

APPENDIX A: Total Maximum Daily Loads Supplementary Information

Table: TMDLs for Phosphorus in Memorial and Harrisonville Lakes

From TMDL Report: "Phosphorus in 13 Eutrophic Lakes in the Lower Delaware Water Region"						
Lake	Date Proposed	Date Approved	Lake Acres	Lakeshed Acres	% overall required load reduction in TP¹	
Harrisonville	4/21/03	Sep-03	18	5,638.50	85%	
Memorial	4/21/03	Sep-03	21.7	4,828.20	86%	
TMDL Calculations (annual loads and % reductions) for Sources of Phosphorus						
	Memorial Lake			Harrisonville Lake		
	Kg TP/yr	% of Loading Capacity	% Required Reduction*	Kg TP/yr	% of Loading Capacity	% Required Reduction²
Loading Capacity	930	100%		540.0	100%	
Point Sources other than Stormwater	n/a	n/a	n/a	n/a	n/a	n/a
Nonpoint and Stormwater and other Sources:						
med/high density residential	1.8	20.0%	88%	0.5	0.1%	92%
low density/rural residential	17.0	1.8%	88%	13.0	2.6%	92%
commercial	6.3	70.0%	88%	0.6	0.1%	92%
industrial	6.3	70.0%	88%	0.2	0.1%	92%
mixed urban/other urban	9.3	1.0%	88%	2.0	0.4%	92%
agricultural	490.0	53.0%	88%	134.0	28.0%	92%
forest, wetland, water	78.0	8.4%	0%	88.0	18.0%	0%
barren land	4.2	50.0%	0%	4.7	9.0%	0%
septic systems				12.0	2.5%	92%
waterfowl						
internal load				5.2	1.0%	0%
air deposition onto lake surface	0.6	10.0%	0%	0.5	0.1%	0%
groundwater				71.0	14.0%	0%
Margin of Safety	310.0	34.0%	n/a	170.0	34.0%	n/a
¹ TP = Total Phosphorus ² Percent reductions shown for individual sources are necessary to achieve overall required reduction						

Source: NJDEP Division of Watershed Management

Table: TMDLs for Fecal Coliform in Stream Segments in Woodstown and Pilesgrove

From TMDL Report: ‘Fecal Coliform in 27 Stream Segments in the Lower Delaware Water Region’						
Date Proposed	Date Approved	Station Name/Waterbody	Site ID	River Miles/Watershed Acres	% Reduction Required (w/ MOS) – LA¹	% Reduction Required – WLA²
04/21/03	Sept. 2003	Salem River at Woodstown and at Courses Landing - watershed upstream of Salem River's confluence with Game Creek (in Carneys Point). This is the full length of the Salem River & watershed in Pilesgrove and Woodstown.	1482500 & 1482537	73.5 mi/ 27,211 ac	84%	84%
04/21/03	Sept. 2003	Two Penny Run at Danceys Corner and Courses Landing - watershed downstream to Laytons Lake (in Carneys Point). Full length of Two Penny Run & its watershed in Pilesgrove.	1482560	8.9 mi/ 4,989 ac	90%	90%
04/21/03	Sept. 2003	Oldmans Creek at Jessups Mill and at Porches Mill - watershed upstream from head of tide. Full length of Oldmans Creek, including Indian Run tributary, & watershed in Pilesgrove.	1477510	37.6 mi/ 14,897 ac	95%	95%
From TMDL Report: ‘Fecal coliform to address 3 stream segments in the Lower Delaware Water Region’						
5/2/05		Major Run at Sharptown – watershed upstream from confluence of Major Run and Salem River	1482530	4.19 mi/ 2,152 ac	98%	98%
¹ LA = Load allocation from nonpoint and stormwater sources ² WLA = Waste load allocation from any point sources Source: NJDEP Division of Watershed management						

Table: TMDLS for Phosphorus in a Stream Segment in Pilesgrove

From TMDL Report: "Phosphorus in 5 Stream Segments in the Lower Delaware Water Region"					
	Site ID	River Miles/Watershed Acres	% Reduction Required (w/ MOS) – LA ¹	% Reduction Required – WLA ²	
07/05/05	1477510	16.4 mi/ 7,471 ac	80%	n/a	
	Oldmans Creek at Porches Mill				

TMDL Calculations (annual load and % reductions) for Sources of Phosphorus (07/05/05 TMDL)

<i>Oldmans Creek at Porches Mill</i>					
Sources	Kg TP ¹ /yr	% of Loading Capacity	% Required Reduction ²		
<i>Loading Capacity</i>	1874.5	100%	80%		
Point Sources other than Stormwater	n/a	n/a	n/a		
Nonpoint and Stormwater and other sources:					
med/high density residential	3.5	20.0%	80%		
low density/rural residential	56.67	3.0%	80%		
commercial	3.94	20.0%	80%		
industrial	1.31	10.0%	80%		
mixed urban/other urban	12.44	70.0%	80%		
agricultural	613.36	32.7%	80%		
forest, wetland, water	96.51	5.1%	0%		
barren land	16.57	90.0%	0%		
Harrisonville Lake TMDL ³	500	26.7%	0%		
Margin of Safety	570.16	30.4%	n/a		

¹ TP = Total Phosphorus

² The upstream watershed of Oldmans Creek has an approved Lake TMDL. The Loading Capacity from that TMDL was used as the loading of the upstream watershed.

Source: NJDEP Division of Watershed Management

APPENDIX B: Private Well Testing Act

The Private Well Testing Act (*N.J.S.A. 58:12A-26 et seq.*), passed in 2002 and administered by NJDEP, requires that well water be tested for contaminants when properties served by certain types of drinking water wells are sold or leased. The law does not prohibit the sale of property if the water fails one or more drinking water test standards. Rather, the fundamental goal of the PWTA is to ensure that purchasers and lessees of properties served by private potable wells are fully aware of the quality of the untreated drinking water sources prior to sale or lease. The state law allows the buyer and seller to determine which party will pay for the test, as well as what actions, if any, need to be taken if test results indicate a contaminant is present in the water above an applicable standard. However, individual county health rules may mandate that certain actions are required in order for a real estate transaction to be finalized.

The PWTA program requires that water be tested for primary contaminants (health-based) and secondary parameters (aesthetic characteristics). Primary contaminants are contaminants that may cause a potential health risk if consumed on a regular basis above the established maximum contaminant level (MCL). New Jersey regulates 18 primary contaminants, five more than federal EPA requirements. Primary contaminants include bacteriological (fecal coliform and *E. coli*), Volatile Organic Compounds (VOCs), inorganics (arsenic, lead, mercury, and nitrates), and Radiological (radium decay) substances. A certified laboratory must collect a water sample at a point before the water goes through any treatment. This sample represents the condition of the ground water in the aquifer, which may be different from water out of a kitchen faucet. Property owners may choose to also have the tap water tested to assure that filters or treatments are working effectively.

The PWTA program requires tests for three naturally occurring secondary parameters: pH, iron, and manganese. Secondary drinking water standards address aesthetics such as corrosivity, taste, and color, and testing for these parameters determines if water is suitable for laundering, plumbing, and showering. For example, due to the nature of soils and geology in southern New Jersey, the ground waters tend to be acidic (pH below 7), while ground waters in the northern part are neutral (pH=7) to basic (pH above 7). If the pH is too low (less than 6.5) water has a bitter metallic taste, and causes corrosion of pipes and fixtures. If the pH is too high (greater than 8.5) the water has a slippery feel, it tastes like soda, and deposits can form on plumbing fixtures.

Test results are reported by the lab to the person who requested the testing, to NJDEP, and to the local health authority. Suspicious or unexpected results are neither confirmed nor

Volatile Organic Compounds regulated by NJDEP

- Benzene
- Carbon Tetrachloride
- meta-Dichlorobenzene
- ortho-Dichlorobenzene
- para-Dichlorobenzene
- 1, 1-Dichloroethane
- 1, 2-Dichloroethane
- 1, 1-Dichloroethylene
- *cis* – 1, 2-Dichloroethylene
- *trans* – 1, 2-Dichloroethylene
- 1, 2-Dichloropropane
- Ethylbenzene
- Methyl tertiary butyl ether
- Methylene Chloride
- Monochlorobenzene
- Naphthalene
- Styrene
- 1, 1, 2, 2-Tetrachloroethane
- Tetrachloroethylene
- Toluene
- 1, 2, 4-Trichlorobenzene
- 1, 1, 1-Trichloroethane
- 1, 2, 2-Trichloroethane
- Trichloroethylene
- Vinyl Chloride
- Xylenes (Total)

verified by NJDEP. Local health authorities will investigate suspect results, if necessary.

