the Bureau of Environmental Protection, Habitat Inventory Unit, Room 532, 50 Wolf Rd., Albany, NY 12233. The Directory has been organized in two sections:*

- Phase I- Habitat Information Sources Within the DEC
- For each source listed, general information about the data*

*base or information is reported, including which agency to contact, the format of the information and a description, etc. Some of the topics covered include coastal zone management, environmental monitoring, hazardous waste disposal, significant habitats, urban wildlife, etc. Data is available for New York City in many of the subjects included in the Directory.*

- Phase II- Information Sets Held by Organizations other than the DEC

*The sources in Phase II are organized the same way as in Phase I. This list has not been completed. Includes mostly Federal Programs.*

**New York State Department of Transportation, Map Information Unit, State Campus, Bldg. 4, Rm. 105, Albany, NY 12232**

*Also available from the State DOT are various planimetric and topographic maps of the NYCMA. The maps include U.S.G.S. topographic series maps and maps produced by the DOT. Write the Map Information Unit for more information. The State DOT publishes an index of available aerial photographic imagery for New York State which costs around \$25.00. There are many aerial photographs available for the New York City Metropolitan Area.*

**New York State Museum**, 31 Washington Ave., Albany, New York

*The New York Heritage Program has developed an extensive database on rare and endangered species for the State, many of which have been located in the New York City Metropolitan Area.*

**Soil Conservation Service**, United States Department of Agriculture, Greenbelt Park, 200 Nevada Ave., Staten Island, NY 10306

**United States National Archives**, Cartographic and Architectural Branch, Washington D.C. 20408

*The National Archives has historic registered aerial photographs available for the New York City area dating back to 1941. Oblique photographs are also available.*

## Libraries and Museums

**American Museum of Natural History**, Central Park West at 79th St., NY 10024

*Extensive collection of monographs, periodicals, in animal sciences, geology, and natural history. Open to the public by appointment only.*



**Bronx Historical Society**, 3309 Bainbridge Ave., Bronx, NY 10467

*Historical information pertaining to the Bronx including old planning documents, maps, and manuscripts.*

**Brooklyn Botanic Garden**, 1000 Washington Ave., Brooklyn, NY 11221

*Botany; collections can be reviewed by appointment only.*

**Brooklyn Historical Society** (formerly Long Island Historical Society), 128 Pierrepont St., Brooklyn, NY 11201

*Maps, historic photos, documents, Brooklyn and Long Island history; use restricted to graduate students and qualified researchers.*

**Brooklyn Public Library**, Grand Army Plaza, Brooklyn, NY 11238

*Brooklyn and Long Island history collection.*

**City University of New York (CUNY)**

**Hunter College**, New York, NY 10021

*Geography, remote sensing, cartography,*

**Herbert H. Lehman College**, Bronx, NY 10468

*Geology, Bronx history*

**Queens College**, Queens, NY 11367

*Botany, marine science*

**Columbia University**, New York, NY 10027

*City and regional planning*

**Cornell University**, Ithaca, NY 14850.

*Environmental science, ornithology, expertise in most areas of the biological sciences and agriculture; Cornell Center for the Environment.*

**Fordham University, Bronx, NY 10458**

*Freshwater ecology*

**Institute of Ecosystem Studies**, Mary Flagler Cary Arboretum, Box AB, Millbrook, NY 12545

*The Institute maintains an ecological library at the Arboretum. Primarily contains limnological, botanical and general ecology materials.*

**New York Academy of Sciences**, 2 East 63rd St., New York, NY 10021

**New York Public Library**, 5th Ave. and 42nd St., New York, NY 10018

*Historic information including old planning documents, maps, and manuscripts; official documents, New York City DPR Annual Reports.*

**New York Botanical Garden**, The New York Botanical Garden, Bronx, NY 10458

*Has one of the most extensive botanical library collections in the world. Most of the vegetation references listed in the bibliography can be located here. Open to the public.*

