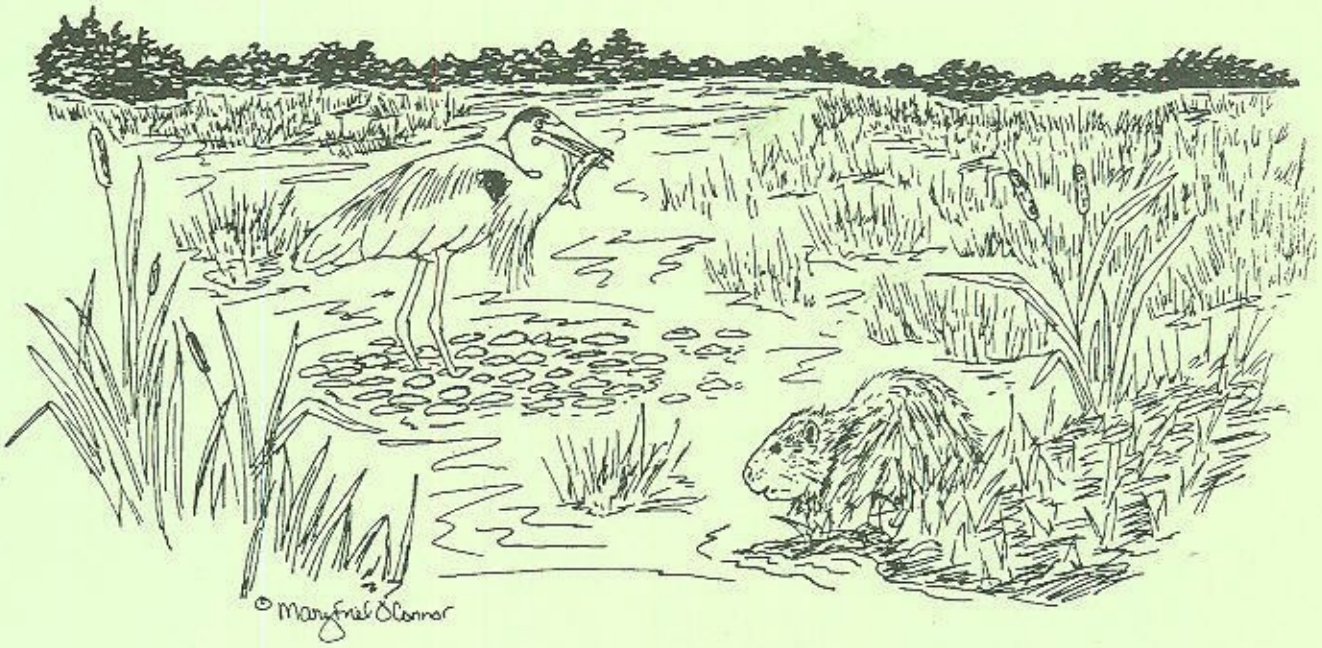
REGIONAL WETLANDS CONCEPT PLAN

EMERGENCY WETLANDS RESOURCES ACT

NORTHEAST REGION

OCTOBER 1990



U.S. Fish and Wildlife Service • Region 5
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United States Department of the Interior

FISH AND WILDLIFE SERVICE
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OCT 31 1990

Dear Reader:

We are providing you with this copy of the U.S. Fish and Wildlife Service's Regional Wetlands Concept Plan because of your interest in wetlands. Our plan identifies nearly 850 wetland sites in the northeast United States which warrant protection because of their value, scarcity, and vulnerability. Obviously, the U.S. Fish and Wildlife Service cannot protect these wetlands on its own. We need your help to ensure the continued health of these wetlands for future generations. Only the combined efforts of Federal and state agencies, local governments, private organizations, industry, and individual citizens will make the long-term protection of these valuable resources a reality.

I urge you to take steps to protect one or more of the wetlands listed in this plan. Please contact us directly if you need more information about any of the wetlands in this plan or if you want to know more about the various ways to protect wetlands. (Phone numbers and addresses for the Service's northeast regional office and our field offices are listed in Appendix E.) If your interests and efforts lead you to protecting some of these wetlands, please let us know. We'd like to congratulate you for your success!

Let's work together to help protect our Nation's wetlands. We look forward to you joining us in that challenge.

Sincerely yours,

Ronald E. Lambertson

Regional Director

Enclosure

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EXECUTIVE SUMMARY

The United States Congress enacted the Emergency Wetlands Resources Act of 1986 (Public Law 99-645) to promote the conservation of our Nation's wetlands. The Act directed the Department of the Interior to develop a National Wetlands Priority Conservation Plan (National Plan) that identifies the location and types of wetlands that should receive priority attention for acquisition by Federal and State agencies using Land and Water Conservation Fund appropriations. The National Plan, prepared for the Secretary of the Interior by the U.S. Fish and Wildlife Service, provides guidance to focus acquisition efforts on the more important, scarce, and vulnerable wetlands in the Nation.

This Regional Wetlands Concept Plan (Regional Plan) complements the National Plan by providing more specific information about the wetland resources of the northeastern and mid-Atlantic United States. It identifies nearly 850 wetland sites and complexes that warrant consideration for acquisition within the 13 States (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia) that comprise Region 5, the northeastern region of the U.S. Fish and Wildlife Service (Service). Unless otherwise noted, wetland sites identified in Appendix A have met the Wetlands Assessment Threshold Criteria provided in the National Plan and in Appendix D of this Regional Plan. To the maximum extent possible, the Regional Plan also complements the wetlands addenda of State Comprehensive Outdoor Recreation Plans (SCORPs), prepared by each State in compliance with the Act.

The Regional Plan further describes wetland functions and values and identifies wetland loss and threats to the remaining wetlands in the region. Recognizing that Federal funding for acquisition of these sites is limited, this plan will serve more as a "feeder list" of potential acquisition areas. Therefore, the Regional Plan also briefly identifies alternative methods to protect these valuable areas.

Readers should not interpret the list of wetlands in Appendix A as the only wetland sites in the region worthy of protection. Although this plan underwent an extensive public review process, it is most likely that additional sites will be identified by new readers. Readers may provide information about these sites to the Service's regional office for inclusion in future revisions of the Regional Plan, provided that the sites meet the Wetlands Assessment Threshold Criteria.

Actions to protect the nation's existing wetlands are urgently needed. The quality and quantity of our wetlands base continues to erode due to wetland conversion or degradation. It is necessary to reevaluate protection programs, strengthen implementation of existing programs, and expand Federal, State, municipal, and private actions to help preserve wetlands. Readers are encouraged to contact the Service's regional office or one of our field offices to learn more about protecting these valuable wetland resources. Readers are also referred to the National Wetlands Priority Conservation Plan and SCORP wetlands addenda for additional information. Addresses and phone numbers of Federal and State information sources are provided in Appendix E.

REGIONAL WETLANDS CONCEPT PLAN
TABLE OF CONTENTS

ACKNOWLEDGEMENTS

This report was organized, written and produced by Elizabeth Herland, Regional Emergency Wetlands Resource Act Coordinator, Fish and Wildlife Enhancement. Information about the wetland sites listed in Appendix A was compiled primarily by Fish and Wildlife Enhancement field office staff, most notably Giselle Bernstein, William Hester, Jim Hudgins, Allen Jackson, Karen Mayne, Dave Putnam, Bob Scheirer, Bill Schultz, Carl Schwartz, and Carole Wienhold. The report was formatted using Macintosh PageMaker by Mary O'Connor. Assistance with maps was provided by Jim Clark. Donna Surabian proofed several of the appendices. Biologists from Federal, State, and private agencies reviewed and provided comments on the first two drafts of this report. The author thanks all these people for their contributions to this report.

Introduction

An abundance of natural resources and diverse ecosystems characterizes the northeastern and mid-Atlantic United States. Of these ecosystems, both tidal and non-tidal wetlands comprise a small percentage of the land mass but provide essential support functions for fish, wildlife, and man. Unfortunately, wetlands have historically been less appreciated than many other ecosystems and have often been converted to other land types. The passage of the Emergency Wetlands Resources Act of 1986 (Act) signalled a recognition not only of the value of wetlands but of the need to take additional steps to protect the Nation's remaining wetlands.

The purpose of the Act is "to promote the conservation of migratory waterfowl and to offset the serious loss of wetlands by the acquisition of wetlands and other essential habitat...[and]...to promote, in concert with other Federal and State statutes and programs, the conservation of the wetlands of the Nation in order to maintain the public benefits they provide by (1) intensifying cooperative efforts among private interests and local, State, and Federal governments for the management and conservation of wetlands and (2) intensifying efforts to protect the wetlands of the Nation through acquisition in fee, easements, or other interests and methods by local, State, and Federal governments and the private sector."

Section 301 of the Act required the establishment of a National Wetlands Priority Conservation Plan (National Plan) which would specify on a region by region basis the types of wetlands and interests in wetlands which should be given priority for Federal or State acquisition. The National Plan was prepared by the U.S. Fish and Wildlife Service (Service) in 1989. This Regional Wetlands Concept Plan (Regional Plan) complements the National Plan by identifying nearly 850 privately-owned wetlands in 13 northeastern and mid-Atlantic States (collectively referred to in this plan as the Northeast) which warrant consideration for acquisition using Land and Water Conservation Fund (LWCF) appropriations. These sites are listed by State in Appendix A and located on maps provided in Appendix B. The Regional Plan also complements the wetlands addenda of State Comprehensive Outdoor Recreation Plans (SCORPs), prepared by each State in compliance with section 303 of the Act.

This plan also briefly describes the significant functions and values of wetlands, the nature and amount of wetland loss in the Northeast, and measures that can be taken to minimize future losses. Acquisition by Federal or State agencies using LWCF appropriations is one such tool, although acquisition of many of these sites by Federal or State agencies is anticipated to be limited, given budget constraints, agency acquisition priorities, etc. Therefore, this Regional Plan offers other measures that can be employed by governments and private citizens to protect these wetlands. This Regional Plan not only provides a feeder list of potential acquisition sites, but also will hopefully serve as a catalyst for implementation of some of these other protection measures.

Wetland sites listed in Appendix A were identified by the Service with the assistance of biologists from State agencies and private natural resource organizations. Although the lists are extensive, they by no means represent the only "important" wetland sites in the Northeast. However, most of the sites identified in Appendix A meet the criteria for acquisition under the Act. These criteria consider the functions and values of wetlands, historic wetland losses, and threats of future wetland losses. To qualify for

acquisition, the wetland sites must meet the Wetlands Assessment Threshold Criteria (Threshold Criteria) provided in the National Plan and reprinted in this plan as Appendix D. The size of the wetland site is irrelevant in determining whether or not the site qualifies for acquisition consideration.

The absence of a site from Appendix A does not mean it is ineligible for acquisition using LWCF monies. Additional important, scarce, and vulnerable wetlands were no doubt inadvertently overlooked in the development of the lists in Appendix A. Acquisition of these sites is possible once they are evaluated under the Threshold Criteria and found to warrant priority consideration for acquisition. Completed Threshold Criteria sheets may be submitted to the Service's regional office for acquisition consideration and inclusion of these sites in future revisions of the Regional Plan.

Completion of Threshold Criteria verifies that sites acquired with LWCF monies are consistent with the purposes of the Act. To date, a majority of the wetlands listed in Appendix A have been evaluated using the Threshold Criteria. A Federal or State agency wishing to acquire a wetland with LWCF monies must evaluate the site using the Threshold Criteria if it is one of the sites on the list that has not yet been evaluated.

States may amend the Threshold Criteria to reflect conditions specific to that State, and may acquire wetlands under revised criteria approved by the National Park Service, the agency within the U.S. Department of the Interior that transfers LWCF monies to States. New Jersey and Maryland have revised the Threshold Criteria for use in their States. Additionally, States are not limited to acquiring sites listed in Appendix A. States may develop their own wetlands lists which may or may not include some or all of the wetlands listed in this plan.

Wetland Function and Values

Wetlands provide valuable habitat for many fish and wildlife species. Some animals spend their entire lives in wetlands while others use them primarily as feeding areas, nurseries for young, or resting areas. Fish, shellfish, waterfowl and other birds, furbearers, amphibians, and reptiles depend on wetlands to maintain healthy population levels. Wetlands improve water quality by filtering nutrients, wastes, and sediments from upland runoff. Wetlands also have socio-economic value as they provide flood and storm damage protection, erosion control, water supply, groundwater recharge, harvestable natural products, and recreational opportunities. Not all wetlands perform all these functions; neither do all wetlands perform these functions equally well.

Coastal and estuarine wetlands are important wintering areas for waterfowl because tidal action keeps the creeks and rivers relatively free of ice. Numerous species winter along the Atlantic coast, including major concentrations of black duck, mallard, brant, greater snow goose, and Canada goose. Salt marshes are used for nesting by black duck, laughing gull, Forster's tern, blue-winged teal, willet, clapper rail, sharp-tailed sparrow, and seaside sparrow. Atlantic coastal marshes are important feeding and stopover areas for numerous species of shorebirds and wading birds. Coastal wetlands are also essential for shellfish, such as the bay scallops, blue crabs, oysters, and hard shell and soft shell clams. Tidal freshwater marshes and estuaries are also nursery grounds for many anadromous fish species including alewife, American shad, blueback herring, striped bass, and white perch. They provide valuable spawning, nursery, and feeding grounds for many

marine invertebrate and finfish prey species as well as species of commercial and recreational value.

Inland freshwater wetlands adjacent to rivers and lakes provide valuable nesting and brood habitat for wood ducks, hooded mergansers, and black ducks. These wetlands are also prime habitat for furbearers, such as beaver, muskrat, river otter, and mink. Eastern painted turtles, bog turtles, and snapping turtles are found in the region's freshwater wetlands, as are a host of songbirds.

Wetlands also provide essential habitat for endangered and threatened species. More than one-third of the nation's threatened and endangered plant species and one-half of the animal species are wetland-dependent. Many Federally and State-listed species are associated with the wetlands of the Northeast. The piping plover, a Federally-listed threatened species, nests and forages along the beaches and intertidal flats of the Atlantic coast in all the north and mid-Atlantic States except New Hampshire, where it has historically nested. The Furbish lousewort, a Federally-listed endangered plant species, is endemic to the banks of the St. John River in Maine. The swamp pink, Canby's dropwort, and Harparella are other Federally-listed endangered and threatened plants found in wetland habitats in the Northeast.

The hydrological functions of wetlands are well known but poorly understood. Surface and groundwater recharge and discharge, water quality, flood water conveyance and storage, and shoreline and erosion protection are some of the public values provided by wetlands. Most wetlands are areas of groundwater discharge with some providing water for public uses. When this function exists, the groundwater moves up to replenish surface water supplies. Groundwater recharge, where the surface water moves down into groundwater aquifers, is also important but less common.

The ability of wetlands to help maintain water quality or improve degraded water quality is one of the more important functions of wetlands. Wetlands can remove, transform, and retain nutrients, process chemical and organic wastes and pollutants, and reduce sediment loads. However, excessive chemical or sediment loading will inhibit the ability of wetlands to process these pollutants. For example, the sediment trapping value of wetlands is lost if excessive sedimentation occurs and wetlands are transformed into uplands.

Wetlands also gradually release temporarily stored flood water and reduce shoreline and riverbank erosion. Both functions are very important in the Northeast. Coastal wetlands stabilize shorelines by binding and stabilizing sediments. They also buffer developed uplands from storm, wave, and erosion damage. The flood controlling capacity of wetlands is also important in areas with developed floodplains. This capacity is determined by several factors. For instance, larger wetlands provide more flood storage and flow reduction while wetlands in the upper watershed are generally more effective in retaining floods. The texture of the substrate and structure of the wetland vegetation also influences the capacity for a wetland to reduce flooding.

Wetlands have historically contributed to local economic prosperity. Hunting, trapping, fishing, cranberry and blueberry harvest, timber and salt hay production, peat mining, and livestock grazing have historically occurred in the wetlands of the Northeast. Further, many commercially-harvested animal species are wetland-dependent. Tourism also benefits from the pres-

ence of wetlands. The wetland-associated plant and wildlife in West Virginia's Canaan Valley significantly contributed to the development of the area as a regional tourism center.

Recreational uses of wetlands range from boating and swimming to nature observation and study. Wetlands often support consumptive uses such as hunting and fishing. They also provide valuable opportunities for education and research. The nonconsumptive values of wetlands are generally greatest when water quality is high, fish and wildlife resource diversity is high, and there is good accessibility to the site for outdoor recreation.

The functions and values of the wetlands listed in Appendix A have been carefully reviewed for their wildlife, fisheries, water quality/quantity/flood control, recreation, education, research, archeological, and ecological characteristics. The criteria used to determine these traits are listed in the Threshold Criteria in Appendix D.

Wetland Losses

The National Plan identifies indices of wetland loss by ecoregion for the entire country. Ecoregions are continuous geographical areas characterized by distinctive flora, fauna, landform, climate, vegetation, and climax communities. Three of these ecoregions are found in the Northeast. The Warm Continental ecoregion includes all of Vermont, most of Maine, New Hampshire and New York, and part of Massachusetts, Connecticut, New Jersey and Pennsylvania. The Hot Continental ecoregion comprises all of Rhode Island and West Virginia and the coastal areas of New Hampshire, Massachusetts and New York, the northern half of New Jersey, western Maryland and Virginia, and most of Pennsylvania. The Subtropical ecoregion includes Southern New Jersey, Delaware, and most of Maryland and Virginia.

In the preparation of the National Plan, the Service calculated indices of loss for three wetland types. The "index of loss" formula was used to measure the loss of these wetland types during a certain period within ecoregions. The three wetland types studied were palustrine forested, scrub-shrub, and emergent wetlands. Palustrine wetlands are non-tidal wetlands dominated by trees (forested), shrubs (scrub-shrub), or persistent emergent vegetation including emergent mosses or lichen (emergent); or freshwater tidal wetlands (emergent, and less frequently scrub-shrub and forested). Palustrine wetlands also include small (less than 20 acres), shallow (less than 6 feet deep), permanent or intermittent water bodies called ponds (open water, unconsolidated bed wetlands). No index of loss was calculated for ponds, as current information reveals this to be a wetland type increasing in acreage.

Wetland losses calculated using the Service's National Wetlands Inventory wetlands trends information indicate that the Warm Continental ecoregion experienced a "high" percentage of palustrine emergent wetland base loss in the period from the mid-1950's to the mid-1970's. At the same time, a "moderate" loss of freshwater scrub-shrub wetlands occurred in this ecoregion. In the Hot Continental ecoregion, freshwater emergent wetlands experienced a "moderate" loss during this period. The wetland base of both forested and scrub-shrub freshwater wetlands in the Subtropical ecoregion experienced a "high" rate of loss.

The values of "high" and "moderate" wetland losses are useful in presenting information about the relative loss of these three wetland

types between these ecoregions. However, the national indices do not necessarily accurately reflect wetland loss trends within States or regions. Neither do they reflect losses of other wetland types (marine, estuarine, riverine, or lacustrine) within the three ecoregions.

Further complicating an accurate assessment of wetland loss in this region is the lack of a complete and consistent data base. Wetland loss trends have been best studied in the mid-Atlantic States but are lacking for the rest of the region. Historically, wetland losses in each of the 13 Northeast states have been quite high. Many States, such as New Hampshire, Vermont, New York, and Pennsylvania, estimate that about half of either their entire wetland base or of a specific wetland community type have been lost since the period of European settlement. These are the best estimates that can be made with existing data.

It is known that significant decreases in wetlands over a 20-year period (1954-1974) occurred in New Jersey, Delaware, and Maryland. Estuarine wetland losses were particularly great in New Jersey, where 24 percent of the State's coastal marshes were lost during this period. Between 1956 and 1979, Pennsylvania experienced a net loss of 28,000 wetland acres. Much of this was palustrine emergent marsh. In Maryland, estuarine intertidal emergent marsh and palustrine emergent and scrub-shrub marshes have been declining. About 15,000 acres of palustrine vegetated wetlands in Maryland have been lost since the mid-1950's, with about 91 percent of this loss occurring in the lower coastal plain region of the State. Considerable amounts of tidal and non-tidal palustrine wetlands and estuarine emergent wetlands in Virginia have also been lost since the 1950's.

Estimates also indicate that over half of New York's wetlands have been lost since colonial times to activities such as draining, dredging, filling, and pollution. Since the 1950's, over 40 percent of the State's tidal wetlands have been lost. Although significant losses in New York appear to have slowed, an estimated 40-50 percent of the existing wetlands in the State are not adequately protected by State law.

In Maine, historic losses have occurred mostly in coastal wetlands, but smaller freshwater wetlands are now being filled, especially in the developing areas of the State. The wetlands of Maine have been converted for virtually every type of land use. Wetlands have been lost to 1) commercial, residential, and urban development, 2) floodplain development, 3) construction of roads, 4) navigation, 5) peat mining, 6) timber harvesting, and 7) agriculture. Hydropower development and water storage in Maine may have contributed to some of the most extensive documented and undocumented vegetated wetland losses in the State. Pollution has also negatively affected Maine's wetlands.

Agriculture has also been a contributing factor to inland freshwater wetland loss in New Hampshire, Vermont, New Jersey, Pennsylvania and Delaware. In Maryland, agricultural conversion is responsible for about two-thirds of the loss of palustrine vegetated wetlands. Red maple swamps in New York have been converted to muck farms. In Massachusetts, 1,500 acres of the Middleboro Cedar Swamp were drained by one company alone for agricultural purposes.

Throughout New England, forested wetlands and marshlands have been converted to open water and deep water through filling and flooding for municipal reservoirs, flood control, and recreational ponds. Peat, mineral and gravel

mining in New Hampshire, and coal mining and oil and gas development in Pennsylvania have contributed to wetland losses in those States.

About 50 percent (7,500 acres) of New Hampshire's estuarine tidal and coastal marshes have been lost. In Rhode Island, the greatest wetland losses have also been in the coastal zone. Historically, Vermont's marsh and scrub wetland habitats have declined at a faster rate than have other wetland ecosystems. About 35 percent of Vermont's wetland base has been lost since European settlement. Of this, about half of the wetlands lost have been palustrine emergent marshes. The loss of inland wetlands in Connecticut has been estimated by the State to be between 1,000 and 1,500 acres of wetlands annually. About 25 percent of West Virginia's wetlands have been converted to farmland and industrial use, particularly in the floodplains of the Ohio, Kanawha, and Monongahela Rivers.

The National Plan indicates that palustrine emergent, forested, and scrub-shrub wetland types and coastal vegetated wetlands (estuarine intertidal, emergent, forested, scrub-shrub and marine intertidal) will usually warrant priority consideration for Federal and State acquisition. Given the amount and rate of wetland losses in each State, however, different priorities for acquisition may be established on a State-by-State basis.

Wetland Threats

Despite the recognized biological and socio-economic values of wetlands, the loss or degradation of wetlands has been estimated to occur at the rate of about 450,000 acres per year. New trend data describing wetland losses and gains during the early 1980's is presently being compiled by the Service's National Wetland Inventory. It is thought that the rate of wetland loss may have declined somewhat due to the establishment or strengthening of Federal, State and local wetlands protection measures.

Wetlands have historically been converted principally for agricultural use. In the more urban areas of the country, including the Northeast, current wetland losses are more often from commercial and residential development and highway development. Most alterations that are due to development, such as filling and dredging, occur near urban and suburban areas. Other less-developed areas under pressure are those with strong growth in the recreation and vacation home market. The wetlands in the Catskills of New York, the Poconos in Pennsylvania, the Chesapeake Bay area in Maryland and Virginia, and much of Vermont, New Hampshire, and Maine, are all threatened by vacation home, road and driveway construction.

Proposals to develop municipal reservoirs, such as the Big River in Rhode Island and the Washington Valley reservoir in New Jersey, continue to threaten extensive freshwater wetland complexes. Marina development, port development, and residential construction are the greatest threat to tidal wetlands. Mining of peat bogs threatens the unique heaths of northern Maine.

Wetlands in many areas are threatened by traditional attitudes that fail to appreciate the socio-economic benefits of wetlands. With no State regulatory program in Virginia to protect non-tidal wetlands, local efforts to promote economic development in rural areas often comes at the expense of natural wetlands. In some counties in Virginia, and Maryland as well, there is little public support for wetlands protection efforts.

Qualitative threats to the region's wetlands

are as serious as the threat of quantitative wetland loss. Pollution in the form of urban run-off, sewerage disposal, solid waste disposal, agricultural run-off, hazardous wastes, and increased sedimentation degrades many wetlands in the region. Preventative actions in addition to acquisition must be taken to reduce these qualitative threats.

Acquisition Issues

Meeting the Threshold Criteria does not mean that a wetland will be acquired. It merely indicates that the wetland site is eligible for acquisition using LWCF monies. Many factors will affect the rate and selection of wetlands for acquisition. In addition to the Service, States and several other Federal agencies receive LWCF appropriations to acquire land for conservation or recreation purposes. At the State level, acquisition of wetlands will compete with the acquisition and development of projects such as urban parks and swimming pools. At the Federal level, acquisition of wetlands will compete with the acquisition of wilderness areas, endangered species habitat, and other non-wetland areas.

The lack of an adequate funding base constrains the acquisition program. In Fiscal Year 1990, Congress appropriated $11 million to the Service for wetland acquisition under the Act. An additional $16 million was appropriated to the National Park Service, which retains a percentage of that money for administrative purposes. The balance is distributed by the National Park Service to States for acquisition of outdoor recreation projects. Federal or State acquisition of more wetland sites will only be possible if additional monies from the Fund are distributed by Congress, and a process is created that allows State wetlands projects to compete favorably with recreation projects.

Other factors which must be considered when planning possible acquisitions include 1) the acquisition and management priorities established by States, local governments, private land trust organizations, and Federal agencies, 2) future operation and maintenance requirements, 3) availability of willing sellers, etc. Areas that have been designated as having special State significance, such as wetland sites included in Maryland's "Areas of Special State Concern" could receive a higher priority for acquisition if they meet the Threshold Criteria.

The acquisition of land to provide an adequate upland buffer should also be considered. As long as at least one half or greater of the wetland acquisition site consists of rare or declining wetland types, the remainder of the site can be upland buffer (or non-declining wetland types). If a site requires such a large buffer that it fails the wetland loss priority factor in the Threshold Criteria, acquisition of a protective buffer would have to be funded from another source. Wetland acreages given in the tables in Appendix A are approximate and generally include little upland. However, the size of the wetland site and an associated buffer will be revised as these sites go through the acquisition process.

Several States have already established priorities for the type of wetland complexes most in need of acquisition and/or protection. For example, New Hampshire gives bogs the highest priority for protection due to their uniqueness and extreme sensitivity to disturbance. New Hampshire also has several Registered National Natural Landmarks, natural areas of national significance worthy of such designation. The Natural Heritage and Endangered Species Program in Massachusetts has classified various communities, targeting them for protection specifically through acquisition. Wetlands are

classified as "rare", "threatened", or "functionally diverse". Massachusetts also emphasizes protection of the natural corridors along the State's river systems. Maryland's "Natural Heritage Areas" are natural communities containing one or more threatened or endangered species or wildlife species in need of conservation; are a unique blend of geological, hydrological, climatological, or biological features; and are considered to be among the best statewide example of their kind.

Rhode Island has established priorities for acquisition of both coastal and freshwater wetlands. Connecticut has established categories for acquisition, with tidal wetlands falling in the highest protection category. New Jersey has developed a Statewide Wetlands Priority Conservation System in which wetland systems that have experienced significant losses statewide over time are given preference for acquisition. Threats to the wetlands and ecological, water resource, and recreation values will also be considered in establishing acquisition priorities. Delaware has established acquisition priorities by wetland type. New York has enacted laws and land use regulations to protect wetlands, identified acquisition as the premier method for wetland protection, established vulnerability indices and acquisition criteria and priorities, and expended $30 million on wetland acquisitions. One of New York State's acquisition goals is to put all vegetated tidal wetlands in the State into public ownership. Other States have listed specific wetlands that meet certain criteria for acquisition.

More specific information about State wetland acquisition programs can be found in each SCORP wetlands addendum. Additional information about wetland types, values, losses, and threats in each State can also be found in the wetlands addenda.

Implementation Guidance

Appendix A lists nearly 850 wetland sites which could be considered for acquisition by a Federal or State agency that has access to LWCF monies. The lists in Appendix A will serve as a feeder list for the Service's wetland acquisition program in the Northeast. States may choose to also select potential acquisition sites from the lists in Appendix A, if separate State lists have not been developed.

Generally, State or Federal goals and priorities will influence the selection of sites which will be more closely studied for possible acquisition. The Service will concentrate its acquisition efforts on wetland sites that are particularly valuable to our Federal trustee resources - 1) migratory birds, 2) endangered species, and 3) anadromous fish. Sites that are adjacent to the Service's National Wildlife Refuges or sites that fall within proposed boundaries of existing refuges might receive favorable acquisition consideration by the Service. Wetlands which could be easily managed as a satellite of an existing refuge might also receive favorable acquisition consideration. Wetland areas that are large enough to manage as a separate refuge, or wetland complexes comprised of separate sites that lend themselves to management as a single entity, might also receive favorable acquisition consideration by the Service. Acquisition of wetlands that would contribute to the Service's implementation of the North American Waterfowl Management Plan or special projects undertaken by the Service, such as the Chesapeake Bay program, might also be considered. Each wetland site must be evaluated on its own merits to determine how it would improve the Service's National Wildlife Refuge System. Then, the acquisition issues mentioned earlier, such as availability of willing sellers and the goals of other agencies and organizations must be con-

sidered. Conflicts, if there are any, will be resolved early in the acquisition process.

After determining that the Threshold Criteria have been met, wetlands that may be purchased by the Service will be ranked on the Service's Land Acquisition Priority System. This begins a lengthy process of consultation and review. Decision documents are prepared and opportunities provided for public review and comment. Once the decision is made by the Service's Regional Director to pursue acquisition approval, proposed wetland acquisitions in the Northeast will have to compete with proposals advocated by other Service regions throughout the country. Approval to initiate acquisition will be sought from the Service's Director. Once approved, actual purchase will commence when funds are available.

Acquisition of wetlands by States also involves a fairly lengthy and complicated process. The National Park Service distributes LWCF monies to States using a specific allotment formula. Possible wetland acquisition sites must be nominated by a State agency and submitted in an application package to the Park Service, which has the authority to approve or reject proposals. The process for developing an application package varies in each State. Readers interested in learning more about the process are encouraged to read a State's wetlands plan or communicate with the SCORP planning contact.

In the strictest sense, implementation of this plan will begin when the Service begins the acquisition process for a site listed in Appendix A. However, measures other than Federal or State acquisition can be effective in protecting these wetlands. These other measures are discussed below.

Protective Measures Other Than Federal or State Acquisition

Recommendations for wetlands protection or restoration activities that can be implemented at the Federal, State, and local level or by private organizations and individuals were included in the National Wetlands Policy Forum 1988 report, "Protecting America's Wetlands: An Action Agenda". The Forum specifically recommended that the nation establish a national wetlands protection policy to achieve no overall net loss of the nation's remaining wetlands base, as defined by acreage and function, and to restore and create wetlands, where feasible, to increase the quality and quantity of the nation's wetlands resource base. During his presidential campaign, President Bush adopted an interim policy recommended by the Forum with the establishment of his "no net loss of wetlands" goal. Since then, some Federal and State agencies have developed or are in the process of developing "no net loss of wetlands" plans designed to achieve this goal.

Wetlands protection can be achieved through a variety of mechanisms, of which acquisition is just one tool. The direct threat of development can be eliminated by acquisition, whereas the acquisition of buffers can help reduce the indirect effects of development. Fee acquisition and ownership is the only vehicle that provides responsible agencies the opportunity to preserve wetlands in perpetuity. Acquisition provides greater management options and allows public access to the wetland site. For these reasons, acquisition is the most effective protection technique. However, it is the most expensive and may remove land from the tax base if acquired by a public agency. Where acquisition of a wetland by a Federal or State agency is not

feasible, or not supported by the community, acquisition by a municipality, conservation organization, or a private land trust may be a suitable option.

Conservation easements provide much of the same benefits as acquisition while retaining the land in private ownership. To be most effective, conservation easements should be perpetual and allow for protection and management of the land. Landowners may be willing to allow passive recreational use on the property as well. If so, the often high cost of conservation easements may well be justified. Easements also keep the land in the local tax base, although sometimes at a reduced rate.

The use of conservation easements to permanently protect valuable resources is growing, particularly in areas like the Northeast where land values are generally high. Donated conservation easements are certainly one of the most cost-effective methods of protecting large areas of land when State or Federal ownership is not feasible. In Maryland, donors of easements to the Maryland Environmental Trust qualify for income tax deductions for the appraised value of the development rights given up, estate tax benefits, and a 15-year tax credit on the unimproved land.

Local land trusts, as well as State and National conservation groups, are frequently employing the conservation easement protection tool. Additionally, many local land trusts have been formed in the past few years. Nearly one-third of the land trusts in existence today were formed in the last six years. About half of the Nation's 750 land trust organizations are only a decade old, and almost two-thirds of these are in the Northeast, with the majority being in New England. Citizens interested in protecting a wetland by fee title acquisition or acquisition of a conservation easement might consider contacting a local land trust or establishing a land trust if one does not exist.

Other options designed to protect wetlands may not be permanent or as effective. Regulatory programs developed to control impacts to wetlands exist at the Federal, State, and local level. These programs generally do not prohibit alteration of wetlands, which may lead to a loss in acreage and function or to a change in function and value.

The permit program under Section 404 of the Clean Water Act, jointly administered by the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency (EPA), is broadly recognized as the most significant Federal regulatory program affecting wetlands. However, Section 404 is not a comprehensive wetlands protection program; it does not regulate all activities which can adversely affect and even destroy wetlands. For example, drainage and groundwater pumping are often conducted without discharging dredged or fill material into waters of the United States and in those circumstances are not regulated under Section 404. Furthermore, Nationwide Permit 26 authorizes activities affecting less than 10 acres of wetlands located above headwaters (generally defined as a point on a stream where the average annual flow is less than 5 cubic feet per second). Under NP 26, significant wetland filling has occurred throughout the Nation. Notwithstanding these limits, in times of decreasing monetary resources, regulatory action is an important and cost-effective means of protecting wetlands. Public participation in this program, through the submission of written comments or via public hearings, can be very effective in influencing permit decisions.

The Food Security Act (Farm Bill) includes a wetlands protection provision commonly known as "Swampbuster". Farmers who participate in U.S. Department of Agriculture subsidy programs are ineligible for these benefits in any year during which they plant commodity crops on wetlands drained after passage of the Farm Bill in 1985. The "Swampbuster" program could be an effective tool in preventing wetland loss. However, concerns about the implementation of this program have been raised. It is likely that "Swampbuster" will be revised in the 1990 Farm Bill reauthorization so that the drainage of a wetland alone triggers the "Swampbuster" violation. This change should assist efforts to more consistently enforce the "Swampbuster" provision.

States are increasingly developing strong wetland protection statutes. Thirty coastal States, including those in the Great Lakes, have coastal wetland laws which provide some degree of protection to tidal wetlands. Non-tidal wetlands have generally received less protection at the State level. As of early 1989, 13 States had State freshwater regulatory laws, with most of these being States in the Northeast. Recently, New Jersey and Maryland passed tough freshwater wetland protection statutes. In fact, it is not uncommon for the State regulatory laws to be more comprehensive than the Federal Section 404 program. Unfortunately, implementation of these strict laws is often difficult and controversial, and attempts to weaken existing legislation is not uncommon. The Massachusetts Water Resources Commission's adoption of a "no net loss of wetlands" policy, which emphasizes a three-tiered approach to wetlands protection (avoid, minimize, and mitigate) reinforces the importance of wetland protection.

Some States have promulgated statutes establishing procedures for identifying and protecting areas of significant natural resource values. In Massachusetts, the Areas of Critical Environmental Concern (ACEC) designation process determines if the nominated area is of regional, state, or national importance or contains significant ecological systems with critical interrelationships among a number of components. After designation, the Commonwealth's Executive Office of Environmental Affairs (EOEA) is required to preserve, restore, or enhance these areas and ensure that activities in or impacting the area are carried out so as to minimize adverse affects on aquatic productivity, water quality and quantity, habitat resources, archeological resources, and scenic and recreational resources. While ACEC designation in Massachusetts does not eliminate land use changes, it does require that positive steps be taken within the jurisdiction of the EOEA to minimize impacts of activities on the designated area.

Amendments to the Massachusetts Wetlands Protection Act of 1983 recognized the value of wetlands for wildlife habitat. As a result, the Massachusetts Natural Heritage Program produces an annual report of the estimate habitat of rare wetlands wildlife in the Commonwealth as guidance for developers and conservation commissioners. Massachusetts is also beginning a multi-year program to map wetlands throughout the Commonwealth. These areas will be protected through use restrictions that will be incorporated directly into each property's deed.

Land use regulation is the most common wetland protection tool used by local governments in this country. At least 2,000 communities have adopted wetlands regulations, which are inexpensive compared to the costs of acquisition and provide substantial protection if adequately administered and enforced. Although regulations can take many forms at the local level, zoning ordinances are most commonly

used to protect wetlands. Zoning controls implemented at the municipal or county level can effectively reduce or eliminate impacts of development on wetlands by addressing the intensity or the character of land use in an area. Model nontidal wetland protection ordinances have been developed by many organizations, including the American Planning Association and the Environmental Law Institute.

Floodplain regulations, subdivision regulations, and sanitary codes can also be used to protect wetlands. Additionally, a public policy to protect wetlands can guide comprehensive land use planning, public facilities planning, and public land use management. Local governments can also tailor tax assessment laws by reducing the tax rate applied to wetlands, thereby decreasing some of the incentive to fill or drain the land to make it suitable for development.

All these regulatory measures can play a significant role in wetlands protection. Their limitations, though, are also significant. Many wetlands fall outside the purview of particular regulations. Regulatory staff at the Federal, State, and local level are often overworked and cannot adequately review each permit application. The lack of adequate enforcement is another serious problem. Also, the not uncommon practice of granting variances limits the effectiveness of local ordinances or zoning codes.

The Threshold Criteria developed to ensure consistency with the Act are not the same criteria used when the issuance of a Federal, State, or local permit to allow wetland-related activity is being considered. Many wetlands absent from Appendix A are subject to Federal or State jurisdiction, as are the majority of the sites listed in Appendix A. Any permit to fill or otherwise alter any wetland must be carefully reviewed, alternatives analyzed, and wetland losses mitigated if no reasonable and prudent alternatives exist. Each site must be reviewed individually and must consider the site's inherent ecological values.

Other wetland lists have been generated by Federal, State, and private agencies and organizations. For example, the EPA has identified priority wetlands in many States. It uses these lists to assist in focusing wetland protection efforts under the Section 404 regulatory program and in non-regulatory activities. Lists generated by the EPA, the Service, and others can be used to identify particularly valuable or threatened wetlands. Appendix C is a matrix indicating additional recognition of the wetlands in this plan by Federal or State agencies.

Citizens can contribute significantly to the wetland protection effort. Recognizing the urgent need to get citizens involved in wetlands protection, the National Audubon Society has launched an intensive five-year campaign to save wetlands. Audubon's actions over the next five years will focus the strength, diversity and expertise of a multi-disciplinary staff and widely distributed members on stopping wetlands loss. The Wetlands Campaign proposes action at all political levels but its focus is to develop a large nationally distributed cadre of wetland activists trained to protect wetlands in their local communities. These activists will be trained to: 1) identify wetland types and values; 2) gather and interpret scientific data on wetlands; 3) locate information on zoning, ownership and development plans for a wetland; 4) develop a protection plan; 5) approach and work with property owners; and 6) use legal, media and education resources to protect wetlands. Citizens wetlands protection training manuals and workshops have been developed and are in use in Florida. As the program expands to other states, the manual and workshops will be adapted to address local

conditions. By integrating this activist training with Audubon's ongoing wetland research, protection, education and lobbying efforts, the Campaign will contribute to local, regional, Federal, and even global wetlands protection.