In February 2004, NJDEP released an online report summarizing the initial well test results reported to the agency during the PWTA program's first six months (September 2002 to March 2003). Results for 5,179 wells are included, which represent approximately one-percent of private wells used as potable water supplies in New Jersey. The compilation of water test results is organized by county and municipality but does not include the names of specific property owners, their addresses, or well locations, because releasing that information is prohibited by law. About 92 percent of the 5,179 wells passed all the required (health-based) standards, with the exception of lead. Of the 8 percent (417 wells) of wells sampled that exceeded the maximum contaminant level for primary contaminants, the most common reason for failure statewide was nitrate (inorganics), followed by fecal coliform (bacteriological), and VOCs. Nitrates are found in ground water due to a number of factors, including natural deposits, runoff from fertilizer, leaching from septic tanks, and from sewage pipes.

More wells in northern New Jersey were found to have fecal coliform or *E. coli* bacteria than in southern New Jersey. The northern/southern difference is probably due to the different geology in these regions. Northern New Jersey is characterized by limestone subject to solution cavities, fractured bedrock, or gravel water-bearing zones, while the southern part of the state is composed mainly of coastal plain sand and gravel, which appears to provide better protection of ground water from fecal contaminants.

For those wells in the counties where mercury testing is required, 14 wells failed for mercury. Nine southern counties, including Burlington, Camden, Gloucester, and Salem, are required to test for mercury, which has been linked to neurological problems.

The test results for Salem County, Woodstown, and Pilesgrove are summarized in the table below. NJDEP's initial report indicates the presence of several drinking water contaminants, including mercury, gross alpha (radium), 1,2,3 trichloropropane, and 1,2 dichloropropane, in the county's groundwater.

Summary of PWTA Test Results for Salem County (September 2002 – March 2003)

Municipality	# Wells sampled	Total # Wells over the MCL*	Fecal coliform/ E. coli	Nitrate	Mercury	Any VOC** over the MCL
Pilesgrove Township	20	1	0	1	0	0
Woodstown Borough	1	0	0	0	0	0
<i>Salem County Totals</i>	<i>101</i>	<i>9</i>	<i>0</i>	<i>9</i>	<i>1</i>	<i>0</i>

Source: NJDEP, Division of Science, Research, and Technology (DSRT)

* MCL – Maximum Contaminant Level, set as the limit of a particular substance allowable to achieve a water quality standard

** VOC – Volatile Organic Compound.

APPENDIX C: Federal and State Conservation Programs for Farmers

There are several financial and economic incentive programs and technical assistance to help farmers plan and use conservation practices on their farms. The United States Department of Agriculture Natural Resources Conservation Service (NRCS) has a Farm Service Agency office in Waretown, Mannington Township, Salem County that serves Salem and Gloucester counties. NRCS staff members are available to work with farmers to help identify their conservation goals and then craft appropriate conservation plans to meet those goals.

Numerous programs provide financial incentives to help farmers voluntarily engage in these practices. Financial incentives can include rental payments to farmers for reserved land, easement payments, and cost sharing, up to 100% for some programs, to develop and follow conservation plans.

The **Conservation Reserve Program (CRP)** is offered by NRCS and administered by the Farm Service Agency. It provides technical and financial aid and gives farmers assistance in complying with federal, state and tribal environmental laws. The primary environmental goals of this program include reducing soil erosion, reducing sedimentation in streams and lakes, improving water quality, establishing wildlife habitat, and enhancing forest and wetland resources. Website: <http://www.nrcs.usda.gov/programs/crp/>.

The State of New Jersey partnered with the USDA to help farmers protect water quality by establishing a \$100 million **Conservation Reserve Enhancement Program (CREP)**, which is the New Jersey version of the federal program. Under an agreement signed by Governor McGreevy in February 2004, the USDA provides \$77 million and the state contributes \$23 million for New Jersey farmers to install stream buffers, in order to reduce the flow of nonpoint source pollution into the state's waterways. New Jersey's goal is to enroll 30,000 acres of agricultural land into this state-federal program over a 10-year period. Types of buffers to be installed include trees, shrubs, vegetative filter strips, contour grass strips and grass waterways. Under the program, a landowner installs and maintains approved practices through a 10 or 15-year rental contract agreement. A landowner entering the state Farmland Preservation Program or Green Acres Program also may opt for a permanent easement under the Conservation Reserve Enhancement Program. This would provide additional payment for permanent maintenance of approved conservation practices. The program will pay landowners annual rental and incentive payments for participating in the program as well as 100 % of the cost to establish approved practices. Additional information can be found at www.fsa.usda.gov or contact the local FSA office or Soil and Water Conservation District Office.

Another program targeted for wetlands preservation is called the **Wetlands Reserve Program (WRP)**. WRP is a voluntary resource conservation program that provides landowners the opportunity to receive financial incentive to restore, protect and enhance wetlands in exchange for returning marginal land from agriculture. WRP is made possible by a reauthorization in the Farm Security and Rural Investment Act of 2002 known as the Farm Bill. The program has three enrollment options: permanent easement, 30-year easement, or restoration cost-share agreement, which has a minimum 10-year commitment. Applications are accepted on a continuous basis

and may be obtained and filed at any time. Please see the website for more details: www.nrcs.usda.gov/programs/farmbill/2002/

The **Grassland Reserve Program (GRP)** is another conservation program authorized by the Farm Bill 2002. GRP is a voluntary program that protects grasslands, pasturelands, and rangelands without prohibiting grazing. Participants voluntarily put limitations on the future land use of their land while retaining the ability and right to conduct grazing practices, hay production, mow or harvest for seed production, conduct fire rehabilitation, and construct firebreaks and fences. There are four enrollment options: permanent easement; 30-year easement; rental agreement, which is available in 10, 15, 20 or 30-year contracts; and restoration agreement. Participants are compensated in different ways according to the enrollment option. For more information and application procedures visit the GRP website: www.fsa.usda.gov/dafp/GRP/default1.htm

The **Wildlife Habitat Incentives Program (WHIP)** is similar to those above in that it is also a USDA voluntary program, but differs in that WHIP targets landowners who want to preserve and protect fish and wildlife habitat on non-federal lands. The program provides technical and cost sharing provisions to protect these environments. Enrollment consists of a cost share agreement lasting from 5 to 10 years. In New Jersey, NRCS has received over \$900,000 to implement WHIP since 1998, where the majority of funds have been used for cost share payments to landowners. A state plan has been developed in New Jersey and targets several areas as priority wildlife habitat areas. NRCS has also targeted a priority species: the bog turtle, for protection. For more information visit the NRCS New Jersey website: www.nj.nrcs.usda.gov

The **Environmental Quality Incentives Program (EQIP)** is also a part of the reauthorized Farm Bill of 2002. EQIP is a voluntary program that focuses on conservation that promotes both agricultural production and environmental quality. The program itself offers technical and financial assistance with installation and implementation of structural and management practices on agricultural land. EQIP features a minimum contract term compared to other programs lasting a maximum of 10 years. Landowners are eligible for incentive and cost share payments of up to 75% and sometimes up to 90% while still engaging in livestock or agricultural production activities. For more information please visit the website: www.nrcs.usda.gov/programs/eqip

The **Conservation Security Program (CSP)** is a voluntary program administered by the NRCS and authorized by the Farm Bill 2002. This program is intended to promote conservation and improvement of soil, water, air, energy, plant and animal life, etc on Tribal and private working lands. Working lands refer to a variety of land types including cropland, grassland, prairie land, improved pasture and rangeland. In some cases forested lands would also be included in this category. CSP is available in 50 states as well as the Caribbean and Pacific Basin areas and provides equal access to funding. For more information please visit the website: www.nrcs.usda.gov/programs/csp/

The **Forestland Enhancement Program (FLEP)** is also authorized through the Farm Bill 2002 and replaces the Stewardship Incentives Program (SIP) and the Forestry incentives Program (FIP). FLEP is a voluntary program for landowners of non-industrial private forest and provides

technical, educational and cost-sharing assistance in an effort to promote the conservation of these forested areas. Landowners must have a forest management plan and are limited to 1,000 acres per year for the cost-share practices. For more information about this program please visit the website: <http://www.fs.fed.us/spf/coop/programs/loa/flep.shtml> and the National Association of State Foresters website to find your local agency: www.stateforesters.org

The **Farm and Ranch Lands Protection Program (FRPP)** is a voluntary land conservation program that assists farmers to keep their lands for agricultural purposes. FRPP provides matching funds to those provided by state, tribal, local government or non-government organizations offering farm and ranch protection programs designed to purchase conservation easements. The FRPP is authorized by the Farm Bill 2002 and managed by the NRCS. Conservation easements are purchased by the state, tribal or local entity. The participating landowner agrees not to convert their land to non-agricultural uses, as well as to develop a conservation plan for any highly erodible lands. Landowners do, however, maintain all of their rights to utilize their land for agricultural purposes. For more information about FRPP please visit the website: www.nrcs.usda.gov/programs/farbill/2002/ and search for the Farm and Ranch Lands Protection Program.