**New York University, New York, NY 10012**

*Paleoecology*

**Princeton University**, Princeton, NJ 08544

*Theoretical ecology*

**Rockefeller University**, 1230 York Avenue, New York, NY 10021-6399

*Ethology and ornithology*

**Rutgers University**, New Brunswick, NJ 08901

*Ecology, Center for Spatial Analysis*

**St. Johns University, Jamaica, NY 11439**

*Environmental science*

**Staten Island Institute of Arts and Sciences (SIAS)**, 75 Stuyvesant Pl., Staten Island, NY 10301

*The SIAS has a small library with an excellent Staten Island collection. A checklist of publications and reprints is available. The SIAS is in the process of compiling an index for the Institute's Proceedings. The library can be visited by appointment only.*

**University of Connecticut**, Map and Geographic Information Center, Storrs, CT 06269

*Ecology*

**Yale University**, New Haven, CT 06520

*Terrestrial ecology, Center for Earth Observation*

## Non-governmental Organizations

**Alley Pond Environmental Center**, 228-06 Northern Blvd., Douglaston, NY 11363

**Belvedere Castle**, Central Park Conservancy, 830 Fifth Ave., Central Park, NY 10021

**Cornell Laboratory for Environmental Applications of Remote Sensing (CLEARS)**, 434 Hollister Hall, Cornell University, Ithaca, NY 14853

*CLEARS has an extensive collection of remote sensing imagery for New York State, including New York City.*

*Photographic imagery can be reviewed by appointment only.*

*Also available from CLEARS are the New York State Land Use and Natural Resource (LUNR) maps produced in 1968. The LUNR survey used USGS 7.4 minute topographic series maps as base maps.*

**High Rock Park Conservation Center**, 200 Nevada Ave., Staten Island, NY 10306

**Inwood Hill Park Alliance**, Inwood Hill Park, 624 W 207th St., NY 10034

**Long Island Pine Barrens Society**, 315 E. Main St., Riverhead, NY 11901

**The Nature Conservancy**, New York Heritage Program, P.O. Box 72, Cold Spring Harbor, New York 11724

**The Nature Conservancy**, 200 Pottersville Road, Chester, NJ 07930

**The Nature Conservancy**, 55 High Street, Middletown, CT 06457

**Natural Resource Management Unit**, National Park Service, Gateway National Recreation Area, Brooklyn, NY

*The Natural Resources Management Unit has a small library collection that includes sources of information for Jamaica Bay. Also available is a bibliography of scientific studies which can be obtained from the National Park Service Cooperative Research Unit, Center for Coastal and Environmental Studies, Rutgers University, New Brunswick, NJ.*

**Neighborhood Open-Space Coalition**, 72 Reed St., New York, NY 10007

*NOSC is a coalition of open-space community groups in New York City and is a good source of information regarding community gardening, open-space studies and related topics.*

**New Jersey Conservation Foundation**, 300 Mendham Road, Morristown, NJ 07960

**New Jersey Pinelands Commission**, P.O. Box 7, New Lisbon, NJ 08064

**Prospect Park Environmental Center**, Prospect Park, Brooklyn, NY 11215

**Regional Plan Association**, 61 Broadway, 11th fl., New York, NY 10006-2701

*RPA has been in existence since the turn of the century and*

*is responsible for developing two regional plans for the New York City Metropolitan Area. A list of publications is available for purchase, most dealing with open space, housing and transportation.*

*RPA conducted an open space inventory for New York City using DPR's Natural Resource Inventory maps (see DPR Map File). The open space maps are only available in color slide form.*

**Wave Hill Environmental Center**, 675 W. 252, Riverdale, NY 10471

## Major Journals and Newsletters

Brooklyn Botanic Garden Leaflets and Brooklyn Botanic Garden Record (botanical)

Bulletin of the Torrey Botanical Club and Torreyia (botanical)

The Conservationist (management and natural history)

Journal of The New York Botanical Garden (botanical)

Kingbird (ornithological)

Long Island Naturalist (natural history)

The Nature Conservancy, Lower Hudson Chapter, newsletter

Proceedings of the Linnaean Society and Linnaean Newsletter (ornithological)

Staten Island Institute of Arts and Sciences (botanical, zoological and natural history)

Proceedings of the Natural Science Association of Staten Island

Proceedings of the Staten Island Association of Arts and Sciences

Proceedings of the Staten Island Institute of Arts and Sciences