The Izaak Walton League of America has also developed a Wetlands Watch program to encourage citizen involvement in wetland protection. They have developed a Wetlands Watch Kit which is designed to provide basic information to citizens who are concerned about wetlands and want to learn more about how to protect them. The kit contains fact sheets on wetlands ecosystems, their functions and values, the North American Waterfowl Management Program, Swampbuster, Section 404 of the Clean Water Act, and ways citizens can participate in the Section 404 program. The kit also offers a wetlands fact sheet for children and a resource list of helpful publications. It is available for $3.50 from the Izaak Walton League at 1401 Wilson Boulevard, Level B, Arlington, Virginia 22209.

These are just two examples of National conservation organizations that can offer assistance to citizens interested in protecting wetlands. Additional information may be available from local conservation group chapters. The Service is also able to provide assistance to citizens wishing to participate in regulatory program review, wetlands restoration, or "adopt a wetland" programs.

Review and Revision

The Service generated the lists of wetlands in Appendix A with the assistance of State fish and wildlife agencies, State park and recreation agencies, and private conservation and land trust organizations. The draft Regional Plan was then distributed to more than 300 Federal and State agencies and private conservation organizations for review and comment. This plan will be periodically revised by the Service to reflect new information about specific sites or in response to revisions of the Act or the National Plan. Additional sites that meet the Threshold Criteria will be added to Appendix A. Reviewers may nominate sites for inclusion in subsequent revisions to this plan by completing the Threshold Criteria provided in Appendix D, and forwarding that information to the Service's Regional Director. The Service will also work with States and land trust organizations to track the status of sites listed in Appendix A. Sites that no longer meet the criteria, either because they are no longer threatened or have been degraded to a point where they no longer meet the value and function criteria, will be removed from Appendix A.

Information Sources

Addresses and phone numbers for the Federal and State agencies involved with wetland protection in the Northeast and mid-Atlantic States are provided in Appendix E.

Information about the wetlands listed in this plan is available from the Service's field offices. Readers are urged to contact the Service's field offices directly for more information.

Information about SCORP wetlands addenda and specific State wetlands acquisition efforts can be obtained from the SCORP contacts in each State.

State Natural Heritage Programs maintain databases on the status and locations of rare, threatened, and endangered plants and animals as well as unique/exemplary natural communi-

ties and other natural features. These resources are assigned two rarity ranks: global and state. The former represents the rarity of the species throughout its entire range while the latter describes its rarity in a particular state. Many of the wetland sites listed in Appendix A are included on these databases.

The U.S. Army Corps of Engineers and and the Environmental Protection Agency can be contacted to learn more about the Federal wetland regulatory program. Each state in the region also administers a wetland regulatory program, although there is significant variation in the types and extent of wetlands protected by State programs.

The maps in Appendix B depict the general location of the wetland sites listed in Appendix A. Topographic quadrangles produced by the U.S. Geological Survey show the specific location of these wetlands. The tables in Appendix A indicate the quad sheets that can be examined to determine the location of individual wetland sites.

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APPENDIX A

IMPORTANT, SCARCE, AND VULNERABLE WETLANDS IN THE NORTHEAST UNITED STATES IDENTIFIED BY THE U.S. FISH AND WILDLIFE SERVICE UNDER THE AUTHORITY OF THE EMERGENCY WETLANDS RESOURCES ACT (LISTED BY STATE)

Wetland types are identified in these tables using the Cowardin et al. classification system, as follows: system, subsystem, and class.

SYSTEMS AND SUBSYSTEMS

M	Marine	R	Riverine
	1 Subtidal		1 Tidal
	2 Intertidal		2 Lower Perennial
			3 Upper Perennial
			4 Intermittent
			5 Unknown Perennial
E	Estuarine	L	Lacustrine
	1 Subtidal		1 Limnetic
	2 Intertidal		2 Littoral
	P Palustrine		
	No Subsystem		Upland

CLASSES

AB	Aquatic Bed	RS	Rocky Shore
EM	Emergent	SB	Streambed
FO	Forested	SS	Scrub-shrub
ML	Moss/Lichen	UB	Unconsolidated Bottom
RB	Rocky Bottom	US	Unconsolidated Shore
RF	Reef		

Function and Values are derived from the Wetlands Assessment Threshold Criteria (Appendix D) and are coded in these tables as follows:

A = Wildlife
B = Fisheries
C = Water Supply/Quality, Flood and Erosion Protection
D = Outdoor Recreation
E = Other Areas or Concerns

Refer to Appendix D for more information about these categories.

The numbers in the first column of each table refer to the map of that State provided in Appendix B.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF CONNECTICUT (PAGE 1 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Canfield Island	Fairfield	Norwalk, Westport	Norwalk South	125	E2EM, E2US, E1UB	A, B, C, D	
2	*Greenwich Cove	Fairfield	Greenwich	Stamford	125	E2EM, E2US, E1UB	A, B, C, D	
3	*Manresa Island Marshes	Fairfield	Norwalk	Norwalk South	75	E2EM, E2US, E1UB	A, B, D, E	
4	Norwalk Harbor	Fairfield	Norwalk	Norwalk South	50	E2EM	A, B, C, D	
5	*Stratford Great Meadows	Fairfield	Stratford	Bridgeport	500	E2EM, E2US, E2AB, E1UB, E1AB	A, B, C, D, E	
6	*Village Creek	Fairfield	Norwalk	Norwalk South	50	E2EM, E2US	A, B, C, D	1
7	*Congamond Pond	Hartford	Suffield	Southwick (MA)	50	PSS	A, E	
8	*Rocky Hill Meadows	Hartford	Rocky Hill, Wetherfield	Glastonbury, Hartford South	425	PEM, PFO	A, C, D, E	
9	*Beckley Bog	Litchfield	Norfolk	Norfolk	750	PEM, PSS	A, E	
10	*Moore Brook	Litchfield	Salisbury	Bashbish Falls, Sharon	940	PEM, PFO, PSS	A, C, E	
11	Robbins Swamp	Litchfield	Canaan	Ashley Falls	1,000	PFO, PSS, PEM	A, D, E	2

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF CONNECTICUT (PAGE 2 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
12	*Squabble Brook	Litchfield	North Canaan	Ashley Falls	800	PSS	A, E	
13	Dead Man's Swamp	Middlesex	Cromwell	Middletown	300	PFO, PSS, PEM	A, D, E	3
14	*Pecausett Meadows	Middlesex	Portland	Middle Haddam, Middletown	150	PEM, PFO, PSS, PUB	A, D, E	4
15	*Post/Pratt Coves	Middlesex	Deep River	Deep River	225	PEM, PSS, PUB, R1	A, B, D, E	
16	*Wangunk Meadows	Middlesex	Portland	Glastonbury, Middle Haddam	400	PEM, PSS, PFO	A, D, E	4
17	Gulf Pond/ Indian River	New Haven	Milford	Milford	250	E2EM, E1UB	A, B, D, E	
18	*Quinnipiac Meadows	New Haven	Hampden, North Haven	New Haven	800	E2EM, E2UB, R2UB, R1UB, E2SS	A, B, C, D	5
19	*Great Island Marshes	New London	Old Lyme	Old Lyme	1,000	E2EM, E2AB, E2SB, E2UB	A, B	
20	*Pattagansett Marshes	New London	East Lyme	Niantic	350	E2AB, E2EM, E2RS	A, B, E	
21	*Selden Creek	New London	Lyme	Deep River	905	E2SS, E2EM, E2FO, E2SB, E2RS	A, B, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF CONNECTICUT (PAGE 3 of 3)

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Connecticut provided in Appendix B.

Notes

1 Village Creek is adjacent to Manresa Island Marshes.
2 Robbins Creek is the largest inland wetland in Connecticut and one of the most diverse. Portions are owned by the State and The Nature Conservancy.
3 The State is in the process of acquiring part of this site.
4 Part of this site is owned by the State.
5 550 acres in Quinnipiac Meadows are owned by the State.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF DELAWARE (PAGE 1 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Big Stone Beach/Rawley Island	Kent	Big Stone Beach	Bennetts Pier, Mispillion River	6,000	E2EM, E2SS, PFO, E1UB, PEM	A, B, D	
2	*Double Ponds	Kent	Hartly	Kenton	150	PFO, PSS	A, D, E	
3	*Milford - Chain of Lakes	Kent, Sussex	Milford	Ellendale, Harrington, Milford	400	PFO, PSS, PUB, PEM	A, B, C, D, E	1
4	*Murderkill River	Kent	Frederica	Frederica, Harrington, Milford, Wyoming	800	PFO, PSS, PEM, E2EM, R1UB, E1UB	A, D	2
5	*Appoquinimink River	New Castle	Odessa	Middletown, Taylors Bridge	4,000	E2EM, E2SS, E1UB, PFO, PSS, PEM	A, B, D, E	3
6	*Augustine Creek	New Castle	Port Penn	Delaware City, St. Georges, Taylors Bridge	600	E2EM, PSS, PFO, PEM	A, B, D	4
7	*Blackbird Creek	New Castle	Taylors Bridge	Middletown, Taylors Bridge	4,000	E2EM, E2US, E2SS, E1UB, PFO, PSS, PEM	A, B, C, D, E	
8	*Blackbird Forest Bays	New Castle	Clayton	Clayton	300	PFO, PSS, PEM, PUB	A, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF DELAWARE (PAGE 2 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
9	*Borcherdt Property	New Castle	Newark	Newark West	16	PFO	A, B, C, D, E	2
10	*Dragon Run	New Castle	Reybold	Delaware City, St. Georges	600	PEM, PFO	A, B, C, D, E	5
11	*Cedar Creek/ Beaver Dam	Sussex	Milford	Ellendale, Milford, Milton, Mispillion	250	PFO, PEM, PUB	A, B, D, E	
12	*Huckleberry Swamp	Sussex	Milton	Milton	200	PFO, PEM, PUB	A, D, E	
13	*James Branch	Sussex	Laurel	Delmar, Laurel, Trap Pond	300	PFO, PUB, PSS, PEM	A, B, C, D, E	6
14	*Love Creek	Sussex	Midway	Fairmount	150	PFO, E2EM, E1UB, PEM	A, B, E	
15	*Nanticoke River	Sussex	Seaford	Seaford East, Sharptown	600	PFO, E2EM, PEM, PSS, PUB	A, B, C, D, E	1
16	*Sowbridge Branch	Sussex	Milton	Ellendale, Milton	250	PFO, PEM, PSS, PUB	A, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF DELAWARE (PAGE 3 of 3)

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Delaware provided in Appendix B.

Notes

1 Adjacent to public land.
2 Adjacent to public land and greenway corridor.
3 Largest undisturbed freshwater wetland in Delaware.
4 Site of one of the largest great blue heron rookeries on the east coast.
5 Largest unimpaired wetland in northern Delaware.
6 Northernmost stand of bald cypress in the United States. Adjacent to public land.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 1 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Aroostook River	Aroostook	Ashland, Marsardis	Ashland	1,000	R2, R2EM	A, B, C, D, E	
2	*Crystal Bog	Aroostook	Crystal, Sherman	Sherman	4,000	PEM, PSS, R2UB	A, E	
3	McCain Settlement Ponds	Aroostook	Washburn	Presque Isle	200	PUB, PEM	A, D	
4	Penobscot River System (60 miles)	Aroostook, Penobscot	Medway to Oldtown	Lincoln, Mattawamkeag, Orono, Passadumkeag, Winn	4,800	R2, R2EM	A, B, D, E	
5	*Salmon Brook	Aroostook	Perham	Caribou	2,000	PUB, PEM, PSS, PFO	A, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 2 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
6	*St. John River	Aroostook	Allagash, Fort Kent, Frenchville, Madawaska, St. Francis, St. John, T11 R16, T12 R16, T12 R15, T13 R15, T13 R14, T14 R14, T14 R13, T15 R13, T16 R13, T16 R12	Allagash, Beaver Pond, Clayton Lake, Eagle Lake, Fort Kent, Frenchville, Rocky Mountain, Round Pond, Seven Islands, St. Francis	16,000	R2UB, R2US, R2EM, R2SS	A, B, D, E	
7	*White Pond Fen	Aroostook	T13 R15 WELS	Houlton Pond, Seven Islands	650	PUB, PEM, PSS, PFO	A, E	
8	*Marquoit Bay, Middle Bay, Harpswell Sound	Cumberland	Brunswick, Freeport, Harpswell	Bailey Island, Freeport, Orrs Island, South Harpswell	2,300	M1, M2, E2EM	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 3 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
9	*Rachel Carson NWR Inholdings	Cumberland, York	Biddeford, Cape Elizabeth, Kennebunk, Kennebunkport, Kittery, Ogunquit, Old Orchard Beach, Saco, Scarborough, York	Biddeford Pool, Kennebunkport, Wells, York Beach	2,100	E2EM, E2US, M1, M2	A, B, D, E	
10	Flagstaff Lake (15 miles)	Franklin, Somerset	Eustis, Flagstaff	Statton	600	L1, L2, PSS, PFO, PEM	A, B, D	1
11	*Bagaduce River	Hancock	Brooksville, Penobscot, Sedgewick	Blue Hill	2,000	E2EM, E2US, E1UB	A, B, D, E	
12	*Grand Marsh Bay	Hancock	Gouldsboro	Bar Harbor	200	E2EM, E2US, E1UB	A, B, D, E	
13	Hog, Taunton, and Egypt Bays	Hancock	Franklin, Lamoine	Ellsworth, Tunk Lake	1,000	E1UB, E2US, E2EM	A, B, D	
14	*Long Mill Cove	Hancock	Gouldsboro	Petit Manan Point	150	E1UB, E2US, E2EM	A, B, D	
15	Narraguagus Lake/Spring River	Hancock	T16 MD, T9 SD T10 SD	Tunk Lake	800	PUB, PSS, PEM	A, B, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
16	*Penobscot River Estuary	Hancock, Waldo	Bucksport, Frankfort, Orland, Prospect, Verona, Winterport	Bucksport	1,000	E2EM, E2US, E1UB	A, B, D, E	
17	*Raccoon Cove	Hancock	Lamoine	Mount Desert	250	E2EM, E2US, E1UB	A, B, D, E	
18	Skillings River	Hancock	Hancock, Lamoine	Ellsworth	1,200	E2EM, E2US, E1UB	A, B, D	
19	*Belgrade Bog	Kennebec	Belgrade	Belgrade	1,300	PEM, PSS, PFO	A, B, C, D, E	
20	Fowler Bog	Kennebec, Waldo	Unity	Burnham	2,000	PFO, PSS, PEM	A, D, E	
21	*Kennebec River (Richmond to Gardiner)	Kennebec, Lincoln, Sagadahoc	Richmond, South Gardiner	Gardiner	1,000	R1, R1EM, R1AB	A, B, D, E	2
22	Kennebec River System (45 miles)	Kennebec, Somerset	Solon to Waterville	Anson, Waterville	3,600	R1, R2, R2EM	A, B, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 5 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/ValueNotes
23	Sebasticook River System	Kennebec, Somerset, Waldo	Clinton to Harmony	Burnham, Pittsfield	2,400	R2, R2EM, PSS, PEM	A, B, D
24	*Appleton Bog	Knox	Appleton	Washington	400	PEM, PSS, PFO	A, E
25	St. George River	Knox	Cushing, South Thomaston, St. George, Warren	Friendship, Tenants Harbor	400	E1US, E1UB, E2EM, E2BB	A, B, D, E
26	Muscongus Bay Complex	Lincoln	Bremen, Bristol, South Bristol, Waldoboro	Friendship, Louds Island, Waldoboro East, Waldoboro West	1,500	M1, E2EM, M2, E1UB	A, B, C, D, E
27	*Sheepscot River Complex	Lincoln	Alna, Boothbay, Newcastle	Boothbay Harbor, Westport, Wiscasset	2,000	R1, R1EM, R1AB, E1, E2EM	A, B, D, E
28	*Kezar Outlet Fen	Oxford	Lovell	Center Lovell	200	R2UB, PEM, PSS, PFO	A, D, E
29	*Swimming Bog	Oxford	Fryeburg	Fryeburg	200	R2UB, PEM, PSS, PFO	A, B, E

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
30	*Lake Umbagog (17 miles)	Oxford	Magalloway Plt., Upton	Errol, Oquossoc	680	L1, L2, L2EM	A, B, D, E	3
31	*Wilson Mills Bog	Oxford	Magalloway	Errol (NH/ME)	650	R2UB, PEM, PSS	A, B	
32	*Dwinal Flowage	Penobscot	Lee, Winn	Winn	2,000	R2UB, PEM, PSS, PFO	A, B, D, E	
33	*Mainstream Pond	Penobscot, Somerset	Cambridge, Harmony, Ripley	Cambridge, Hartland	300	PEM, PSS	A, C, E	
34	Marble Fen	Penobscot	T6 R7 WELS, T6 R8 WELS, T5 R8 WELS	Bowlin Brook, Hay Lake	750	PEM, PSS	A, E	
35	*Mattagodus Stream	Penobscot	Webster Plt.	Wytopitlock	1,200	R2UB, PEM, PSS, PFO	A, B, E	4
36	*Mud Pond	Penobscot	Drew Plt.	Wytopitlock	2,500	L2, L1, PEM, PFO, PSS	A, B, D	
37	*Plymouth Pond	Penobscot	Plymouth	Dixmont, Plymouth	1,000	PEM, PSS	A, C, E	
38	*Skinner Bog	Penobscot	Dixmont	Brooks	1,000	PEM, PSS, PFO	A, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 7 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
39	*Thousand Acre Heath	Penobscot	Passadumkeag	Passadumkeag	1,000	PEM, PSS	A, E	
40	*Cassidy Deadwater	Piscataquis	T4 R15 WELS	Northeast Carry	1,000	PEM, PSS, PFO, L1, L2	A, B, D	
41	Caucacomgomoc Stream, Brandy and Black Ponds	Piscataquis	Chesuncook, T5 R14 WELS, T6 R14 WELS, T6 RI3 WELS	Chesuncook	1,200	L1, L2, PEM, PSS, PFO, PUB, R1	A, B, D	
42	*Mooseleuk Lake	Piscataquis	T10 R9 WELS	Mooseleuk Lake	3,000	L1, L2, PEM	A, B, D	
43	*Pine Stream Flowage	Piscataquis	T4 R13 WELS	Ragged Lake	2,500	L2, PEM L1, PSS	A, B, D	
44	*Back River	Sagadahoc	Arrowsic, Georgetown	Phippsburg	3,000	E2EM, E2US, E2AB, R1EM, R1	A, B, D, E	2
45	Hanson Bay	Sagadahoc	Arrowsic, Woolwich	Bath	400	E2EM, E1UB, E2US	A, B, D	2
46	Merrymeeting Bay	Sagadahoc	Bath, Bowdoinham, Brunswick, Dresden, Topsham, Woolwich	Bath	10,000	E2EM, E2US, R1EM, R1US	A, B, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
47	Sprague and Morse Rivers	Sagadahoc	Phippsburg	Phippsburg	600	E2EM, E1UB, E2US	A, B, D	1, 2
48	Winnegance Creek	Sagadahoc	Phippsburg, West Bath	Phippsburg	1,000	PEM, PSS, L1UB	A, B, D	2
49	*Big Bog	Somerset	T5 R17 WELS, T5 R18 WELS	Norris Brook, Saint John Pond	2,000	PEM, PSS, PFO	A, B, D	
50	Black Brook Pond	Somerset	Pierce Pond	Little Bigelow Mountain, Pierce Pond	750	PUB, PEM, PSS	A, D	
51	*Dead River	Somerset	T3 R4 BKP WKR	Pierce Pond	2,500	R3, PSS, PFO, PEM	A, B, D	
52	*Bog Brook	Washington	Beddington	Lead Mountain	1,200	PUB, PEM, PSS, PFO, R3	A, B, D, E	
53	Carrying Place Cove	Washington	Harrington	Harrington	250	E1UB, E2EM, E2US	A, B, D	
54	*Crowley Island	Washington	Addison	Jonesport	1,000	E2EM, E2US	A, B, D	
55	*Dennys Bay	Washington	Dennysville, Edmunds, Pembroke	Pembroke	2,000	E2EM, E2US, E1UB	A, B, D, E	5

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MAINE (PAGE 9 of 10)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
56	*Downing Bog	Washington	Cherryfield	Cherryfield	160	PEM, PSS, PFO	A, E	
57	Jonesport Heath - North Unit	Washington	Jonesport	Jonesport	500	PEM, PSS	A, E	
58	Little Kennebec Bay	Washington	Machias	Machias, Machiasport, Roque Bluffs	1,000	E1UB, E2US, E2EM	A, B, D	
59	Lubec Flats	Washington	Lubec	Lubec	250	M1UB, M2UB, M2RS	A, B, D, E	5
60	*Meddybemps Heath	Washington	Alexander, Cooper, Meddybemps	Calais	1,000	PEM, PSS	A, E	
61	Mill River/ Meadow Brook	Washington	Harrington, Milbridge	Cherryfield, Harrington	2,000	R1EM, R1US	A, B, D	
62	Pleasant River	Washington	Columbia Falls	Columbia Falls	1,500	R1EM, R1UB, R1US	A, B, D	
63	*Straight Bay	Washington	Lubec, Trescott	West Lubec	2,000	E2EM, E2US, E1UB	A, B, D, E	5
64	*Tomah Flowage	Washington	Codyville	Forest	2,000	PFO, PSS, PEM, L1, L2	A, B, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
65	Whiting Bay	Washington	Edmunds, Trescott, Whiting	Whiting	2,000	E1UB, E2EM, E2US	A, B, D, E	5,6
66	Wohoa Bay Estuary	Washington	Addison	Addison	600	M2US, E2EM, M1UB, E1UB	A, B, D	
67	*Beaver Dam Pond/Heath	York	Berwick	Somersworth	120	PEM, PSS	A, C, D	
68	*Bell Marsh	York	York	York Harbor	25	PEM, PSS	A, C, D	
69	*Saco Heath	York	Saco	Old Orchard Beach	1,500	PEM, PSS	A, E	
70	*Sanford Ponds	York	Sanford	Sanford	1,000	PEM, PUB, PSS, PFO	A, B, D, E	
71	*York River	York	York	York Harbor	400	E1UB, E2US, E2EM, E2SS	A, B, D, E	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Maine provided in Appendix B.

Notes

1 Part of this site is already owned by the State.
2 This site is part of the Kennebec River wetland complex from Augusta south to Merrymeeting Bay.
3 This is the eastern end of Lake Umbagog, most of which is in New Hampshire. See New Hampshire list for additional information.
4 The Lands for Maine's Future Board plans to purchase 1,425 acres in the summer of 1990.
5 This site is part of the Cobscook Bay complex.
6 The Land for Maine's Future Board recently purchased 1,520 acres of coastal property south of Cobscook Bay State Park in Edmunds Twp. They also acquired a 250-acre purchase and easement precluding development in Trescott Twp., directly across the Bay from the Edmunds Twp. property.

October 1990

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MARYLAND (PAGE 1 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Patuxent River Marshes	Anne Arundel, Calvert, Prince George's	Benedict, Bowie	Benedict, Bowie, Bristol, Lanham, Laurel, Lower Marlboro, Odenton	14,500	PFO, PSS, PEM, E2EM, R1EM	A, B, C, D, E	1
2	*South River Marshes	Anne Arundel	Annapolis	South River	200	E2EM, PSS, PFO	A, B, C, D	
3	*Parker Creek	Calvert	Prince Frederick	Prince Frederick	539	PFO, E2EM, PEM, PSS, E1UB, E2US	A, B, D, E	2
4	*Whitaker Swamp	Cecil	Bay View	Bay View, Havre de Grace, North East	297	PFO, PEM, PSS, PUB	A, D, E	3
5	*Allens Fresh	Charles	Allens Fresh	Popes Creek	600	E2EM, E1UB, PFO, PSS, PUB, E2SS	A, B, C, D	
6	*Chicamuxen Creek Marshes	Charles	Chicamuxen	Indian Head	150	E1UB, PFO, E2EM	A, B, C, D	
7	*Goose Bay Marshes	Charles	Welcome	Mathias Point	100	E2EM, PSS, E1UB, E2US, PFO	A, B, C, D	
8	*Indian Creek	Charles, St. Mary's	Benedict	Benedict	350	E2EM, E1UB, PFO	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
9	*Mattawoman Creek	Charles	Indian Head	Indian Head	1,000	E1UB, E2EM, E2US, PEM, PFO, PUB, R1US, R1EM, R1UB	A, B, C, D	
10	*Nanjemoy Creek	Charles	Indian Head	Mathias Point, Nanjemoy	1,000	E1UB, E2EM, E2US, E2SS, PFO, PUB, PSS	A, B, C, D	
11	*Newport Run	Charles	Allens Fresh	Popes Creek	400	E2EM, E1UB, PFO, R1UB, R2UB	A, B, C, D	
12	*Picowaxen Marshes	Charles	Wayside	Colonial Beach North	200	E2SS, E2US, E1UB, E2EM, PSS	A, B, C, D	
13	*Pomonkey Creek Marshes	Charles	Indian Head	Mount Vernon	150	PEM, PFO, R1EM	A, B, C, D	
14	*Popes Creek Marshes	Charles	Popes Creek	Popes Creek	400	E2EM, PSS, PFO	A, B, C, D, E	
15	*Zekiah Swamp	Charles	La Plata, St. Charles City	Hughesville, La Plata, Popes Creek	5,503	PFO, E2EM, PSS, PEM, PUB, E1UB, E2SS	A, B, C, D, E	4

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MARYLAND (PAGE 3 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
16	*Calvin Robbins Marsh	Dorchester	Shorters Wharf	Blackwater River	360	E1UB, E2EM	A, B, C, D	5
17	*Fishing Bay	Dorchester	Cambridge	Nanticoke, Wingate	1,000	E2EM, PUB, E1UB, PFO, E2UB	A, B, D, E	6
18	*Frampton Marsh	Dorchester	Wesley	Wingate	354	E1UB, E2EM, E2UB	A, B, C, D	5
19	*Gales Creek	Dorchester	Galestown	Sharptown	465	PSS, PFO, L1UB	A, C, D, E	7
20	*Richard Springs Marsh	Dorchester	Bestpitch	Chicamacomico	880	E2EM, E1UB	A, B, C, D	5
21	*Spedden Marsh	Dorchester	Bestpitch	Chicamacomico	300	E1UB, E2EM, PEM, PFO	A, B, C, D	5
22	*Upper Nanticoke/ Marshyhope River Marshes	Dorchester	Sharptown	Rhodesdale	1,144	E1UB, E2EM, PFO	A, B, C, D, E	
23	*Wheatley Marsh	Dorchester	Cokeland	Nanticoke	612	E1UB, E2EM	A, B, C, D	5
24	*Anvil Bog	Garrett	Rock House	McHenry	40	PEM, PSS, PFO	A, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MARYLAND (PAGE 4 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
25	*Cunningham Swamp	Garrett	Bittinger	Bittinger	237	PSS, PEM, PUB	A, D, E	8
26	*Negro Mountain Bog	Garrett	Casselman School	McHenry	165	PUB, PSS, PFO	A, D, E	
27	*Black Bottom Ponds	Kent	Massey	Millington	270	PFO, PUB, PSS	A, D, E	
28	*Golts Pond	Kent	Golts	Millington	37	PFO, PUB, PSS	A, D, E	
29	*Chews Lake	Prince George's	Upper Marlboro	Bristol	86	PFO, PUB	A, C, D, E	9
30	*Kane Crossroads Pond	Queen Anne's	Barclay, Templeville	Goldsboro, Sudlersville	130	PFO, PSS	A, C, D, E	
31	*Lower Pocomoke River Marshes	Somerset, Worcester	Pocomoke City	Kingston, Pocomoke City, Saxis	1,050	E1UB, E2EM, E2US, PFO, PUB, R1UB	A, B, C, D	
32	*Marumsco Creek Marshes	Somerset	Rumbly Point	Saxis	1,000	E1UB, E2EM	A, B, C, D, E	
33	*Wicomico Creek/ Wagner Landing Marshes	Somerset	Princess Anne	Princess Anne	600	E2EM	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MARYLAND (PAGE 5 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
34	*Carroll Pond	St. Mary's City	St. Mary's City	Point No Point	100	E1UB, E2EM, PFO, PSS	A, B, C, D, E	10
35	*Chaptico Bay/ Chaptico Run Marshes	St. Mary's	Chaptico	Rock Point	400	E2EM, E2US, PFO, PSS	A, B, C, D	
36	*Kilpeck Creek Marshes	St. Mary's	Charlotte Hall	Charlotte Hall, Mechanicsville	350	E2EM, E1UB, E2US, PFO, PSS	A, B, C, D	
37	*St. Clements River Headwaters	St. Mary's	Clements	Leonardtown	300	E1UB, E2EM, PFO, E2SS	A, B, C, D	
38	*St. Mary's River Headwaters	St. Mary's	Great Mills	St. Mary's City	300	E1UB, E2EM, PFO, PUB	A, B, C, D	
39	*Dickenson Bay	Talbot	Cambridge, Trappe	Cambridge, Trappe	1,250	E2EM, PSS, E2US, E1UB, PFO, PEM	A, B, C, D	
40	*Chapter Point/ Quantico Marshes	Wicomico	Wetipquin	Mardela Springs, Wetipquin	1,550	E2EM, E2US	A, B, C, D	
41	*Pole Point/ Marshall Point Marshes	Wicomico	Mardela Springs	Mardela Springs	2,100	E2EM, E1UB, PFO	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF MARYLAND (PAGE 6 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
42	*Round Island Gut	Wicomico	Mardela Springs	Mardela Springs	1,550	E1UB, E2EM, E2US, PFO, PSS	A, B, C, D	
43	*Upper Pocomoke River Marshes	Wicomico, Worcester	Whaleysville	Ninepine Branch, Public Landing	1,900	PFO, PUB, R1UB, R2UB	A, B, C, D	
44	*Big Bay Marshes	Worcester	Stockton	Boxiron	350	E2EM	A, B, C, D	
45	*Mills Island	Worcester	Stockton	Boxiron	430	E2EM, E1UB	A, B, D, E	
46	*Tizzard Island	Worcester	Stockton	Boxiron	210	E2EM, E2US, E1UB, PFO, PSS	A, B, C, D	

*Wetlands Assessment Threshold Criteria Sheets have been completed for these sites.
The numbers in the first column refer to the map of Maryland provided in Appendix B.

Notes

1 This area has been designated as one of the State's scenic rivers. Adjacent to land under State and county ownership.
2 Palustrine forested wetlands and estuarine intertidal emergent wetlands within a 3.5 mile distance makes this system illustrative, on a small scale, of the larger Chesapeake Bay tributary system. The American Chestnut Land Trust has purchased land in this watershed and is working to protect additional land in this area.
3 This site is a mature deciduous swamp. Its size and age make it rare in Maryland.
4 Largest palustrine forested broad-leaved deciduous swamp in Maryland. The Maryland Environmental Trust is working with the State and Charles County to protect this site.
5 This site is one of the last expanses of three-square marshes in the area.
6 This site is adjacent to Federal and State wildlife refuges.
7 This site includes a shrub swamp with a bog; bog wetlands are rare on Maryland's eastern shore.
8 This site is adjacent to State forest lands.
9 This site is adjacent to the State-owned Patuxent River Park.
10 This site includes the only sphagnum bog in this part of Maryland.

October 1990

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF MASSACHUSETTS
(PAGE 1 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Barnstable Marshes	Barnstable	Barnstable	Hyannis	5,300	E1UB, E2EM, E2US	A, B, C, D, E	
2	Orleans Bay	Barnstable	Orleans	Orleans	950	E1UB, E2EM, E2US	A, B, C, D, E	
3	Pleasant Bay	Barnstable	Chatham, Harwich, Orleans	Chatham	750	E1UB, E2EM, E2US	A, B, C, D, E	
4	*Wellfleet Harbor	Barnstable	Wellfleet	Wellfleet	300	E1UB, E2EM, E2US	A, B, C, D, E	
5	*Schenob Brook	Berkshire	Sheffield	Ashley Falls	700	PUB, PFO, PSS	A, D, E	
6	*Hockomock Swamp	Bristol, Plymouth	Bridgewater, Easton, Norton, Taunton, West Bridgewater	Brockton, Taunton	3,000	PFO, PSS	A, C, D, E	
7	Richmond Pond	Bristol	Westport	West Port	75	E1UB, E2EM, E2US	A, D, E	
8	*Westport River	Bristol	Westport	West Port	1,000	E2EM, E2US, E1UB	A, B, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF MASSACHUSETTS

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
9	*Katama Bay, Sengekontacket Pond	Dukes	Edgartown	Edgartown	225	E1UB, E2EM, E2US	A, B, D, E	
10	*Essex Marshes	Essex	Essex, Gloucester	Ipswich, Gloucester	7,000	E2EM, E2US, E1UB	A, B, C, D, E	
11	Gloucester Harbor	Essex	Gloucester	Gloucester	100	E1UB	A, B, D	
12	Merrimack River	Essex	Newburyport	Newburyport East	325	E2EM, E1UB, R1	A, B, C, D, E	
13	*Newbury, Rowley, Ipswich Marshes	Essex	Ipswich, Newbury, Rowley	Ipswich, Newburyport East	5,750	E2EM, E2US, E2UB	A, B, C, D, E	
14	*Parker River Marshes	Essex	Newbury, Rowley	Georgetown, Newburyport West	900	E2EM, E1UB	A, C, D, E	
15	Salisbury Marshes	Essex	Salisbury	Newburyport East	4,000	E2EM, E2US, E1UB	A, B, C, D, E	
16	Saugus/Pine River, Lynn Harbor	Essex, Suffolk	Lynn, Revere, Saugus	Boston North, Lynn	2,000	E2EM, E2US, E1UB	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF MASSACHUSETTS
(PAGE 3 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
17	*Shawsheen River Wetlands	Essex, Middlesex	Andover, Bedford, Billerica, Tewksbury, Wilmington	Billerica, Concord, Wilmington	900	PSS, PEM, PFO, R2UB	A, C, D, E	
18	*Great Cedar Swamp	Middlesex, Worcester	Hopkinton, Westborough	Marlborough	1,500	PFO, PSS, PUB, PEM	A, C, D, E	
19	*Nashua River	Middlesex	Ayer, Groton, Harvard, Lancaster, Pepperell, Shirley	Ayer, Clinton, Pepperell, Shirley	2,000	R2, PEM, PSS, R2EM	A, B, C, D, E	
20	*Sudbury-Assabet-Concord Rivers	Middlesex	Concord, Maynard, Sudbury	Concord, Maynard	1,800	PEM, R2EM, PSS, R2	A, B, D, E	
21	Nantucket Harbor	Nantucket	Nantucket	Nantucket, Siasconset	250	E1UB	A, B, D	
22	*Neponset River Marshes	Norfolk, Suffolk	Boston, Canton, Milton, Norwood, Quincy, Sharon	Boston South, Norwood	1,000	E2EM, E1UB, PFO, PSS, PEM	A, B, C, D, E	
23	Duxbury Marshes	Plymouth	Duxbury	Duxbury	750	E2EM, E2US	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF MASSACHUSETTS
(PAGE 4 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
24	*North River Marshes	Plymouth	Hanover, Marshfield, Norwell, Pembroke, Scituate	Cohasset, Hanover, Scituate	2,000	E2EM, E1UB, E2US, PFO	A, B, C, D, E	
25	*South River Marshes	Plymouth	Marshfield, Scituate	Duxbury, Scituate	1,000	E2EM, E2US, E1UB	A, B, C, D, E	
26	*Blackstone	Worcester	Grafton, Northbridge, Uxbridge	Blackstone, Grafton	1,200	R2, PEM, PUB, PSS, R2EM	A, B, C	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Massachusetts provided in Appendix B.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW HAMPSHIRE (PAGE 1 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	Merrymeeting Marsh	Belknap	Alton, New Durham	Alton	500	PUB, PEM	A, B, C, D, E	
2	*Winnipesaukee River-Tioga River Wetlands	Belknap, Merrimack	Belmont, Northfield, Tilton	Penacook	1,120	R2FO, R2EM, R2AB, R2SS, R2SB	A, B, C, D	
3	*Chain-of-Ponds	Carroll	Madison	Ossipee Lake	25	PEM, PSS	A, E	
4	*Pine River	Carroll	Effingham, Ossipee	Ossipee Lake, Wolfeboro	1,000	PFO, PSS, PEM	A, B, C, D, E	
5	Hurlbert Swamp/ Avery's Swamp	Coos	Clarksville, Stewartstown	Dixville	540	PFO, PSS, PEM	A, E	1
6	*Lake Umbagog	Coos	Cambridge, Errol	Errol, Milan	11,000	PUB, PEM, PSS, PFO	A, B, D, E	2
7	*Lancaster Bog	Coos	Lancaster	Guildhall (VT)	20	PEM, PSS, PFO	A, E	
8	Route 145 Fen	Coos	Stewartstown	Dixville	10	PFO, PSS	A, E	
9	*South Bay Bog	Coos	Pittsburg	Indian Stream	185	PEM, PFO, PSS	A, E	
10	Stratford Island	Coos	Stratford	Guildhall (VT)	25	PFO	A, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
11	*Livermore Falls	Grafton	Campton	Plymouth	100	R3, PSS, PEM	A, B, C, D, E	
12	*Grassy Pond	Hillsborough	Litchfield	Nashua North	10	PEM	A, E	3
13	*Manchester Cedar Swamp	Hillsborough	Manchester	Manchester North	30	PFO, PEM, PSS	A, C, D, E	3
14	*Sewalls Falls	Merrimack	Concord	Penacook	300	R2US, PSS, PEM, PFO	A, B, D	4
15	*Cedar Swamp Pond Bog and Swamp	Rockingham	Kingston	Kingston	40	PEM, PSS, PFO	A, C, D, E	
16	*Coastal Marshes	Rockingham	Hampton, Hampton Falls, Rye, Seabrook	Hampton, Portsmouth	2,500	R2EM, R1EM, E2SS, E2US, E2EM	A, B, C, D, E	
17	*Deerfield Black Gum Swamp	Rockingham	Deerfield	Northwood	25	PFO	A, C, D, E	3
18	Durham Point Sedge Meadow[1]	Rockingham	Durham	Newmarket	15	PEM, PSS	A, E	
19	*Great Bay	Rockingham	Dover, Durham, Greenland, Newington, Newmarket	Dover East, Dover West, Newmarket, Portsmouth	1,500	PSS, PFO, PEM, E1EM, R2EM, R1EM, E2, E2SS, E1US, R2, R1	A, B, C, D, E	5

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW HAMPSHIRE (PAGE 3 of 3)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
20	*Great Bog/ Packer Bog	Rockingham	Portsmouth	Portsmouth	840	PEM, PSS, PFO	A, D, E	
21	Spruce Swamp	Rockingham	Fremont	Epping, Kingston	500	PFO, PSS	A, D, E	
22	*Rochester Heath Bog	Strafford	Rochester	Berwick	200	PEM, PUB, PSS	A, D, E	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of New Hampshire provided in Appendix B.