The **State Agricultural Development Committee (SADC) in New Jersey** has made soil and water conservation grants available as part of the Farmland Preservation Program. The grants give landowners up to 50% of costs associated with approved soil and water conservation projects. Farms are only eligible if they are already enrolled in a permanent or 8-year easement program. Soil projects can include measures to prevent or control erosion, control pollution on agricultural land, and improve water management for agricultural purposes. Projects must be completed within 3 years of SADC funding approval. However, under special circumstances the grant may be renewed for an additional year. For more information contact the local Soil Conservation District or the State Agricultural Development Committee at (609) 984-2504 or visit the website: <http://www.state.nj.us/agriculture/sadc/sadc.htm> for additional details.

The **Landowner Incentive Program (LIP)** is a preservation program for private landowners who wish to protect and conserve rare wildlife habitat and species. LIP is funded by the U.S. Fish and Wildlife Service and administered by the New Jersey Department of Environmental Protection's Division of Fish and Wildlife Endangered Nongame Species Program. Participating landowners receive both technical and financial assistance through this competitive grant program. Last year \$1.12 million was awarded for a variety of preservation programs including habitat improvements, habitat management and habitat protection projects. Generally a 5-year minimum commitment is required and longer terms are preferred. A 25% cost share is required of the landowner. While the LIP is seeking funding for additional habitat protection projects, it may be another year before grants are available. Interested landowners are encouraged to contact Kim Korth, ENSP assistant zoologist at (609) 984-1581 for additional details. To learn more about the program in general visit the website: http://www.state.nj.us/dep/fgw/ensp/lip_prog.htm or http://www.state.nj.us/dep/fgw/ensp/pdf/lip_broch.pdf

APPENDIX D: Annotated Inventory of Vertebrate Fauna

*An inventory of known or probable wild animal species
in Woodstown Borough and Pilesgrove Township*

*Compiled by Francis G. Rapa
Woodstown-Pilesgrove Joint Environmental Commission*

Key to Notes:

B – Breeding. (birds only) This species breeds in Salem County.

WP(AS) – Woodstown-Pilesgrove (Audubon Society). (birds only) This species has been reported in Woodstown and/or Pilesgrove by New Jersey Audubon Society at least once between 1990 and 2004.

WP(NH) – Woodstown-Pilesgrove (Natural Heritage). This rare species is listed as occurring in Woodstown and/or Pilesgrove by the New Jersey Natural Heritage Program.

S(NH) – Salem County (Natural Heritage). This rare species is listed as occurring in Salem County by the New Jersey Natural Heritage Program.

E – Endangered. This is a State-listed Endangered Species.

T – Threatened. This is a State-listed Threatened Species.

EX – Exotic - This is a non-indigenous species.

WP(FF) – Woodstown-Pilesgrove (Freshwater Fishes). (fishes only) This species has been confirmed in Woodstown and Pilesgrove waterbodies.

LO (FF) – Likely Occuring (Freshwater Fishes). (fishes only) This species has been recorded in the Oldmans Creek, Salem River or Alloway Creek Watershed or adjacent portions of the Delaware River.

Arranged in taxonomic order

BIRDS

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Red-throated Loon	<i>Gavia stellata</i>	
Common Loon	<i>Gavia immer</i>	
Pied-billed Grebe	<i>Podilymbus podiceps</i>	B, E, S(NH)
Horned Grebe	<i>Podiceps auritus</i>	
Red-necked	<i>Grebe Podiceps</i>	
Northern Gannet	<i>Morus bassanus</i>	
Great Cormorant	<i>Phalacrocorax carbo</i>	
Double-crested Cormorant	<i>Phalacrocorax auritus</i>	B
American Bittern	<i>Botaurus lentiginosus</i>	B, E
Least Bittern	<i>Ixobrychus exilis</i>	B
Great Blue Heron	<i>Ardea herodias</i>	B, WP(NH)
Great Egret	<i>Casmerodius albus</i>	B
Snowy Egret	<i>Egretta thula</i>	B
Little Blue Heron	<i>Egretta caerulea</i>	B
Tricolored Heron	<i>Egretta tricolor</i>	
Cattle Egret	<i>Bubulcus ibis</i>	B
Green-backed Heron	<i>Butorides striatus</i>	
Green Heron	<i>Butorides virescens</i>	B
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	B, T
Yellow-crowned Night Heron	<i>Nyctanassa violaceus</i>	T
Glossy Ibis	<i>Plegadis falcinellus</i>	B
Sandhill Crane	<i>Grus canadensis</i>	B
Tundra Swan	<i>Cygnus columbianus</i>	B, WP(AS)
Mute Swan	<i>Cygnus olor</i>	B
Snow Goose	<i>Chen caerulescens</i>	WP(AS)

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Ross's Goose	<i>Chen rossii</i>	WP(AS)
Brant	<i>Branta bernicla</i>	
Canada Goose	<i>Branta canadensis</i>	B
Wood Duck	<i>Aix sponsa</i>	B
Green-winged Teal	<i>Anas crecca</i>	
Blue-winged Teal	<i>Anas discors</i>	B
American Black Duck	<i>Anas rubripes</i>	B
Mallard	<i>Anas platyrhynchos</i>	B
Northern Pintail	<i>Anas acuta</i>	
Northern Shoveler	<i>Anas clypeata</i>	
Gadwall	<i>Anas strepera</i>	B
Eurasian Wigeon	<i>Anas penelope</i>	
American Wigeon	<i>Anas americana</i>	B
Canvasback	<i>Aythya valisineria</i>	
Redhead	<i>Aythya americana</i>	
Ring-necked Duck	<i>Aythya collaris</i>	
Greater Scaup	<i>Aythya marila</i>	
Lesser Scaup	<i>Aythya affinis</i>	
Common Eider	<i>Somateria mollissima</i>	
King Eider	<i>Somateria spectabilis</i>	
Common Goldeneye	<i>Bucephala clangula</i>	
Bufflehead	<i>Bucephala albeola</i>	WP(AS)
American Woodcock	<i>Philohela minor</i>	B
Hooded Merganser	<i>Lophodytes cucullatus</i>	WP(AS)
Common Merganser	<i>Mergus merganser</i>	
Red-breasted Merganser	<i>Mergus serrator</i>	
Ruddy Duck	<i>Oxyura jamaicensis</i>	B
Black Vulture	<i>Coragyps atratus</i>	B, WP(AS)
Turkey Vulture	<i>Cathartes aura</i>	B
Osprey	<i>Pandion haliaetus</i>	B, T, S(NH)
Swallowtail Kite	<i>Elanoides forficodus</i>	
Mississippi Kite	<i>Ictinia mississippiensis</i>	WP(AS)
Bald Eagle	<i>Haliaeetus leucocephalus</i>	B, E, WP(NH)
Golden Eagle	<i>Aquila chrysaetos</i>	
Northern Harrier	<i>Circus cyaneus</i>	B, E, S(NH)
Sharp-shinned Hawk	<i>Accipiter striatus</i>	
Cooper's Hawk	<i>Accipiter cooperii</i>	B, T, S(NH)
Northern Goshawk	<i>Accipiter gentilis</i>	E
Red-shouldered Hawk	<i>Buteo lineatus</i>	B, E, S(NH)
Broad-winged hawk	<i>Buteo platypterus</i>	B
Red-tailed Hawk	<i>Buteo jamaicensis</i>	B
Rough-legged Hawk	<i>Buteo lagopus</i>	
American Kestrel	<i>Falco sparverius</i>	B
Merlin	<i>Falco columbarius</i>	
Peregrine Falcon	<i>Falco peregrinus</i>	B, E, S(NH)
Common Barn Owl	<i>Tyto alba</i>	B
Eastern Screech Owl	<i>Otus asio</i>	B
Great Horned Owl	<i>Bubo virginianus</i>	B
Snowy Owl	<i>Nyctea scandiaca</i>	
Barred Owl	<i>Strix varia</i>	B, T, S(NH)
Long-eared Owl	<i>Asio otus</i>	T
Short-eared Owl	<i>Asio flammeus</i>	E
Northern Saw-whet Owl	<i>Aegolius acadicus</i>	
Ring-necked Pheasant	<i>Phasianus colchicus</i>	B, EX
Ruffed Grouse	<i>Bonasa umbellus</i>	

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Eastern Wild Turkey	<i>Meleagris gallopavo</i>	B
Chukar	<i>Alectoris graeca</i>	
Northern Bobwhite	<i>Colinus virginianus</i>	B
Yellow Rail	<i>Coturnicops noveboracensis</i>	
Black Rail	<i>Laterallus jamaicensis</i>	T
Clapper Rail	<i>Rallus longirostris</i>	B
King Rail	<i>Rallus elegans</i>	B
Virginia Rail	<i>Rallus limocola</i>	B
Sora	<i>Porzana carolina</i>	
Common Moorhen	<i>Gallinula chloropus</i>	B
American Coot	<i>Fulica americana</i>	B
Black-bellied Plover	<i>Pluvialis squatarola</i>	
Lesser/American Golden Plover	<i>Pluvialis dominica</i>	WP(AS)
Semipalmated Plover	<i>Charadrius semipalmatus</i>	
Piping Plover	<i>Charadrius melodus</i>	E
Killdeer	<i>Charadrius vociferus</i>	B
Black-necked Stilt	<i>Himantopus mexicanus</i>	
American Avocet	<i>Recurvirostra americana</i>	
Greater Yellowlegs	<i>Tringa melanoleuca</i>	
Lesser Yellowlegs	<i>Tringa flavipes</i>	
Willet	<i>Catoptrophorus semipalmatus</i>	B
Solitary Sandpiper	<i>Tringa solitaria</i>	
Spotted Sandpiper	<i>Actitis macularia</i>	B
Upland Sandpiper	<i>Bartramia longicauda</i>	B, E, WP(NH), WP(AS)
Semipalmated Sandpiper	<i>Calidris pusilla</i>	
Western Sandpiper	<i>Calidris mauri</i>	
Least Sandpiper	<i>Calidris minutilla</i>	
White-rumped Sandpiper	<i>Calidris fuscicollis</i>	WP(AS)
Baird's Sandpiper	<i>Calidris bairdii</i>	WP(AS)
Pectoral Sandpiper	<i>Calidris melanotos</i>	WP(AS)
Purple Sandpiper	<i>Calidris maritima</i>	
Curlew Sandpiper	<i>Calidris ferruginea</i>	
Stilt Sandpiper	<i>Calidris himantopus</i>	
Dunlin	<i>Calidris alpina</i>	
Buff-breasted Sandpiper	<i>Tryngites subruficollis</i>	WP(AS)
Ruff	<i>Philomachus pugnax</i>	
Short-billed Dowitcher	<i>Limnodromus griseus</i>	
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	
Common Snipe	<i>Gallinago gallinago</i>	
Hudsonian Godwit	<i>Limosa limosa</i>	WP(AS)
American Woodcock	<i>Scolopax minor (Philohela minor)</i>	B
Wilson's Phalarope	<i>Phalaropus tricolor</i>	WP(AS)
Red-necked Phalarope	<i>Phalaropus lobatus</i>	
Laughing Gull	<i>Larus atricilla</i>	
Little Gull	<i>Larus minutus</i>	
Common Black-headed Gull	<i>Larus ridibundus</i>	
Lesser Black-backed Gull	<i>Larus fuscus</i>	WP(AS)
Black-headed Gull	<i>Larus ridibundus</i>	WP(AS)
Bonaparte's Gull	<i>Larus philadelphia</i>	
Ring-billed Gull	<i>Larus delawarensis</i>	(1)
Herring Gull	<i>Larus argentatus</i>	
Iceland Gull	<i>Larus glaucoides</i>	
Glaucous Gull	<i>Larus hyperboreusi</i>	
Great Black-backed Gull	<i>Larus marinus</i>	
Gull-billed Tern	<i>Sterna nilotica</i>	

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Caspian Tern	<i>Sterna caspia</i>	
Royal Tern	<i>Sterna maxima</i>	
Roseate Tern	<i>Sterna dougallii</i>	E
Common Tern	<i>Sterna hirundo</i>	
Forster's Tern	<i>Sterna forsteri</i>	B
Least Tern	<i>Sterna antillarum</i>	E
Black Tern	<i>Chidonias niger</i>	WP(AS)
Black Skimmer	<i>Rynchops niger</i>	E
Rock Dove	<i>Columba livia</i>	B
Mourning Dove	<i>Zenaida macroura</i>	B
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	B
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>	B
Common Nighthawk	<i>Chordeiles minor</i>	
Chuck-will's-widow	<i>Caprimulgus carolinensis</i>	B
Whip-poor-will	<i>Caprimulgus vociferus</i>	B
Chimney Swift	<i>Chaetura pelagica</i>	B
Ruby-throated Hummingbird	<i>Archilochus colubris</i>	B
Belted Kingfisher	<i>Ceryle alcyon</i>	B
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	B, T, S(NH)
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>	B
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>	
Downy Woodpecker	<i>Picoides pubescens</i>	B
Hairy Woodpecker	<i>Picoides villosus</i>	B
Northern Common Flicker	<i>Colaptes auratus</i>	B
Pileated Woodpecker	<i>Dryocopus pileatus</i>	
Olive-sided Flycatcher	<i>Contopus borealis</i>	
Eastern Wood Pewee	<i>Contopus virens</i>	B
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>	
Acadian Flycatcher	<i>Empidonax virescens</i>	B
Alder Flycatcher	<i>Empidonax alnorum</i>	
Willow Flycatcher	<i>Empidonax traillii</i>	B
Least Flycatcher	<i>Empidonax minimus</i>	
Eastern Phoebe	<i>Sayornis phoebe</i>	B
Great Crested Flycatcher	<i>Myiarchus crinitus</i>	B
Western Kingbird	<i>Tyrannus verticalis</i>	
Eastern Kingbird	<i>Tyrannus Tyrannus</i>	B
Horned Lark	<i>Eremophila alpestris</i>	B, WP(AS)
Purple martin	<i>Progne subis</i>	B
Tree Swallow	<i>Tachycineta bicolor</i>	B
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	B
Bank Swallow	<i>Riparia riparia</i>	B
Cliff Swallow	<i>Hirundo pyrrhonota</i>	B
Barn Swallow	<i>Hirundo rustica</i>	B
Blue Jay	<i>Cyanocitta cristata</i>	B
American Crow	<i>Corvus brachyrhynchos</i>	B
Fish Crow	<i>Corvus ossifragus</i>	B
Common Raven	<i>Corvus corax</i>	
Black-capped Chickadee	<i>Parus atricapillus</i>	
Carolina Chickadee	<i>Parus carolinensis</i>	B
Boreal Chickadee	<i>Parus hudsonicus</i>	
Tufted Titmouse	<i>Parus bicolor</i>	B
Red-breasted Nuthatch	<i>Sitta canadensis</i>	
White-breasted Nuthatch	<i>Sitta carolinensis</i>	B
Brown Creeper	<i>Certhia americana</i>	
Carolina Wren	<i>Thryothorus ludovicianus</i>	B