Notes

1 Largest cedar swamp in State.
2 Part of Lake Umbagog extends into Maine. More information on the Maine part of Lake Umbagog is available on the Maine list.
3 Recognized by the New Hampshire Natural Heritage Program as an exemplary natural community indicating a unique community in almost pristine condition.
4 Part of this site has been recently purchased by the State.
5 The Great Bay National Estuarine Research Reserve Management Plan recognizes land acquisition as a key resource protection strategy to ensure protection of the overall estuarine system.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW JERSEY (PAGE 1 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Brigantine/ Barnegat Wetlands	Atlantic, Burlington, Ocean	Absecon, Barnegat, Eagles Wood, Little Egg Harbor, Mullica, Ocean, Stafford	Barnegat Light, Beach Haven, Brigantine Inlet, Forked River, Green Bank, New Gretna, Oceanville, Ship Bottom, Tuckerton	23,400	E2EM, PFO, PSS, PEM	A, B, C, D	1
2	*Hospitality Branch	Atlantic	Folsom Boro	Newtonville	100	PFO, PSS	A, C, D, E	
3	*Malibu Beach	Atlantic	Egg Harbor Twp.	Ocean City	300	E2EM, E1UB, E2US	A, B, C, D, E	2
4	*Lake Pines	Burlington	Evesham Twp.	Medford Lakes	300	PFO, PEM, PSS, PUB	A, C, D	
5	*Oswego River Lowlands Macrosite	Burlington	Bass River Twp., Washington Twp.	Jenkins, Oswego Lake, Woodmansie	5,000	PFO, PSS, PEM, L1UB	A, B, D, E	3
6	*West Branch Wading River	Burlington	Washington Twp., Woodland Twp.	Chatsworth, Jenkins	4,000	PFO, PSS, PEM	A, B, D, E	3
7	*Beagle Club Woods	Camden	Voorhees Twp.	Clementon	300	PFO, PSS	A, D, E	4

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
8	*Cape Island/ Pond Creek	Cape May	Lower Twp.	Cape May	460	PEM, PFO, E2EM	A, B, C, D	
9	*Great Cedar Swamp (Cape May NWR)	Cape May	Dennis Twp.	Mamora, Rio Grande, Stone Harbor, Woodbine	15,000	PFO, PSS	A, B, C, D	5
10	*Great Egg/ Jarvis	Cape May	Lower Twp., Middle Twp., Upper Twp.	Avalon, Mamora, Ocean City, Sea Isle City, Stone Harbor, Wildwood	13,400	E2EM, PFO	A, B, C, D, E	6
11	*Sewell Point	Cape May	Cape May	Cape May	120	PSS, PEM, PFO	A, C, D	
12	*Bear Swamp West	Cumberland	Downe Twp.	Cedarville	2,000	PFO, PSS, PEM, L1UB	A, D, E	
13	*Maurice River Marshes	Cumberland	Commercial Twp., Maurice River Twp., Millville	Dividing Creek, Port Elizabeth, Port Norris	5,500	E2EM, E1UB, PFO	A, B, C, D, E	7
14	*Manumuskin River Complex	Cumberland	Maurice River Twp.	Five Points, Port Elizabeth	1,150	PFO, E2EM, PSS, L1UB	A, B, C, D, E	7

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW JERSEY (PAGE 3 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
15	*Glacial Lake Passaic Wetlands	Essex, Morris	East Hanover, Fairfield, Florham Park, Hanover, Lincoln Park, Montville, Parsippany-Troy Hill, Pequannock, Roseland, West Caldwell	Caldwell, Morristown, Pompton Plains	11,895	PFO, PSS, PEM	A, B, C, D, E	8
16	*Oldman's Creek/ Raccoon Creek	Gloucester, Salem	Logan Twp., Oldman's Twp., Woolwich Twp.	Bridgeport, Marcus Hook, Penns Grove, Woodstown	6,700	E2EM, PFO, PSS, R1EM, PEM	A, B, C, D	
17	*Dismal Swamp	Middlesex	Edison Twp.	Plainfield	200	PFO, PSS, PEM	A, C, D	
18	*Metro Park Wetlands	Middlesex	Edison Twp., Woodbridge	Perth Amboy	55	PFO, PSS, PEM	A, D	
19	*Raritan Center	Middlesex	Edison Twp.	Perth Amboy, South Amboy	2,000	PFO, PSS, PEM, PUB, E2EM	A, B	
20	*Walnford Floodplain	Monmouth	Upper Freehold Twp.	Allentown	200	PFO, PEM, R2UB	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
21	*Beaver Brook	Morris	Rockaway	Boonton	200	PFO, PSS, PEM, R2UB	A, B, C, D	
22	*Washington Valley Reservoir	Morris	Morris Twp.	Mendham	375	PFO, PSS, PEM, R2UB	A, B, C, D	
23	*Manahawkin Lake	Ocean	Stafford Twp.	West Creek	250	PFO, PSS, PEM, L1UB	A, B, D, E	
24	*Reedy Creek	Ocean	Brick Twp.	Pt. Pleasant	1,220	PFO, E2EM	A, B, C, D, E	9
25	*Uttertown Bog	Passaic	West Milford Twp.	Newfoundland	50	PFO, PEM	A, D, E	
26	*Mannington Meadows	Salem	Salem	Delaware City (DE-NJ), Penns Grove, Salem	7,500	PFO, PSS, PEM, E2EM	A, B, C, D, E	10
27	*Pole Tavern	Salem	Upper Pittsgrove Twp.	Elmer, Pittman West	400	PFO, PEM, PUB, PSS	A, D	
28	*Salem River Floodplain	Salem	Pilesgrove Twp.	Woodstown	150	PFO, PSS, PUB	A, B, D, E	
29	*Hyper Humus Fen	Sussex	Andover Twp.	Newton East	25	PFO	A, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW JERSEY (PAGE 5 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
30	*Wallkill River (Wallkill River Bottomlands NWR)	Sussex	Hardystown, Twp., Vernon Twp., Wantage Twp.	Hamburg	7,500	PFO, PSS, PEM, R2UB	A, B, D	11
31	*Woodruffs Gap Fen	Sussex	Sparta Twp.	Newton East	100	PFO, PSS, PUB	A, B, D, E	
32	*Johnsonburg	Warren	Frelinghuysen Twp.	Tranquility	300	PFO, PSS, PEM, PUB	A, B, D, E	
33	*Mountain Lake `Bog	Warren	Liberty Twp.	Washington	150	PFO, PSS, PUB	A, B, C, D, E	
34	*Tocks Swamp	Warren	Pahaquarry Twp.	Bushkill	100	PFO, PSS, PEM, PUB	A, D, E	3

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of New Jersey provided in Appendix B.

Notes

1 Much of this area is in public ownership (Forsythe National Wildlife Refuge (NWR) and several State wildlife management areas.)
2 Area listed as one of the 20 most important spring migratory stopover sites for shorebirds; piping plover and tern habitat.
3 Portions of these sites are administered by the New Jersey Department of Parks and Forestry.
4 Portions of this site have been purchased by the municipality using Green Acres funds.
5 The Cape May NWR has been established; acquisition has begun on a limited scale. This site is adjacent to State wildlife management areas.
6 This site is adjacent to State wildlife management areas.
7 Proposed National Wild and Scenic River.

8 This wetland complex includes 7 different wetland sites known by the names of Long Meadow, Black Meadows, Bog and Vly Meadows, Troy Meadows, Lee Meadows, Hatfield Swamp, and Great Piece Meadows. Some of these sites are under the protection of the State's Green Acres program. Flooding in the Passaic basin constitutes greatest flood problem in the East and has been declared a federal disaster for several years. Corps of Engineers is proposing a subterranean tunnel system using central wetlands for mitigation and flood control. The U.S. Fish and Wildlife Service (FWS) is working closely with the Corps on this project.

9 The FWS has initiated a public review process for the possible acquisition of this site into the National Wildlife Refuge System.

10 This site is close to Supawna Meadows NWR. FWS acquisition of a 350-acre parcel within this site has been approved.

11 One of the State's largest great blue heron rookeries is located within this site. The FWS has completed an environmental assessment on the possible acquisition of this site. Acquisition has not yet been approved.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 1 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Black Creek Marsh	Albany	Guilderland	Voorheesville	500	PEM, PUB, PFO	C, D, E	1
2	*Vanderlinden Marsh	Allegany	Cuba, New Hudson	Cuba	320	PEM, PSS, PFO, L2SB	A, D, E	
3	*Randolph Swamp	Cattaraugus	Randolph	Randolph	500	PEM, PSS, PFO	A, B, C, D	2
4	*Sterling Creek Marsh	Cayuga	Sterling	Fair Haven	1,000	PSS, PEM, R2EM	A, B, C, D	
5	*Owasco Inlet	Cayuga	Moravia	Owasco	1,000	PEM, PSS, PFO, PUB, RUB	A, B, C, D	
6	*Alder Bottom	Chautauqua	Sherman	North Clymer	400	PEM, PSS, PFO	A, B, C, D	2
7	*Horseheads Marsh	Chemung	Horseheads	Horseheads	150	PEM, PSS	A, B, C, D, E	
8	*Great Chazy River (mouth)	Clinton	Chazy	Champlain	40	RUB, PAB, PEM	A, B, D, E	
9	*Kings Bay	Clinton	Champlain	Rouses Point	350	PEM, PFO, PUB, PAB	A, B, D	3
10	*Montys Bay	Clinton	Beekmantown	Beekmantown	350	PEM, PUB, PAB, PFO	A, B, D	1

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/ValueNotes
11	*Scomotion Creek (Dead Creek)	Clinton	Plattsburgh	Beekmantown, Plattsburgh	1,200	RUB, PUB, PEM, PAB, PSS, PFO	A, B, D
12	*Woodruff Pond	Clinton	Plattsburgh	Plattsburgh	200	PEM, PUB, PAB	A, B, D 3
13	*Drowned Lands Swamp	Columbia	Ancram	Copake	1,500	PEM, PFO, PUB	A, B, D, E
14	*Mill Creek Wetlands	Columbia	Stuyvesant	Ravena	250	E2EM, E2SS, E2US, E2FO, E2UB, RUB	A, B, D
15	*Nutten Hook	Columbia	Stuyvesant	Hudson North	38	E2EM, E2UB	A, B, C, D, E
16	*Stockport Creek Marshes	Columbia	Stockport	Hudson North	140	E2EM, E2SS, RUB, E2US	A, B, C, D, E
17	*Great Swamp Pawling	Dutchess	Pawling	Pawling	70	PEM, PFO	A, D, E
18	*Millerton Bog Turtle Site	Dutchess	Northeast	Millerton	450	PEM	A, C, D, E
19	*Swamp River	Dutchess	East Fishkill	Dover Plain, Pawling	1,100	PEM, PUB, PFO	A, B, C, D
20	*Vanderburgh Cove	Dutchess	Hyde Park, Rhinebeck	Hyde Park, Kingston East	400	E2UB, E2AB, E2EM	A, B, D, E

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 3 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
21	*The Narrows (NY and VT)	Essex, Washington	Bensen, West Haven	Putnam, Whitehall	1,000	RUB, PEM	A, B, D, E	
22	*Wolf Pond Fen	Essex	Newcomb	Santanoni	20	PUB, PEM	A, B, D	
23	*Bergen Swamp	Genessee	Bergen, Byron	Byron, Churchville	1,650	PEM, PFO	A, D, E	
24	*Coxsackie Marsh	Greene	Coxsackie	Hudson North	20	E2EM, E2US, RUB, E2SS	A, B, C, D, E	
25	*Great Vly Marsh	Greene, Ulster	Catskill	Cementon	100	PEM, PUB, PAB	A, D, E	3
26	*Inbocht Bay and Duck Cove	Greene	Catskill	Cementon	700	E2US, E2UB, E2AB	A, B, C, D, E	
27	*Ramshorn Creek	Greene	Catskill	Cementon, Hudson South	600	E2EM, E2FO, E2US, E2UB	A, B, C, D	4
28	*Vosburgh Swamp and West Flats	Greene	Athens, Coxsackie	Hudson North	300	E2EM, E2UB, E2US, E2FO	A, B, D	
29	*Maumee Swamp	Herkimer	Richfield Springs	Hubbardsville, Sangerfield	900	PEM, PFO, PAB, PSS	A, B, C, D, E	2
30	*Adams Swamp	Jefferson	Adams	Adams	1,100	PFO	A, D	
31	Black Ash	Jefferson	Alexandria Bay	Alexandria Bay	800	PFO, PEM, PSS	A, B, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
32	Black Pond Marsh	Jefferson	Ellisburg	Henderson	86	PFO, PAB	A, B, C, D	1
33	*Crooked Creek	Jefferson, St. Lawrence	Alexandria, Hammond	Redwood	1,250	PEM, R2UB, PSS, PFO, PUB, R3UB	A, B, C, D, E	
34	French Creek	Jefferson	Clayton	Clayton, St. Lawrence	675	PEM, PUB, R2AB, R2UB	A, D	
35	*Henderson Pond	Jefferson	Henderson	Henderson	1,200	PFO, PUB	A, B, D	
36	*Indian River Wetlands Complex	Jefferson, St. Lawrence	Alexandria, Antwerp, Rossie, Theresa	Redwood	14,500	L2UB, PFO, PSS, PEM, PUB	A, B, C, D, E	
37	Little Stony Creek Marsh	Jefferson	Ellisburg	Henderson	340	PFO, PEM	A, D, E	
38	*Point Vivian Marsh	Jefferson	Alexandria	Alexandria Bay	60	PEM	A, B, D, E	
39	*Bonaparte Swamp	Lewis	Diana	Harrisville, Lake Bonaparte	100	PUB, PFO, PEM, L1UB, PSS	A, D	
40	*Log Pond Flats	Livingston	Caledonia	Caledonia	75	PUB, PEM, PFO, PSS	A, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 5 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/ValueNotes	
41	*Sangerfield Marsh (Ninemile Swamp)	Madison, Oneida	Brookfield, Sangerfield	Brookfield, Hubbardsville	5,000	PEM, PSS, PFO	A, B, C, D, E	
42	*Lido Beach	Nassau	Hempstead	Jones Inlet	102	E2EM, E2US	A, B, C, D, E	
43	Motts Cove	Nassau	Glenwood Landing	Sea Cliff	15	E2EM, E2US	A, D	
44	Prospect Point	Nassau	Sands Point	Sea Cliff	80	E2EM, E2SB, PFO	A, D	
45	*Muskrat Bay	Onondaga	Cicero	Cicero	1,000	PUB, PEM, PSS, RUB, PFO	A, B, C, D	
46	*White Lake Swamp	Onondaga	Dewitt	Syracuse East	75	PEM, PUB, PSS, PFO	A, C, D	
47	*Honeoye Inlet	Ontario	Springwater	Springwater	1,000	PEM, PFO, PSS	A, D	1
48	*Con Hook	Orange	Highlands	Peekskill	30	E2UB, E2EM, E2AB, E2US	A, B, C, D	
49	*Little Cedar Pond	Orange	Warwick	Greenwood Lake	150	PEM, PUB, PFO, PSS	A, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
50	*Moodna Creek (mouth)	Orange	Cornwall	Cornwall	50	E2UB, E2AB, E2US, E2EM	A, B, D	
51	*Big Bay Wetland	Oswego	Constantia	Mallory	2,000	PFO, L2UB, PFO, PSS, PEM	A, B, C, D	1
52	*Brennan Beach Fen	Oswego	Richland	Pulaski	180	PEM, PSS, PFO, PUB, LAB, LUB	A, B, C, D, E	
53	*Butterfly Creek	Oswego	New Haven	Texas	315	PEM, PFO	A, B, D	
54	*Clark Corners Fen	Oswego	Scriba	Oswego East	150	PEM, PFO, PML, PSS	A, D, E	
55	*Deer Creek (South)	Oswego	Richland	Pulaski	350	PEM, PFO, PSS	A, D, E	
56	*Grindstone Creek Marsh	Oswego	Mexico	Texas	131	PEM, PUB	A, B, D	
57	*Lily Marsh	Oswego	New Haven	New Haven	200	PEM, PFO, PSS, PML	A, D, E	
58	*Lot Ten Swamp (Catfish Creek)	Oswego	Palermo	Mexico	2,000	PFO, PUB	A, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
59	*Peter Scott Swamp	Oswego	Schroeppel	Pennellville	2,790	PFO, R2UB, PEM, PAB, PSS	A, B, C, D	
60	*Rainbow Shores Bog	Oswego	Sandy Creek	Pulaski	15	PUB, PEM, PSS, PFO	A, C, D	
61	*Sage Creek Marsh	Oswego	Mexico	Pulaski	75	PEM	A, B, D	
62	*Salmon River Estuary	Oswego	Richland	Pulaski	300	PEM, PUB, PUS, R2AB	A, B, D, E	
63	*Silver Lake/ Mud Pond	Oswego	Oswego	Hannibal, Oswego West	420	PSS, PML, PEM, L1AB, L2EM	A, D, E	
64	*Snake Creek Marsh	Oswego	Oswego	Oswego	131	L2UB, L2US, PSS, PFO, PUB	A, D	
65	*South Pond Marsh	Oswego	Sandy Creek	Pulaski	200	PEM, PSS, PML	A, B, D, E	
66	*Toad Harbor	Oswego	Constantia	Mallory	3,000	PFO, PSS, PEM, PUB	A, B, C, D	
67	*Great Swamp	Putnam	East Fishkill, Patterson	Brewster, Pawlina	3,000	PEM, PFO, RUB, PUB	A, B, C, D, E	2

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
68	*Alley Creek	Queens	New York City	Flushing	15	E2EM, E2US	A, B, C, D, E	
69	*Papscanee Marsh	Rensselaer	East Greenbush, Schodack	Delmar, East Greenbush	1,000	E2EM, E2UB, E2US	A, B, C, D	
70	Howland Hook/ Goethals Bridge	Richmond	Old Place, Port Ivory	Elizabeth (NJ)	270	E2EM, E2US, PEM	A, D	1
71	Isle of Meadows/ Fresh Kills	Richmond	Rossville	Arthur Kill	110	E2EM, PEM, E2US	A, B, D	6
72	Pralls Island/ Sawmill Creek Marsh	Richmond	Bloomfield, Chelsea	Arthur Kill	295	E2EM, E2US	A, B	6,7
73	South Beach	Richmond	South Beach	The Narrows	35	PEM, PFO, PSS	A, B, D	
74	*Franklinton Vlaie	Schoharie	Gilboa	Middleburgh	80	PAB, PUB, PEM	A, B, D	3
75	*Lamoka Lake Wetland	Schuyler	Tyrone	Wayne	150	PEM, PSS, PAB	A, B, D, E	
76	*Junius Pond	Seneca	Junius	Geneva North	55	PFO, PEM, PUB, PSS	A, D, E	
77	*Atlanta - Wayland	Steuben	Atlanta	Naples, Wayland	700	PEM, PSS, PFO, PAB	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
78	*Beaver Creek	St. Lawrence	Canton	Heuvelton	12,000	PFO, PSS, PEM, PUB	A, C, D, E	
79	*Black Creek Marsh	St. Lawrence	Hammond	Hammond	3,600	PEM, PFO, R2UB, PSS, PAB, PML	A, B, D, E	
80	*Black Lake Wetlands Complex	St. Lawrence	DePeyster	Heuvelton	14,000	PFO, PSS, PEM, PUB	A, B, C, D, E	
81	*Boland Creek	St. Lawrence	Hermon	Bigelow	4,100	PFO, PEM, PSS, R3UB, R2UB, PUB	A, C, D, E	
82	*Brandy Brook Wetland Complex	St. Lawrence	Lisbon	Waddington	18,000	PFO, PSS	A, B, C, D, E	
83	*Chippewa Creek	St. Lawrence	Hammond	Chippewa Bay	2,100	PEM, PFO, PSS, PUB, R2UB, R2AB	A, B, C, D, E	
84	Coles Creek	St. Lawrence	Waddington	Louisville	600	L1UB, PFO, PSS, PEM	A, D	
85	*Cranberry Creek	St. Lawrence	Alexandria	Alexandria Bay	437	PEM, PSS, R2UB, R2AB, R3UB, PFO, PUB	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
86	*Line Creek	St. Lawrence	Canton	Morley	600	PEM, PSS, PFO, R2UB	A, C, D, E	
87	*Acabonack Harbor	Suffolk	East Hampton	Gardiners Island West	246	E2EM, E2US	A, B, C, D, E	5
88	*Alewife and Scoy Pond Wetlands	Suffolk	Northwest Woods	Gardiners Island West	310	E2EM, PFO, PSS, E1UB, PEM	A, B, C, D	
89	*Apaucuck Point	Suffolk	Southampton	Eastport	55	E2EM, E2US	A, B, C, D, E	
90	Beaverdam Creek	Suffolk	Bellport	Bellport	150	E2EM, PFO	B, D	8
91	*Browns Point	Suffolk	Riverhead	Mattituck	20	E2EM, E2US	A, B, C, D, E	
92	*Brushes Creek	Suffolk	Southold	Mattituck	40	E2EM	A, B, C, D, E	
93	Carmans River	Suffolk	Shirley	Bellport	450	PFO, L1UB, PSS, R2UB	A, B, D	9
94	*Cases Creek	Suffolk	Riverhead	Mattituck	35	E2EM, E2US	A, B, C, D, E	
95	*Cedar Beach Creek	Suffolk	Southold	Southold	15	E2EM, E2US	A, B, C, D, E	10
96	*Cold Spring Pond	Suffolk	Southampton	Southampton	38	E2EM, E2US	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 11 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
97	Conkling Point	Suffolk	Greenport	Southold	25	E2EM, E2US	A, D	
98	*Cow Neck	Suffolk	Cow Neck	Southampton	1,200	PFO, E2EM, E2US, E1UB	A, B, C, D	11
99	Culloden Point	Suffolk	Montauk	Montauk Point	220	PSS, PFO, PUB	A, B, D	
100	Cutchogue Harbor and Wetlands	Suffolk	Cutchogue Harbor	Southampton, Southold	240	E2US, E2EM	A, D	
101	Dam Pond/ Orient Harbor	Suffolk	Orient	Orient	90	E2EM, E2US, PEM	A, D	
102	*Deep Hole Creek	Suffolk	Southold	Mattituck	15	E2EM, E2US	A, B, C, D, E	
103	Downs Creek	Suffolk	Cutchogue	Southampton, Southold	70	E2EM	A, D	
104	*Dune Road Marsh	Suffolk	Quogue	Quoque	1,500	E2EM, E2US, PEM, E1UB	A, B, C, D, E	
105	Eaton's Neck Point	Suffolk	Eaton's Neck	Lloyd Harbor	100	E2EM, E2UB, E2US	A, D	12
106	Gardiners Island	Suffolk	Gardiners Island	Gardiners Island East, Gardiners Island West	3,300	E2EM, PFO, PSS, M2US, PEM	A, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
107	*Goose Creek	Suffolk	Southold	Southold	35	E2EM, E2US	A, B, C, D, E	
108	Hashamomuck Pond	Suffolk	Hashamomuck Beach	Southold	220	E2EM	A, D	
109	*James Creek	Suffolk	Southold	Mattituck	25	E2EM, E2US	A, B, C, D, E	
110	Little Creek and Beach	Suffolk	Little Hog Neck	Southold	45	E2EM	A, B, D	
111	Lloyd Harbor	Suffolk	Lloyd Harbor	Lloyd Harbor	50	E2EM, E2US	A, B, D	
112	Long Beach Bay	Suffolk	Orient Point	Orient	350	PUB, PEM, PFO, PSS, L2EM	A, D	13
113	*Long Creek/ Mattituck Creek	Suffolk	Southold	Mattituck	35	E2EM, E2US	A, B, C, D, E	14
114	*Long Pond Greenbelt	Suffolk	Sag Harbor	Sag Harbor	270	PFO, PSS, PUB, PEM, L2EM	A, B, C, D	
115	*Ludlows Creek/ Benton Bay	Suffolk	Islip	Bay Shore East, Sayville	133	E2EM, PEM	A, B, C, D, E	
116	*Marratooka Point	Suffolk	Southold	Mattituck, Southold	20	E2EM, E2US	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 13 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
117	Moriches Bay Tidal Creeks	Suffolk	Remsemburg	Eastport	220	E2EM, E2US	A, D	
118	Mount Sinai Harbor	Suffolk	Port Jefferson	Port Jefferson	100	E2EM, E2US	A, D	
119	*Namkee Creek Additions	Suffolk	Brookhaven, Islip	Sayville	15	E2EM	A, B, C, D, E	14
120	*New Suffolk	Suffolk	Southold	Southampton	150	E2EM, E2US	A, B, C, D, E	
121	*North Haven	Suffolk	Southampton	Greenport	96	E2EM, E2US	A, B, C, D, E	
122	Old Field Beach	Suffolk	Port Jefferson Harbor	Port Jefferson	75	E2US, E2EM	A, D	
123	*Pattersquash Creek	Suffolk	Brookhaven	Moriches, Pattersquash Island	102	E2EM, E2US	A, B, C, D, E	14
124	*Peconic River	Suffolk	Riverhead	Riverhead, Wading River	160	PEM, PSS, PFO, PUB, R2UB, E2EM	A, B, C, D	15
125	*Reeves Bay/ Peconic River Complex	Suffolk	Riverhead, Southampton	Mattituck, Riverhead	160	E2EM, E2US	A, B, C, D, E	
126	*Reeves Creek	Suffolk	Riverhead	Mattituck	12	E2EM, E2US	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
127	Richmond and Corey Creeks	Suffolk	Great Hog Neck	Southold	70	E2EM, E2US	A, D	
128	Robins Island	Suffolk	Southold	Southampton	450	E2US, PFO, PEM	A, D	16
129	*Scallop Pond/ Sebonac Creek	Suffolk	Southampton	Southampton	430	E2EM, E2US	A, B, C, D, E	
130	*Sea Cove Lane	Suffolk	Riverhead	Mattituck	17	E2EM, E2US	A, B, C, D, E	
131	*Shinnecock Bay Barrier Beach	Suffolk	Southampton	Shinnecock Inlet	402	E2EM, E2US	A, B, C, D, E	
132	Southampton Beach	Suffolk	Southampton	Shinnecock Inlet	230	E2EM, E2US	A, D	
133	*Squires Pond	Suffolk	Southampton	Southampton	32	E2EM, E2US	A, B, C, D, E	17
134	*Stillman Creek Additions	Suffolk	Brookhaven	Sayville	32	E2EM, E2US	A, B, C, D, E	
135	*Stokes-Poges	Suffolk	Southampton	Eastport	35	E2EM, E2US	A, B, C, D, E	
136	Stony Brook Harbor	Suffolk	Brookhaven	Saint James	600	E2EM, E2US	A, D	
137	Swan River	Suffolk	Patchogue	Bellport	15	E2EM, E1UB	B, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF NEW YORK (PAGE 15 of 16)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
138	Towd Point	Suffolk	North Sea	Southampton	90	E2EM, E2US	A, D	18
139	Wading River Marsh	Suffolk	Wading River	Wading River	200	E2EM	A, D	19
140	*Bashakill	Sullivan	Mamakating	Wurtsboro, Yankee Lake	700	PEM, PUB, PFO, RUB, PAB	A, B, C, D, E	1
141	*Esopus Estuary	Ulster	Saugerties	Saugerties	45	E2FO, E2EM, E2US, E2UB	A, B, C, D, E	
142	*Rondout Creek Mouth	Ulster	Esopus, Kingston, Ulster	Kingston East	30	E2RS, E2EM, E2UB	A, B, C, D, E	
143	*Earltown Corp. (Great Bear Swamp)	Warren	Queensbury	Glens Falls, Hudson Falls	664	PFO, PEM	A, D, E	
144	*Glen Lake Fen	Warren	Queensbury	Glens Falls	35	PEM, PSS	A, E	
145	*East Bay (NY and VT)	Washington	Dresden, White Hall	Thorn Hill, Whitehall	400	RUB, PEM, PAB, PFO	A, B, C, D, E	1
146	*Tamarack Swamp	Washington	Argyle	Hartford	1,000	PEM, PFO	A, C, D, E	
147	*Northern Montezuma	Wayne	Savannah	Montezuma	10,000	PFO, PEM, PSS, PUB, RUB	A, B, C, D, E	

148	Otter Creek	Westchester	Mamaroneck	Mamaroneck	60	E2EM	A, D
149	*Premium Lake	Westchester	Larchmont	Mount Vernon	30	E2EM, E2US	A, B, C, D, E
150	*Java Lake	Wyoming	Arcade	Johnsonburg	150	L1UB, PEM, PFO, PSS	A, B, C, D

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of New York provided in Appendix B.

Notes

1 Partly owned by the New York State Department of Environmental Conservation; the site is also on the State's active freshwater wetland acquisitions list.
2 The site is an active freshwater acquisition project of the State; however, none of the land has yet been acquired.
3 State owns part of this site.
4 Partly owned by the Audubon Society.
5 The State is actively pursuing acquisition of this site.
6 The Trust for Public Land, in cooperation with the New York City Audubon Society, is working on a preservation strategy for three islands in the Arthur Kill River in New York City and for a myriad of freshwater and tidal wetlands in the northwest corner of Staten Island, New York. This site is included in the "Harbor Herons" project.
7 Part of this site is designated New York City parkland.
8 Adjacent to Wertheim National Wildlife Refuge.
9 Upriver of Wertheim National Wildlife Refuge.
10 Adjacent to land preserved by Suffolk County.
11 U.S. Fish and Wildlife Service has been actively negotiating the sale of this property.
12 Adjacent to property owned by the U.S. Coast Guard.
13 Adjacent to Orient Point State Park.
14 Adjacent to land owned by the State Department of Environmental Conservation.
15 Proposed New York State Wild and Scenic River.
16 The Nature Conservancy has been actively negotiating purchase of this site.
17 Adjacent to land owned by the Town of Southampton for preservation purposes.
18 Adjacent to Morton National Wildlife Refuge.
19 Adjacent to Shoreham Nuclear Power Plant.

October 1990

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 1 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Cessna Marsh	Bedford	Imlertown	Everett West	14	PEM	A, B, D, E	
2	*Imler Swamp	Bedford	Imler	Alum Bank	12	PFO	A, D, E	
3	*Osterburg Marsh	Bedford	Osterburg	Alum Bank	25	PSS, PEM	A, B, C, D, E	
4	*Waterside Wetland	Bedford	Waterside	New Enterprise	50	PEM	A, D, E	
5	*Woodbury Seep	Bedford	Woodbury	Hopewell	42	PEM	A, B, C, D, E	
6	*Oysterville Creek Drainage	Berks	Lobachville, Pikeville	Manatawny	1	PEM	A, D	
7	*Bald Eagle Creek	Blair	Bald Eagle, Snyder	Tyrone	50	PFO, PEM, PSS	A, D, E	
8	*Henrietta Marsh	Blair	Henrietta	Martinsburg	20	PSS, PEM	A, B, D, E	
9	*Sproul Marsh	Blair	Sproul	Roaring Spring	100	PFO, PSS, PEM	A, B, D	
10	*Maple Beach	Bucks	Beverly, Bristol	Bristol	190	R1EM, R1AB	A, B, C, D	
11	*Mud Island	Bucks	Beverly	Beverly	38	R1EM	A, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
12	*Neshaminy Creek	Bucks	Beverly	Beverly	40	R1EM, R1AB, R1US	A, B, C, D	
13	*Penn Warner Club	Bucks	Tullytown	Trenton West	5	R1EM, R1AB, R1US	A, B, C, D, E	
14	*Quakertown Marsh, Nearby Sites	Bucks	Quakertown	Quakertown	865	PSS, PFO, PEM	A, B, D, E	1
15	*Tulleytown Cove	Bucks	Tullytown	Trenton West	145	R1EM, R1AB, R1US	A, B, C, D, E	
16	*Slippery Rock Creek	Butler	West Sunbury	West Sunbury	170	PFO, PSS, PEM, PUB	A, B, D	
17	*Little Conemaugh River	Cambria	Cresson	Cresson	130	PFO, PSS, PEM, PUB	A, B, D	
18	*Bald Eagle Valley	Centre	Bellefonte, Boggs, Howard	Bellefonte, Mingoville	500	PFO, PSS, PEM	A, C, D, E	
19	*Millbrook Marsh	Centre	State College	State College	25	PEM	A, C, D, E	
20	*Ten Acre Pond	Centre	State College	Julian, Pine Grove Mills	20	PEM, PSS, PUB	A, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 3 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
21	*Marsh Creek	Chester	Downingtown	Downingtown, Malvern	400	PEM, PSS, PFO, PUB	A, C, D, E	
22	*Clearfield Creek and Tributaries	Clearfield	Becarria, Bigler, Ramey	Ramey	500	PFO, PSS, PEM	A, D, E	
23	*Sandy Lick Creek	Clearfield	Dubois	Dubois, Luthersburg	200	PEM, PSS, PUB, PFO	A, C, D	
24	*Shawville Swamp	Clearfield	Bradford, Shawville	Clearfield, Lecontes Mills	30	PFO, PSS, PEM	A, C, D	
25	*West Branch Susquehanna River	Clearfield	Mahaffey	Mahaffey, Westover	500	PFO, PSS, PEM, PUB	A, B, D	
26	*Tamarack Swamp	Clinton	Leidy, Tamarack	Tamarack	179	PFO, PSS, PEM	A, D, E	
27	*Brown's Cranberry Bog	Crawford	Harmonsburg	Harmonsburg	160	PEM, PSS	A, B, D, E	
28	*Clear Lake Wetlands	Crawford	Spartansburg	Spartansburg	375	PFO, PSS, PEM, PUB	A, B, D	
29	Conneaut Lake	Crawford	Conneaut Lake	Conneaut Lake, Harmonsburg	200	PEM	A, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
30	*Meadville Junction	Crawford	Hayfield, Meadville	Meadville	500	PFO, PSS, PEM	A, B, C, D	
31	*West Branch Conneaut Creek	Crawford	Linesville	Beaver Center, Linesville	26	RUB, PEM	A, D	
32	*Big Spring Creek	Cumberland	Newville, W. Pennsboro	Newville	10	PEM, R2UB	A, B, D, E	
33	*Letort Spring Run	Cumberland	Carlisle, Middlesex	Carlisle	100	PEM, PSS, PFO, R2UB	B, D, E	
34	*Midmont Swamp	Elk	Jones, Midmont	Glen Hazel	100	PFO, PSS, PEM	A, B, C, D, E	
35	*Beaver Run Seep/Titus Bog	Erie	Beaver Dam	Union City	350	PSS, PEM	A, B, D, E	
36	*Boleratz Bog	Erie	Union City	Union City	275	PFO, PSS, PEM	A, D, E	2
37	*Edinboro Fen	Erie	Edinboro	Edinboro North	30	PSS, PEM	A, B, D	
38	*Lake Pleasant Outlet	Erie	Waterford	Hammett, Waterford	700	PSS, PEM, PAB, RUB	A, D, E	
39	*Elk Creek Slump	Erie	Lake City	Fairview, Fairview SW	100	PEM	A, B, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 5 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
40	*West Branch French Creek	Erie	Wattsburg	Wattsburg	200	RUB, PEM	A, D	
41	*Markleysburg Bog	Fayette	Henry, Markleysburg	Friendsville (MD-PA-WVA)	200	PEM, PSS, PFO, PUB	A, D, E	
42	*Unnamed bog	Fayette	Farmington	Fort Necessity	10	PSS, PFO	A, D, E	
43	*English Swamp	Lackawanna	Sterling	Sterling	70	PFO, PSS, PUB	A, D, E	
44	*Adamstown Marsh	Lancaster	Adamstown, Brecknock	Terre Hill	50	PEM, PFO, PSS	A, D, E	
45	*Little Beaver Creek	Lawrence	Bessemer	Bessemer, New Galilee	350	PEM, PFO, PUB	A, B, D	
46	*Fringed Gentian Fens	Lawrence	New Castle, Slippery Rock	New Castle South	50	PEM, PSS	A, C, D, E	
47	Mitchel Fen	Lawrence	Harlansburg	Harlansburg, Slippery Rock	20	PEM, PSS	A, D, E	
48	*Plaingrove Fen/ Grange Hall Fen	Lawrence	Harlansburg	Harlansburg	35	PEM, PSS	A, D, E	
49	Hosensack Creek Drainage	Lehigh, Montgomery	East Greenville	East Greenville	600	PEM, PSS	A, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
50	*Lee's Swamp	Luzerne	Harveys Lake	Harveys Lake	140	PFO, PSS, PEM	A, B, D	
51	*Lehman Swamp	Luzerne	Lehman	Harveys Lake	70	PFO, PSS	A, B, D	
52	*Lily Lake	Luzerne	Hanover, Nanticoke	Nanticoke	160	LUB, PEM, PSS	A, B, C, D, E	
53	*The Sinks	Lycoming	Brady, Montoursville	Montoursville South	100	PUB, PEM	A, D, E	
54	*Allegheny River Wetlands	McKean	Eldred	Bullis Mills, Eldred	6,000	PFO, PSS, PEM, PUB, R2UB	A, B, C, D, E	
55	*Backus Swamp	McKean	Cyclone, Keating	Cyclone	132	PFO, PSS, PEM, PUB	A, D, E	
56	*Catherine Swamp	McKean	Hazel Hurst	Hazel Hurst	162	PFO, PSS, PEM, PUB	A, B, D, E	
57	*Barmore Run	Mercer	Grove City	Grove City, Mercer	270	PEM, PSS, PFO	A, D	
58	*Beaver Run	Mercer	Greenfield	Greenfield	210	PFO, PEM, PUB	A, D	
59	*Black Run	Mercer	Grove City	Grove City, Slippery Rock	160	PEM, PSS, PFO	A,D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
60	*Cranberry Swamp	Mercer	Grove City	Grove City	78	PUB, PSS	A, D	
61	*Fowler Bog	Mercer	Carlton	New Lebanon	35	PSS, PEM	A, B, D, E	
62	*Grove City Wetlands	Mercer	Grove City, Pine	Grove City	195	PEM, PSS, PFO	A, D, E	
63	*Halfmoon Swamp	Mercer	Fairview	Jackson Center	100	PFO	A, D	
64	*K O Junction	Mercer	K O Junction	Greenville East	20	PFO, PSS, PEM	A, C, D, E	3
65	*Lake Wilhelm Headwaters	Mercer	Sheakleyville	Hadley	1,000	PEM, PSS, PUB	A, B, C, D, E	
66	*Mercer Bog	Mercer	Hoagland	Greenfield	30	PSS, PEM	A, D, E	
67	*Neshannock Creek	Mercer	Mercer	Mercer	470	PFO, PEM, PSS	A, B, C, D, E	
68	*Osgood Swamp	Mercer	Osgood	Greenville, Greenville West	50	PFO, PSS, PEM, PUB	A, D, E	
69	*Otter Creek Wetlands	Mercer	Mercer	Jackson Center, Mercer	150	PFO, PSS, PEM, R2UB	A, D, E	
70	*Pine Swamp	Mercer	Sandy Lake	Sandy Lake	270	PFO, PEM	A, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
71	*Sandy Lake	Mercer	Sandy Lake	Sandy Lake	400	PUB, PFO, PSS, PEM	A, B, C, D, E	
72	*Schollards Wetlands	Mercer	Drake, Springfield	Harlansburg	233	PEM, PSS, PFO, PAB	A, D, E	
73	*Swamp Root	Mercer	Swamproot	Grove City	100	PFO, PSS	A, D	
74	Swamp Run	Mercer	Grove City	Grove City, Slippery Rock	300	PEM, PSS, PFO	A, D	
75	*Wheatland	Mercer	Wheatland	Sharon East	300	PFO, PSS	A, B, C, D	
76	*Wolf Creek	Mercer	Grove City, Wolf Creek	Grove City	300	PFO, PSS	A, D, E	
77	*Acquishicola Creek Pipeline	Monroe	Windgap	Windgap	30	PEM	A, D, E	
78	*Circle Bog	Monroe	Long Pond	Pocono Pines	105	PSS, PEM, PFO	A, D, E	
79	*Lost Lakes and Halfmoon Lake	Monroe	Pocono Pines	Pocono Pines	1,400	PSS, PEM, PUB, PFO	A, D, E	
80	*Long Pond	Monroe	Long Pond	Blakeslee, Pocono Pines	2,000	PFO, PEM, PSS, PUB	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 9 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
81	*Mansfield Fen	Monroe	Stroud, Stroudsburg	Stroudsburg	10	PEM	A, D, E	
82	*Two Mile Run Swamp	Monroe	Blakeslee, Tobyhanna	Blakeslee, Thornhurst	450	PSS, PEM, PUB, PFO	A, B, C, D, E	
83	*Wagners Bog	Monroe	Blakeslee, Tobyhanna	Blakeslee	75	PSS, PEM, PUB, PFO	A, C, D, E	
84	*Warnertown Swamp	Monroe	Coolbaugh, Warnertown	Tobyhanna	200	PSS, PEM, PUB, PFO	A, B, C, D, E	
85	*Wigwam Run	Monroe	Bartonsville	Mount Pocono	40	PFO, PSS	A, C, D	
86	*Green Lane Reservoir	Montgomery	East Greenville	East Greenville, Sassamansville	150	PFO, PEM, PSS, PUB	A, B, D	
87	*Mt. Bethel Fen	Northampton	Mt. Bethel, Upper Mt. Bethel	Portland	120	PFO, PEM, PSS	A, D, E	
88	*Montandon Marsh	Northum-berland	Chillisquaque	Northumberland	15	PEM	A, D, E	
89	*Sawkill Mud Pond	Pike	Edgemere	Edgemere, Shohola	100	PSS, PEM, PUB, PFO	A, B, C, D, E	
90	Twelve Mile Pond	Pike	Porter, Porters Lake	Twelvemile Pond	35	PSS, PEM, L1UB	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
91	*Tower City Wetlands	Schuylkill	Porter, Tower City	Tower City	350	PEM, PSS, PFO	A, B, C, D, E	
92	*Buck Run	Somerset	Shanksville	Stoystown	55	PFO	A, D	
93	*Buckstown Swamp	Somerset	Buckstown	Central City	10	PSS	A, D, E	
94	*Buffalo Creek	Somerset	Berlin	Berlin	40	PSS	A, B, D	
95	*Isers Run	Somerset	Elk Lick, Markleton	Markleton	300	PFO, PEM, PSS, LUB	A, B, D, E	
96	*Laurel Hill Creek	Somerset	Bakersville, Jefferson	Bakersville	450	PSS, PFO	A, B, D, E	
97	*Roaring Run	Somerset	Boswell, Jenner	Boswell	450	PFO, PSS, PEM	A, D, E	
98	*Sandy Hollow	Somerset	Berlin, Stony Creek	Berlin	50	PEM, PSS, PFO	A, D, E	
99	*Summit Station	Somerset	Somerset	Somerset	100	PSS, PEM, PUB	A, D	
100	*Unnamed Wetland	Somerset	Markleton	Markleton	35	PFO, PSS	A, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 11 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
101	*Big Rouse Pond	Sullivan	Colley, Lopez	Lopez	118	L1UB, PAB, PSS	A, B, C, D, E	
102	*Kettle Creek Fen	Sullivan	Eagles Mere, Shrewsbury	Eagles Mere	30	PEM, PSS, PFO	A, B, C, D, E	
103	*Laporte Bog	Sullivan	Laporte	Laporte	165	PSS, PUB, PFO	A, D, E	
104	*Little Rouse Pond	Sullivan	Lopez	Lopez	20	PSS, PEM	A, D, E	
105	*Ball Lake	Susquehanna	Ararat, Thompson	Thompson	65	PUB, PEM, PSS, PFO	A, B, D, E	
106	*Arnot Bog	Tioga	Arnot, Bloss	Cherry Flats	20	PEM, PSS	A, C, D, E	
107	*Wellsboro Junction	Tioga	Delmar, Wellsboro	Antrim, Keeneyville	150	PFO, PSS, PEM, PUB	A, B, D, E	
108	*Tippery Wetland	Venango	Tippery	Cranberry, Oil City	125	PFO, PSS, PEM, PUB	A, D, E	
109	*Arnot Run	Warren	Clarendon, Meade	Clarendon, Sheffield	400	PFO, PSS	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
110	*Chandlers Valley	Warren	Chandlers, Valley, Sugar Grove	Sugar Grove	590	PEM, PSS, PFO	A, B, D, E	
111	*Bigelow Lake	Wayne	Mt. Pleasant, Poyntelle	Orson	110	L1UB, PFO, PEM	A, B, C, D, E	
112	*Farrell Corners Fen	Wayne	Farrell Corners, Scott	Starrucca	60	PEM, PSS, PFO	A, D, E	
113	*Flat Rock Bog	Wayne	Cold Spring, Mt. Pleasant	Aldenville	40	PEM, PSS, PFO	A, D, E	
114	*Lake Como Mud Pond	Wayne	Lake Como, Mt. Pleasant	Lake Como	200	PEM, PSS, PUB	A, B, D, E	
115	*Lake Hiawatha	Wayne	Starlight	Hancock, Starrucca	80	L1UB, PFO	A, B, C, D, E	
116	*Lakewood Bog	Wayne	Lakewood, Preston	Lake Como	60	PEM, PSS, PFO	A, D, E	
117	*Little Bigelow Lake	Wayne	Mt. Pleasant, Pleasant Mount	Orson, Lake Como	26	PSS, PEM, PFO, PUB	A, B, C, D, E	
118	*Little Hickory Lake	Wayne	Lakewood, Preston	Orson	60	L1UB	A, B, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE COMMONWEALTH OF PENNSYLVANIA (PAGE 13 of 13)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
119	*Lovelace Pond	Wayne	Girdland, Oregon	Galilee	30	PEM, PSS, PFO, PUB	A, D, E	
120	*Orson Glade	Wayne	Orson, Preston	Orson	200	PEM, PSS, PFO	A, D, E	
121	*Prompton Bog	Wayne	Dyberry, Prompton	Honesdale	40	PEM, PSS, PFO	A, D, E	
122	*Poyntelle Lake	Wayne	Lakewood, Preston	Orson	77	L1UB	A, B, C, D, E	
123	*Spruce Pond Wetlands	Wayne	Lake Como, Preston	Lake Como	90	PSS, PEM, PUB, PFO, R3UB	A, B, C, D, E	
124	*Wilcox Wetlands	Wayne	Hollisterville, Salem, Sterling	Lake Ariel, Sterling	230	PEM, PSS, PFO, RUB	A, B, C, D, E	
125	*Scmitthenner Lake	Wyoming	Bellasylva	Dutch Mountain	30	PSS, PEM, PUB, PFO	A, D, E	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Pennsylvania provided in Appendix B.