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
House Wren	<i>Troglodytes aedon</i>	B
Winter Wren	<i>Troglodytes troglodytes</i>	
Sedge Wren	<i>Cistothorus platensis</i>	B, E, S(NH)
Marsh Wren	<i>Cistothorus palustris</i>	B
Golden-crowned Kinglet	<i>Regulus satrapa</i>	
Ruby-crowned Kinglet	<i>Regulus calendula</i>	
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>	B
Eastern Bluebird	<i>Sialia sialis</i>	B
Veery	<i>Catharus fuscescens</i>	
Gray-cheeked Thrush	<i>Catharus minimus</i>	
Swainson's Thrush	<i>Catharus ustulatus</i>	
Hermit Thrush	<i>Catharus guttatus</i>	
Wood Thrush	<i>Hylocichla mustelina</i>	B
American Robin	<i>Turdus migratorius</i>	B
Catbird	<i>Dumetella carolinensis</i>	B
Northern Mockingbird	<i>Mimus polyglottos</i>	B
Brown Thrasher	<i>Toxostoma rufum</i>	B
Water Pipit	<i>Anthus rubescens</i>	
Cedar Waxwing	<i>Bombycilla cedrorum</i>	B
Northern Shrike	<i>Lanius exubitor</i>	
Loggerhead Shrike	<i>Lanius ludovicianus</i>	E
European Starling	<i>Sturnus vulgaris</i>	B, EX
White-eyed Vireo	<i>Vireo griseus</i>	B
Solitary Vireo	<i>Vireo solitarius</i>	
Yellow-throated Vireo	<i>Vireo flavifrons</i>	B
Warbling Vireo	<i>Vireo gilvus</i>	B
Philadelphia Vireo	<i>Vireo philadelphicus</i>	
Red-eyed Vireo	<i>Vireo olivaceus</i>	B
Blue-winged Warbler	<i>Vermivora pinus</i>	B
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	
Tennessee Warbler	<i>Vermivora peregrina</i>	
Orange-crowned Warbler	<i>Vermivora celata</i>	
Nashville Warbler	<i>Vermivora reficapilla</i>	
Northern Parula	<i>Parula americana</i>	B
Yellow Warbler	<i>Dendroica petechia</i>	B
Chestnut-sided Warbler	<i>Dendroica pensylvanica</i>	
Magnolia Warbler	<i>Dendroica magnolia</i>	
Cape May Warbler	<i>Dendroica tigrina</i>	
Black-throated Blue Warbler	<i>Dendroica caerulescens</i>	
Yellow-rumped Warbler	<i>Dendroica coronata</i>	
Black-throated Green Warbler	<i>Dendroica virens</i>	
Blackburnian Warbler	<i>Dendroica fusca</i>	
Yellow-throated Warbler	<i>Dendroica dominica</i>	
Pine Warbler	<i>Dendroica pinus</i>	B
Prairie Warbler	<i>Dendroica discolor</i>	B
Palm Warbler	<i>Dendroica palmarum</i>	
Bay-breasted Warbler	<i>Dendroica castanea</i>	
Blackpoll Warbler	<i>Dendroica striata</i>	
Cerulean Warbler	<i>Dendroica cerulea</i>	
Black and White Warbler	<i>Miniotilta varia</i>	B
American Redstart	<i>Setophaga ruticilla</i>	B
Prothonotary Warbler	<i>Protonotaria citrea</i>	B
Worm-eating Warbler	<i>Helmitheros vermivorus</i>	B
Ovenbird	<i>Seiurus aurocapillus</i>	B
Northern Waterthrush	<i>Seiurus noveboracensis</i>	

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Louisiana Waterthrush	<i>Seiurus motacilla</i>	B
Kentucky Warbler	<i>Oporornis formosus</i>	B, WP(AS)
Connecticut Warbler	<i>Oporornis agilis</i>	
Mourning Warbler	<i>Oporornis philadelphia</i>	
Common Yellowthroat	<i>Geothlypis trichas</i>	B
Hooded Warbler	<i>Wilsonia citrina</i>	B
Wilson's Warbler	<i>Wilsonia pusilla</i>	
Canada Warbler	<i>Wilsonia canadensis</i>	
Yellow-breasted Chat	<i>Icteria virens</i>	B
Summer Tanager	<i>Piranga rubra</i>	B
Scarlet Tanager	<i>Piranga olivacea</i>	B
Northern Cardinal	<i>Cardinalis cardinalis</i>	B
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	
Blue Grosbeak	<i>Guiraca caerulea</i>	B
Indigo Bunting	<i>Passerina cyanea</i>	B
Dickcissel	<i>Spiza americana</i>	WP(AS)
Rufous-sided Towhee	<i>Pipilo erythrophthalmus</i>	B
American Tree Sparrow	<i>Spizella arborea</i>	
Chipping Sparrow	<i>Spizella passerina</i>	B
Field Sparrow	<i>Spizella pusilla</i>	B
Vesper Sparrow	<i>Pooecetes gramineus</i>	B, E, WP(NH)
Lark Sparrow	<i>Chondestes grammacus</i>	WP(AS)
Savannah Sparrow	<i>Passerculus sandwichensis</i>	B, T, WP(NH), WP(AS)
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	B, T, WP(NH), WP(AS)
Henslow's Sparrow	<i>Ammodramus henslowii</i>	E, WP(AS)
Sharp-tailed Sparrow	<i>Ammodramus caudacutus</i>	
Seaside Sparrow	<i>Ammodramus maritima</i>	B
Fox Sparrow	<i>Passerella iliaca</i>	
Song Sparrow	<i>Melospiza melodia</i>	B
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	
Swamp Sparrow	<i>Melospiza georgiana</i>	B
White-throated Sparrow	<i>Zonotrichia albicollis</i>	
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	WP(AS)
House Sparrow	<i>Passer domesticus</i>	B, EX
Dark-eyed Junco	<i>Junco hyemalis</i>	
Lapland Longspur	<i>Calcarius lapponicus</i>	WP(AS)
Snow Bunting	<i>Plectrophenax nivalis</i>	WP(AS)
Bobolink	<i>Dolichonyx oryzivorus</i>	B, T, WP(NH), WP(AS)
Eastern Meadowlark	<i>Sturnella magna</i>	B
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	B
Rusty Blackbird	<i>Euphagus carolinus</i>	
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	WP(AS)
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	WP(AS)
Boat-tailed Grackle	<i>Quiscalus major</i>	B
Common Grackle	<i>Quiscalus quiscula</i>	B
Brown-headed Cowbird	<i>Molothrus ater</i>	B
Orchard Oriole	<i>Icterus spurius</i>	B
Northern Oriole (Baltimore Oriole)	<i>Icterus galbula</i>	B
Pine Grosbeak	<i>Pinicola enucleator</i>	
Purple Finch	<i>Carpodacus purpureus</i>	
House Finch	<i>Carpodacus mexicanus</i>	B
Red Crossbill	<i>Loxia curvirostra</i>	
White-winged Crossbill	<i>Loxia leucoptera</i>	
Common Redpoll	<i>Carduelis flammea</i>	
Pine Siskin	<i>Carduelis pinus</i>	

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
American Goldfinch	<i>Carduelis tristis</i>	B
Evening Grosbeak	<i>Hesperiphona vespertinus</i>	

(1) New Jersey Audubon Society reports 8,000 Ring-billed Gulls at Sharptown on April 4, 1983.

MAMMALS

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Opossum	<i>Didelphis marsupialis</i>	
Masked Shrew	<i>Sorex cinereus</i>	
Short-tailed Shrew	<i>Blarina brevicauda</i>	
Least Shrew	<i>Cryptotis parva</i>	
Hairy-tailed Mole	<i>Parascalops breweri</i>	
Eastern Mole	<i>Scalopus aquaticus</i>	
Star-nosed Mole	<i>Condylura cristata</i>	
Little Brown Bat	<i>Myotis lucifugus</i>	
Northern Long-Eared Bat, Keen Myotis	<i>Myotis septentrionalis</i>	
Small-footed Bat	<i>Myotis leibii</i>	
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	
Eastern Pipistrel	<i>Pipistrellus subflavus</i>	
Big Brown Bat	<i>Eptesicus fuscus</i>	
Red Bat	<i>Lasiurus borealis</i>	
Hoary Bat	<i>Lasiurus cinereus</i>	
Evening Bat	<i>Nycticeius humeralis</i>	
Eastern Cottontail	<i>Sylvilagus floridanus</i>	
Eastern Chipmunk	<i>Tamias striatus</i>	
Woodchuck	<i>Marmota monax</i>	
Gray Squirrel	<i>Sciurus carolinensis</i>	
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	
Southern Flying Squirrel	<i>Glaucomys volans</i>	
Beaver	<i>Castor canadensis</i>	
Nutria	<i>Myocastor coypus</i>	EX
Marsh Rice Rat	<i>Oryzomys palustris</i>	
White-footed Mouse	<i>Peromyscus leucopus</i>	
Meadow Vole	<i>Microtus pennsylvanicus</i>	
Pine Vole	<i>Microtus pinetorum</i>	
Muskrat	<i>Ondatra zibethicus</i>	
Southern Bog Lemming	<i>Synaptomys cooperi</i>	
Brown Rat, Norway Rat	<i>Rattus norvegicus</i>	EX
House mouse	<i>Mus musculus</i>	EX
Meadow Jumping Mouse	<i>Zapus hudsonius</i>	
Eastern Coyote	<i>Canis latrans var.</i>	
Red Fox	<i>Vulpes vulpes</i>	
Gray Fox	<i>Urocyon cinereoargenteus</i>	
Black Bear	<i>Ursus americanus</i>	Reports (1)
Raccoon	<i>Procyon lotor</i>	
Long-tailed Weasel	<i>Mustela frenata</i>	
Mink	<i>Mustela vison</i>	
Striped Skunk	<i>Mephitis mephitis</i>	
River Otter	<i>Lutra canadensis</i>	
Bobcat	<i>Felis rufus</i>	E, S(NH), (2)
White-tailed Deer	<i>Odocoileus virginianus</i>	

(1) While Salem County is not presently considered “occupied” range, the black bear population is steadily increasing throughout southern New Jersey, with occasional sightings reported in Salem County over the past thirty years. Most recently, in June 2004, a bear was reported on a farm in Upper Pittsgrove within a mile of Pilesgrove and another in neighboring Woolwich, Gloucester County in March 2005. Both resident and transient black bears are not improbable in Woodstown-Pilesgrove. If it does not presently exist, an established, breeding population is likely to occur in Salem County in the near-term future. Forested wetlands of southern Pilesgrove Township and a large forest complex along the Oldmans Creek in eastern Pilesgrove offer the most suitable black bear habitat in the Woodstown-Pilesgrove area. Studies of coastal plain black bears in North Carolina document that the species is highly adaptable to agricultural regions, using river corridors and old fields as travel corridors between foraging areas.

(2) The NJ Endangered and Non-game species program (ENSP) and NJ Natural Heritage Program have documented recorded sightings of bobcats in Salem County, although scent-post surveys have failed to provide physical evidence of their presence. A highly reclusive animal, bobcat have been documented by State biologists in areas east of Woodstown-Pilesgrove, specifically in or around Upper Pittsgrove Township and the author of this checklist has heard anecdotal reports of bobcats in southern Pilesgrove. Suitable habitat exists throughout the county. Like black bears, bobcats are highly adaptable and prefer mixed habitats, including areas of forests, farmland and early succession vegetation. In South Jersey, “dense thickets of briars and conifers serve as resting and escape cover (NJ Division of Fish and Wildlife).” A bobcat specialist with the ENSP conveyed that bobcats likely occur locally in Woodstown and Pilesgrove.

REPTILES

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Common Snapping Turtle	<i>Chelydra s. serpentina</i>	
Stinkpot	<i>Sternotherus odoratus</i>	
Eastern Mud Turtle	<i>Kinosternon s. subrubrum</i>	
Spotted Turtle	<i>Clemmys guttata</i>	
Bog Turtle	<i>Clemmys muhlenbergi</i>	E, WP(NH)
Eastern Box Turtle	<i>Terrapene c. carolina</i>	
Red-bellied Turtle	<i>Pseudemys rubriventris</i>	
Red-eared Turtle	<i>Pseudemys scripta elegans</i>	EX
Eastern Painted Turtle	<i>Chrysemys p. picta</i>	
Midland Painted Turtle	<i>Chrysemys picta marginata</i>	
Northern Fence Lizard	<i>Sceloporus undulatus hyacinthinus</i>	
Five-lined Skink	<i>Eumeces fasciatus</i>	
Northern Water Snake	<i>Nerodia s. sipedon</i>	
Northern Brown Snake	<i>Storeria d. dekayi</i>	
Northern Red-bellied Snake	<i>Storeria o. occipitamaculata</i>	
Eastern Garter Snake	<i>Thamnophis s. sirtalis</i>	
Eastern Ribbon Snake	<i>Thamnophis s. sauritus</i>	
Eastern Smooth Earth Snake	<i>Virginia v. valeriae</i>	
Eastern Hognose Snake	<i>Heterodon platyrhinos</i>	
Northern Ringneck Snake	<i>Diadophis punctatus edwardsi</i>	
Southern Ringneck Snake	<i>Diadophis p. punctatus</i>	
Eastern Worm Snake	<i>Carphophis a. amoenus</i>	
Northern Black Racer	<i>Coluber c. constrictor</i>	
Rough Green Snake	<i>Opheodrys aestivus</i>	
Black Rat Snake	<i>Elaphe o. obsoleta</i>	
Eastern King Snake	<i>Lampropeltis g. getulus</i>	
Eastern Milk Snake	<i>Lampropeltis triangulum triangulum</i>	
Scarlet Kingsnake	<i>Lampropeltis triangulum elapsoides</i>	
"Coastal Plain" Milk Snake intergrade	<i>L. t. triangulum x L. t. elapsoides</i>	

AMPHIBIANS

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Marbled Salamander	<i>Ambystoma opacum</i>	
Spotted Salamander	<i>Ambystoma maculatum</i>	E
Eastern Tiger Salamander	<i>Ambystoma t. tigrinum</i>	E, S(NH)
Red-spotted Newt, Eastern Newt	<i>Notophthalmus v. viridescens</i>	
Eastern Red-backed Salamander	<i>Plethodon c. cinereus</i>	
Northern Slimy Salamander	<i>Plethodon g. glutinosus</i>	
Four-toed Salamander	<i>Hemidactylum scutatum</i>	
Northern Red Salamander	<i>Pseudotriton r. ruber</i>	
Eastern Mud Salamander	<i>Pseudotriton m. montanus</i>	T
Northern Two-lined Salamander	<i>Eurycea b. bislineata</i>	
Eastern Spadefoot Toad	<i>Scaphiopus h. holbrookii</i>	
Fowler's Toad	<i>Bufo woodhousii fowleri</i>	
Northern Cricket Frog	<i>Acris c. crepitans</i>	
Northern Spring Peeper	<i>Hyla c. crucifer</i>	
Northern Gray Treefrog	<i>Hyla versicolor</i>	
Southeastern Chorus Frog	<i>Pseudacris feriarum</i>	
New Jersey Chorus Frog	<i>Pseudacris triseriata kalmi</i>	
American Bullfrog	<i>Rana catesbeiana</i>	
Green Frog	<i>Rana clamitans melanota</i>	
Wood Frog	<i>Rana sylvatica</i>	
Southern Leopard Frog	<i>Rana spenocephala</i>	
Pickerel Frog	<i>Rana palustris</i>	

FRESHWATER FISHES

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
American Brook Lamprey	<i>Lampetra appendix</i>	LO(FF)
Sea Lamprey	<i>Petromyzon marinus</i>	LO(FF)
Shortnose Sturgeon	<i>Acipenser brevirostrum</i>	E, LO(FF)
Atlantic Sturgeon	<i>Acipenser oxyrinchus</i>	LO(FF)
American Eel	<i>Anguilla rostrata</i>	WP(FF)
Blueback Herring	<i>Alosa aestivalis</i>	WP(FF)
Hickory Shad	<i>Alosa mediocris</i>	LO(FF)
Alewife	<i>Alosa pseudoharengus</i>	WP(FF)
American Shad	<i>Alosa sapidissima</i>	LO(FF)
Gizzard Shad	<i>Dorosoma cepedianum</i>	WP(FF)
Goldfish	<i>Carassius auratus</i>	EX, LO(FF)
Satinfin Shiner	<i>Cyprinella analostana</i>	WP(FF)
Common Carp	<i>Cyprinus carpio</i>	EX, WP(FF)
Eastern Silvery Minnow	<i>Hybognathus regius</i>	WP(FF)
Common Shiner	<i>Luxilus cornutus</i>	WP(FF)
Golden Shiner	<i>Notemigonus crysoleucas</i>	WP(FF)
Bridle Shiner	<i>Notropis bifrenatus</i>	WP(FF)
Spottail Shiner	<i>Notropis hudsonius</i>	WP(FF)
Swallowtail Shiner	<i>Notropis procne</i>	WP(FF)
Blacknose Dace	<i>Rhinichthys atratulus</i>	LO(FF)
Creek Chub	<i>Semotilus atromaculatus</i>	WP(FF)
Fallfish	<i>Semotilus corporalis</i>	WP(FF)
White Sucker	<i>Catostomus commersoni</i>	WP(FF)
Creek Chubsucker	<i>Erimyzon oblongus</i>	WP(FF)
White Catfish	<i>Ameiurus catus</i>	WP(FF)