Notes

1 Uncommon type for southeast Pennsylvania.
2 Pennsylvania Game Commission owns bog.
3 Good example of habitat type.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF RHODE ISLAND (PAGE 1 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Hundred Acre Cove	Bristol	Barrington	East Providence	200	E1UB, E2US, E2EM	A, B, D, E	
2	Palmer River	Bristol	Barrington	Bristol	700	E1UB, E2US, E2EM	A, B, C, D, E	1
3	*Little Grass Ponds (Great Grassy, Little Grassy, Whitford)	Kent	Coventry	Coventry Center	200	PFO, PUB, PSS, PEM	A, B, D, E	
4	*Mishnock Swamp	Kent	Coventry	Crompton	375	PFO, PSS, PEM	A, D, E	
5	Moosup River	Kent	Coventry	Coventry Center, Oneco	160	R3, PFO, PSS	A, B, D	
6	*Brown Point Marsh	Newport	Little Compton	Tiverton	85	PSS	A, D, E	
7	*Coastal Ponds (Briggs, Long, Quicksand)	Newport	Little Compton	Sakonnet Point, Tiverton	500	E1UB, E2US, E2EM	A, B, D, E	
8	*Donovan Marsh	Newport	Little Compton	Tiverton	85	E2EM	A, C, D, E	
9	*Fogland Point Marsh	Newport	Tiverton	Tiverton	46	E2EM	A, C, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF RHODE ISLAND (PAGE 2 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
10	Sapowet Marsh	Newport	Tiverton	Tiverton	275	E2EM, E2US, E1UB	A, B, C, D, E	2
11	*Lonsdale Marshes	Providence	Central Falls, Cumberland, Lincoln	Pawtucket	300	PEM, PSS, PFO, PUB, R2, L1	A, B, C, D, E	
12	*Factory Pond	Washington	South Kingston	Kingston	40	L1UB, PFO, PSS	A, B, D, E	
13	Grassy Pond	Washington	Hopkinton	Voluntown	90	PFO, PSS, PEM, PUB	A, D, E	
14	Green Hill Pond	Washington	South Kingston	Kingston	500	E1UB, E2EM	A, D, E	
15	Hunt/Potowomot Rivers	Washington	North Kingston	East Greenwich	120	R2, R3, PFO, PSS	A, B, D	
16	McGowan (Chapman) Swamp	Washington	Westerly	Ashaway, Watch Hill	600	PFO, PSS, PEM	A, C, D, E	
17	*Ninigret Pond	Washington	Charlestown	Carolina, Quonochontaug	550	E1UB, E2UB, E2EM	A, B, D, E	3

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF RHODE ISLAND (PAGE 3 of 4)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
18	Pawcatuck/Wood Rivers	Washington	Charlestown, Exeter, Hopkinton, Richmond, South Kingston, Westerly	Ashaway, Carolina, Hope Valley	600	R1, R2, R3, PFO, PSS	A, B, D	
19	*Pettaquamscutt River	Washington	Narragansett	Narragansett Pier	600	E1UB, E2US, E2EM	A, B, D, E	
20	Phantom Bog	Washington	Hopkinton	Ashaway	300	PFO, PSS	A, D, E	
21	*Potter Pond/ Fresh Pond	Washington	South Kingston	Kingston	130	E1UB, E2US, E2EM	A, B, D, E	
22	*Quonochontaug Ponds	Washington	Charlestown	Quonochontaug	250	E2EM, E2US	A, C, D, E	
23	*Trustom Pond/ Card Pond	Washington	South Kingston	Kingston	400	E1AB, E1UB, L2UB, PEM, PSS	A, D, E	4
24	*Winnapaug Pond	Washington	Westerly	Watch Hill	1,100	M2US, E1UB, E2US, E2EM	A, B, D, E	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Rhode Island provided in Appendix B.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF RHODE ISLAND (PAGE 4 of 4)

Notes

1 A significant part of this river system continues north of Rhode Island into Massachusetts. Degradation of sites in Massachusetts would have significant impacts on Rhode Island's downstream segments.
2 Part of this site is owned by the Rhode Island Division of Fish and Wildlife.
3 Both the State and the U.S. Fish and Wildlife Service own part of the shoreline around this pond.
4 Part of this site is located in the U.S. Fish and Wildlife Service's Trustom Pond National Wildlife Refuge.

October 1990

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 1 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	Bristol Pond	Addison	Bristol	Bristol	500	L1, L2	A, B, D, E	
2	*Cornwall Swamp	Addison	Cornwall	Cornwall	1,250	PFO, PSS, PEM	A, D, E	1
3	*Dead Creek Marshes	Addison	Addison, Bridport, Panton	Port Henry	400	PEM, R2, PFO	A, B, D, E	
4	*East Creek Marshes	Addison	Orwell	Orwell	1,250	PEM, R2EM	A, B, C, D, E	
5	Hospital Creek	Addison	Addison	Port Henry	300	PEM, PUB, R2EM	A, B, C, D, E	
6	*Larabee Point Marsh	Addison	Shoreham	Orwell	50	PEM, PSS	A, B, D, E	
7	Leicester River Swamp	Addison	Leicester, Salisbury	Cornwall	200	PFO, PSS, PEM	A, B, D, E	
8	Lemon Fair River Flats	Addison	Cornwall, Shoreham, Weybridge	Bridport, Cornwall	300	PEM, PSS	A, B, C, D, E	
9	*Lewis Creek Marshes	Addison	Ferrisburg	Port Henry	280	PEM, R2EM	A, B, C, D, E	
10	Little Otter Creek Marshes	Addison	Ferrisburg	Port Henry	650	PEM, R2EM	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
11	*Otter Creek Marshes	Addison	Cornwall, Ferrisburg, Leicester, Middlebury, Panton, Salisbury	Cornwall, Port Henry	900	PEM, R2, PFO	A, B, C, D, E	
12	*Tremble Creek	Addison	Addison	Port Henry	280	PEM, R2EM	A, B, D, E	
13	Dorset Marsh	Bennington	Dorset	Dorset	200	PEM, PSS	A, B, D, E	
14	Delta Park	Chittenden	Colchester	Burlington	60	PEM, PSS, PFO	A, C, D, E	
15	*Intervale	Chittenden	Burlington, Colchester	Burlington	150	PEM, PSS	A, C, D, E	
16	*Kimball/Thorpe Brook Marshes	Chittenden	Charlotte	Mount Philo	75	PEM, PSS, PFO, R2	A, D, E	
17	LaPlatte River Marshes	Chittenden	Shelburne	Mount Philo	200	PEM, PSS, R2EM	A, B, C, D, E	
18	*Munson Flats	Chittenden	Colchester	Colchester	300	PEM, PSS	A, B, C, D, E	
19	Williston Bog	Chittenden	Williston	Essex Junction	30	PEM, PSS	A, D, E	
20	*Winooski River Marshes	Chittenden	Colchester	Colchester Point	200	PEM, R2, PSS	A, B, C, D, E	2

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 3 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
21	*Clyde River Marshes	Essex	Brighton, Charlestown	Island Pond	1,200	PEM, PSS, R3	A, D	
22	Ferdinand Bog	Essex	Ferdinand	Averill, Island Pond	800	PEM, PSS, PFO	A, B, D, E	
23	*Nulhegan Pond	Essex	Brighton	Island Pond	45	L1, L2, PSS, PEM	A, D	
24	*Victory Basin	Essex	Victory	Burke	400	PEM, PSS, PFO	A, D	
25	Yellow Bogs	Essex	Bloomfield	Averill	1,000	PEM, PSS, PFO	A, B, D, E	
26	Carman's Swamp Marsh	Franklin	Swanton	Highgate Center	30	PEM, PSS	A, B, D	
27	*Fairfield Swamp	Franklin	Fairfield	Enosburg Falls	1,000	PFO, PSS, PEM	A, D, E	
28	Franklin Bog	Franklin	Franklin	Enosburg Falls	120	PEM, PSS	A, D, E	
29	*Lake Carmi Bog	Franklin	Franklin	Enosburg Falls	140	PEM, PSS, PFO	A, D, E	
30	*Rock River Marshes	Franklin	Highgate	Highgate Center	200	PEM, PSS, R2EM	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
31	Kelly Bay Marshes	Grand Isle	Alburg	Rouses Point	300	PEM, L1, L2	A, B, D	
32	*Lake Champlain Islands - Marshes	Grand Isle	Grande Isle, North Hero, South Hero	Colchester Point, North/South Hero, Rouses Point, St. Albans Bay	1,000	L1UB, L2EM, L2AB, L2UB	A, B, D, E	
33	*Mud Creek	Grand Isle	Alburg	East Alburg	300	PEM, PSS, PFO	A, B, D, E	
34	Palmer Swamp	Grand Isle	Alburg	Rouses Point	400	PFO, PSS, PEM	A, B, D	3
35	South Alburg Swamp	Grand Isle	Alburg	Rouses Point	100	PEM, PSS, PFO	A, D, E	
36	*South Hero Marsh	Grand Isle	South Hero	South Hero	100	L1, L2AB, L2EM	A, B, D, E	
37	*The Marsh	Grand Isle	Isle La-Motte	North Hero	300	PEM, PSS, L2EM	A, B, D, E	
38	*Bear Swamp	Lamoille	Wolcott	Hardwick	200	PEM, PSS, PFO	A, B, C, D, E	
39	Belvidere Pond	Lamoille	Eden	Hyde Park	100	L1, L2	A, D, E	
40	Bog Pond	Orange	Fairlee	Fairlee	10	PEM, PSS	A, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 5 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
41	*Lake Morey Wetlands	Orange	Fairlee	Fairlee	40	PEM, PSS, L2	A, B, D, E	
42	Lamson Pond	Orange	Brookfield	Barre	30	L1, L2, PUB, PEM	A, D	
43	*Black River Marsh	Orleans	Coventry, Newport	Memphremagog	450	R2UB, PEM, PFO, PSS	A, B, C, D, E	4
44	Buck Flat Marsh	Orleans	Charlestown	Island Pond	600	PEM, PSS	A, B, D, E	
45	Hall's Creek Marshes	Orleans	Newport	Memphremagog	150	R2EM, PEM	A, B	
46	John's River Marsh	Orleans	Derby	Memphremagog	100	R2EM, PEM	A, B, D, E	
47	*Southern Lake Memphremagog Wetlands	Orleans	Coventry, Newport	Memphremagog	950	L2UB, PEM, L2EM, PFO, PSS, R2UB	A, B, D, E	4
48	Beaver Meadow	Rutland	Fair Haven	Poultney	80	PUB, PEM	A, B, D	
49	Billings Marsh	Rutland	West Haven	Benson	400	PEM, PSS	A, B, D	
50	*Lake Bomoseen Marsh	Rutland	Castleton, Hubbardton	Bomoseen	300	PEM, L2	A, B, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 6 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
51	*Lake Hortonia Marshes	Rutland	Hubbardton, Sudbury	Sudbury	150	L1, PEM	A, B, D, E	
52	Little Pond	Rutland	Wells	Wells	200	L1, L2	A, B	
53	Narrows of Dresden	Rutland	West Haven	Benson	150	PEM, PSS	A, B, D	
54	*Otter Creek Marshes	Rutland	Brandon, Pittsford, Proctor	Brandon, Proctor	300	PFO, PEM, R2SB, PSS	A, B, D	
55	*Parsons Mill Pond	Rutland	Benson	Benson	100	PEM, PSS, PFO	A, B, D, E	
56	Scanlon Bog	Rutland	Brandon	Benson	50	PEM, PSS	A, D, E	
57	*Tinmouth Channel	Rutland	Tinmouth	Middletown Springs	200	R2EM, PEM, PSS	A, B, C, D, E	
58	*West Rutland Marshes	Rutland	West Rutland	West Rutland	500	PEM, PSS, PUB	A, D	
59	*Berlin Pond Marsh	Washington	Berlin	Barre West	300	PEM, PSS, PUB	A, C, D, E	
60	*Chickering Bog	Washington	Calais	Plainfield	20	PEM, PSS, PFO	A, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 7 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
61	Coits Pond	Washington	Cabot	Plainfield	50	L1, L2	A, B, D	
62	Marshfield Pond	Washington	Marshfield	Plainfield	400	L1, L2	A, B, D	
63	Molly's Falls Reservoir	Washington	Cabot	Plainfield	400	L1, L2	A, B, D	
64	Burbees Pond	Windham	Windham	Saxtons River	30	L1, L2	A, C, D, E	
65	Gale Meadows	Windham	Londonderry	Londonderry	30	PEM	A, B, E	
66	*Gates Pond	Windham	Whitingham	Wilmington	25	PEM, PSS, PFO, L2EM	A, B, E	
67	*Herrick's Cove	Windham	Rockingham	Saxtons River	60	L2EM, PEM, PUB	A, B, C, D, E	
68	Hunt's Meadow	Windham	Brattleboro	Brattleboro	125	PEM, PSS	A, B, C, D	
69	Lowell Lake	Windham	Londonderry	Londonderry	100	L1, L2	A, B, C, D, E	
70	*Retreat Meadows	Windham	Brattleboro	Brattleboro	55	R2EM, PEM, PSS	A, B, C, D, E	
71	Ryder Pond	Windham	Whitingham	Wilmington	20	L1, L2	A, B, E	
72	*Mill Pond	Windsor	Windsor	Claremont	30	PEM, L2EM, PUB	A, B, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VERMONT (PAGE 8 of 8)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
73	*Reading Bog	Windsor	Reading	Woodstock South	40	PEM, PSS, PFO	A, E	
74	South Reading Beaver Pond	Windsor	Reading	Woodstock South	40	PEM, PUB	A, B	

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of Vermont provided in Appendix B.

Notes

1 This site is a National Natural Landmark.
2 The National Fish and Wildlife Foundation has awarded a challenge grant to the Vermont Nature Conservancy to purchase 410 acres of wetlands and riparian forests at the mouth of the Winooski River. One of the groups participating in the purchase is the Vermont Department of Fish and Wildlife.
3 Several acres in this site were recently filled.
4 A wetland parcel at this site was recently purchased with State Duck Stamp money.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 1 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	Baileys Ridge	Accomack	Parksley	Parksley	160	E2SS, E2EM	A, B, C, D	
2	Big Marsh Complex	Accomack	Deep Creek	Chesconessex	2,680	E2EM, E2US, E2SS	A, B, C, D	
3	Byrds Marsh	Accomack	Bloxom	Parksley	870	E2EM, E2FO	A, B, C, D	
4	Cedar Island	Accomack	Onley	Accomac, Metomkin Inlet, Wachapreague	4,300	E2EM, E2US	A, B, C, D	
5	Chincoteague Interior Swale Wetlands	Accomack	Chincoteague	Chincoteague East, Chincoteague West	300	PFO, PSS, PEM	A, B, C, D	
6	Drummonds Millpond	Accomack	Parksley	Parksley	150	PEM, PUB	A, B, C, D	
7	Flannegan Point Marsh/Custis Cove Marsh	Accomack	Parksley	Parksley	640	E2SS	A, B, C, D	
8	Fox and Little Fox Islands	Accomack	Bloxom	Great Fox Island, Tangier Island	110	E2EM, E2US	A, B, C, D	
9	Freeschool Marsh	Accomack	Saxis	Saxis	3,840	E2EM, E2FO, E2SS, E2US	A, B, C, D	
10	Hacks Neck	Accomack	Pungoteague	Nandua Creek	400	E2EM, E2US, PFO	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
11	Halfmoon Island/ Webb Island	Accomack	Parksley	Parksley	120	E2SS, E2EM, E2US	A, B, C, D	
12	Hyslop Marsh	Accomack	Exmore	Jamesville	820	E2EM, E2US	A, B, C, D	
13	Marks Island/ Jacks Island	Accomack	Parksley	Parksley	3,080	E2EM, E2US	A, B, C, D	
14	Metompkin Island	Accomack	Accomac	Bloxom, Metomkin Inlet	6,600	E2EM, E2US	A, B, C, D	
15	Parkers Marsh	Accomack	Onancock	Pungoteague	1,050	E2EM, E2SS, E2FO	A, B, C, D	1
16	Pitts Creek Marsh	Accomack	Oak Hall	Hallwood, Saxis	1,150	E2EM, E2FO	A, B, C, D	
17	Scuitkill Neck Marsh Complex	Accomack	Pungoteague	Pungoteague	570	E2EM, E2US, E2FO	A, B, C, D	
18	Smith Island Complex	Accomack	Ewell	Ewell (MD/VA)	980	E2EM, E2US	A, B, C, D	
19	Tangier Island Complex	Accomack	Tangier	Tangier Island	1,000	E2EM, E2SS	A, B, C, D	
20	Watts Island	Accomack	Parksley	Tangier Island	70	E2EM, PFO	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 3 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
21	Appomattox River Wetlands	Amelia, Chesterfield, Cumberland, Dinwiddie, Powhatan, Prince George	Petersburg	Amelia Courthouse, Ballsville, Beach, Chester, Chula, Clayville, Cumberland, Farmville, Hopewell, Mannboro, Petersburg, Rice, Sutherland, Winterpock	5,000	PSS, PEM, PFO	A, B, C, D	
22	Grove Farm Pond	Augusta	Waynesboro	Waynesboro West	50	PEM	A, B, C, E	
23	Magnolia Swamp	Augusta	Stuarts Draft	Stuarts Draft	30	PSS, PEM, PFO	A, B, C, E	
24	South River Wet Meadow	Augusta	Stuarts Draft	Stuarts Draft	200	PEM	A, C, E	
25	Warehouse Marsh	Augusta	Stuarts Draft	Stuarts Draft	150	PEM	A, C, E	
26	Bolar Mountain Pond	Bath	Bacova Junction	Mountain Grove	3	PEM	A, C, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
27	Meherrin River Wetlands	Brunswick, Greensville, Lunenburg, Mecklenburg, Southampton	Emporia	Adams Grove, Alberton, Ante, Chase City, Clarkesville, Drewryville, Emporia, Forkville, Keysville, Lunenburg, Margarettsville, Meherrin, Mitchell, Northview, Powellton, White Plains, Wightman	8,000	PFO, PEM, PSS	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 5 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
28	Nottoway River Wetlands	Brunswick, Dinwiddie, Greenville, Lunenburg, Nottoway, Southampton, Sussex	Courtland	Blackstone East, Blackstone West, Capron, Cherry Hill, Courtland, Danieltown, Franklin, Jerratt, Keysville, Littleton, McKenney, Meherrin, Purdy, Riverdale, Rubermont, Sebrell, Stony Creek, Sussex, Vicksville, Warfield	10,000	PFO, PSS, PEM	A, B, C, D	
29	Slate River	Buckingham	Buckingham	Buckingham	1,500	PFO, PEM	A, B, C, D	
30	Goldenvale Creek	Caroline	Port Royal, Rappahannock Academy	Port Royal	370	PFO, PEM	A, B, C	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
31	Mattaponi River Bottomlands	Caroline, King and Queen, King William	Aylett	Aylett, Beulahville, Penola, Sparta, Woodford	1,800	PFO, PEM	A, B, C, D	
32	Peatross Swamp	Caroline	Penola	Penola	50	PFO	A, B, C, D, E	
33	Ruther Glenn	Caroline	Ruther Glen	Ruther Glen	200	PEM, PSS, PFO	A, B, C, D, E	
34	Skinker Neck/ Moss Neck/ Corbin Neck	Caroline, King George	Rappahannock Academy	Port Royal, Rappahannock Academy	920	PEM, PFO	A, B, C, D	
35	Ware Creek	Caroline	Rappahannock Academy	Guinea, Rappahannock Academy	50	PFO	A, B, C, D	
36	Big Spring Bog	Carroll	Galax	Woodlawn	3	PEM, PSS	A, C, E	
37	Hanks Branch	Carroll, Grayson	Lambsburg	Lambsburg	75	PFO, PSS, PEM	A, B, C	
38	Linard Creek	Carroll	Lambsburg	Lambsburg	30	PFO, PSS, PEM	A, B, C	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
39	*Chickahominy River Marshes	Charles City, James City, New Kent	Providence Forge	Brandon, Norge, Providence Forge, Walkers	5,400	PFO, PSS, PEM	A, B, C, D	
40	*Chickahominy Swamp	Charles City, Hanover, Henrico, New Kent	Providence Forge, Richmond	Dutch Gap, Providence Forge, Quinton, Richmond, Roxbury, Seven Pines, Walkers, Williamsburg	16,300	PEM, PFO, PSS, R2	A, B, C, D	
41	Eppes Island	Charles City	Hopewell	Hopewell, Westover	700	PFO, PEM, R1US	A, B, C, D, E	
42	Herring Creek Wetlands	Charles City	Charles City Courthouse	Westover	1,000	R1, PFO, PEM	A, B, C, D	
43	Lower Kittewan Marsh	Charles City	Weyanoke	Charles City	300	PEM, PFO, PSS	A, B, C, D, E	
44	Morris Creek Wetlands	Charles City	Charles City	Brandon	1,120	R1, PFO, PEM, PSS	A, B, C, D	
45	Parson's Island/ Sunken Marsh/ Old Neck	Charles City	Charles City	Brandon	1,340	PEM	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
46	Salem Run Bog	Charles City	Nances Shop	Roxbury	100	PFO, PEM	A, B, C, E	
47	Weyanoke Point	Charles City	Charles City	Charles City	320	PEM, PFO, PSS	A, B, C, D	
48	*Roanoke Creek Wetlands	Charlotte	Charlotte Courthouse	Charlotte Courthouse, Eureka, Saxe	2,200	PFO, PEM	A, B, E	
49	Gum Swamp	N/A	Chesapeake, Virginia Beach	Fentress, Kempsville	200	PFO, PSS, PEM	A, B, C, D	
50	Northwest River Wetlands	N/A	Chesapeake	Deep Creek, Lake Drummond SE, Moyock	8,500	PFO, PSS, PEM	A, B, C, D	
51	Pocaty Creek Swamp	N/A	Chesapeake, Virginia Beach	Fentress, Pleasant Ridge	1,200	PFO, PSS, PEM	A, B, C, D	
52	Pocaty River	N/A	Chesapeake, Virginia Beach	Fentress, Pleasant Ridge	900	PFO, PSS, PEM	A, B, C, D	
53	West Landing	N/A	Chesapeake	Deep Creek	2,070	PFO, PSS, PEM	A, B, C, D	
54	Farrar Island	Chesterfield	Hopewell	Chester, Hopewell	450	PFO, PEM	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
55	Hatcher Island	Chesterfield	Hopewell	Dutch Gap	80	PFO, PSS, PEM	A, B, C, D	
56	Jones Neck	Chesterfield	Hopewell	Dutch Gap	550	PFO, PSS, PEM	A, B, C, D	
57	Willis River Wetlands	Cumberland	Cumberland	Cartersville, Gold Hill, Hillcrest, Lakeside, Whiteville	4,000	R2UB, PFO	A, B, C, D	
58	Rowanty Swamp	Dinwiddie	Carson	Carson	2,000	PFO	A, B, C, D	
59	Baylor Swamp	Essex	Loretto	Loretto	300	PFO, PSS, PEM	A, B, C, D	
60	*Beverly Marsh/ Payne's Island	Essex	Tappahannock	Champlain	1,700	E2EM	A, B, C, D	2
61	*Broad Creek	Essex, Richmond	Tappahannock	Champlain, Mount Landing	500	E2EM, PSS, PEM	A, B, C, D	2
62	*Dragon Run	Essex, Gloucester, King and Queen, Middlesex	Saluda	Churchview, Dunnsville, Millers Tavern, Saluda, Shackelfords, Truhart	8,000	PSS, PFO, PEM	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
63	*Horsehead Point/Marsh Point/Toby's Point	Essex, Kinge George	Oak Grove	Rollins Fork	3,400	PFO, PSS, PEM	A, B, C, D	2
64	Hoskins Creek Marsh	Essex	Tappahannock	Mount Landing, Tappahannock	900	E2EM, PSS, PFO	A, B, C, D	
65	Mount Landing Creek Wetlands	Essex	Tappahannock	Mount Landing	900	E2EM, E2FO, PSS, PFO	A, B, C, D	
66	*Occupacia Creek	Essex	Champlain	Champlain	800	E2EM, PFO	A, B, C, D	2
67	*Otterburn Marsh/Drake's Marsh	Essex, Westmoreland	Leedstown	Champlain, Loretto	800	PEM	A, B, C, D	2
68	Piscataway Creek Marsh	Essex	Tappahannock	Dunnsville, Millers Tavern, Mount Landing, Tappahannock	2,200	E2EM, PFO	A, B, C, D	
69	*Difficult Run	Fairfax	Vienna	Fairfax, Falls Church, Vienna	800	PFO, PEM	A, B, C, D	
70	Dogue Creek	Fairfax	Mt. Vernon	Alexandria, Annandale, Fort Belvoir, Mt. Vernon	1,900	PEM, PFO	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 11 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
71	Pohick and Accotink Creeks	Fairfax	Mt. Vernon	Annandale, Fort Belvoir	2,000	PEM, PFO	A, B, C, D	
72	Twin Falls (Lick Fork Falls)	Floyd	Copper Hill	Check	2	R3UB	B, D	
73	Back Creek/ Route 681	Frederick	White Hall	White Hall	100	R2UB, PFO, PEM	A, B, C, D	
74	Hovermale Ponds	Frederick	Ridge	Ridge	1,000	PEM, PFO	A, B, C, D, E	
75	White's Lake Marsh	Frederick	Winchester	Winchester	50	PEM, L2EM	A, B	
76	Cranberry Bog/ Little Meadows	Giles	Bailey Gap	Interior	750	PFO, PSS, PEM	A, B, C, D	
77	Mountain Lake	Giles	Mountain Lake	Eggleston	2,700	PUB, PEM	A, B, C, D	
78	Bush Point Marsh	Gloucester	Achilles	Achilles	330	E2EM, E2SS	A, B, C, D	
79	Catlett Islands	Gloucester	Wicomico	Clay Bank	640	E2EM, PFO, E2US	A, B, C, D	3
80	Four Point Marsh	Gloucester	Naxera	Achilles	200	E2EM, E2US	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
81	Guinea Marshes	Gloucester	Achilles	Achilles, New Point Comfort	1,500	E2EM, E2SS	A, B, C, D	
82	Poropotank River	Gloucester, King and Queen	Gloucester	Gressitt, Shacklefords	3,000	E2EM, PFO, PEM	A, B, C, D	
83	Purtan Island	Gloucester	Gloucester	Gressitt	750	E2EM, PFO	A, B, C, D	
84	Piney Creek Bog	Grayson	Low Gap	Cumberland Knob	200	PSS	A, B, C, D, E	
85	Beaver Pond Creek	Greensville, Southampton	Turners Crossroads	Skippers	100	PFO	A, B, C, D, E	
86	Skipper's Bog	Greensville	Dahlia	Skippers	1,000	PFO, PSS, PEM	A, B, C, D, E	
87	Long Creek Marsh	N/A	Hampton	Hampton	1,070	E2EM	A, B, C, D	
88	Curles Neck Creek	Henrico	Richmond	Hopewell	1,400	PFO, PSS, PEM	A, B, C, D	
89	The Slash	Henrico	Richmond	Dutch Gap	600	PFO, PEM	A, B, C, D	
90	Lawnes Creek Marsh	Isle of Wight, Surry	Bacons Castle	Bacons Castle, Hog Island	1,100	E2EM, PFO	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
91	Pagan River Marshes	Isle of Wight	Smithfield	Benns Church, Mulberry Island	870	E2EM, E2US, E2SS	A, B, C, D	
92	Ballard Marshes	Isle of Wight	Smithfield	Benns Church, Newport News	320	E2EM, E2SS, E2FO	A, B, C, D	
93	Blackwater River Wetlands	Isle of Wight, Prince George, Southampton, Suffolk, Surry	Franklin	Dendron, Disputanta North, Disputanta South, Franklin, Holland, Ivor, Prince George, Raynor, Riverdale, Runnymede, Sedley, Waverly, Zuni	12,000	PFO, PSS, PEM	A, B, C, D	
94	Zuni Pine Barrens	Isle of Wight	Zuni	Zuni	300	PFO, PSS	A, C, E	
95	Big Marsh Point	James City	Lanexa	Brandon	200	PEM	A, B, C, D	
96	College Creek Wetlands	James City	Williamsburg	Hog Island, Williamsburg	1,300	PEM, PFO	A, B, C, D	
97	Gordon Island	James City	Toano	Brandon, Norge	2,100	PEM, PFO	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
98	Powhatan Creek/ Longhill Swamp/Chisel Run	James City	Jamestown	Norge, Surry	1,000	PFO, PSS	A, B, C, D	
99	Ware Creek and Terrapin Point	James City, New Kent	Williamsburg	Toano	1,400	E2EM, PFO, PSS	A, B, C, D	
100	Yarmouth, Simpson, and Wright Creeks	James City	Williamsburg	Norge	2,800	PEM, PFO	A, B, C, D, E	
101	*Boardly Marsh	King and Queen	King and Queen Courthouse	Truhart, West Point	400	PEM	A, B, D, E	4
102	*Garnetts Creek Marsh	King and Queen	King and Queen Courthouse	King and Queen Courthouse	620	PEM, PFO	A, B, C	4
103	*Heartquake Creek Marsh	King and Queen, King William	West Point	Truhart, West Point	500	PEM, PFO	A, B, C	4
104	*Horse Landing	King and Queen, King William	Walkerton	King William, King and Queen Courthouse	420	PEM, PFO	A, B, C	4

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
105	*Mantapike Creek	King and Queen	King and Queen Courthouse	King and Queen Courthouse	200	PFO, PEM	A, B, C	4
106	*Muddy Point/ Burnt Mill Creek Complex	King and Queen	West Point, Shacklefords	West Point, Shacklefords	820	PEM, PFO, E2EM	A, B, C, D, E	4
107	Chotank Creek	King George	Owens	Dahlgren, King George	1,800	PFO, E2EM	A, B, C, D	
108	Cleve Marsh	King George	Port Royal	Port Royal, Rappahannock Academy	1,000	PEM, PFO	A, B, C, D	
109	Gambo Creek	King George	Dahlgren	Dahlgren	120	E2EM	A, B, C, D	
110	*Gingoteague Creek	King George	Welcome	Port Royal	460	PFO	A, B, C	
111	Persimmon Point	King George	Dahlgren	King George, Mathias Point	520	PFO	A, B, C, D	
112	Upper Machodoc Creek	King George	Dahlgren	Dahlgren	280	E2EM, PFO, PEM	A, B, C, D	
113	*Brooks Creek Marsh	King William	King and Queen Courthouse	King and Queen Courthouse	450	PEM, PFO	A, B, C	4

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
114	*Clayborne Creek/Old Town Creek	King William	King William	Tunstall	320	PFO, PEM	A, B, C	5
115	*Cohoke Marsh	King William	New Kent	New Kent	820	PFO	A, B, C	5
116	*Glass Island Marshes	King William	West Point	West Point	1,000	E2EM	A, B, C	4
117	*Gleason Marsh/ Wakema	King William	King and Queen Courthouse	King and Queen Courthouse, Truhart	740	PEM, PSS	A, B, C	4
118	*Lee Marsh	King William	West Point	West Point	1,500	E2EM	A, B, C	5
119	*Pointers Landing	King William	Aylett	Aylett, King William	140	PFO	A, B, C	4
120	*Polkwest Creek Marsh	King William	King William	Tunstall	300	PFO, PEM	A, B, C	5
121	*Sandy Point	King William	King and Queen Courthouse	King and Queen Courthouse	45	PEM	A, B, C	4
122	*Sweet Hall Marsh	King William	West Point	New Kent	1,100	PEM, PFO	A, B, C	3,5

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
123	*White's Landing	King William	New Kent	New Kent	5	PFO	A, B, D	5
124	Belle Isle	Lancaster	Lancaster	Lively	100	E2EM, PEM	A, B, D	
125	Mosquito Island	Lancaster	White Stone	Deltaville	100	E2EM, E2US	A, B, C, D	
126	North Point	Lancaster	Kilmarnock	Fleets Bay	280	E2EM, E2US	A, B, C, D	
127	Powell River Wetlands	Lee	Jonesville	Back Valley, Ben Hur, Big Stone Gap, Hubbard Springs, Keokee, Sneedville, Sticklyville	950	R3UB, PEM, PSS, PFO	A, B, C, D, E	
128	Nottoway Falls	Lunenburg, Nottoway	Victoria	Rubermont	100	PFO, PSS, PEM	A, B, C, D	
129	Lilleys Neck	Mathews	Mathews	Mathews	260	E2EM, PFO	A, B, C, D	
130	Mathews County Interior Wetlands	Mathews	Mathews	Ware Neck	300	PFO, PSS, PEM	A, C	
131	Rigby Island	Mathews	Mathews	Mathews	120	E2EM	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
132	Rigby Island	Mathews	Mathews	Mathews	120	E2EM	A, B, C, D	
133	Winter Harbor Marsh	Mathews	Mathews	Mathews, New Point Comfort	1,350	E2EM	A, B, C, D	
134	Love Swamp	Nelson	Love	Big Levels	25	PFO	A, B, C, D, E	
135	*Cousiac Marsh	New Kent	New Kent	New Kent	1,000	PEM, PFO	A, B, C	5
136	*Eltham Marsh	New Kent	West Point	West Point	1,200	E2EM	A, B, C	5
137	*Hill Marsh	New Kent	West Point	New Kent, West Point	1,350	PEM	A, B, C	5
138	Lanexa Marsh	New Kent	New Kent	Walkers	200	PFO, PEM	A, B, C, D	
139	*Lilly Point Marsh Complex	New Kent	New Kent	New Kent, Tunstall	1,100	PEM, PSS, PFO	A, B, C	5
140	*Matton Creek/ Macon Creek	New Kent	Talleysville	Tunstall	660	PFO, PEM	A, B, C	5
141	*West Island	New Kent	New Kent	New Kent	1,200	PEM, PSS, PFO	A, B, C, D	5

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
142	*Beaverdam Creek Swamp	N/A	Newport News	Yorktown	160	PFO, PEM, PSS	A, C, D, E	
143	Warwick River	N/A	Newport News	Mulberry Island, Yorktown	1,700	E2EM, PFO	A, B, C, D	
144	Butlers Bluff	Northampton	Cape Charles	Townsend	50	E2US	A, E	
145	Fishermans Island	Northampton	Cape Charles	Fishermans Island	1,500	E2EM, E2SS	A, B, C	
146	Greens Creek	Northampton	Nassawadox	Nassawadox	200	E2EM, E2SS, PFO	A, B, C, D, E	
147	Magothy Bay Fringing Wetlands	Northampton	Townsend	Townsend	1,600	E2EM, E2US, PFO, PSS	A, B, C, D	
148	Plantation Creek	Northampton	Cheriton	Cheriton, Elliots Creek, Townsend	700	E2US, E2EM	A, B, C, D	
149	Savage Neck Dunes	Northampton	Cape Charles	Cape Charles	20	E2US, E2UB	A, B, C, D, E	
150	Bell Swamp/ Owens Pond	Northum-berland	Reedville	Reedville	200	E1UB, PFO, PEM	A, B, C, D	
151	Bluff Point Marsh	Northum-berland	Kilmarnock	Fleets Bay	300	E2EM	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
152	*Bush Mill Stream Wetlands	Northum-berland	Howland	Heathsville, Lancaster	720	PFO, PEM	A, B, D, E	
153	Dameron Marsh	Northum-berland	Reedville	Reedville	230	E2EM, E2US	A, B, C, D	
154	Hack Creek	Northum-berland	Burgess	Burgess	1,600	E2EM, PFO	A, B, C, D	
155	Hughlett Marsh	Northum-berland	Kilmarnock	Fleets Bay, Reedville	1,800	E2EM, E2US	A, B, C, D	
156	Hoffler Creek Marsh	N/A	Portsmouth, Suffolk	Newport News South	180	E2US, E2EM, PSS	A, B, C, D	
157	*Pinehurst Wetlands	N/A	Portsmouth	Norfolk South	50	E2EM	A, B, D, E	
158	Allen's Mill	Prince Edward	Prospect	Prospect	25	PFO, PSS, R3	A, B, C, D	
159	Kennon Marsh	Prince George	Claremont	Brandon, Charles City	800	PEM, PFO	A, B, C, D	
160	Powell Creek Marsh	Prince George	Hopewell	Westover	950	PFO, PEM	A, B, C, D	
161	Upper Chippokes Creek	Prince George	Spring Grove	Claremont	1,700	PEM, PFO	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
162	Ward's Creek	Prince George	Hopewell	Charles City, Savedge	800	PEM, PFO	A, B, C, D	
163	Neabsco Creek	Prince William	Dumfries	Indian Head, Quantico	850	PEM, R1EM	A, B, C, D	
164	Powell's Creek	Prince William	Dumfries	Quantico	670	E2EM, PFO	A, B, C, D	
165	Quantico Creek	Prince William	Dumfries	Quantico	1,100	E2EM, PFO	A, B, C, D	
166	*Roudebush Ponds	Pulaski	Dublin	Staffordsville	50	PEM, PUB	A, B, D, E	
167	Cat Point Creek	Richmond	Warsaw	Montross, Tappahannock	1,700	E2EM	A, B, C, D	
168	Jones Creek Wetlands	Richmond	Warsaw	Champlain	150	PFO, PSS, PEM	A, B, C, D	
169	Little Carter Creek Marsh	Richmond	Tappahannock	Tappahannock	2,200	E2EM, PFO, PSS	A, B, C, D	
170	Mulberry Island	Richmond	Warsaw	Mount Landing	100	E2EM, E2US	A, B, C, D	2
171	Totuskey Creek	Richmond	Warsaw	Haynesville	1,500	E1UB, E2EM, PFO	A, B, C, D	
172	Deep Run Pond	Rockingham	Port Republic	Grottoes	80	PEM, PFO	A, B, C, D, E	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
173	Little Laurel Run	Rockingham	Rawley Springs	Cow Knob, Rawley Springs	20	PFO	A, B, C, D	
174	Madison Run	Rockingham	Grottoes	Grottoes	25	PFO	A, B, C, D	
175	Maple Springs Pond	Rockingham	Port Republic	Brandywine	5	PEM, PFO	A, B, C, D, E	
176	Shenandoah Mountain Sink Holes	Rockingham	Brandywine	Brandywine	100	PEM, PFO, PSS	A, B, C, D, E	
177	Clinch River Floodplain	Russell	Cleveland	Lebanon	200	PFO, PSS, PEM	A, B, C, D	
178	Clinch River Shoals	Scott	Fort Blackmore	Fort Blackmore	200	R3UB	A, B, C, D, E	
179	Assamoosick Swamp	Southampton, Sussex	Courtland	Courtland, Disputanta South, Franklin, Littleton, Manry, Riverdale, Vicksville	3,350	PEM, PSS, PFO	A, B, C, D, E	
180	Kirk Track	Southampton	Southampton	Raynor	150	PFO	A, B, C, D, E	
181	Brent Marsh	Stafford	Stafford	Widewater	160	E2EM, PFO	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 23 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
182	*Accokeek Creek	Stafford	Stafford	Passapatanzy, Stafford, Widewater	1,000	E2EM, PFO, PSS, PEM	A, B, C, D, E	
183	Aquia Creek	Stafford	Stafford	Stafford, Widewater	880	E2EM, PEM, PSS	A, B, C, D	
184	*Potomac Creek Wetlands	Stafford	Daffan	Fredericksburg, Passapatanzy, Stafford, Storck, Widewater	2,000	PFO, PSS, PEM, E2EM	A, B, C, D, E	
185	Cypress Swamp	N/A	Suffolk	Corapeake, Suffolk	750	PFO	A, C, D	
186	Great Dismal Swamp	N/A	Suffolk	Bowers Hill, Chuckatuck	5,000	PFO	A, B, C, D	
187	Nansemond River/ Bennett Creek Marshes	N/A	Suffolk	Chuckatuck	3,300	E2EM, E2US	A, B, C, D	
188	South Quay Pine Barrens	Suffolk	Franklin	Riverdale	3,000	PFO	A, C, D	
189	Crouch Creek/ Timber Neck Creek	Surry	Surry	Surry	370	PEM, PFO	A, B, C, D	

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
190	Gray's Creek Marsh	Surry	Surry	Surry	1,128	PFO, PEM	A, B, C, D	
191	Lower Chippokes Creek Marsh	Surry	Bacons Castle	Bacons Castle, Hog Island	600	PEM	A, B, C, D	
192	*Sunken Meadows	Surry	Claremont	Claremont	600	PEM, PFO	A, B, D, E	
193	Sussex School-house Swamp	Sussex	Sussex	Sussex	1,500	PFO	A, B, C, D, E	
194	Burkes Garden	Tazewell	Burkes Garden	Garden Mountain	30	PFO, PSS, PEM	A, C, D	
195	Back Bay Wetlands	N/A	Virginia Beach	North Bay, Knotts Island	3,800	PFO, PSS, PEM	A, B, C, D	
196	Blackwater Creek	N/A	Virginia Beach	Creeds	500	E2EM, PFO, PSS	A, B, C, D	
197	*North Landing River Wetlands	N/A	Virginia Beach	Creeds, Deep Creek, Fentress, Kempsville, Pleasant Ridge	19,000	PFO, PEM, PSS	A, B, C, D, E	
198	Stumpy Lake	N/A	Virginia Beach	Kempsville	500	PFO, PSS, PEM	A, B, C, D	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 25 of 26)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
199	West Neck Creek	N/A	Virginia Beach	Pleasant Ridge, Princess Anne	2,800	PFO, PSS, PEM	A, B, C, D	
200	Barns Chapel Swamp	Washington	Abingdon	Brumley, Wyndale	1	PEM, PFO, PSS	A, C, D, E	
201	Rush Creek	Washington	Friendship	Konnarock	15	PFO	A, B, C, D	
202	Bridges Creek	Westmoreland	Oak Grove	Colonial Beach South	100	E2SS, E2EM, PFO	A, B, C, D	
203	Hollis Marsh Island/ Currioman Bay Wetlands	Westmoreland	Stratford Hall	St. Clements, Stratford Hall	1,000	E2SS, E2EM, E2US	A, B, C, D	
204	Grafton Ponds	York	Grafton	Poquoson West	2,400	PFO, PSS, PEM	A, C, D	
205	Plum Tree Island/Black Walnut Ridge	York	Poquoson	Hampton, Poquoson East	4,100	E2EM, E2SS	A, B, C, D	6

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF VIRGINIA (PAGE 26 of 26)

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
N/A Not Applicable
The numbers in the first column refer to the map of Virginia provided in Appendix B.

Notes

1 Part of this site is in State ownership.
2 This site is part of the Rappahannock River wetlands complex, which contains the largest winter bald eagle roost in Virginia.
3 This wetland will be designated as a component of the Chesapeake Bay National Estuarine Research Reserve System in Virginia in September 1990.
4 This site is part of the Mattaponi River wetlands complex. All the wetland sites in these complexes face a potential threat from off-stream withdrawal and reduced freshwater inflow. There is pressure to develop potable water supply projects in these drainage basins for both local use and export to the metropolitan areas in Hampton Roads.
5 This site is part of the Pamunkey River wetlands complex. These wetlands are also facing a potential threat from off-stream withdrawal and reduced freshwater inflow.
6 Part of this site is owned by the U.S. Fish and Wildlife Service.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF WEST VIRGINIA (PAGE 1 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
1	*Meadowville (Glady Creek)	Barbour	Meadowville	Belington	19	PEM, PSS	D, E	
2	*Ohio River Embayments	Brooke, Cabell, Hancock, Jackson, Marshall, Mason, Ohio, Pleasants, Tyler, Wayne, Wetzel, Wood	Apple Grove, Belleville, Belmont, Ben's Run, Boaz, Follansbee, Glenwood, Huntingdon, Letart, Millwood, New Cumberland, Proctor, Ravenswood, Ripley Landing, Washington Bottom, Windsor Heights, Woodlands	Apple Grove, Belmont, Ben's Run, Catlettsburg, Glenwood, Lubeck, New Haven, New Martinsville, Parkersburg, Powhatan Point, Raven Rock, Ravenswood, Stubenville East, Tiltonsville, Wellsville	769	PFO, PEM, PSS, R2UB, L1UB	A, B, D, E	1

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
3	*Ohio River Islands	Cabell, Hancock, Marshall, Mason, Ohio, Pleasants, Tyler, Wetzel, Wood	Broadback Island, Buckley Island, Eureka Island, Grape Island, Muskingum Island, Mustapha Island, Neal Island, Newberry Island, Paden Island, Vienna Island	Belmont, Clarksburg SW, Little Hocking, Lubeck, Marietta, Paden City, Parkersburg, Raven Rock, Valley Mills, Willow Island	1,290	PFO, PEM, PSS, PAB	A, B, D, E	2
4	*Wheeler Islands	Fayette	Smithers	Montgomery	32	PFO, PAB	B, D, E	3
5	*Difficult Creek Swamp	Grant	Bayard	Gorman	22	PEM, PFO, PSS	B, D	
6	*Meadow River Complex	Greenbrier	Dawson, Rupert	Dawson, Rupert	5,300	PEM, PSS, PFO, PUB	A, B, D, E	4
7	*Albee Marl Marsh	Jefferson	Ranson	Middle Way	33	PEM, PFO, PAB, PUB	A, B	5
8	*Altona Marsh	Jefferson	Ranson	Middle Way	123	PEM, PFO, PUB	A, B, D, E	5,6
9	*Harewood Marsh	Jefferson	Ranson	Middle Way	44	PEM, PUB, PFO	A, B, D, E	5

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF WEST VIRGINIA (PAGE 3 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
10	*Hopewell Marsh	Jefferson	Leetown	Middle Way	16	PEM, PSS, PFO	A, B, C, D, E	7
11	*Lake Louise	Jefferson	Middle Way	Middle Way	58	PEM, PFO, PAB, PSS	A, C, D, E	8
12	*Spa Run	Jefferson	Kearneysville	Martinsburg	43	PEM, PFO, PSS	A, D, E	
13	*Watson Island	Kanawha	East Bank	Cedar Grove	18	PFO	B, D, E	3
14	*Fish Creek Area	Marshall	Woodlands	Powhatan Point	12	R2EM	A, D, E	9
15	*Point Pleasant Swamp	Mason	Point Pleasant	Beech Hill	310	PFO, PEM, PSS	A, D, E	10
16	*Muddlety Creek Complex	Nicholas	Muddlety	Summersville, Widen	454	PEM, PSS, PFO	A, C, D, E	
17	*Cranesville Swamp	Preston	Cranesville	Sang Run (MD)	800	PEM, PSS, PFO	A, D, E	11
18	*Fike Run	Preston	Glade Farms	Brandonville	436	PEM, PSS, PFO	D, E	12
19	*Snowy Creek Swamp North Branch	Preston	Terra Alta	Terra Alta	166	PSS, PFO, PEM	A, B, D, E	

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF WEST VIRGINIA (PAGE 4 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
20	*Winfield Swamp	Putnam	Bancroft	Bancroft	80	PFO	A, D, E	13
21	*Reidbord Swamp	Randolph	Elkins	Elkins, Junior	46	PFO, PEM, PSS, PUB	A, D, E	
22	*Tygart Valley Wetlands	Randolph	Elkins, Beverly	Adolph, Beverly East, Beverly West, Elkins, Junior, Mill Creek, Valley Head	1,000	PFO, PEM, R2UB, PSS	A, B, C, D, E	
23	*Canaan Valley	Tucker	Canaan Heights, Davis, Dry Fork	Blackbird Knob, Blackwater Falls, Davis, Mt. Storm	7,000	PEM, PFO, PSS, PML	A, B, C, D, E	14
24	*Dobbins Slashings	Tucker	Davis	Blackbird Knob	161	PEM, PSS	A, D, E	15
25	*Elder Run Bog	Tucker	Davis	Mt. Storm Lake	282	PEM, PSS, PFO	C, D, E	
26	*Paden City Area	Tyler	Paden City	Paden City	26	PEM, PFO, PSS, R2EM	A, D, E	9
27	*Holly Grove Swamp	Upshur	Holly Grove	Rock Cave	19	PSS	A, E	16

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF WEST VIRGINIA (PAGE 5 of 6)

No.	Site Name	County	City/Town	USGS Quad	Acres	Wetland Type	Function/Value	Notes
28	*Blennerhassett Island Swamp	Wood	Parkersburg	Little Hocking	77	PSS, PFO, PEM	A, D, E	17
29	*Boaz Marsh	Wood	Boaz	Parkersburg	12	PFO, PEM, PSS	A, D, E	
30	*Pond Run Marsh	Wood	Parkersburg	Parkersburg	112	PEM, PSS, PFO	C, D, E	
31	*Vienna Area	Wood	Vienna	Parkersburg	40	PEM	A, D, E	9

*Wetlands Assessment Threshold Criteria sheets have been completed for these sites.
The numbers in the first column refer to the map of West Virginia provided in Appendix B.

Notes

1 The wetland sites included in this entry are: Virginia Cross Creek (Brooke County); Virginia Short Creek (Brooke and Ohio Counties); Guyan Creek (Cabell and Mason Counties); Tomlinson Run (Hancock County), Turkey Run, Rock Bar, Spring Creek, Mill Creek, and Little Mill Creek (Jackson County); Fish Creek (Marshall County); Tombleson Run and Crab Creek (Mason County); French Run (Pleasants County); Ben's Run (Pleasants and Tyler Counties); Twelvepole Creek (Wayne County); Proctor Creek (Wetzel County); and Boaz Marsh, Sandy Creek, and Lee Creek (Wood County). Purchase or protection of these embayments would complement the proposed Ohio River Islands National Wildlife Refuge.
2 The U.S. Fish and Wildlife Service has established an approved boundary for the proposed Ohio River Islands National Wildlife Refuge.
3 This is part of the Kanawha River Islands complex.
4 Second largest wetland in the State.
5 This site is part of the Evitts Run complex.
6 The Nature Conservancy is trying to buy this site.
7 Adjacent to the U.S. Fish and Wildlife Service's National Fisheries Center in Leetown.
8 The Nature Conservancy holds a lease on part of this area.
9 This site is part of the Ohio River Mainshore complex, mainshore wetlands associated with the backchannels of the Ohio River Islands. Other mainshore wetlands are not listed but are nevertheless considered important.
10 One of the last remaining forested floodplain swamps on either the Ohio or Kanawha Rivers.
11 The Nature Conservancy owns part of this site. Acreage includes Maryland wetlands that are part of this site.
12 Acreage includes Pennsylvania wetlands that are part of this site.

EMERGENCY WETLANDS RESOURCES ACT: WETLANDS IN THE STATE OF WEST VIRGINIA (PAGE 6 of 6)

13 One of two remaining forested swamps of significant size on the Kanawha River.

14 Largest wetland complex in State and central Appalachian region. An environmental impact statement was completed in 1979 to assess impacts associated with the establishment of a National Wildlife Refuge at this site. Funding for acquisition has not been available. This area is threatened by resort and residential development and the Davis Power Project. About 800 acres of this complex is within the boundaries of Canaan Valley State Park.

15 Associated with Canaan Valley to the east.

16 Largest wetland in Little Kanawha River Basin.

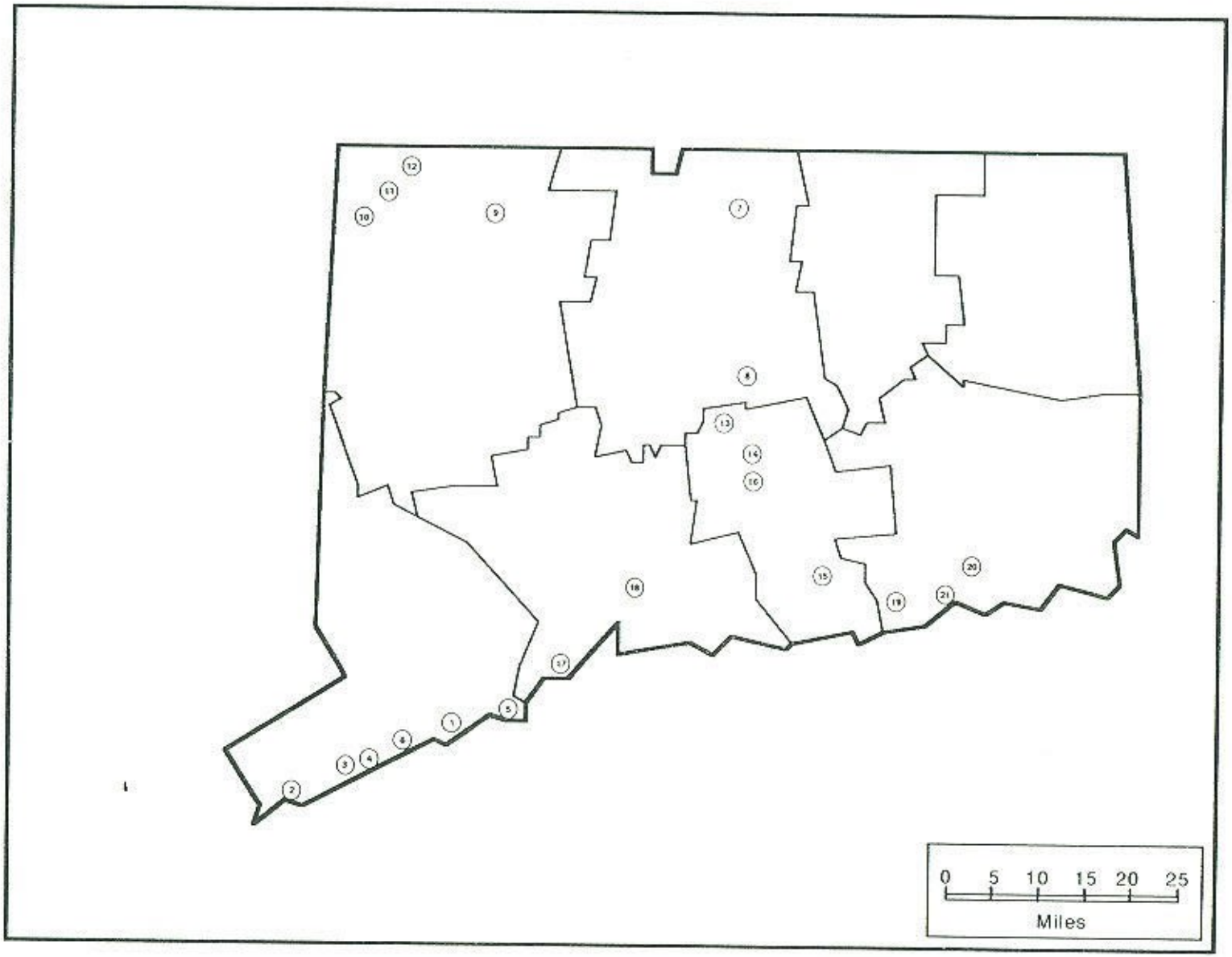
17 Largest wetland on the upper Ohio River islands.