<u>Common Name</u>	<u>Scientific Name</u>	<u>Notes</u>
Channel Catfish	<i>Ictalurus punctatus</i>	WP(FF)
Yellow Bullhead	<i>Ameiurus natalis</i>	WP(FF)
Brown Bullhead	<i>Ameiurus nebulosus</i>	WP(FF)
Tadpole Madtom	<i>Noturus gyrinus</i>	WP(FF)
Margined Madtom	<i>Noturus insignis</i>	WP(FF)
Redfin or Grass Pickerel	<i>Esox americanus</i>	WP(FF)
Northern Pike	<i>Esox lucius</i>	EX, LO(FF)
Chain Pickerel	<i>Esox niger</i>	WP(FF)
Rainbow Trout	<i>Oncorhynchus mykiss</i>	EX, WP(FF)
Brown Trout	<i>Salmo trutta</i>	EX, WP(FF)
Brook Trout	<i>Salvelinus fontinalis</i>	WP(FF)
Rainbow Smelt	<i>Osmerus mordax</i>	LO(FF)
Eastern Mudminnow	<i>Umbra pygmaea</i>	WP(FF)
Pirate Perch	<i>Aphredoderus sayanus</i>	WP(FF)
Inland Silverside	<i>Menidia beryllina</i>	LO(FF)
Banded Killifish	<i>Fundulus diaphanus</i>	WP(FF)
Mummichog	<i>Fundulus heteroclitus</i>	LO(FF)
Western Mosquitofish	<i>Gambusia affinis</i>	EX, WP(FF)
Eastern Mosquitofish	<i>Gambusia holbrooki</i>	LO(FF)
Fourspine Stickleback	<i>Apeltes quadracus</i>	LO(FF)
Threespine Stickleback	<i>Gasterosteus aculeatus</i>	LO(FF)
White Perch	<i>Morone americana</i>	WP(FF)
Striped Bass	<i>Morone saxatilis</i>	WP(FF)
Mud Sunfish	<i>Acantharchus pomotis</i>	WP(FF)
Blackbanded Sunfish	<i>Enneacanthus chaetodon</i>	LO(FF)
Bluespotted Sunfish	<i>Enneacanthus gloriosus</i>	WP(FF)
Banded Sunfish	<i>Enneacanthus obesus</i>	LO(FF)
Redbreast Sunfish	<i>Lepomis auritus</i>	WP(FF)
Green Sunfish	<i>Lepomis cyanellus</i>	EX, LO(FF)
Pumpkinseed	<i>Lepomis gibbosus</i>	WP(FF)
Warmouth	<i>Lepomis gulosus</i>	LO(FF)
Bluegill	<i>Lepomis macrochirus</i>	EX, WP(FF)
Largemouth Bass	<i>Micropterus salmoides</i>	EX, WP(FF)
White Crappie	<i>Pomoxis annularis</i>	EX, WP(FF)
Black Crappie	<i>Pomoxis nigromaculatus</i>	EX, WP(FF)
Swamp Darter	<i>Etheostoma fusiforme</i>	LO(FF)
Tessellated Darter	<i>Etheostoma olmstedii</i>	WP(FF)
Yellow Perch	<i>Perca flavescens</i>	WP(FF)
Hogchoker	<i>Trinectes maculatus</i>	WP(FF)

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APPENDIX E: Annotated Inventory of Flora

*A list of wild plants likely, historically and presently occurring in Salem County
with special emphasis on Pilesgrove Township and Woodstown Borough.*

*Compiled by Francis G. Rapa
Woodstown-Pilesgrove Joint Environmental Commission*

*Edited by
Joseph R. Arsenault*

Explanation of Notes:

Bold typeface - denotes species that is known or confirmed to exist as a wild (non-cultivated) species within Woodstown and/or Pilesgrove through direct observation, botanical survey, recent records, environmental impact statements or other means.

WP(S) – *Woodstown-Pilesgrove, Stone* - This plant species was historically observed or recorded within Woodstown and/or Pilesgrove by Whitmer Stone.

WP(M)– *Woodstown-Pilesgrove, Montgomery* – This plant species was observed or recorded within Woodstown and/or Pilesgrove by Montgomery and Fairbrothers.

WP(NH) - *Woodstown-Pilesgrove, Natural Heritage* - This is an endangered plant species that is documented as occurring within Woodstown and/or Pilesgrove by the New Jersey Natural Heritage Program.

S(NH) - *Salem, Natural Heritage*- This is an endangered plant species that is documented as occurring within Salem County by the New Jersey Natural Heritage Program.

NUS - *Nonindigenous US Native* - This plant species' native range includes portions of the United States outside of southern New Jersey. It has colonized or grows wild in natural areas within Salem County.

NEX - *Nonindigenous Exotic* - This plant species is native to foreign countries and it has colonized or grows wild in natural areas within Salem County.

SE - *State Endangered* - This plant species is listed on New Jersey's official endangered species list.

FE - *Federal Endangered* - This plant species is listed as an endangered species by the US Fish and Wildlife Service.