October 1990

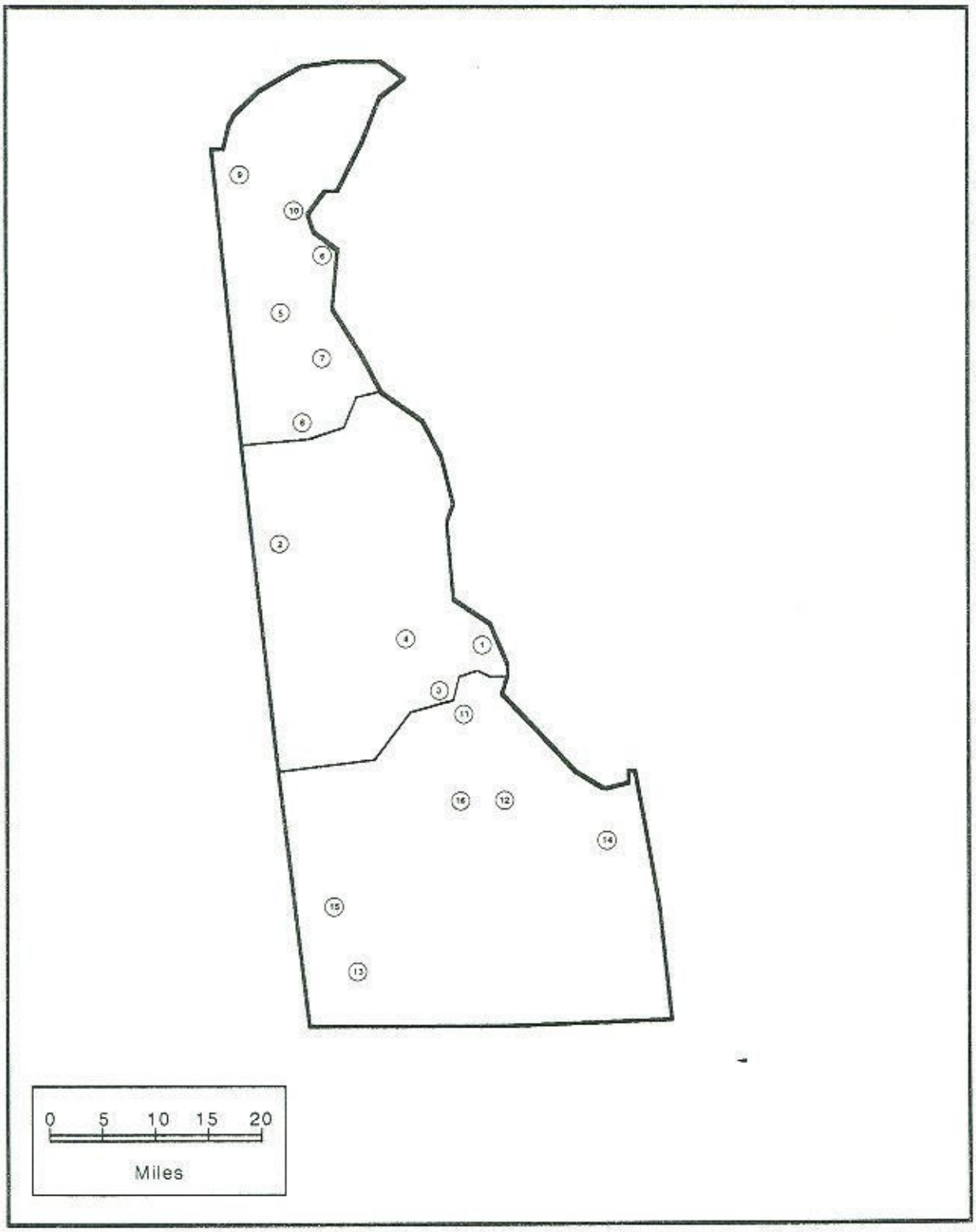
APPENDIX B

STATE MAPS DEPICTING GENERAL LOCATION OF WETLANDS LISTED IN APPENDIX A

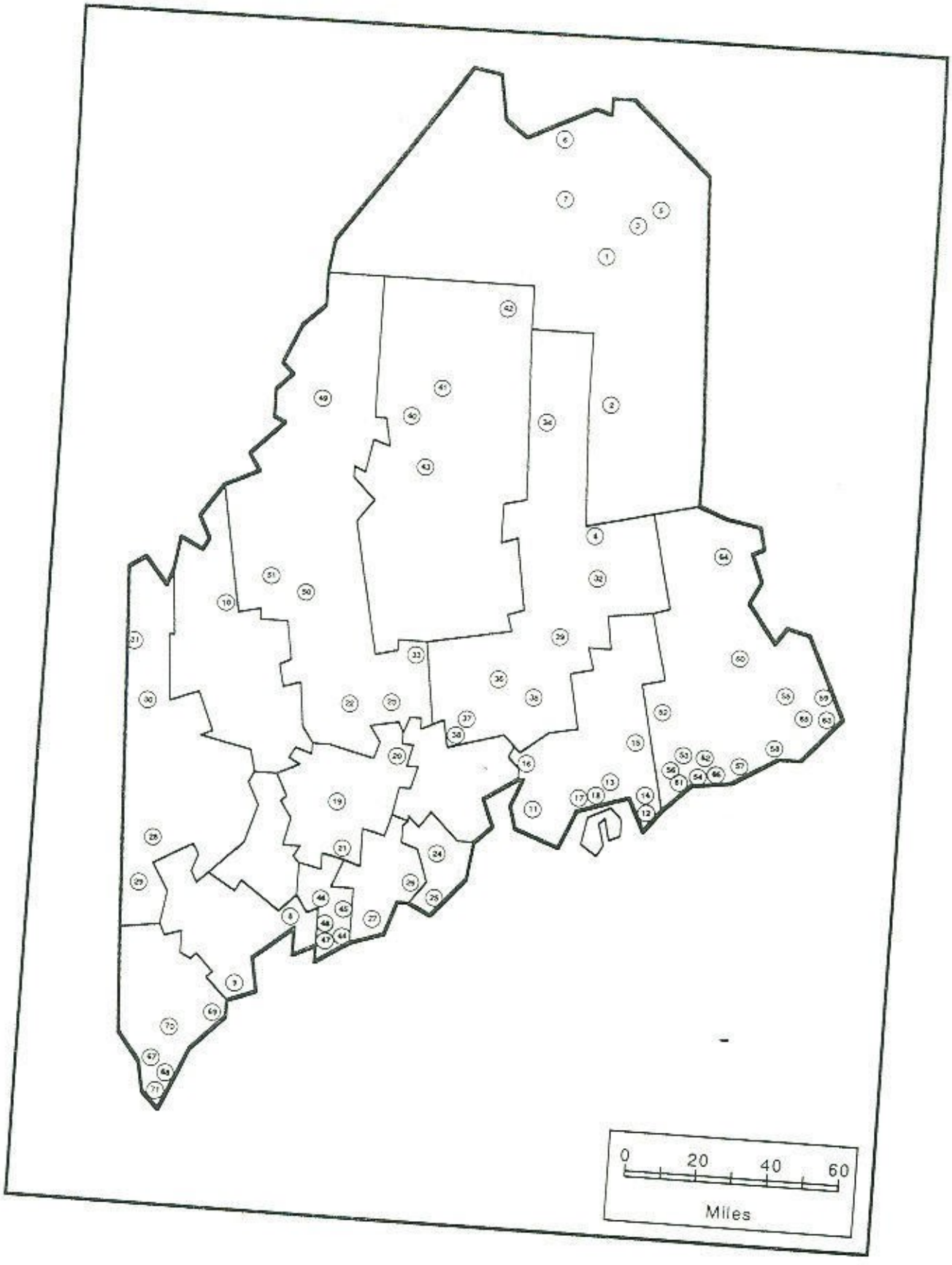
Connecticut



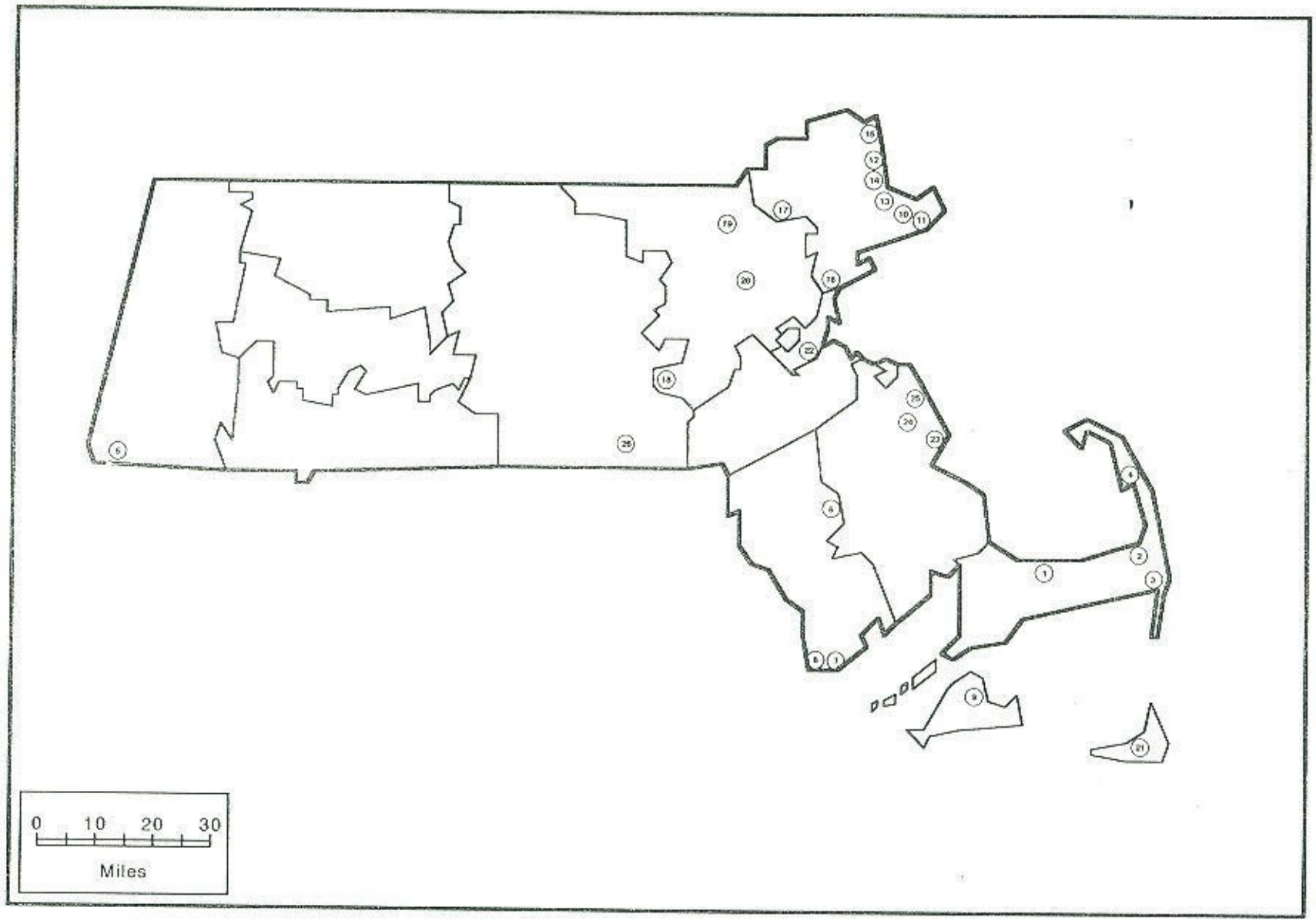
Delaware



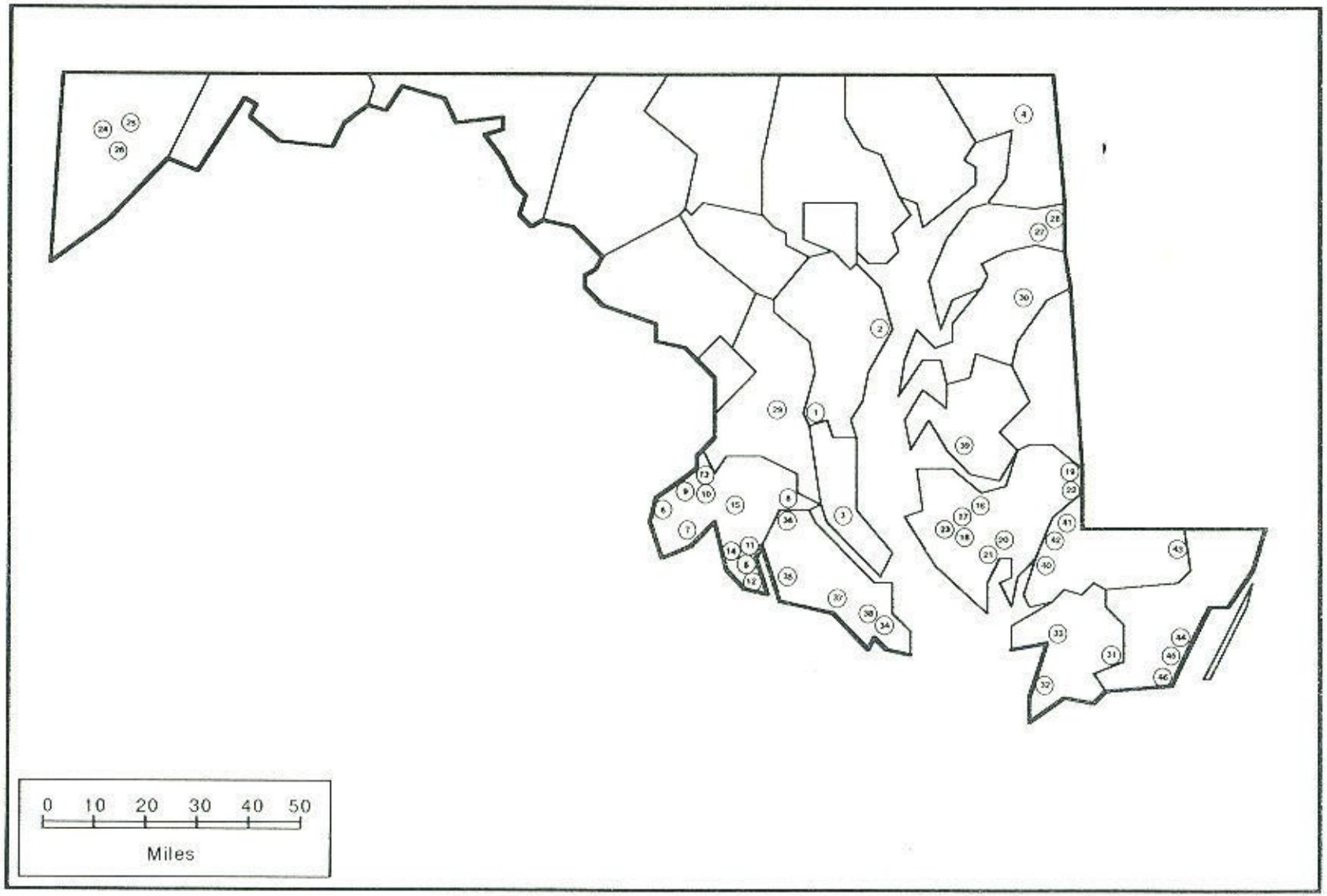
Maine



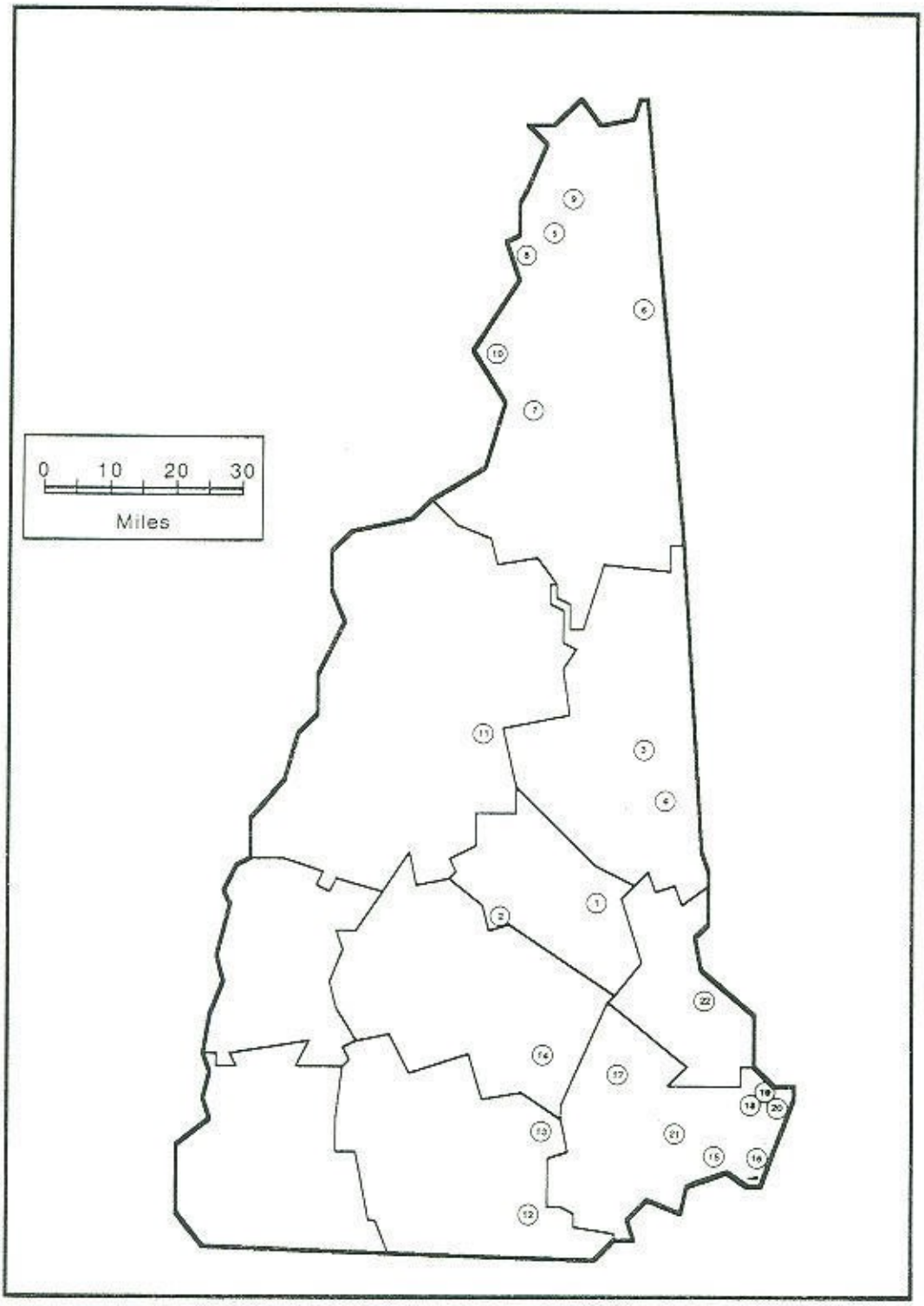
Massachusetts



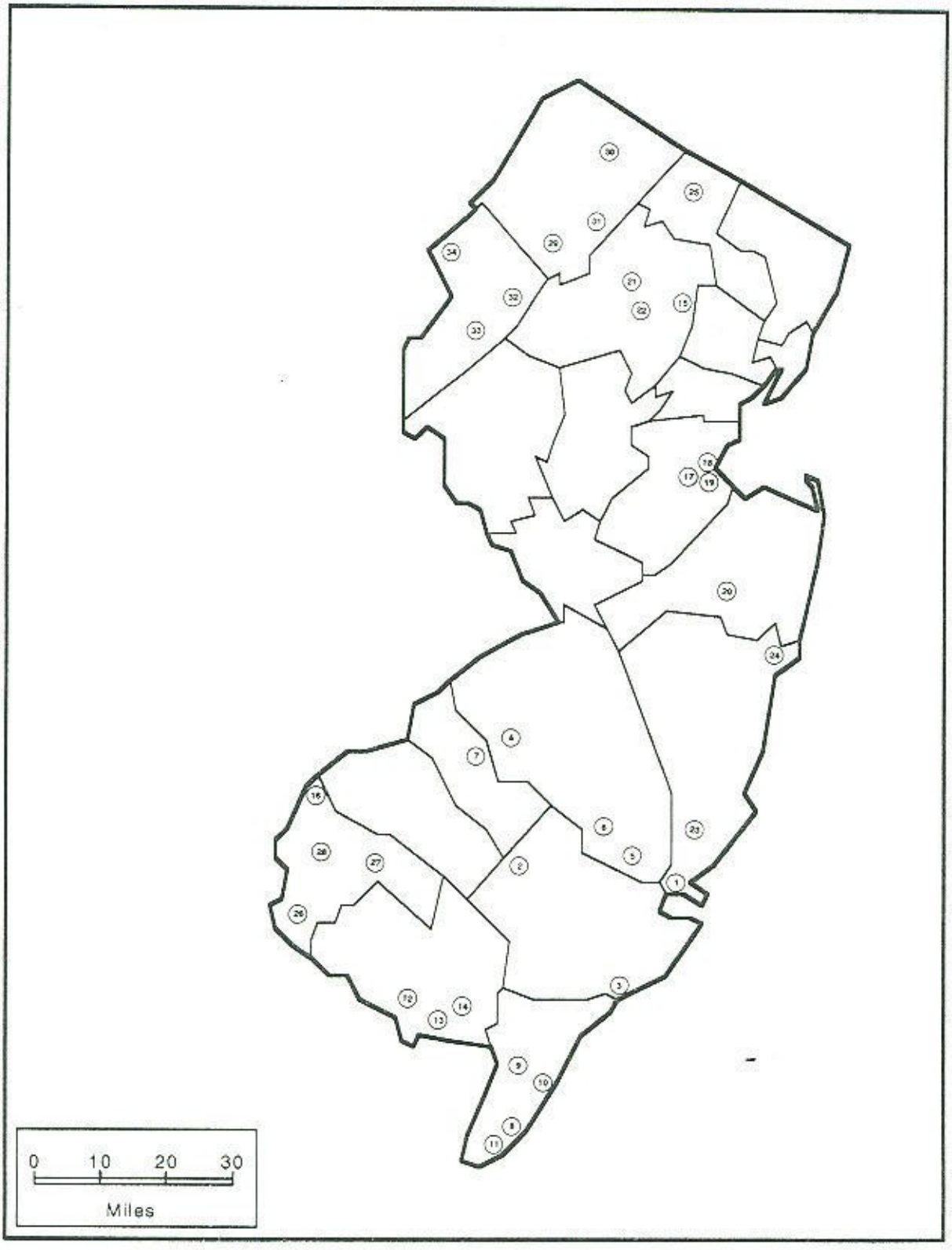
Maryland



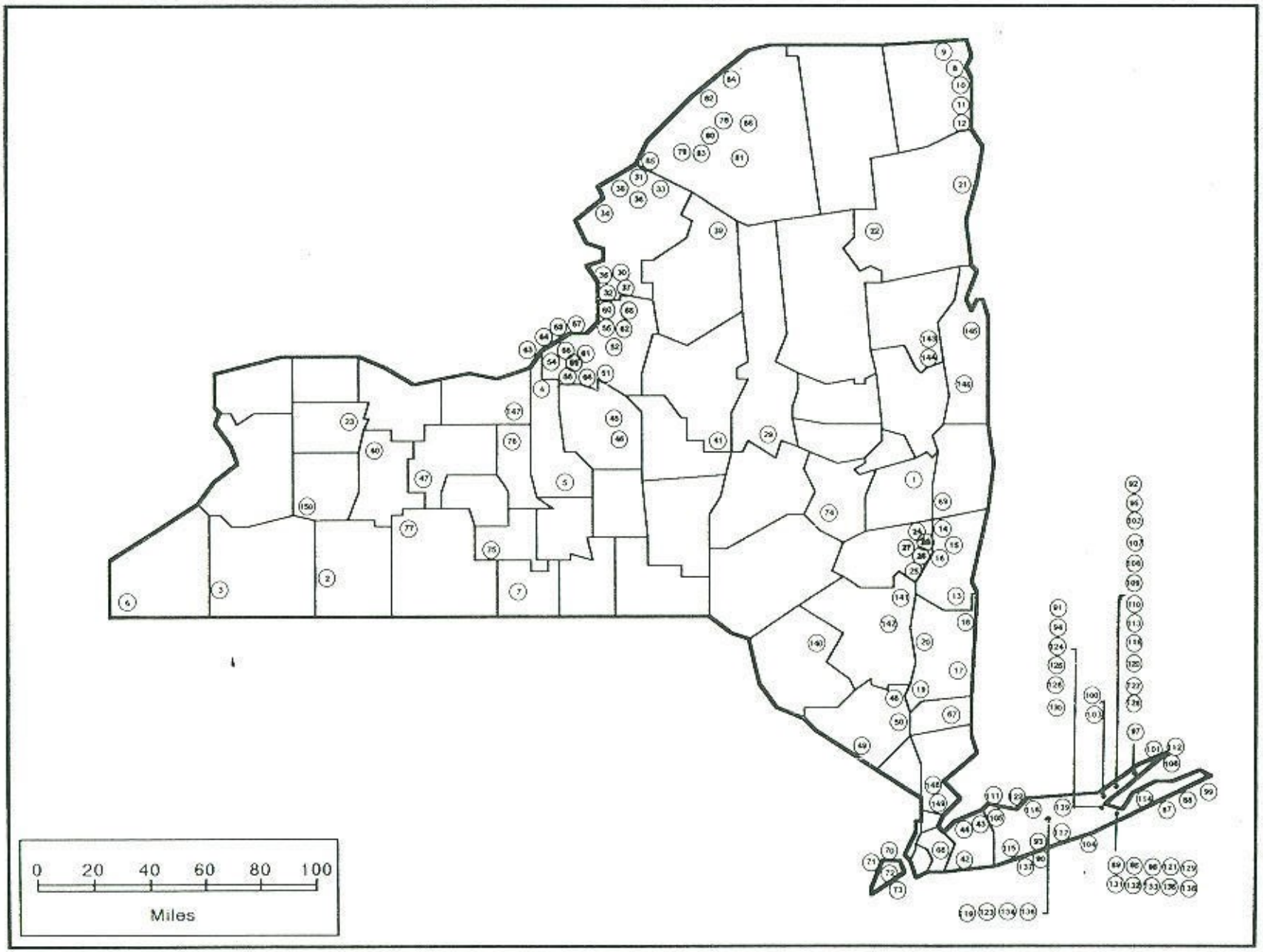
New Hampshire



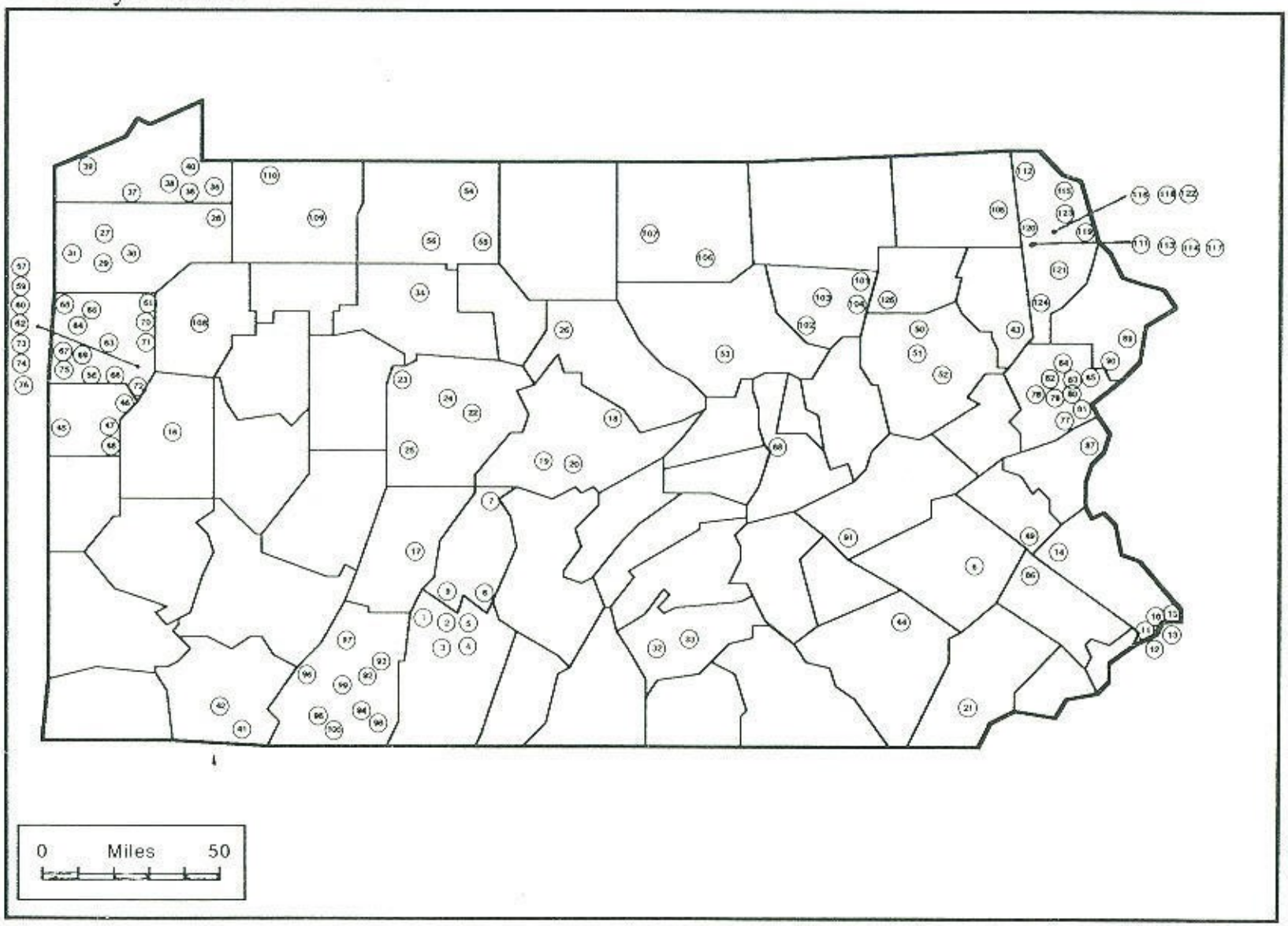
New Jersey



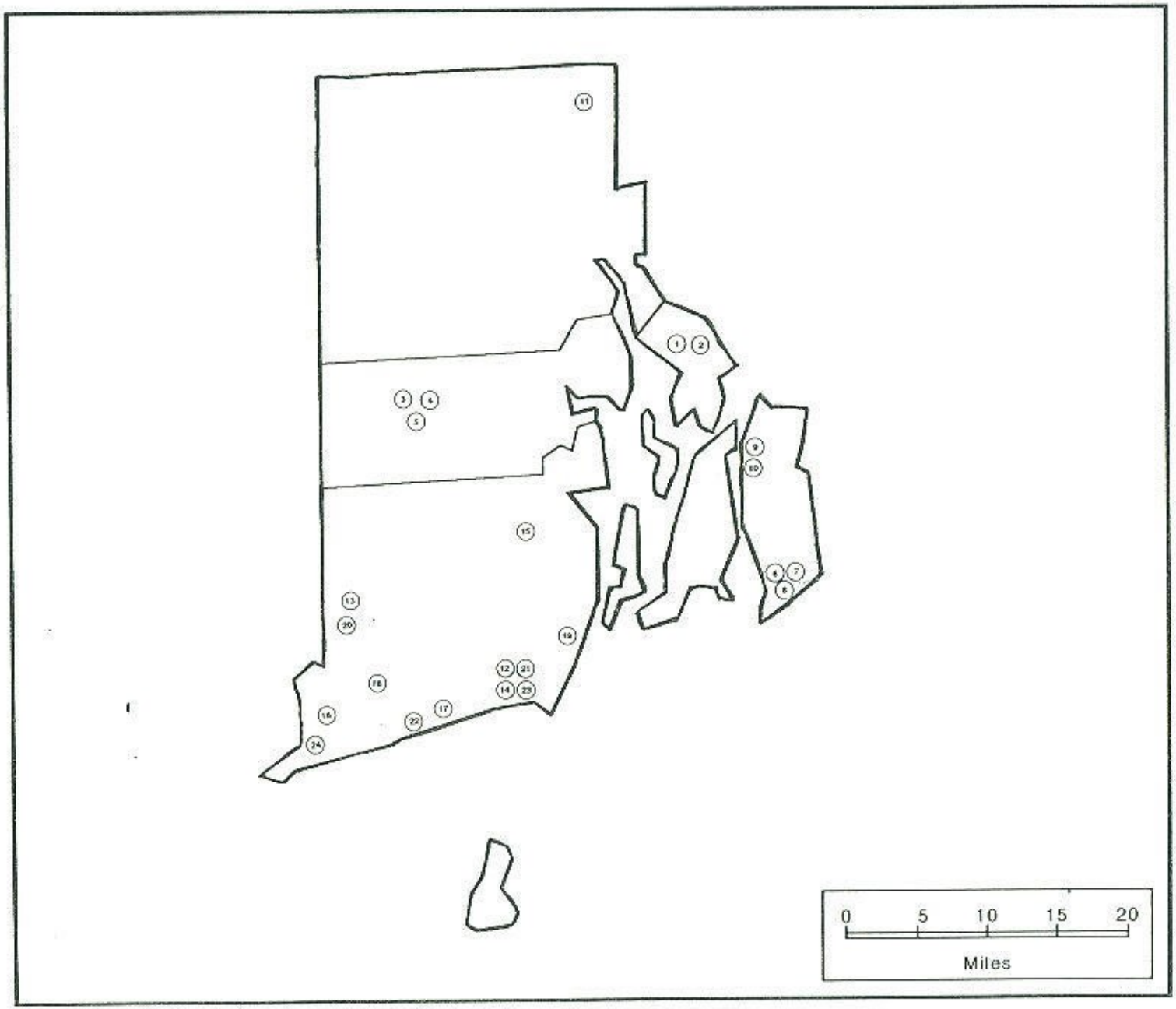
New York



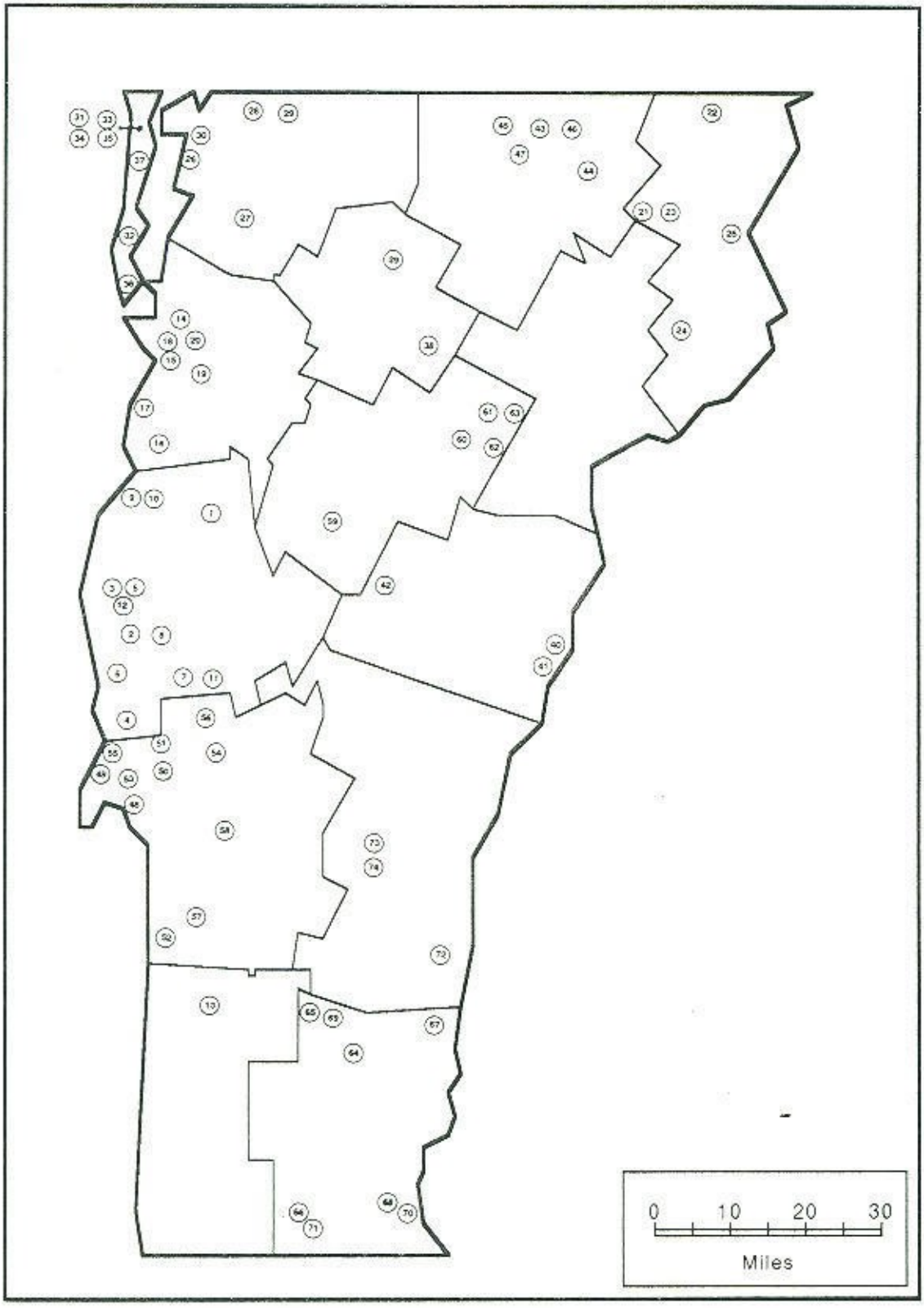
Pennsylvania



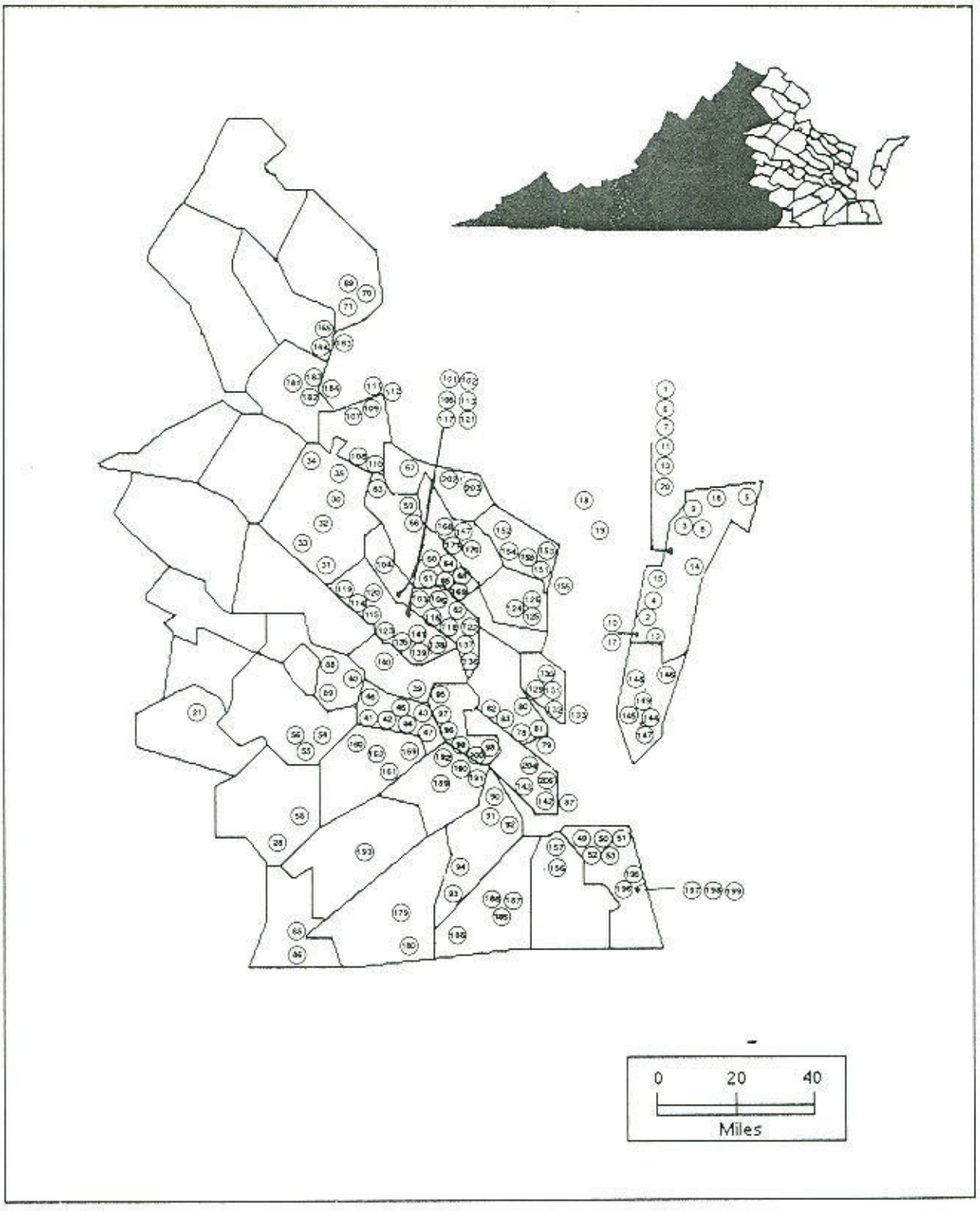
Rhode Island



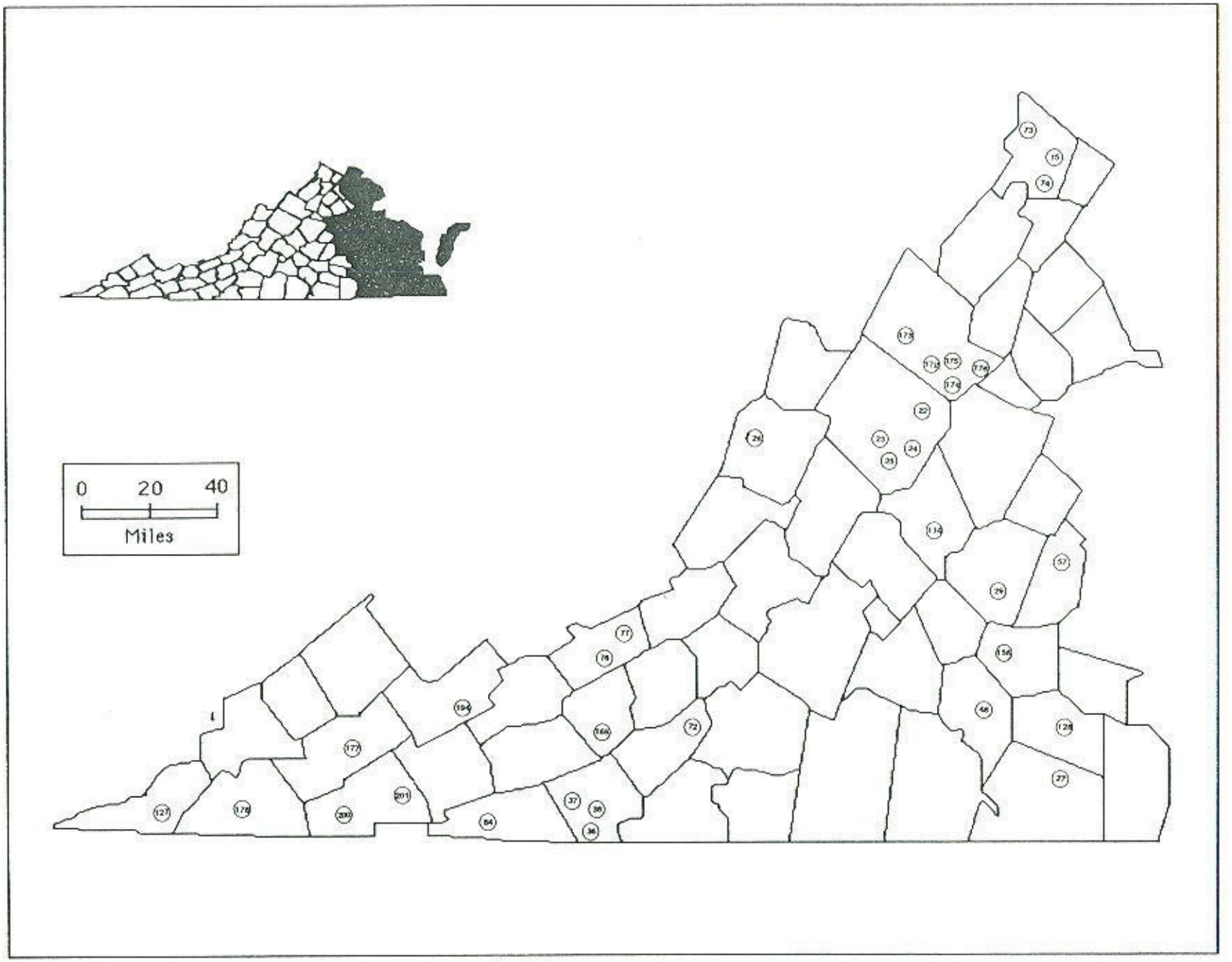
Vermont



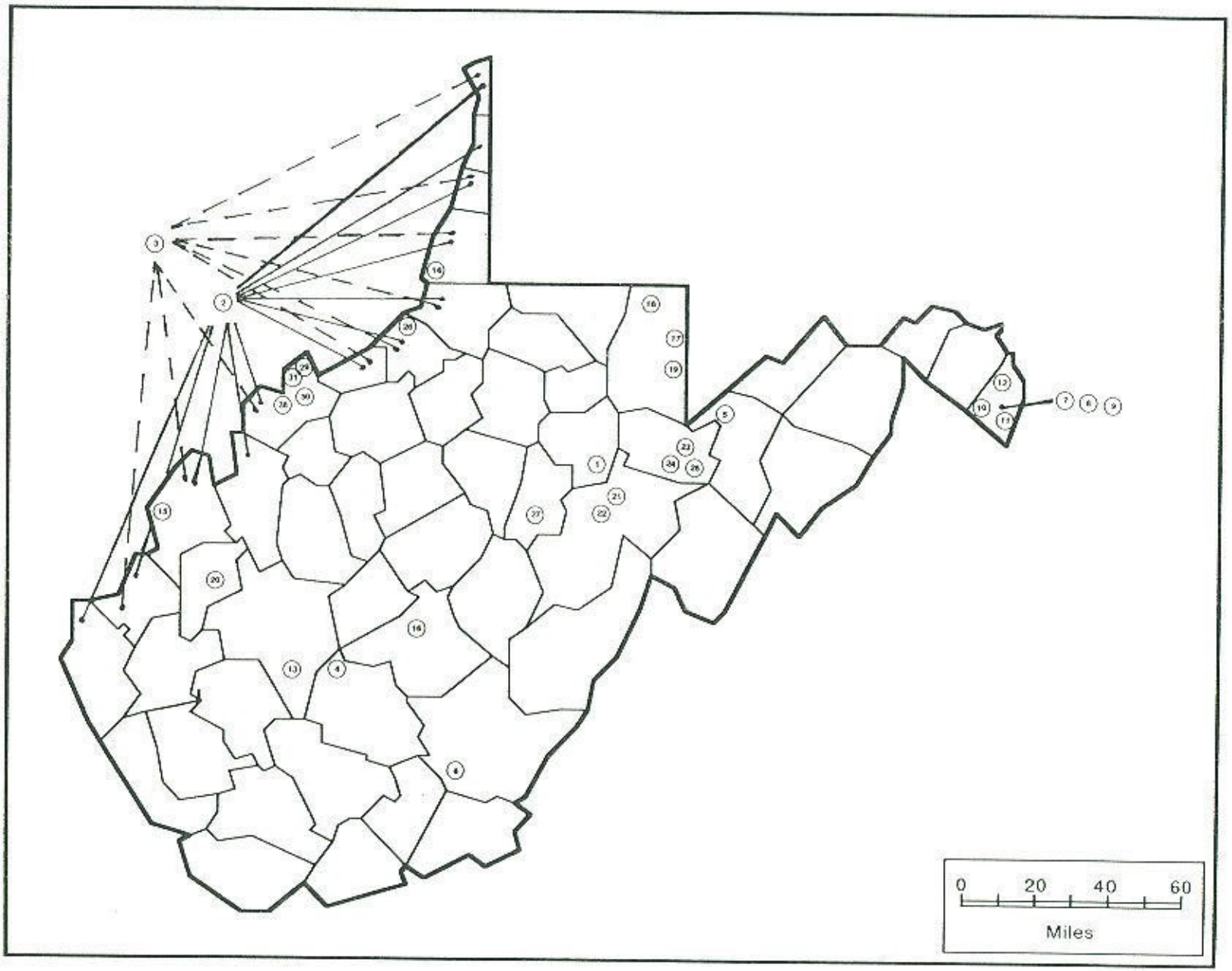
Virginia East



Virginia West



West Virginia



APPENDIX C

MATRIX INDICATING ADDITIONAL RECOGNITION OF PRIORITY WETLANDS BY FEDERAL OR STATE AGENCIES

The following codes apply to the headings in each table:

SCORP: Site identified in the State Comprehensive Outdoor Recreation Plan or by the SCORP agency in another document.

EPA: Site is identified by the Environmental Protection Agency as a priority wetland.

FWS: Site has been identified by the U. S. Fish and Wildlife Service as an Unique Ecosystem.

NAWMP: Site is included in a focus area of either the Lower Great Lakes-St. Lawrence Basin Joint Venture or the Atlantic Coast Joint Venture of the North American Waterfowl Management Plan, unless otherwise noted.

OTHER: Other designations. These will be identified by notes at the end of each State table.

CONNECTICUT

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Beckley Bog		x			x1
Canfield Island					
Congamond Pond					
Dead Man's Swamp				x2,3	
Great Island Marshes				x2,3	
Greenwich Cove					
Gulf Pond/Indian River				x2	
Manresa Island Marshes					
Moore Brook					
Pattagansett Marshes		x		x2	
Pecausett Meadows				x2,3	
Post/Pratt Coves				x2,3	
Quinnipiac Meadows		x		x2	
Robbins Swamp		x			x1
Rocky Hill Meadows					
Selden Creek				x2,3	
Squabble Brook					
Stratford Great Meadows		x		x2	
Village Creek					
Wangunk Meadows				x3	

1 Identified as a potential National Park Service National Natural Landmark.

2 Identified in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.

3 This site is part of the Connecticut River Marshes focus area identified in the ACJV report.

DELAWARE

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Appoquinimink River	x	x		x1	x2,3,4,5
Augustine Creek	x	x		x1	x2,3,4,5
Big Stone Beach/Rawley Island	x			x6	x3,4,5,7
Blackbird Forest Bays	x	x			x3,4,5
Blackbird Creek	x	x			x2,3,4,5,8
Borcherdt Property	x	x			x4,5
Cedar Creek/Beaver Dam	x	x		x1	x3,4,5
Double Ponds	x	x			x3,5
Dragon Run	x	x			x3,4,5
Huckleberry Swamp	x	x			x3,4,5
James Branch	x	x			x2,3,5
Love Creek	x	x			x5
Milford-Chain of Lakes	x	x			x3,5
Murderkill River	x	x			x2,3,4,5
Nanticoke River	x	x			x2,3,4,5
Sowbridge Branch	x	x			x3,4,5

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1 Identified by the U.S. Fish and Wildlife Service in the Category Plan for Preservation of Black Duck Wintering Habitat.
2 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
3 Identified on the Natural Heritage Inventory Scorecard.
4 Identified by the Delaware Office of Nature Preserves as a significant natural area.
5 Site identified in Delaware's Greenspace Plan.
6 Only Big Stone Beach is identified in the North American Waterfowl Management Plan Atlantic Coast Joint Venture report.
7 Big Stone Beach is included in the proposed acquisition area of the International Western Hemisphere Shorebird Reserve Network.
8 The U.S. Department of Commerce, National Oceanic and Atmospheric Administration, has identified this area as eligible for inclusion in the National Estuarine Research Reserve System.

MAINE

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Appleton Bog					x1
Aroostook River		x		x2	x1,3
Back River				x4	
Bagaduce River				x5	
Beaver Dam Pond/Heath					
Belgrade Bog					
Bell Marsh					
Big Bog				x2	
Black Brook Pond				x2	
Bog Brook				x2,6	
Carrying Place Cove		x		x5	
Cassidy Deadwater				x2	
Caucacomgomoc Stream, Brandy and Black Ponds				x2	
Crowley Island				x5	
Crystal Bog					x1
Dead River				x2	
Dennys Bay		x		x6,7	
Downing Bog				x2	
Dwinal Flowage					
Flagstaff Lake (15 miles)				x2	
Fowler Bog				x2	
Grand Marsh Bay				x5	
Hanson Bay				x4	
Hog, Taunton, and Egypt Bays				x5,6	
Jonesport Heath - North Unit		x			
Kennebec River (Richmond to Gardiner)				x4	x1
Kennebec River System (45 miles)				x2	x3
Kezar Outlet Fen					
Lake Umbagog (17 miles)		x		x2	
Little Kennebec Bay				x5	
Long Mill Cove		x		x5	
Lubec Flats		x		x6,7	
Mainstream Pond					
Marble Fen		x			
Marquoit Bay, Middle Bay, Harpswell Sound				x6,8	
Mattagodus Stream					
McCain Settlement Ponds				x2	
Meddybemps Heath		x	x		x1
Merrymeeting Bay		x		x4	x1,3
Mill River/Meadow Brook				x5	

MAINE

SITE	SCORP	EPA	FWS	NAWMP	OTHER
Mooseleuk Lake				x2	
Mud Pond				x2	
Muscongus Bay Complex				x6,8	
Narraguagus Lake/Spring River				x2	
Penobscot River Estuary		x		x5,6	
Penobscot River System (60 miles)				x2	x1,3
Pine Stream Flowage				x2	
Pleasant River		x		x5	x1,3
Plymouth Pond					
Rachel Carson NWR Inholdings		x		x6,8	
Raccoon Cove				x5	
Saco Heath		x			
Salmon Brook					
Sanford Ponds					
Sebasticook River System				x2	
Sheepscot River Complex		x		x8	x3
Skillings River				x5	
Skinner Bog				x2	
Sprague and Morse Rivers				x4	
St. George River		x		x8	x1,3
St. John River					x1,3
Straight Bay				x6,7	
Swimming Bog					
Thousand Acre Heath				x	x9
Tomah Flowage				x2	
White Pond Fen					
Whiting Bay				x6,7	
Wilson Mills Bog					
Winnegance Creek				x4	
Wohoa Bay Estuary				x5	
York River		x			

1 Identified by the State of Maine as an Outstanding or Significant River Segment.
2 This site is part of the Inland Wetlands focus area identified in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
3 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
4 This site is part of the Merrymeeting Bay and Lower Kennebec River focus area identified in the ACJV report.
5 This site is part of the East Coast focus area identified in the ACJV report.
6 This site is recognized in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the ACJV report.
7 This site is part of the Cobscook Bay focus area identified in the ACJV report.
8 This site is part of the West Coast focus area identified in the ACJV report.
9 Identified as Passadumkeag Marshes and evaluated as a possible National Park Service National Natural Landmark.

MARYLAND

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Allens Fresh	x	x			x1
Anvil Bog		x			x1,2
Big Bay Marshes				x3	x1
Black Bottom Ponds		x			x1,2
Calvin Robbins Marsh	x	x	x4	x5	
Carroll Pond					x1
Chapter Point/Quantico Marshes	x	x		x5	
Chaptico Bay/Chaptico Run Marshes		x			
Chews Lake					x1,2
Chicamuxen Creek Marshes	x				x1
Cunningham Swamp		x			x1,2,6
Dickenson Bay		x		x7	
Fishing Bay	x	x	x4	x5	x1
Frampton Marsh	x	x	x4	x5	
Gales Creek	x	x		x5	x1,2
Golts Pond		x			x1,2
Goose Bay Marshes		x			
Indian Creek		x			
Kane Crossroads Pond		x			x1,2
Kilpeck Creek Marshes		x			
Lower Pocomoke River Marshes		x		x8	x1,6,9
Marumsco Creek Marshes		x		x8	x1
Mattawoman Creek		x			x1
Mills Island	x			x7	
Nanjemoy Creek	x				x1,2,9
Negro Mountain Bog					x1,2
Newport Run		x			
Parker Creek	x				x1
Patuxent River Marshes	x			x7	x1,2,9
Picowaxen Marshes		x			
Pole Point/Marshall Point Marshes	x	x		x5	
Pomonkey Creek Marshes					
Popes Creek Marshes	x				x1,2
Richard Springs Marsh	x	x	x4	x5	
Round Island Gut	x	x		x5	
South River Marshes					
Spedden Marsh	x	x	x4	x5	
St. Clements River Headwaters					
St. Mary's River Headwaters					x1
Tizzard Island				x3	
Upper Nanticoke/Marshyhope River Marshes	x	x		x5	x1,2,9
Upper Pocomoke River Marshes		x		x8	x1,9

MARYLAND

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Wheatley Marsh	x	x		x5	
Wicomico Creek/Wagner Landing Marshes		x		x8	x9
Whitaker Swamp		x			x1,2
Zekiah Swamp	x	x			x1,2,6,9

1 Identified by the Maryland Natural Heritage Program.
2 Identified as a Maryland Nontidal Wetland of Special State Concern.
3 This site is part of the Sinepuxent/Chincoteague Bay Marshes focus area identified in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
4 Identified as the Dorchester County Eagle Nesting Area in the Unique Ecosystem Plan.
5 This site is part of the Blackwater/Nanticoke River Marshes focus area identified in the ACJV report.
6 Evaluated as a possible National Park Service National Natural Landmark.
7 This site is recognized in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and is part or all of a focus area identified in the ACJV report.
8 This site is part of the Lower Eastern Shore Marshes focus area identified in the ACJV report.
9 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.

MASSACHUSETTS

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Barnstable Marshes		x		x1	x2
Blackstone				x	
Duxbury Marshes		x		x1	x3
Essex Marshes		x		x4	x2
Gloucester Harbor				x4	x2
Great Cedar Swamp		x			x5,6
Hockomock Swamp		x			x5,7
Katama Bay, Sengekontacket Pond				x4	
Merrimack River		x		x8	
Nantucket Harbor				x4	
Nashua River				x	
Neponset River Marshes					
Newbury, Rowley, and Ipswich Marshes			x	x1,8	x2,9
North River Marshes					
Orleans Bay		x		x1,10	
Parker River Marshes				x8	x2,3
Pleasant Bay				x1,10	x2
Richmond Pond					
Salisbury Marshes		x		x1,8	
Saugus/Pine River, Lynn Harbor		x		x11	x2
Schenob Brook		x			x7,12
Shawsheen River Wetlands					
South River Marshes					
Sudbury-Assabet-Concord Rivers				x	x13
Wellfleet Harbor					x2
Westport River				x1	

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1 Identified in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
2 Identified by the Commonwealth of Massachusetts as a Coastal Area of Critical Environmental Concern.
3 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
4 Identified in the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat.
5 Identified by the Commonwealth of Massachusetts as an Inland Area of Critical Environmental Concern.
6 Identified as Sudbury River Headwaters and evaluated as a potential National Park Service National Natural Landmark.
7 Evaluated as a potential National Park Service National Natural Landmark.
8 This site is part of the North Shore Marshes focus area in the ACJV report.
9 The Ipswich River is on the National Rivers Inventory of designated or potential wild and scenic rivers.
10 This site is part of the Outer Cape Cod focus area in the ACJV report.
11 This site is part of the Greater Boston focus area in the ACJV report.
12 Nominated and accepted for review by the Commonwealth of Massachusetts as an Inland Area of Critical Environmental Concern.
13 The Concord and Sudbury Rivers are both on the National Rivers Inventory of potential or designated wild and scenic rivers.

NEW HAMPSHIRE

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Cedar Swamp Pond Bog and Swamp					
Chain-of-Ponds					
Coastal Marshes	x				
Deerfield Black Gum Swamp	x				x1
Durham Point Sedge Meadow	x				x1
Grassy Pond					
Great Bay	x			x2	x3
Great Bog/Packer Bog					
Hurlbert Swamp/Avery's Swamp	x				x1,4
Lake Umbagog	x	x	x	x2	x5
Lancaster Bog	x				x1
Livermore Falls					
Manchester Cedar Swamp	x				x1
Merrymeeting Marsh	x				
Pine River	x				x1,6
Rochester Heath Bog	x				x1
Route 145 Fen	x				x1
Sewalls Falls					
South Bay Bog					
Spruce Swamp					
Stratford Island					
Winnipesaukee River-Tioga River Wetlands					

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1 Identified in the New Hampshire Natural Heritage Inventory.
2 Identified in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the North American Waterfowl Management Plan Atlantic Coast Joint Venture report.
3 Designated by the State as a National Estuarine Research Reserve.
4 Hurlbert Swamp is a designated National Natural Landmark.
5 Evaluated as a potential National Park Service National Natural Landmark.
6 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.

NEW JERSEY

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Beagle Club Woods	x	x			x1
Bear Swamp West		x2			x1
Beaver Brook	x	x3			
Brigantine-Barnegat Wetlands		x		x	
Cape Island/Pond Creek	x	x4	x5		
Dismal Swamp	x	x			
Glacial Lake Passaic Wetlands	x	x			x6
Great Egg/Jarvis				x	x6
Great Cedar Swamp (Cape May NWR)	x	x		x7,8	
Hospitality Branch	x	x			x1,9
Hyper Humus Fen	x	x			x1
Johnsonburg	x	x			x1
Lake Pines	x	x			
Malibu Beach	x	x			
Manahawkin Lake	x	x			x1
Mannington Meadows	x	x		x10	
Manumuskin River Complex	x	x11			x1,9
Maurice River Marshes		x		x	x1,9
Metro Park Wetlands	x				
Mountain Lake Bog	x				x1
Oldman's Creek/Raccoon Creek	x	x		x8	
Oswego River Lowlands Macrosite	x	x			x1,9
Pole Tavern	x	x			
Raritan Center	x	x			
Reedy Creek	x				
Salem River Floodplain	x	x		x	x1,9
Sewell Point	x				
Tocks Swamp	x	x			x1
Uttertown Bog	x	x3			x1
Wallkill River	x	x		x	x1
Walnford Floodplain	x	x			x1
Washington Valley Reservoir	x	x3			
West Branch Wading River	x	x			x1,9
Woodruffs Gap Fen	x	x			x1

1 Identified by the New Jersey Natural Heritage Program.
2 This site is part of the Dividing Creek Wetland Complex identified by the Environmental Protection Agency (EPA) as a priority wetland.
3 This site is part of the Passaic River Basin identified by EPA as a priority wetland.
4 This site is identified as Cape May Meadows by EPA in their priority wetland list.
5 This site is identified as South Cape May Marshes by EPA in their priority wetland list.
6 Evaluated as a potential National Park Service National Natural Landmark.

NEW JERSEY

7 This site is part of the Cape May Marshes focus area in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
8 Identified in both the U.S. Fish and Wildlife Service Category Plan for the Preservation of Black Duck Wintering Habitat and the ACJV report.
9 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
10 Identified in the U.S. Fish and Wildlife Service Category Plan for the Preservation of Black Duck Wintering Habitat.
11 This site is part of the Maurice River Wetlands identified by EPA as a priority wetland.

NEW YORK

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Acabonack Harbor	x				
Adams Swamp				x1	
Alder Bottom					
Alewife and Scoy Pond Wetlands					
Alley Creek	x				
Apaucuck Point				x2	
Atlanta-Wayland					
Bashakill					
Beaver Creek				x3	
Beaverdam Creek				x2	
Bergen Swamp					x4
Big Bay Wetland				x5	
Black Lake Wetlands				x3	
Black Pond Marsh				x1	
Black Ash					
Black Creek Marsh				x3	
Boland Creek				x3	
Bonaparte Swamp					
Brandy Brook Wetlands				x3	
Brennan Beach Fen				x6	
Browns Point	x				
Brushes Creek	x				
Butterfly Creek				x6	
Carmans River				x2	x7
Cases Creek	x				
Cedar Beach Creek	x				
Chippewa Creek				x3	
Clark Corners Fen					
Cold Spring Pond	x			x2	
Coles Creek				x3	
Con Hook					
Conkling Point	x				
Cow Neck				x2,8	
Coxsackie Marsh					
Cranberry Creek				x3	
Crooked Creek				x3	
Culloden Point				x9	
Cutchogue Harbor and Wetlands	x				
Dam Pond/Orient Harbor	x				
Deep Hole Creek	x				
Deer Creek (South)				x6	
Downs Creek					
Drowned Lands Swamp					

NEW YORK

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Dune Road Marsh				x2	
Earltown Corp. (Great Bear Swamp)					
East Bay					
Eaton's Neck Point					
Esopus Estuary					
Franklinton Vlaie					
French Creek				x1	
Gardiners Island			x	x10	
Glen Lake Fen					
Goose Creek	x				
Great Swamp					
Great Chazy River					x7
Great Swamp Pawling					
Great Vly Marsh					
Grindstone Creek Marsh				x6	
Hasharnomuck Pond	x				
Henderson Pond				x1	
Honeoye Inlet					
Horseheads Marsh					
Howland Hook/Goethals Bridge					
Inbocht Bay and Duck Cove					
Indian River Wetlands				x3	
Isle of Meadows/Fresh Kills					
James Creek	x				
Java Lake					
Junius Pond					
Kings Bay					
Lamoka Lake Wetland					
Lido Beach				x2	
Lily Marsh				x6	
Line Creek				x3	
Little Creek and Beach					
Little Stony Creek Marsh				x1	
Little Cedar Pond					
Lloyd Harbor				x10	
Log Pond Flats					
Long Beach Bay	x				
Long Creek/Mattituck Creek	x				
Long Pond Greenbelt					x4
Lot Ten Swamp (Catfish Creek)					
Ludlows Creek/Benton Bay				x2	
Marratooka Point	x				
Maumee Swamp	x				

NEW YORK

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Mill Creek Wetlands				x7	
Millerton Bog Turtle Site					
Montys Bay					
Moodna Creek					
Moriches Bay Tidal Creeks				x2,8	
Motts Cove					
Mount Sinai Harbor					
Muskrat Bay					
Namkee Creek Additions	x			x2	
New Suffolk	x				
North Haven				x2	
Northern Montezuma			x	x	x4
Nutten Hook					
Old Field Beach					
Otter Creek					x7
Owasco Inlet					
Papscance Marsh					
Pattersquash Creek	x				
Peconic River				x10	
Peter Scott Swamp					
Point Vivian Marsh					
Pralls Island/Sawmill Creek Marh					
Premium Lake	x				
Prospect Point					
Rainbow Shores Bog				x6	
Ramshorn Creek					
Randolph Swamp					
Reeves Creek	x				
Reeves Bay/Peconic River Complex	x				
Richmond and Corey Creeks	x				
Robins Island					
Rondout Creek Mouth					
Sage Creek Marsh				x6	
Salmon River Estuary				x6	
Sangerfield Marsh (Ninemile Swamp)					
Scallop Pond/Sebonac Creek	x			x2	
Scomotion Creek (Dead Creek)					
Sea Cove Lane	x				
Shinnecock Bay Barrier Beach	x			x2,8	
Silver Lake/Mud Pond				x6	

NEW YORK

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Snake Creek Marsh				x6	
South Beach					
South Pond Marsh				x6	
Southampton Beach				x2	
Squires Pond	x			x2	
Sterling Creek Marsh				x6	
Stillman Creek Additions				x2	
Stockport Creek Marshes					
Stokes-Poges	x			x2	
Stony Brook Harbor				x10	
Swamp River					
Swan River				x2	
Tamarack Swamp	x				
The Narrows					
Toad Harbor				x5	
Towd Point					
Vanderburgh Cove					
Vanderlinden Marsh					
Vosburgh Swamp and West Flats					
Wading River Marsh					
White Lake Swamp					
Wolf Pond Fen					
Woodruff Pond					

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1 This site is part of the Eastern Lake Ontario Bays focus area in the North American Waterfowl Management Plan Lower Great Lakes-St. Lawrence Basin Joint Venture (LGL-SLBJV) report.
2 This site is part of the South Shore Mainland Marshes focus area identified in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
3 This site is part of the St. Lawrence Valley focus area identified in the LGL-SLBJV report.
4 Evaluated as a potential National Park Service National Natural Landmark.
5 This site is part of the Oneida Lake-Verona Marsh focus area in the LGL-SLBJV report.
6 This site is part of the Lake Shore Marshes focus area in the LGL-SLBJV report.
7 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
8 Identified in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the ACJV report.
9 This site is part of the Barrier Beaches focus area identified in the ACJV report.
10 Identified in the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat.

PENNSYLVANIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Acquishicola Creek Pipeline		x			x1
Adamstown Marsh		x			
Allegheny River Wetlands		x			
Arnot Bog		x		x2	x1
Arnot Run		x		x2	
Backus Swamp		x			
Bald Eagle Creek		x			
Bald Eagle Valley		x			x1
Ball Lake		x		x3	
Barmore Run		x			
Beaver Run Seep/Titus Bog		x		x3	
Beaver Run		x			x1
Big Rouse Pond		x			
Big Spring Creek		x		x4	x1
Bigelow Lake		x		x3	
Black Run		x			x5
Boleratz Bog		x		x6	
Brown's Cranberry Bog		x			
Buck Run		x			
Buckstown Swamp		x			
Buffalo Creek		x		x2	
Catherine Swamp		x			
Cessna Marsh		x		x2	
Chandlers Valley		x			x1
Circle Bog		x			x7
Clear Lake Wetlands		x			
Clearfield Creek and Tributaries		x		x6	
Conneaut Lake		x		x3	
Cranberry Swamp		x			
Edinboro Fen		x			
Elk Creek Slump		x			x1
English Swamp		x		x4	
Farrell Corners Fen		x		x4	
Flat Rock Bog		x			
Fowler Bog		x			
Fringed Gentian Fens		x		-	
Green Lane Reservoir		x		x3	
Grove City Wetlands		x			
Halfmoon Swamp		x			
Henrietta Marsh		x			
Hosensack Creek Drainage		x			
Imler Swamp		x			
Isers Run		x			

PENNSYLVANIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
K O Junction		x			
Kettle Creek Fen		x			x1
Lake Hiawatha		x		x4	x1
Lake Wilhelm Headwaters		x		x3	
Lake Como Mud Pond		x		x4	x1
Lake Pleasant Outlet		x			
Lakewood Bog		x		x4	x1
Laporte Bog		x			x1
Laurel Hill Creek		x			
Lee's Swamp		x			
Lehman Swamp		x			x1
Letort Spring Run		x			x5
Lily Lake		x			
Little Bigelow Lake		x		x4	x1
Little Hickory Lake		x		x4	x1
Little Conemaugh River		x			
Little Rouse Pond		x			x1
Little Beaver Creek		x			
Long Pond		x			x1
Lost Lakes/Halfmoon Lake		x			x1
Lovelace Pond		x		x4	
Mansfield Fen					x1
Maple Beach		x		x8	x1
Markleysburg Bog		x			
Marsh Creek		x		x	
Meadville Junction		x		x9	
Mercer Bog		x			x5
Midmont Swamp		x			
Millbrook Marsh		x			
Mitchel Fen		x			
Montandon Marsh		x			x1
Mt. Bethel Fen		x			x1
Mud Island		x		x8	x1
Neshaminy Creek		x		x8	x1
Neshannock Creek		x		x3	
Orson Glade		x		x4	x1
Osgood Swamp		x		-	
Osterburg Marsh		x			
Otter Creek Wetlands		x		x3	x5
Oysterville Creek Drainage					
Penn Warner Club				x8	x1
Pine Swamp		x			x5
Plaingrove Fen/Grange Hall Fen		x			x5

PENNSYLVANIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Poyntelle Lake		x		x4	x1
Prompton Bog		x		x4	
Quakertown Marsh		x			x1
Roaring Run		x			
Sandy Lake		x			
Sandy Lick Creek		x			
Sandy Hollow		x			
Sawkill Mud Pond		x			x1
Schollards Wetlands		x			x5
Scmitthenner Lake		x			x1
Shawville Swamp		x			
Slippery Rock Creek		x		x3	x7
Sproul Marsh		x			
Spruce Pond Wetlands		x		x4	x1
Summit Station		x			
Swamp Run		x		x3	
Swamp Root		x			
Tamarack Swamp		x			
Ten Acre Pond		x			
The Sinks		x			x1
Tippery Wetland		x			
Tower City Wetlands		x			
Tulleytown Cove		x		x8	x1
Twelve Mile Pond		x			x1
Two Mile Run Swamp		x			x1
Wagners Bog		x			x1
Warnertown Swamp		x			x1
Waterside Wetland		x			
Wellsboro Junction		x			
West Branch Conneaut Creek		x		x6	
West Branch French Creek		x			
West Branch Susquehanna River		x		x10	x7
Wheatland		x			
Wigwam Run		x			
Wilcox Wetlands		x		x4	
Wolf Creek		x		x3	
Woodbury Seep		x			

1 Identified in the Pennsylvania Natural Diversity Inventory prepared by The Nature Conservancy on August 20, 1986.

2 This site is part of the Alleghany Plateau focus area in the North American Waterfowl Management Plan Lower Great Lakes - St. Lawrence Basin Joint Venture (LGL-SLBJV) report.

3 This site is part of the Mercer-Butler Counties focus area in the LGL-SLBJV report.

PENNSYLVANIA

4 This site is part of the Wayne County focus area in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
5 Evaluated as a potential National Park Service National Natural Landmark.
6 This site is part of the State Game Lands 213-214 Complex focus area in the LGL-SLBJV report.
7 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
8 This site is part of the Bucks and Montgomery County Wetlands focus area in the ACJV report.
9 This site is part of the Erie National Wildlife Refuge and State Game Lands focus area in the LGL-SLBJV report.
10 Identified in the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat.

RHODE ISLAND

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Brown Point Marsh				x	
Coastal Ponds (Briggs, Long, Quicksand)	x			x1	x2,3,4
Donovan Marsh				x	
Factory Pond	x			x	x2,3,4
Fogland Point Marsh				x	
Grassy Pond	x				x2,4
Green Hill Pond	x			x	x3,4
Hundred Acre Cove	x	x			x2,3,4
Hunt/Potowomot Rivers	x	x			x2,3,4
Little Grass Ponds (Great Grassy, Little Grassy, Whitford)	x				x2,3,4
Lonsdale Marshes	x	x			x2,5
McGowan (Chapman) Swamp	x				x2,3,4,6
Mishnock Swamp	x				x2,3,4
Moosup River	x	x			x2,3,4
Ninigret Pond	x			x1	x3
Palmer River	x	x			x2,3,4
Pawcatuck/Wood Rivers	x	x			x2,3,4,7
Pettaquamscutt River		x		x1	
Phantom Bog					x2
Potter Pond/Fresh Pond	x			x	
Quonochontaug Ponds	x			x1	x2,3
Sapowet Marsh				x	x2
Trustom Pond/Card Pond	x			x	x3
Winnapaug Pond	x			x1	x2,3,4

1 Identified in both the U.S. Fish and Wildlife Service Category Plan for Preservation of Black Duck Wintering Habitat and the North American Waterfowl Management Plan Atlantic Coast Joint Venture report.

2 Identified by the Rhode Island Department of Environmental Management, Natural Heritage Program.

3 Identified by the Rhode Island Department of Environmental Management in Open Space Preservation in Rhode Island: An Inventory of Significant Sites (1983).

4 Identified by the Rhode Island Department of Environmental Management, Division of Fish and Wildlife.

5 Evaluated as a potential National Park Service National Natural Landmark.

6 Identified as "Newton Swamp" and evaluated as a potential National Park Service National Natural Landmark.

7 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.

VERMONT

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Bear Swamp	x				x1
Beaver Meadow	x	x			
Belvidere Pond	x				
Berlin Pond Marsh	x				
Billings Marsh	x	x			x1
Black River Marsh	x			x2	x1,3
Bog Pond	x				x1
Bristol Pond	x				x1
Buck Flat Marsh	x				
Burbees Pond	x				
Carman's Swamp Marsh	x			x4	
Chickering Bog	x				x1
Clyde River Marshes	x				x1
Coits Pond	x				
Cornwall Swamp	x	x			x1,5
Dead Creek Marshes	x	x			x1,3,5
Delta Park	x				x1
Dorset Marsh	x	x			x1,5
East Creek Marshes	x	x			x1,3
Fairfield Swamp	x				x1
Ferdinand Bog	x				x1
Franklin Bog	x	x			x1,5
Gale Meadows	x				
Gates Pond	x				
Hall's Creek Marshes					
Herrick's Cove	x				x1
Hospital Creek	x				
Hunt's Meadow	x				
Intervale	x	x			x1
John's River Marsh	x			x2	
Kelly Bay Marshes		x		x4	x1
Kimball/Thorpe Brook Marshes	x				x1
Lake Carmi Bog	x				x1
Lake Morey Wetlands	x				
Lake Champlain Islands - Marshes	x	x		x4	x1
Lake Hortonia Marshes	x	x			x1
Lake Bomoseen Marsh	x	x			x1
Lamson Pond	x				
LaPlatte River Marshes	x				x1
Larabee Point Marsh	x				x1
Leicester River Swamp	x				x1
Lemon Fair River Flats	x				
Lewis Creek Marshes	x				x1,3

VERMONT

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Little Pond	x	x			
Little Otter Creek Marshes	x				x1,5
Lowell Lake	x				
Marshfield Pond	x				
Mill Pond	x	x			
Molly's Falls Reservoir	x				
Mud Creek	x	x		x4	x1
Munson Flats	x				x1
Narrows of Dresden	x	x			x1
Nulhegan Pond	x			x2	x1
Otter Creek Marshes (Addison Co.)	x	x6			x1,3
Otter Creek Marshes (Rutland Co.)	x	x			x3
Palmer Swamp	x	x		x4	
Parsons Mill Pond	x	x			
Reading Bog	x	x			x1
Retreat Meadows	x				x1
Rock River Marshes	x			x4	x1,3
Ryder Pond	x				x1
Scanlon Bog	x	x			x1
Southern Lake Memphremagog Wetlands		x		x2	x1,3,5
South Hero Marsh	x	x		x4	x1
South Reading Beaver Pond	x	x			
South Alburg Swamp	x	x		x4	x1
The Marsh	x	x		x4	
Tinmouth Channel	x	x			x1
Tremble Creek	x				
Victory Basin	x				x1
West Rutland Marshes	x	x			x1
Williston Bog	x				x1
Winooski River Marshes	x				x1,3
Yellow Bogs	x				x1

1 Included in the Vermont Natural Heritage database.
2 This site is part of the Orleans County/Essex County Marshes focus area in the North American Waterfowl Management Plan Lower Great Lakes-St. Lawrence Basin Joint Venture (LGL-SLBJV) report.
3 This river is on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
4 This site is part of the Franklin County/Grand Isle County Marshes focus area in the LGL-SLBJV report.
5 Evaluated as a potential National Park Service National Natural Landmark.
6 Part of the Lake Champlain site listed by the U.S. Environmental Protection Agency as a priority wetland.

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Accokeek Creek	x				
Allen's Mill					x1,2,3
Appomattox River Wetlands	x	x			x2
Aquia Creek					
Assamoosick Swamp	x	x			x2
Assawoman Island	x	x	x4	x5,6	x2
Back Bay Wetlands		x		x	x2
Back Creek/Route 681					x2
Baileys Ridge				x7	
Ballard Marshes					x2
Barns Chapel Swamp					
Baylor Swamp		x			x2
Beaver Pond Creek		x			x2
Beaverdam Creek Swamp	x				
Bell Swamp/Owens Pond					x2
Belle Isle	x	x		x6,8	x2,3
Beverly Marsh/Payne's Island					
Big Marsh Point				x7	
Big Marsh Complex					x2
Big Spring Bog		x			x2,3
Blackwater Creek	x	x			x1,2,9
Blackwater River Wetlands	x				x2
Bluff Point Marsh	x	x			x1
Boardly Marsh					x2
Bolar Mountain Pond					x2
Brent Marsh					
Bridges Creek	x	x		x6,8	x3
Broad Creek	x	x		x10	x1
Brooks Creek Marsh	x				x2
Burkes Garden					x2
Bush Mill Stream Wetlands					
Bush Point Marsh					
Butlers Bluff				x7	
Byrds Marsh					x2
Cat Point Creek					x2
Catlett Islands	x	x	x4	x5,6	x2
Cedar Island	x	x		x6	x1,2,3
Chickahominy River Marshes	x	x		x6	x2,3,9
Chickahominy Swamp	x	x			
Chincoteague Interior Swale Wetlands	x	x		x5,6	x2
Chotank Creek					
Clayborne Creek/Old Town Creek		x		x6,11	x1,2

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Cleve Marsh					
Clinch River Floodplain					
Clinch River Shoals	x				x2
Cohoke Marsh		x		x6,11	x1
College Creek Wetlands					x2
Cousiac Marsh		x		x6,11	x1
Cranberry Bog/Little Meadows	x				x2
Crouch Creek/Timber Neck Creek					
Curles Neck Creek					x2
Cypress Swamp					x2
Dameron Marsh	x				
Deep Run Pond					x2
Difficult Run					
Dogue Creek					x2
Dragon Run	x	x			x1,9
Drummonds Millpond				x7	x2
Eltham Marsh		x			x1
Eppes Island		x		x6,12	
Farrar Island		x			
Fishermans Island	x				x2
Flannegan Point Marsh/Custis Cove Marsh				x7	
Four Point Marsh		x			
Fox and Little Fox Islands				x7	
Freeschool Marsh				x7	
Gambo Creek					
Garnetts Creek Marsh	x	x		x10	x1,2
Gingoteague Creek					
Glass Island Marshes	x	x		x10	x1
Gleason Marsh/Wakema	x	x		x10	x1,2
Goldenvale Creek		x			
Gordon Island	x				x2
Grafton Ponds					x2
Gray's Creek Marsh					
Great Dismal Swamp					x2
Greens Creek					x2
Grove Farm Pond					x2
Guinea Marshes					x2
Gum Swamp		x			x2
Hack Creek					x2
Hacks Neck				x6,7	
Halfmoon Island/Webb Island				x7	
Hanks Branch					

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Hatcher Island		x			
Heartquake Creek Marsh	x	x		x10	x1,2
Herring Creek Wetlands					
Hill Marsh		x		x6,11	
Hoffler Creek Marsh					
Hollis Marsh Island/Currioman Bay Wetlands	x		x		
Horse Landing	x	x		x10	x1,2
Horsehead Point/Marsh Point/Toby's Point	x	x		x6,8	x1,3
Hoskins Creek Marsh					x2
Hovermale Ponds					
Hughlett Marsh					
Hyslop Marsh					
Jones Neck		x			
Jones Creek Wetlands					x2
Kennon Marsh					x2
Kirk Track					x2
Lanexa Marsh					x3
Lawnes Creek Marsh					
Lee Marsh		x		x6,11	x1
Lilleys Neck					x2
Lilly Point Marsh Complex	x	x		x6,11	x1,2
Linard Creek					
Little Laurel Run					x2
Little Carter Creek Marsh					
Long Creek Marsh					
Love Swamp					x2
Lower Kittewan Marsh					x2
Lower Chippokes Creek Marsh					x2
Madison Run					x2
Magnolia Swamp	x	x			x2
Magothy Bay Fringing Wetlands					x2
Mantapike Creek	x	x		x10	x1,2
Maple Springs Pond					x2
Marks Island/Jacks Island				x7	
Mathews County Interior Wetlands					x2
Mattaponi River Bottomlands		x			x1,2
Matton Creek/Macon Creek		x		x6,11	x1,2
Meherrin River Wetlands		x			x1
Metompkin Island	x	x	x4	x5,6	
Morris Creek Wetlands					
Mosquito Island					

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Mount Landing Creek Wetlands					x2
Mountain Lake					x2
Muddy Point/Burnt Mill Creek Complex	x	x		x10	x1
Mulberry Island	x	x		x6,8	x1,3
Nansemond River/Bennett Creek Marshes					
Neabsco Creek					x9
North Point					
North Landing River Wetlands	x	x		x	x2,3
Northwest River Wetlands	x	x			x1,2
Nottoway Falls		x			x2
Nottoway River Wetlands	x	x			x1,2,3,9
Occupacia Creek	x	x		x6,8	x1,2,3
Otterburn Marsh/Drake's Marsh	x	x		x6,8	x3
Pagan River Marshes					
Parkers Marsh				x7	x2
Parson's Island/Sunken Marsh/ Old Neck	x				
Peatross Swamp					x2
Persimmon Point					
Pinehurst Wetlands					
Piney Creek Bog					x2
Piscataway Creek Marsh					x2
Pitts Creek Marsh	x				
Plantation Creek	x				x2
Plum Tree Island/Black Walnut Ridge					x2
Pocaty Creek Swamp		x			x2,3
Pocaty River		x		x6,13	x3
Pohick and Accotink Creeks					x2
Pointers Landing	x	x		x10	x1,2
Polkwest Creek Marsh		x		x6,11	x1,2
Poropotank River	x				x1
Potomac Creek Wetlands					
Powell River Wetlands	x				x2
Powell Creek Marsh					x2
Powell's Creek					x2
Powhatan Creek/Longhill Swamp/ Chisel Run	x				x2
Purtan Island					
Quantico Creek					
Rigby Island					x2

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Roanoke Creek Wetlands					
Roudebush Ponds					x2
Rowanty Swamp					x2
Rush Creek					
Ruther Glenn	x				
Salem Run Bog					x2
Sandy Point	x	x		x10	x1,2
Savage Neck Dunes		x			x2
Scuitkill Neck Marsh Complex					
Shanty Creek					x2
Shenandoah Mountain Sink Holes	x				
Skinker Neck/Moss Neck/ Corbin Neck					
Skipper's Bog	x	x			x2
Slate River		x			
Smith Island Complex		x			x2
South Quay Pine Barrens					x2
South River Wet Meadow	x	x			x2
Stumpy Lake					x2
Sunken Meadows	x				x2
Sussex Schoolhouse Swamp					x2
Sweet Hall Marsh		x		x6,11	x1
Tangier Island Complex		x			
The Slash					x2
Totuskey Creek					
Twin Falls (Lick Fork Falls)					
Upper Machodoc Creek					
Upper Chippokes Creek	x				
Walkerton					x2
Ward's Creek					
Ware Creek (Caroline County)					
Ware Creek and Terrapin Point					
Warehouse Marsh					x2
Warwick River					
Watts Island			x		
West Landing		x		-	x2
West Neck Creek					x2,3
West Island	x	x		x6,11	x1
Weyanoke Point					
White's Landing		x		x6,11	x1,2
White's Lake Marsh	x				x2
Willis River Wetlands		x			
Winter Harbor Marsh					x2

VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Yarmouth, Simpson, and Wright Creeks					x2
Zuni Pine Barrens					x2

1 This river or its associated wetlands are on the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.
2 Identified by the Virginia Natural Heritage Program for presence or potential presence of natural heritage resources.
3 This site is a component of the Virginia Scenic Rivers System.
4 Identified as the Virginia Coastal Barrier Islands in the Unique Wildlife Ecosystems report.
5 This site is part of the Virginia Eastern Shore (Seaside) focus area in the North American Waterfowl Management Plan Atlantic Coast Joint Venture (ACJV) report.
6 Identified in both the U.S. Fish and Wildlife Service Category Plan for the Preservation of Black Duck Wintering Habitat and the ACJV.
7 This site is part of the Virginia Eastern Shore (Bayside) focus area in the ACJV report.
8 This site is part of the Rappahannock River Marshes focus area in the ACJV report.
9 Evaluated as a potential National Park Service National Natural Landmark.
10 This site is part of the Mattaponi River Marshes focus area in the ACJV report.
11 This site is part of the Pamunkey River Marshes focus area in the ACJV report.
12 This site is part of the James River Marshes focus area in the ACJV report.
13 This site is part of the Back Bay Marshes North Landing focus area in the ACJV report.

WEST VIRGINIA

SITE NAME	SCORP	EPA	FWS	NAWMP	OTHER
Albee Marl Marsh		x			x1
Altona Marsh		x			x1
Blennerhassett Island Swamp		x	x2		x1
Boaz Marsh		x			x1
Canaan Valley		x			x1,3
Cranesville Swamp		x			x1
Difficult Creek Swamp		x			x1
Dobbins Slashings		x			x1,3
Elder Run Bog		x			x1
Fike Run		x			x1
Fish Creek Area		x			x1
Harewood Marsh		x			x1
Holly Grove Swamp		x			x1
Hopewell Marsh		x			x1
Lake Louise		x			x1
Meadow River Complex		x	x		x1
Meadowville (Glady Creek)		x			x1
Muddlety Creek Complex		x			x1
Ohio River Islands		x	x		x4
Ohio River Embayments		x			x1
Paden City Area		x			x1
Point Pleasant Swamp		x			x1
Pond Run Marsh		x			x1
Reidbord Swamp		x			x1
Snowy Creek Swamp North Branch		x			x1
Spa Run		x			x1
Tygart Valley Wetlands		x			x1,4
Vienna Area		x			x1
Watson Island		x			x4
Wheeler Islands		x			
Winfield Swamp		x			x1

1 This site is included on the West Virginia Natural Heritage Inventory.
2 This site is part of the Ohio River Islands site.
3 Evaluated as a potential National Park Service National Natural Landmark.
4 This site is associated with a river listed in the Nationwide Rivers Inventory of designated or potential wild and scenic rivers.

APPENDIX D

WETLANDS ASSESSMENT THRESHOLD CRITERIA

NATIONAL WETLANDS PRIORITY CONSERVATION PLAN
WETLANDS ASSESSMENT THRESHOLD CRITERIA

INSTRUCTIONS: Complete this page to determine whether a wetland site (refer to Wetlands Profile Guidance) qualifies for acquisition consideration under the National Wetlands Priority Conservation Plan.

Use the attached guidance for estimating wetland losses, threats and functions and values thresholds. The guidance is organized in the same sequence as the threshold criteria and will direct the user to an appropriate conclusion. Complete all questions and statements.

1. WETLANDS PROFILE:

a. Wetland Site Name:_____ File No:_____
b. USGS 1:24,000 Map Quadrangle Name:_____
c. Township:_____; Section:_____
d. Longitude:_____; Latitude:_____
e. City:_____; County:_____; State:_____
f. Ecoregion:_____(refer to Cowardin *et al.*, 1979, p.27).
g. Size:_____(acres). Date of wetlands assessment:_____

2. WETLAND LOSS PRIORITY: (circle one) 1 2 3 4 5

Must be priority level 1, 2, or 3 to meet threshold.

3. IS THE WETLAND SITE THREATENED? (refer to the attached guidance under Wetland Threats) Must be circled "yes" to meet threshold.

YES NO

4. WETLAND FUNCTIONS AND VALUES

Check all that apply. Must check at least two to meet threshold.

___ a. Wildlife
___ b. Fisheries
___ c. Water Supply/Quality, Flood and Erosion Protection
___ d. Outdoor Recreation
___ e. Other Areas or Concerns _____

5. CONCLUSION

_____ Yes, wetland site meets all threshold criteria and qualifies for acquisition consideration under provisions of the National Wetlands Priority Conservation Plan.

_____ No, wetland site does not meet all threshold criteria and therefore does not qualify for acquisition consideration under provisions of the National Wetlands Priority Conservation Plan.

GUIDANCE FOR ESTIMATING WETLAND LOSSES, THREATS AND VALUES THRESHOLDS

1. WETLANDS PROFILE

Complete items (a) through (g) to give a name and address to each wetland site.

For the purpose of the National Wetlands Priority Conservation Plan, a wetland site is an identifiable property, tract, area, or region containing wetlands or a complex (aggregation) of physically- or functionally-related wetlands. A wetland site may contain a variety of wetland types, interspersed habitat of other types and associated upland buffer areas. The boundary of the site should be specific and as geographically restricted as practical, determined by application of sound acquisition principles. In other words, regardless of size, a wetland site should be treated in terms of a unit which would generally fit the acquisition goals, process and needs of the user.

2. WETLAND LOSSES

Wetlands will be classified as follows: System, subsystem, class and water regime according to Cowardin *et al.*, 1979 (refer to key on next page). Estimate percent of site for each type.

TYPE *system* *subsystem* *class* *water regime*	PERCENT OF SITE
a. ___ : ___ : ___ ___ : ___	___ %
b. ___ : ___ : ___ ___ : ___	___ %
c. ___ : ___ : ___ ___ : ___	___ %
d. ___ : ___ : ___ ___ : ___	___ %
e. ___ : ___ : ___ ___ : ___	___ %
f. ___ : ___ : ___ ___ : ___	___ %
g. ___ : ___ : ___ ___ : ___	___ %
h. ___ : ___ : ___ ___ : ___	___ %
i. ___ : ___ : ___ ___ : ___	___ %
j. ___ : ___ : ___ ___ : ___	___ %
k. Upland Total 100%	___ %

Example:

	System:	Estuarine
E:2:E M:N	*Subsystem:*	Intertidal
	Class:	Emergent
	Water Regime:	Regularly Flooded

Letter and number key for classification of wetlands to the level of water regime:

SYSTEMS AND SUBSYSTEMS

M Marine
- 1 Subtidal
- 2 Intertidal

R Riverine
- 1 Tidal
- 2 Lower Perennial
- 3 Upper Perennial
- 4 Intermittent
- 5 Unknown Perennial

E Estuarine
- 1 Subtidal
- 2 Intertidal

L Lacustrine
- 1 Limnetic
- 2 Littoral

P Palustrine
- No Subsystem

Upland

CLASSES

AB	Aquatic Bed	RS	Rocky Shore
EM	Emergent	SB	Streambed
FO	Forested	SS	Scrub-Shrub
ML	Moss/Lichen	UB	Unconsolidated Bottom
RB	Rocky Bottom	US	Unconsolidated Shore
RF	Reef		

WATER REGIME MODIFIERS

A	Temporary	J	Intermittently Flooded
B	Saturated	L	Subtidal
C	Seasonal	M	Irregularly Exposed
F	Semipermanent	N	Regularly Flooded
G	Intermittently Exposed	P	Irregularly Flooded
H	Permanent		

Wetland losses by type. Determine whether the wetland types identified above are decreasing, stable or increasing. Apply to the formula and priority table on the next page.

If supportable information is available to substantiate trends for various wetland types other than that shown by the NWI trends study, this information may be used to support departures from the trends groupings presented above.

Explain:_____

In the absence of more reliable data, the following conclusions based on Frayer et al. (1983) may be used:

Decreasing:	Palustrine emergent Palustrine forested Palustrine scrub-shrub Estuarine intertidal emergent Estuarine intertidal forested Estuarine intertidal scrub-shrub Marine intertidal
Stable:	Estuarine intertidal non-vegetated Estuarine subtidal Lacustrine
Increasing:	Palustrine open water Palustrine unconsolidated shore Palustrine non-vegetated

Decreasing wetland types	___ % OF SITE X 1 = ___
Stable wetland types	___ % OF SITE X 2 = ___
Increasing wetland types	___ % OF SITE X 3 = ___
Uplands	___ % OF SITE X 3 = ___
	TOTAL _____

a. Priority 1 (0-139)
b. Priority 2 (140-179)
c. Priority 3 (180-219) **WETLAND LOSS PRIORITY =_____**

___

d. Priority 4 (220-259)
e. Priority 5 (260-300)

3. WETLANDS THREATS

For the purpose of the National Wetlands Priority Conservation Plan, threat is defined as the likelihood that a wetland site, or portion thereof, will be destroyed or degraded, directly or indirectly, through human actions.

In establishing a threat threshold, a wetland site is considered to be threatened if an estimated > 10 percent of the site's wetland functions and values are likely to be destroyed or adversely affected through direct, indirect, or cumulative impacts over the next ten years considering:

1. the array of potential wetland threats; and

2. the probable degree of protection provided by the various relevant laws, ordinances and regulations.

At a minimum, the following items should be considered when evaluating wetland threat (indicate activities that either destroy or degrade wetlands at the site):

a. ____ Drainage or filling
b. ____ Agricultural conversion or use
c. ____ Livestock grazing
d. ____ Groundwater withdrawal/depletion
e. ____ Loss of instream flows
f. ____ Residential or commercial development
g. ____ Oil, gas, mineral development
h. ____ Power plants
i. ____ Transportation (roads and bridges)
j. ____ Navigation project, port, marina or pier
k. ____ Water development project(s)
l. ____ Water pollution
m. ____ Other, (e.g., timber or vegetation removal, control practices, diverse ownership with no individual commitment to protection): _____
_____
_____

Indicate all laws, ordinances or programs that have some degree of wetland protection potential for this site:

a. ____ Clean Water Act (Corps section 404 regulatory program)
b. ____ River and Harbor Act (Corps section 10 regulatory program)
c. ____ Endangered Species Act
d. ____ Water Resources Development Act of 1986
e. ____ Food Security Act of 1985
f. ____ Local zoning or ordinances (e.g., local wetland or floodplain zoning)
g. ____ State ordinance or authorities (e.g., State wetland protection laws, State permit program for activities in wetlands)

h. ____ Coastal Wetlands Protection Law
i. ____ Inland Wetlands Protection Law
j. ____ Owner(s) favors protection
k. ____ Other: _____

Considering the relative effectiveness of the combination of the above factors to protect the public values and services of the wetlands, is the wetland site threatened using the definition of threat?

YES NO

If yes, explain type, degree and imminence of threat:_____
_____
_____
_____
_____
_____

4. WETLAND FUNCTIONS AND VALUES

It is assumed that virtually all wetlands provide important public benefits in several functions and values categories. Many wetlands, however, have been recognized, identified and/or listed as having certain of these functions and values. In order to lead to greater objectivity and provide a technique for use by persons of many disciplines, this wetlands assessment method relies on documented data or information rather than allowing for interpretation by users across many disciplines.

Indicate all functions and values which can be attributed to the wetland site. If any of the statements within a category (wildlife, fisheries, water/quality, flood and erosion protection, outdoor recreation and other areas or concerns) is affirmative, check that category on the cover sheet, under item 4.

A. Wildlife (endangered and threatened species, migratory birds and resident species)

1. Y N Are Federal or State threatened or endangered plants or animals known to use the wetland site on a regular basis? If yes, list species names: _____
_____
_____

2. Y N Have any wildlife resources of the wetland site been recognized, identified or listed by a Federal or State agency, conservation organization, institution (educational or research) or private group due to specific legislation, designations or management or planning documents (e.g., high wildlife value, declining populations/numbers, edge of range, Audubon Blue List, list(s) or species of special concern or emphasis)? If yes, list recognition: _____
_____
_____
_____

3. Y N Has the wetland site been especially designated, or is it part of a region specially designated, by a Federal or State agency or private group as important for migratory birds or resident wildlife (e.g., referenced in the North American Waterfowl Management Plan or a State Waterfowl Concept Plan or on a list maintained by The Nature Conservancy? If yes, list designation:

_____

_____

_____

B. Commercial and Sport Fisheries

1. Y N Does commercial fishing occur on the site? If so, name the fishery:

_____

_____

_____

2. Y N Does sport fishing occur on the site? If so, name the fishery:

_____

_____

_____

3. Y N Does the wetland site have fishery resource value(s) (e.g. anadromous fishery, spawning, nursery, juvenile or foraging habitat) that is recognized, identified or listed by a Federal or State agency, conservation organization, institution or private group due to specific legislation, designations, or management or planning documents? If so, name recognition:_____

_____

_____

C. Surface and Ground Water Quality and Quantity and Flood Control

1. Y N Are the groundwater recharge and/or discharge (water supply) functions of the wetland site recognized, identified or listed by a Federal, State, or local agency, conservation organization, institution or private group due to specific legislation, designations or management or planning documents (e.g., sole source aquifer, municipal water supply)? If so, name recognition: _____

_____

_____

2. Y N Are the water quality functions (e.g., nutrient assimilation, sediment trapping, toxic substance uptake and transformation) of the wetland site recognized, identified or listed by a Federal, State, or local agency, conservation organization, institution or private group due to specific legislation, designations, or management or planning documents (e.g., presence of a downstream dredged channel or reservoir which requires periodic dredging, eutrophic waterbodies downstream, low dissolved

oxygen problems, fish kills)? If so, name recognition:

_____

_____

_____

3. Y N Are the flood control, erosion and/or shoreline damage reduction functions of the wetland site recognized, identified or listed by a Federal, State, or local agency, conservation organization, institution or private group due to specific legislation, designations, or management or planning documents (e.g., flood control project, wetland site within the 100-year floodplain identified by a city as important for coastal shoreline protection)? If so, name recognition:_____

_____

_____

D. Outdoor Recreation

1. Y N Is there a recognized or documented demand for the recreational opportunities available in the wetland site? If yes, explain: _____

_____

_____

2. Y N Is the wetland site within 50 miles of a Metropolitan Statistical Area or within 50 miles of a tourist area receiving more than 100,000 visitors per year? If yes, name location: _____

_____

_____

E. Other Areas or Concerns

1. Y N Does the wetland site have ecological or geological features consistently considered by regional scientists to be rare for wetlands in the region (e.g., fens in the midwest, cypress swamps in northern States, spring communities in various regions)? If yes, name the features: _____

_____

_____

2. Y N Is the wetland site included in a national or statewide listing of historical or archaeological sites? If yes, name list: _____

_____

_____

3. Y N Is the wetland site being used, or could it be used, for educational or research purposes (e.g., used by a nature center, school, camp, or college, essential to an ongoing environmental research or monitoring program)? If yes, name use: _____
_____
_____

4. Y N Does the wetland site have other public values of concern to the Secretary of the Interior? If yes, name and document: _____
_____
_____

5. Conclusion

To qualify for acquisition consideration under the provisions of the National Wetlands Priority Conservation Plan, a wetland site must: 1) include predominantly (50 percent or greater) wetland types which are rare or declining in the ecoregion; 2) be threatened with loss and/or degradation; and 3) offer important values to society in two identifiable functional categories. References, literature citations, agency contacts and personal communications must be provided to support the assessment and conclusions made in this checklist.

6. Map of Wetland Site

Reproduce and submit a USGS quadrangle map, National Wetlands Inventory Map or other appropriate map delineating the wetland site, its principal features where appropriate (e.g., bald eagle nest sites) and other relevant features of the assessment area where appropriate (e.g., downstream municipal water supply or public access point).

APPENDIX E

FEDERAL AND STATE WETLAND INFORMATION SOURCES

U.S. FISH AND WILDLIFE SERVICE
EMERGENCY WETLANDS RESOURCES ACT, SECTION 404 CONTACTS

Connecticut, Maine, Massachusetts
New Hampshire, Rhode Island, Vermont

U.S. Fish and Wildlife Service
Ralph Pill Marketplace, 4th Floor
22 Bridge Street
Concord, New Hampshire 03301
(603) 225-1411

Delaware, Maryland

U.S. Fish and Wildlife Service
1825 Virginia Street
Annapolis, Maryland 21401
(301) 269-5448

Pennsylvania

U.S. Fish and Wildlife Service
315 South Allen Street, Suite 322
State College, Pennsylvania 16801
(814) 234-4090

West Virginia

U.S. Fish and Wildlife Service
Sycamore Street, Room 311
P.O. Box 1278
Elkins, West Virginia 26241
(304) 636-6586

New York

U.S. Fish and Wildlife Service
100 Grange Place, Room 202
Cortland, New York 13045
(607) 753-9334

New Jersey

U.S. Fish and Wildlife Service
927 North Main Street, Building D
Pleasantville, New Jersey 08232
(609) 646-9310

Virginia

U.S. Fish and Wildlife Service
P.O. Box 480
Mid-County Center, U.S. Route 17
White Marsh, Virginia 23183
(804) 693-6694

Regional Office

U.S. Fish and Wildlife Service
Region 5
One Gateway Center, Suite 700
Newton Corner, Massachusetts 02158
(617) 965-5100

U.S. ENVIRONMENTAL PROTECTION AGENCY
SECTION 404 CONTACTS

Office of Wetlands Protection (A-104-F)
Regulatory Activities Division, Room 723
U.S. Environmental Protection Agency
Washington, DC 20460
(202) 475-7799 (202) 475-8445

U.S. ENVIRONMENTAL PROTECTION AGENCY (continued)
SECTION 404 CONTACTS

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

Wetlands Protection Section (WWP-1900)
Region 1
U.S. Environmental Protection Agency
John F. Kennedy Federal Building
Boston, Massachusetts 02203
(617) 565-4422

New Jersey, New York

Marine and Wetlands Protection Branch (2WM-MWP)
Region 2
U.S. Environmental Protection Agency
26 Federal Plaza, Room 1137
New York, New York 10278
(212) 264-5170

Delaware, Maryland, Pennsylvania, Virginia, and West Virginia

Wetlands and Marine Policy Section (3ES42)
Region 3
U.S. Environmental Protection Agency
841 Chestnut Street
Philadelphia, Pennsylvania 19107
(215) 597-9301

U.S. ARMY CORPS OF ENGINEERS
SECTION 404 CONTACTS

Regulatory Branch
HQDA Corps of Engineers (CECW-OR), Room 6225
20 Massachusetts Avenue NW
Washington, DC 20314-1000
(202) 272-0199

U.S. ARMY CORPS OF ENGINEERS (continued)
SECTION 404 CONTACTS

Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

New England Division
Regulatory Branch
U.S. Army Corps of Engineers
424 Trapelo Road
Waltham, Massachusetts 02254
(617) 647-8338

Delaware, New Jersey, New York (part), Maryland, Pennsylvania (part), and Virginia

North Atlantic Division (CENAD-CO-OP)
U.S. Army Corps of Engineers
90 Church Street
New York, New York 10007
(212) 264-7535

Baltimore District
Regulatory Branch
U.S. Army Corps of Engineers
P.O. Box 1715
Baltimore, Maryland 21203-1715
(301) 962-3670

New York District
Regulatory Branch
U.S. Army Corps of Engineers
26 Federal Plaza, Room 1937
New York, New York 10278-0090
(212) 264-3996

Norfolk District
Regulatory Branch
U.S. Army Corps of Engineers
803 Front Street
Norfolk, Virginia 23510-1096
(804) 441-7068
(804) 441-7652

Philadelphia District
Regulatory Branch
U.S. Army Corps of Engineers
U.S. Custom House
2nd and Chestnut Street
Philadelphia, Pennsylvania 19106-2991
(215) 597-2812

New York (part)

North Central Division (CENCD-CO-MO)
U.S. Army Corps of Engineers
536 S. Clark Street
Chicago, Illinois 60605-1592
(312) 353-6379

Buffalo District
Regulatory Branch
U.S. Army Corps of Engineers
1776 Niagara Street
Buffalo, New York 14207-3199
(716) 876-5454

U.S. ARMY CORPS OF ENGINEERS (continued)
SECTION 404 CONTACTS

Pennsylvania (part), West Virginia

Ohio River Division (ORDCO-OF)
U.S. Army Corps of Engineers
P.O. Box 1159
Cincinnati, Ohio 45201-1159
(513) 684-3972

Pittsburgh District (CEORP-OR-F)
Regulatory Branch
U.S. Army Corps of Engineers
Federal Building
1000 Liberty Avenue
Pittsburgh, Pennsylvania 15222-4186
(412) 644-6872

Huntingdon District (CEORH-OR-F)
Regulatory Branch
U.S. Army Corps of Engineers
502 8th Street
Huntingdon, West Virginia 25701-2070
(304) 529-5487

STATE COMPREHENSIVE OUTDOOR RECREATION PLANNING CONTACTS

Connecticut

Department of the Environment
Division of Planning and Development
State Office Building, Room 247
165 Capitol Avenue
Hartford, Connecticut 06106
(203) 566-5026

Maine

Bureau of Parks and Recreation
Planning and Research
Statehouse Station 22
Augusta, Maine 04333
(207) 289-3823

Delaware

Office of Heritage, Planning,
and Grants
Division of Parks and Recreation
P.O. Box 1401
89 Kings Highway
Dover, Delaware 19901
(302) 736-5284

Maryland

Maryland Office of Planning
301 West Preston Street
Baltimore, Maryland 21201
(301) 225-4562

STATE COMPREHENSIVE OUTDOOR RECREATION PLANNING CONTACTS (continued)

Massachusetts

Executive Office of Environmental Affairs
100 Cambridge Street, 20th Floor
Boston, Massachusetts 02202
(617) 727-9800 ext. 235

New Jersey

Green Acres Program
Green Trust Management
CN 412
Trenton, New Jersey 08625
(609) 588-3491

Pennsylvania

Bureau of State Parks
Department of Environmental Resources
P.O. Box 8551
Harrisburg, Pennsylvania 17105-8551
(717) 783-2654

Vermont

Division of Recreation
Department of Forests, Parks and Recreation
103 South Main Street, 8 South
Waterbury, Vermont 05676
(802) 244-8713

West Virginia

Community Development Division
Governor's Office of Community and Industrial Development
Building 6, Room B-553
Charlestown, West Virginia 23505
(304) 348-4010

New Hampshire

Office of State Planning
2 1/2 Beacon Street
Concord, New Hampshire 03301
(603) 271-2155

New York

Office of Parks, Recreation, and Historic Preservation
Agency Building #1
Empire State Plaza
Albany, New York 12238
(518) 474-0414

Rhode Island

Department of Environmental Management
Division of Planning andDevelopment
83 Park Street
Providence, Rhode Island 02903
(401) 277-2776

Virginia

Office of Planning
Division of Parks and Recreation
203 Governor Street, Suite 326
Richmond, Virginia 23219
(804) 786-4132

National Park Service

Planning and Grants Assistance
Mid-Atlantic Regional Office
National Park Service
200 Chestnut Street, Room 502
Philadelphia, Pennsylvania 19106
(215) 597-6606

STATE WETLAND REGULATORY PROGRAMS

Connecticut

Inland Water Resources Management
Division
Department of Environmental Protection
165 Capitol Avenue, Room 207
State Office Building
Hartford, Connecticut 06106
(203) 566-7404

Coastal Resources Management Division
Department of Environmental Protection
18-20 Trinity Street
Hartford, Connecticut 06106
(203) 566-7280

Maine

Bureau of Land Quality Control
Department of Environmental Protection
State House Station #17
Augusta, Maine 04333
(207) 289-2111

Land Use Regulation Commission
Department of Conservation
State House Station #22
Augusta, Maine 04333
(207) 289-2631
(800) 452-8711

Massachusetts

Division of Wetland and Waterways
Regulations
Department of Environmental Protection
1 Winter Street, 8th Floor
Boston, Massachusetts 02108
(617) 292-5695

Delaware

Division of Water Resources
Department of Natural Resources
and Environmental Control
P.O. Box 1401
89 Kings Highway
Dover, Delaware 19903
(302) 736-4793

Maryland

Non-Tidal Wetlands Division
Department of Natural Resources
580 Taylor Avenue, D-4
Annapolis, Maryland 21401
(301) 974-3841

Department of the Environment
2500 Broening Highway
Building 30, 1st Floor
Baltimore, Maryland 21224
(301) 631-3609

New Hampshire

New Hampshire Wetlands Board
Division of Water Resources
Department of Environmental Services
64 Main Street
P.O. Box 2008
Concord, New Hampshire 03301
(603) 271-2147

New York

Division of Fish and Wildlife
Department of Environmental
Conservation
50 Wolf Road, Room 524
Albany, New York 12233-4750
(518) 457-9713

STATE WETLAND REGULATORY PROGRAMS (continued)

New Jersey

Division of Coastal Resources
Department of Environmental Protection
CN 401
Trenton, New Jersey 08625-0401
(609) 984-3444
(609) 984-0058

Pennsylvania

Bureau of Water Resources Management
Division of Rivers and Wetlands
Conservation
Department of Environmental Resources
P.O. Box 1467
Harrisburg, Pennsylvania 17105
(717) 541-7802

Vermont

Water Quality Division
Department of Environmental
Conservation
10 North, Second Floor
103 South Main Street
Waterbury, Vermont 05676
(802) 244-6951

West Virginia

Director's Office of Environmental
and Regulatory Affairs
Division of Natural Resources
1900 Kanawha Boulevard East
Capitol Complex, Building 3
Charleston, West Virginia 25305
(304) 348-2761

New York (continued)

Division of Regulatory Affairs
Department of Environmental
Conservation
50 Wolf Road, Room 514
Albany, New York 12233-1750
(518) 457-2224

Rhode Island

Freshwater Wetland Section
Department of Environmental
Management
291 Promenade Street
Providence, Rhode Island 02908-5767
(401) 277-6820

Coastal Resources Management Council
Oliver H. Stedman Government Center
Tower Hill Road
Wakefield, Rhode Island 02879
(401) 277-2476

Virginia

Virginia Marine Resources Commission
Habitat Management Division
2600 Washington Avenue
P.O. Box 756
Newport News, Virginia 23607
(804) 247-2200

STATE HERITAGE PROGRAMS

Connecticut

Connecticut Natural Diversity Database
Natural Resources Center
Department of Environmental Protection
State Office Building, Room 553
165 Capitol Avenue
Hartford, Connecticut 06106
(203) 566-3540

Maine

Maine Natural Heritage Program
Office of Comprehensive Land
Use Planning
Department of Economic and
Community Development
State House Station 130
219 Capitol Street
Augusta, Maine 04333
(207) 289-6800

Massachusetts

Massachusetts Natural Heritage and
Endangered Species Program
Division of Fisheries and Wildlife
100 Cambridge Street, 19th Floor
Boston, Massachusetts 02202
(617) 727-9194

New Jersey

New Jersey Natural Heritage Program
Office of Natural Lands Management
501 E. State Street, CN 404
Trenton, New Jersey 08625-0404
(609) 984-1339

Delaware

Delaware Natural Heritage Program
Division of Parks and Recreation
Department of Natural Resources
and Environmental Control
89 Kings Highway
Dover, Delaware 19903
(302) 736-3431

Maryland

Maryland Natural Heritage Program
Department of Natural Resources
B-2, Tawes Building
Annapolis, Maryland 21401
(301) 974-2870

New Hampshire

New Hampshire Natural Heritage
Inventory
Department of Resources and
Economic Development
P.O. Box 856
Concord, New Hampshire 03302-0856
(603) 271-3556

New York

New York Natural Heritage Program
700 Troy Schenectady Road
Latham, New York 12110
(518) 783-3932

STATE HERITAGE PROGRAMS (continued)

Pennsylvania

Pennsylvania Natural Diversity
Inventory - East
Bureau of Forestry
Department of Environmental Resources
34 Airport Drive
Middletown, Pennsylvania 17057
(717) 948-3962

Pennsylvania Natural Diversity
Inventory - West
Western Pennsylvania Conservancy
Natural Areas Program
316 Fourth Avenue
Pittsburgh, Pennsylvania 15222
(412) 288-2777

West Virginia

West Virginia Natural Heritage
Program
Department of Natural Resources
P.O. Box 67
Elkins, West Virginia 26241
(304) 636-1767

Rhode Island

Rhode Island Heritage Program
Division of Planning and Development
Department of Environmental
Management
83 Park Street
Providence, Rhode Island 02903
(401) 277-2776

Vermont

Vermont Natural Heritage Program
Agency of Natural Resources
Center Building
103 South Main Street
Waterbury, Vermont 05676
(802) 244-7340

Virginia

Virginia Natural Heritage Program
Department of Conservation and
Recreation
203 Governor Street, Suite 402
Richmond, Virginia 23219
(804) 786-7951

APPENDIX F

EMERGENCY WETLANDS RESOURCES ACT

Public Law 99-645
99th Congress

An Act

Nov. 10, 1986
[S. 710]

To promote the conservation of migratory waterfowl and to offset or prevent the serious loss of wetlands by the acquisition of wetlands and other essential habitat, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

Emergency Wetlands Resources Act of 1986.
16 USC 3901 note

SECTION 1. SHORT TITLE.

This Act may be cited as the "Emergency Wetlands Resources Act of 1986".

16 USC 3901

SEC. 2. FINDINGS AND STATEMENT OF PURPOSE.

(a) FINDINGS.—The Congress finds that—

(1) wetlands play an integral role in maintaining the quality of life through material contributions to our national economy, food supply, water supply and quality, flood control, and fish, wildlife, and plant resources, and thus to the health, safety, recreation, and economic well-being of all our citizens of the Nation;

(2) wetlands provide habitat essential for the breeding, spawning, nesting, migration, wintering and ultimate survival of a major portion of the migratory and resident fish and wildlife of the Nation, including migratory birds, endangered species, commercially and recreationally important finfish, shellfish and other aquatic organisms, and contain many unique species and communities of wild plants;

(3) the migratory bird treaty obligations of the Nation with Canada, Mexico, Japan, the Union of Soviet Socialist Republics, and with various countries in the Western Hemisphere require Federal protection of wetlands that are used by migratory birds for breeding, wintering or migration and needed to achieve and to maintain optimum population levels, distributions, and patterns of migration;

(4) wetlands, and the fish, wildlife, and plants dependent on wetlands, provide significant recreational and commercial benefits, including—

(A) contributions to a commercial marine harvest valued at over $10,000,000,000 annually;

(B) support for a major portion of the Nation's multimillion dollar annual fur and hide harvest; and

(C) fishing, hunting, birdwatching, nature observation and other wetland-related recreational activities that generate billions of dollars annually;

(5) wetlands enhance the water quality and water supply of the Nation by serving as groundwater recharge areas, nutrient traps, and chemical sinks;

(6) wetlands provide a natural means of flood and erosion control by retaining water during periods of high runoff, thereby protecting against loss of life and property;

(7) wetlands constitute only a small percentage of the land area of the United States, are estimated to have been reduced by half in the contiguous States since the founding of our Nation, and continue to disappear by hundreds of thousands of acres each year;

(8) certain activities of the Federal Government have inappropriately altered or assisted in the alteration of wetlands, thereby unnecessarily stimulating and accelerating the loss of these valuable resources and the environmental and economic benefits that they provide; and

(9) the existing Federal, State, and private cooperation in wetlands conservation should be strengthened in order to minimize further losses of these valuable areas and to assure their management in the public interest for this and future generations.

International agreements
Canada
Mexico
Japan
Union of Soviet Socialist Republics

(b) PURPOSE.—It is the purpose of this Act to promote, in concert with other Federal and State statutes and programs, the conservation of the wetlands of the Nation in order to maintain the public benefits they provide and to help fulfill international obligations contained in various migratory bird treaties and conventions with Canada, Mexico, Japan, the Union of Soviet Socialist Republics, and with various countries in the Western Hemisphere by—

(1) intensifying cooperative efforts among private interests and local, State, and Federal governments for the management and conservation of wetlands; and

(2) intensifying efforts to protect the wetlands of the Nation through acquisition in fee, easements or other interests and methods by local, State, and Federal governments and the private sector.

SEC. 3. DEFINITIONS.

16 USC 3902

For the purpose of this Act:

(1) The term "Committees" means the Committee on Merchant Marine and Fisheries and the Committee on Interior and Insular Affairs of the House of Representatives and the Committee on Environment and Public Works and the Committee on Energy and Natural Resources of the Senate.

(2) The term "designated unit" means a unit of the National Wildlife Refuge System designated by the Secretary under section 201(a)(2).

(3) The term "hydric soil" means soil that, in its undrained condition, is saturated, flooded, or ponded long enough during a growing season to develop an anaerobic condition that supports the growth and regeneration of hydrophytic vegetation.

(4) The term "hydrophytic vegetation" means a plant growing in—

(A) water; or

(B) a substrate that is at least periodically deficient in oxygen during a growing season as a result of excessive water content.

(5) The term "wetland" means land that has a predominance of hydric soils and that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances does support, a prevalence of hydrophytic vegetation typically adapted for life in saturated soil conditions.

TITLE I—EXTENSION OF WETLANDS LOAN ACT

SEC. 101. EXTENSION OF WETLANDS LOAN ACT.

(a) AVAILABILITY OF APPROPRIATIONS.—The first section of the Act entitled "An Act to promote the conservation of migratory waterfowl by the acquisition of wetlands, and for other essential waterfowl habitat, and for other purposes", approved October 4, 1961 (16 U.S.C. 715k-3), is amended by striking out "September 30, 1986" and inserting in lieu thereof "September 30, 1988".

(b) REPAYMENT PROVISIONS.—Section 3 of such Act (16 U.S.C. 715k-5) is amended by striking out the first three sentences.

National Wildlife Refuge System

16 USC 3911

TITLE II—REVENUES FOR REFUGE OPERATIONS AND THE MIGRATORY BIRD CONSERVATION FUND

SEC. 201. SALE OF ADMISSION PERMIT AT CERTAIN REFUGE UNITS.

(a) SALE OF ADMISSION PERMITS.—(1) Notwithstanding the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-4 et seq.), in order to provide additional revenues for the conservation of wetland resources of the Nation and for the operation and maintenance of refuges—

(A) the Secretary of the Interior may, at units of the National Wildlife Refuge System designated by the Secretary under paragraph (2)—

(i) charge fees for admission permits,

(ii) sell Golden Eagle passports and Golden Age passports;

(iii) issue at no charge lifetime admission permits as authorized in section 4(a)(5) of the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-4—460l-11);

(B) the amounts collected by the Secretary as a result of the activities described in subparagraph (A) shall be distributed as provided in subsection (c).

(2) The Secretary shall designate a unit of the National Wildlife Refuge System for purposes of this Act if the Secretary determines, with respect to such unit, that—

(A) The level of visitation for recreational purposes is high enough to justify the collection of fees for admission permits for economic reasons.

(B) There is a practical mechanism in existence for implementing and operating a system of collecting fees for admission permits.

(C) Imposition of a fee for admission permits is not likely to result in undue economic hardship for a significant number of visitors to the unit.

(b) EXCEPTIONS.—(1) The Secretary may not require an admission permit under subsection (a)(1) for entry by a person into a designated unit if such person is the holder of—

(A) a valid migratory bird hunting and conservation stamp issued under section 2 of the Act of March 16, 1934 (16 U.S.C. 718b) (commonly known as the Duck Stamp Act);

(B) a valid Golden Eagle Passport issued under section 4(a)(1) of the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-6a(a)(1));

(C) a valid Golden Age Passport issued under section 4(a)(4) of such Act; or

(D) a valid lifetime admission permit as authorized in section 4(a)(5) of such Act.

(2) Permits for a single visit to any designated unit shall be made available by the Secretary of the Interior for a reasonable fee, but not to exceed $3 for individuals or $7.50 per vehicle. For purposes of this subsection, the term "single visit" means a more or less continuous stay within a designated unit by a person or group described in subsection (d). Payment of a single visit fee and issuance of a single visit permit shall authorize exits from and reentries to a single designated unit for a period of from one to fifteen days. Such period shall be defined for each designated unit by the Secretary based upon a determination of the period of time reasonably and ordinarily necessary for such a single visit.

(3) Special admission permits for uses such as group activities may be issued in accordance with procedures and at fees established by the Secretary.

(4) A person may not be required to purchase an admission permit under subsection (a)(1) in order to travel by private noncommercial vehicle over any road or highway—

(A)(i) established as part of the National Federal Aid System (as defined in section 101 of title 23, United States Code); and

(ii) commonly used by the public as a means of travel between two places which are outside the designated unit; or

(B) to any land in which such person has a property interest if such land is within any designated unit.

(5) A person may not be required to purchase an admission permit under subsection (a)(1) for entrance or admission to a unit of the National Wildlife Refuge System created, expanded, or modified by Public Law 96-487.

16 USC 3913 note

(c) DISTRIBUTION OF AMOUNTS COLLECTED.—Amounts collected from the sale of admission permits under this section and from fees collected at any unit of the National Wildlife Refuge System under subsections (b) and (c) of section 4 of the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-6a (b), (c)) shall be distributed as follows:

(A) Thirty per centum shall be available to the Secretary of the Interior until expended. The Secretary shall use such amount—

(i) first, to defray the cost of collection,

(ii) next, for operation and maintenance of the collecting unit; and

(iii) next, for operation and maintenance of all units within the National Wildlife Refuge System, except those units created, expanded, or modified by Public Law 96-487.

(B) Seventy percent shall be deposited into the migratory bird conservation fund established under section 4 of the Act of March 16, 1934 (16 U.S.C. 718d).

(d) PERSONS ACCOMPANYING PERMITTEES.—A person who holds a stamp, passport, or permit described in subsection (b) shall be entitled to general entrance into any designated unit, along with—

(1) any persons accompanying such person in a single, private, noncommercial vehicle; or

(2) where entry to the area is by any means other than single, private, noncommercial vehicle, the person and any accompanying spouse, children, or parents.

(e) RESTRICTIONS.—A permit issued under this section is nontransferable. Such a permit may not authorize any uses for

which fees are charged under the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-4 et seq.).

(f) ESTABLISHMENT OF FEES; POSTING OF NOTICES.—(1) All fees established pursuant to this section shall be fair and equitable. In establishing such fees, the Secretary shall consider the following:

(A) The direct and indirect cost to the Government.

(B) The benefits to the permit holder.

(C) The public policy or interest served.

(D) The comparable fees charged by non-Federal public agencies.

(E) The economic and administrative feasibility of fee collection and other pertinent factors.

(2) The Secretary shall require that notice that a fee has been established under this section—

(A) be prominently posted at each designated unit and at appropriate locations in each such unit; and

(B) to the extent practicable, be included in publications distributed at such units.

(g) VOLUNTEERS.—The Director of the United States Fish and Wildlife Service may accept services of volunteers to sell admission permits under this section or to sell Golden Eagle and Golden Age Passports or Migratory Bird Hunting and Conservation Stamps. The Director may use funds appropriated or otherwise made available to the Service to cover the cost of any surety bond that may be required of a volunteer performing the services authorized under this subsection.

SEC. 202. PRICE OF MIGRATORY BIRD HUNTING AND CONSERVATION STAMP.

16 USC 718b

Section 2(b) of the Act of March 16, 1934 (16 U.S.C. 718b(b), is amended in the first sentence—

(1) by striking out "$7.50" and inserting in lieu thereof "$10.00";

(2) by striking out "any hunting year" and inserting in lieu thereof "hunting years 1987 and 1988, $12.50 for hunting years 1989 and 1990, and $15.00 for each hunting year thereafter,"; and

(3) by inserting "available for obligation and" before "attributable".

16 USC 715l

SEC. 203. TRANSFERS TO MIGRATORY BIRD CONSERVATION FUND.

Notwithstanding any other provision of law, an amount equal to the amount of all import duties collected on arms and ammunition, as specified in subpart A of part 5 of schedule 7 of the Tariff Schedules of the United States, shall, beginning with the next fiscal year quarter after the date of enactment of this Act, be paid quarterly into the migratory bird conservation fund established under section 4 of the Act of March 16, 1934 (16 U.S.C. 718d).

19 USC 1202

TITLE III—STATE AND FEDERAL WETLAND ACQUISITION

16 USC 3921

State and local governments

SEC. 301. NATIONAL WETLANDS PRIORITY CONSERVATION PLAN.

(a) IN GENERAL.—The Secretary shall establish, and periodically review and revise, a national wetlands priority conservation plan which shall specify, on a region-by-region basis or other basis considered appropriate by the Secretary, the types of wetlands and interests in wetlands which should be given priority with respect to Federal and State acquisition.

(b) CONSULTATION.—The Secretary shall establish the plan required by subsection (a) after consultation with—

(1) the Administrator of the Environmental Protection Agency;

(2) the Secretary of Commerce;

(3) the Secretary of Agriculture; and

(4) the chief executive officer of each State.

State and local governments

(c) FACTORS TO BE CONSIDERED.—The Secretary, in establishing the plan required by subsection (a), shall consider—

(1) the estimated proportion remaining of the respective types of wetlands which existed at the time of European settlement;

(2) the estimated current rate of loss and the threat of future losses of the respective types of wetlands; and

(3) the contributions of the respective types of wetlands to—

(A) wildlife, including endangered and threatened species, migratory birds, and resident species;

(B) commercial and sport fisheries;

(C) surface and ground water quality and quantity, and flood control;

(D) outdoor recreation; and

(E) other areas or concerns the Secretary considers appropriate.

Fish and fishing
Water
Flood control

SEC. 302. REMOVAL OF RESTRICTION ON ACQUISITION.

Section 7(a)(1) of the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-9(a)(1)) is amended by striking out "national wildlife refuge areas under section 7(a)(5) of the Fish and Wildlife Act of 1956 (16 U.S.C. 742f(5)) except migratory waterfowl areas which are authorized to be acquired by the Migratory Bird Conservation Act of 1929, as amended (16 U.S.C. 715-715s)" and inserting in lieu thereof "national wildlife refuge areas under section 7(a)(4) of the Fish and Wildlife Act of 1956 (16 U.S.C. 742f(a)(4)) and wetlands acquired under section 304 of the Emergency Wetlands Resources Act of 1986".

SEC. 303. INCLUSION OF WETLANDS IN COMPREHENSIVE STATEWIDE OUTDOOR RECREATION PLANS.

Section 6 of the Land and Water Conservation Fund Act of 1965 (16 U.S.C. 460l-8) is amended—

(1) in subsection (d), by adding at the end thereof the following new paragraph:

"For fiscal year 1988 and thereafter each comprehensive statewide outdoor recreation plan shall specifically address wetlands within that State as an important outdoor recreation resource as a prerequisite to approval, except that a revised comprehensive statewide outdoor recreation plan shall not be required by the Secretary, if a State submits, and the Secretary, acting through the Director of the National Park Service, approves, as a part of and as an addendum to the existing comprehensive statewide outdoor recreation plan, a wetlands priority plan developed in consultation with the State agency with responsibility for fish and wildlife resources and consistent with the national wetlands priority conservation plan developed under section 301 of the Emergency Wetlands Resources Act or, if such national plan has not been completed, consistent with the provisions of that section";

(2) in subsection (e)(1), by inserting, in the first sentence thereof, after "For the acquisition of land, waters, or interests in land or waters" the following: ", or wetland areas and interests therein as identified in the wetlands provisions of the comprehensive plan"; and

(3) in subsection (f)(3), by adding at the end thereof the following: ": *Provided*, That wetland areas and interests therein as identified in the wetlands provisions of the comprehensive plan and proposed to be acquired as suitable replacement property within that same State that is otherwise acceptable to the Secretary, acting through the Director of the National Park Service, shall be considered to be of reasonably equivalent usefulness with the property proposed for conversion.".

SEC. 304. FEDERAL ACQUISITION.

16 USC 3922.

The Secretary is authorized to purchase wetlands or interests in wetlands, which are not acquired under the authority of the Migratory Bird Conservation Act of 1929 (16 U.S.C. 715–715s), consistent with the wetlands priority conservation plan established under section 301.

16 USC 3923. Farms and farming.

SEC. 305. RESTRICTION ON USE OF EMINENT DOMAIN IN ACQUISITIONS.

The powers of condemnation or eminent domain shall not be used in the acquisition of wetlands under any provision of this Act where such wetlands have been constructed for the purpose of farming or ranching, or result from conservation activities associated with farming or ranching.

TITLE IV—WETLANDS INVENTORY AND TREND ANALYSIS

SEC. 401. NATIONAL WETLANDS INVENTORY PROJECT.

16 USC 3931.

(a) IN GENERAL.—The Secretary, acting through the Director of the United States Fish and Wildlife Service, shall continue the National Wetlands Inventory Project and shall—

(1) produce, by September 30, 1988, National Wetlands Inventory maps for the areas that have been identified by the Service as top priorities for mapping, including—

(A) the entire coastal zone of the United States;

(B) floodplains of major rivers; and

(C) the Prairie Pothole region;

(2) produce, by September 30, 1998, National Wetlands Inventory maps for those portions of the contiguous United States for which final maps have not been produced earlier;

Alaska

(3) produce, as soon as practicable, National Wetlands Inventory maps for Alaska and other noncontiguous portions of the United States; and

Reports

(4) produce, by September 30, 1990, and at ten-year intervals thereafter, reports to update and improve the information contained in the report dated September 1982 and entitled "Status and Trends of Wetlands and Deepwater Habitat in the Coterminous United States, 1950's to 1970's".

State and local governments.

(b) NOTICE.—The Secretary shall notify the appropriate State and local units of government at such time as he proposes to begin map preparation under subsection (a) in an area. Such notice shall include, but is not limited to, the identification of the area to be mapped, the proposed schedule for completion, and the identification of a source for further information.

SEC. 402. REPORTS TO CONGRESS.

16 USC 3932.

(a) IN GENERAL.—The Secretary, in consultation and cooperation with the Secretary of Agriculture, shall prepare and submit to the committees—

(1) by March 30, 1987, a report regarding the status, condition, and trends of wetlands in the lower Mississippi alluvial plain and the prairie pothole regions of the United States; and

(2) by September 30, 1987, a report regarding trends of wetlands in all other areas of the United States.

(b) CONTENTS OF REPORTS.—The reports required under subsection (a) shall contain—

(1) an analysis of the factors responsible for wetlands destruction, degradation, protection and enhancement;

(2) a compilation and analysis of Federal statutory and regulatory mechanisms, including expenditures, financial assistance, and tax provisions which— Taxes

(A) induce wetlands destruction or degradation; or

(B) protect or enhance wetlands;

(3) a compilation and analysis of Federal expenditures resulting from wetlands destruction, degradation, protection or enhancement;

(4) an analysis of public and private patterns of ownership of wetlands;

(5) an analysis of the environmental and economic impact of eliminating or restricting future Federal expenditures and financial assistance, whether direct or indirect, which have the effect of encouraging the destruction, degradation, protection or enhancement of wetlands, including—

(A) public works expenditures;

(B) assistance programs such as price support programs, commodity loans and purchase programs and disaster assistance programs; Loans

(C) soil conservation programs; and

(D) certain income tax provisions, Taxes

(6) an analysis of the environmental and economic impact of failure to restrict future Federal expenditures, financial assistance, and tax provisions which have the effect of encouraging the destruction, degradation, protection or enhancement of wetlands, including— Taxes

(A) assistance for normal silviculture activity (such as plowing, seeding, planting, cultivating, minor drainage, or harvesting for the production of fiber or forest products); Agriculture and agricultural commodities. Forests and forest products

(B) Federal expenditures required incident to studies, evaluations, design, construction, operation, maintenance, or rehabilitation of Federal water resource development activities, including channel improvements;

(C) the commodity loans and purchases program and cotton, feed grain, wheat, and rice production stabilization programs administered by the Department of Agriculture; and Loans. Agriculture and agricultural commodities

(D) Federal expenditures for the construction of publicly owned or publicly operated highways, roads, structures, or facilities that are essential links in a larger network or system; and Highways

(7) recommendations for the conservation of wetlands resources based on an evaluation and comparison of all manage- State and local governments

ment alternatives, and combinations of management alternatives, such as State and local actions, Federal actions, and initiatives by private organizations and individuals.

TITLE V—MISCELLANEOUS PROVISIONS

16 USC 668dd note.

SEC. 501. MIGRATORY BIRD TREATY ACT.

Section 6(b) of the Act of July 3, 1918 (16 U.S.C. 707(b)) is amended by deleting "shall" the first place it appears therein and by inserting in lieu thereof "shall knowingly".

SEC. 502. BAYOU SAUVAGE URBAN NATIONAL WILDLIFE REFUGE.

(a) PURPOSES OF REFUGE.—The purposes of the Bayou Sauvage Urban National Wildlife Refuge are—

(1) to enhance the populations of migratory, shore, and wading birds within the refuge;

(2) to encourage natural diversity of fish and wildlife species within the refuge;

(3) to protect the endangered and threatened species and otherwise to provide for the conservation and management of fish and wildlife within the refuge;

(4) to fulfill the international treaty obligations of the United States respecting fish and wildlife;

(5) to protect the archeological resources of the refuge;

(6) to provide opportunities for scientific research and environmental education, with emphasis being given to the ecological and other values of wetlands; and

(7) to provide opportunities for fish and wildlife oriented public uses and recreation in an urban setting.

(b) ACQUISITION AND ESTABLISHMENT OF REFUGE.—

Louisiana.

(1) ACQUISITION.—Within four years after the effective date of this section the Secretary of the Interior (hereinafter in this Act referred to as the "Secretary") shall acquire the approximately nineteen thousand acres of lands and waters, and interests therein, located in Orleans Parish, Louisiana, that are depicted on the map entitled "Bayou Sauvage Urban National Wildlife Refuge", dated September 15, 1986, and on file at the United States Fish and Wildlife Service, Department of the Interior. The lands and waters, and interests therein, acquired under this paragraph comprise the Bayou Sauvage Urban National Wildlife Refuge. The acquisition shall be made through donation, purchase with donated or appropriated funds, or exchange, or through any combination of the foregoing.

Federal Register, publication.

(2) ESTABLISHMENT.—At such time as sufficient lands and waters, and interests therein, have been acquired under paragraph (1) to constitute an initial area that can be administered to carry out the purposes set forth in subsection (a), the Secretary shall establish the Bayou Sauvage Urban National Wildlife Refuge by publication of notice to that effect in the Federal Register.

(3) BOUNDARY ADJUSTMENTS.—The Secretary may make such adjustments with respect to the boundary of the Bayou Sauvage Urban National Wildlife Refuge as may be necessary to facilitate the acquisition of lands and waters, and interests therein, for the refuge and to facilitate the administration of the refuge.

(c) ADMINISTRATION OF REFUGE.—The Secretary shall administer all lands and waters, and interests therein, acquired under subsec-

tion (b) in accordance with the provisions of the National Wildlife Refuge System Administration Act of 1966 (16 U.S.C. 668dd-668ee) to carry out the purposes set forth in subsection (a). The Secretary may utilize such additional statutory authority as may be available to him for the conservation and development of wildlife and natural resources, the development of outdoor recreation opportunities, and interpretive environmental education as he considers appropriate to carry out such purposes. Within two years after the effective date of this section, the Secretary shall complete a master plan for the development of the Bayou Sauvage Urban National Wildlife Refuge.

(d) AUTHORIZATION OF APPROPRIATIONS.—There are authorized to be appropriated to the Department of the Interior—

(1) from funds not otherwise appropriated from the Land and Water Conservation Fund, such sums as may be necessary for the acquisition of lands and waters, and interests therein, for the Bayou Sauvage Urban National Wildlife Refuge; and

(2) $5,000,000 for the development of the refuge.

The moneys appropriated under subparagraphs (1) and (2) shall remain available until expended.

(e) EFFECTIVE DATE.—This section takes effect on the later of the date of enactment of this Act or October 1, 1986.

Approved November 10, 1986.

LEGISLATIVE HISTORY—S. 740 (H.R. 1203):

HOUSE REPORTS: No. 99-86, Pt. 1 accompanying H.R. 1203 (Comm. on Merchant Marine and Fisheries).
SENATE REPORTS: No. 99-445 (Comm. on Environment and Public Works).
CONGRESSIONAL RECORD, Vol. 132 (1986):
Oct. 3, considered and passed Senate.
Oct. 14, considered and passed House.