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Acalypha gracilens</i>	slender threeseed mercury	
<i>Acalypha rhomboidea</i>	Virginia threeseed mercury	
<i>Acer negundo</i>	Boxelder	
<i>Acer platanoides</i>	Norway maple	NEX
<i>Acer rubrum var. trilobum</i>	red maple	WP(S)
<i>Acer rubrum</i>	red maple	
<i>Acorus calamus</i>	calamus	
<i>Adiantum pedatum</i>	northern maidenhair	WP(M)
<i>Aesculus flava</i>	yellow buckeye	
<i>Agalinis fasciculata</i>	Beach false foxglove	
<i>Agalinis paupercula var. paupercula</i>	smallflower false foxglove	
<i>Agalinis purpurea</i>	purple false foxglove	
<i>Agalinis setacea</i>	threadleaf false foxglove	
<i>Agastache nepetoides</i>	yellow giant hyssop	WP(NH)
<i>Agrimonia parviflora</i>	harvestlice	
<i>Agrimonia rostellata</i>	beaked agrimony	
<i>Agrostemma githago</i>	common corncockle	
<i>Ailanthus altissima</i>	tree of heaven	NEX
<i>Aira caryophylla</i>	silver hairgrass	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Albizia julibrissin</i>	mimosa	NEX
<i>Aletris farinosa</i>	white colicroot	
<i>Allium canadense</i> var. <i>canadense</i>	meadow garlic	
<i>Allium tricoccum</i>	wild leek	WP(S)
<i>Allium vineale</i> ssp. <i>vineale</i>	wild garlic	NEX
<i>Alnus serrulata</i>	hazel alder	
<i>Alopecurus aequalis</i> var. <i>aequalis</i>	shortawn foxtail	WP(NH)
<i>Alopecurus carolinianus</i>	Carolina foxtail	
<i>Amaranthus arenicola</i>	sandhill amaranth	
<i>Amaranthus cannabinus</i>	tidalmarsh amaranth	
<i>Amaranthus rudis</i>	tall amaranth	
<i>Amaranthus spinosus</i>	spiny amaranth	
<i>Ambrosia artemisiifolia</i>	annual ragweed	
<i>Ambrosia trifida</i>	great ragweed	WP(S)
<i>Amelanchier canadensis</i>	Canadian serviceberry	
<i>Amelanchier Hintermedia</i>	Shad-bush	WP(S)
<i>Amelanchier laevis</i>	Allegheny serviceberry	
<i>Amelanchier obovalis</i>	coastal serviceberry	
<i>Amelanchier stolonifera</i>	running serviceberry	
<i>Amianthium muscivomicum</i>	flypoison	WP(S), WP(NH)
<i>Amorpha fruticosa</i>	desert false indigo	
<i>Amphicarpaea bracteata</i> var. <i>bracteata</i>	American hogpeanut	
<i>Anagallis arvensis</i>	scarlet pimpernel	
<i>Andropogon gerardii</i>	big bluestem	
<i>Andropogon gyrans</i> var. <i>gyrans</i>	Elliott's bluestem	
<i>Anemone quinquefolia</i>	nightcaps	WP(S)
<i>Angelica atropurpurea</i>	purplestem angelica	
<i>Antennaria howellii</i> ssp. <i>canadensis</i>	Canadian pussytoes	SE
<i>Antennaria howellii</i> ssp. <i>neodioica</i>	Howell's pussytoes	
<i>Antennaria neglecta</i>	field pussytoes	
<i>Antennaria parlinii</i> ssp. <i>fallax</i>	Parlin's pussytoes	
<i>Antennaria parlinii</i>	Parlin's pussytoes	
<i>Antennaria plantaginifolia</i>	woman's tobacco	
<i>Anthemis arvensis</i>	corn chamomile	
<i>Anthoxanthum odoratum</i>	sweet vernalgrass	NEX
<i>Apios americana</i>	groundnut	WP(S)
<i>Aplectrum hyemale</i>	Adam and Eve, Puttyroot	SE
<i>Apocynum cannabinum</i>	Indianhemp	
<i>Apocynum Hfloribundum</i>		
<i>Aquilegia canadensis</i>	red columbine	WP(S)
<i>Arabidopsis thaliana</i>	mouseear cress	
<i>Aralia spinosa</i>	devil's walkingstick	
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	
<i>Aristida lanosa</i>	woollysheath threeawn	S(NH), SE
<i>Aristida longispica</i>	slimspike threeawn	
<i>Aristida oligantha</i>	prairie threeawn	
<i>Aristida purpurascens</i> var. <i>virgata</i>	arrowfeather threeawn	
<i>Aristolochia serpentaria</i>	Virginia snakeroot	
<i>Armoracia rusticana</i>	horseradish	
<i>Arrhenatherum elatius</i> var. <i>elatius</i>	tall oatgrass	NEX
<i>Artemisia ludoviciana</i>	white sagebrush	
<i>Asclepias amplexicaulis</i>	clasping milkweed	WP(S)
<i>Asclepias incarnata</i>	swamp milkweed	
<i>Asclepias purpurascens</i>	purple milkweed	
<i>Asclepias rubra</i>	red milkweed	S(NH)

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Asclepias syriaca</i>	common milkweed	
<i>Asclepias tuberosa</i>	butterfly milkweed	
<i>Asclepias variegata</i>	redring milkweed	WP(NH)
<i>Asclepias verticillata</i>	whorled milkweed	
<i>Asplenium platyneuron</i>	ebony spleenwort	WP(M)
<i>Athyrium filix-femina</i>	common ladyfern	
<i>Athyrium filix-femina ssp. angustum</i>	subarctic ladyfern	WP(M)
<i>Athyrium filix-femina ssp. aspleniodes</i>	asplenium ladyfern	WP(M)
<i>Atriplex patula</i>	spear saltbush	
<i>Atriplex prostrata</i>	triangle orache	
<i>Baccharis halimifolia</i>	eastern baccharis	
<i>Barbarea verna</i>	early yellowrocket	
<i>Belamcanda chinensis</i>	blackberry lily	
<i>Berberis thunbergii</i>	Japanese barberry	NEX
<i>Berteroa incana</i>	hoary false madwort	
<i>Betula nigra</i>	river birch	
<i>Bidens aristosa</i>	bearded beggarticks	NUS
<i>Bidens coronata</i>	crowned beggarticks	
<i>Bidens discoidea</i>	small beggarticks	
<i>Bidens frondosa</i>	devil's beggartick	
<i>Boehmeria cylindrica</i>	smallspike false nettle	
<i>Botrychium dissectum</i>	cutleaf grapefern	WP(M)
<i>Botrychium matricariifolium</i>	matricary grapefern	
<i>Botrychium virginianum</i>	rattlesnake fern	WP(M)
<i>Brassica nigra</i>	black mustard	
<i>Brassica rapa var. rapa</i>	field mustard	NEX
<i>Bromus japonicus</i>	Japanese brome	
<i>Bromus racemosus</i>	bald brome	
<i>Bromus tectorum</i>	cheatgrass	NEX
<i>Buglossoides arvensis</i>	corn gromwell	
<i>Calamagrostis canadensis var. canadensis</i>	bluejoint	
<i>Callitriche heterophylla</i>	twoheaded water-starwort	
<i>Callitriche terrestris</i>	terrestrial water-starwort	
<i>Caltha palustris</i>	yellow marsh marigold	
<i>Calystegia sepium ssp. sepium</i>	hedge false bindweed	
<i>Calystegia spithamea ssp. spithamea</i>	low false bindweed	
<i>Calystegia spithamea</i>	low false bindweed, erect bindweed	S(NH), SE
<i>Camelina microcarpa</i>	littlepod false flax	
<i>Campanula aparinoides</i>	marsh bellflower	
<i>Campsis radicans</i>	trumpet creeper	
<i>Cardamine bulbosa</i>	bulbous bittercress	
<i>Cardamine concatenata</i>	cutleaf toothwort	
<i>Cardaria draba</i>	whitetop	
<i>Carex abscondita</i>	thicket sedge	WP(S)
<i>Carex alata</i>	broadwing sedge	
<i>Carex albolutescens</i>	greenwhite sedge	
<i>Carex amphibola</i>	eastern narrowleaf sedge	SE
<i>Carex annectens</i>	yellowfruit sedge	WP(S)
<i>Carex argyrantha</i>	hay sedge	
<i>Carex atlantica ssp. atlantica</i>	prickly bog sedge	WP(S)
<i>Carex atlantica ssp. capillacea</i>	prickly bog sedge	WP(S)
<i>Carex atlantica</i>	prickly bog sedge	
<i>Carex barrattii</i>	Barratt's sedge	S(NH)
<i>Carex brevior</i>	shortbeak sedge	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Carex bullata</i>	button sedge	WP(S)
<i>Carex canescens</i>	silvery sedge	
<i>Carex caroliniana</i>	Carolina sedge	
<i>Carex cephalophora</i>	oval-leaf sedge	
<i>Carex collinsii</i>	Collins' sedge	WP(S)
<i>Carex comosa</i>	longhair sedge	
<i>Carex complanata</i>	hirsute sedge	
<i>Carex crinita</i>	fringed sedge	WP(S)
<i>Carex debilis</i>	white edge sedge	
<i>Carex digitalis</i>	slender woodland sedge	
<i>Carex festucacea</i>	fescue sedge	
<i>Carex folliculata</i>	northern long sedge	WP(S)
<i>Carex frankii</i>	Frank's sedge	S(NH)
<i>Carex glaucoidea</i>	blue sedge	
<i>Carex granularis</i>	limestone meadow sedge	
<i>Carex hirsutella</i>	fuzzy wuzzy sedge	
<i>Carex hormathodes</i>	marsh straw sedge	
<i>Carex hyalinolepis</i>	shoreline sedge	HNS
<i>Carex hystericina</i>	bottlebrush sedge	
<i>Carex interior</i>	inland sedge	
<i>Carex intumescens</i>	greater bladder sedge	WP(S)
<i>Carex lacustris</i>	hairy sedge	WP(S)
<i>Carex laevivaginata</i>	smoothsheath sedge	
<i>Carex lasiocarpa</i>	woollyfruit sedge	
<i>Carex laxiculmis</i>	spreading sedge	
<i>Carex laxiflora</i>	broad looseflower sedge	
<i>Carex lupuliformis</i>	false hop sedge, hop-like sedge	SE
<i>Carex lupulina</i>	hop sedge	
<i>Carex lurida</i>	shallow sedge	WP(S)
<i>Carex nigromarginata</i>	black edge sedge	
<i>Carex pennsylvanica</i>	Pennsylvania sedge	
<i>Carex prasina</i>	drooping sedge	
<i>Carex rosea</i>	rosy sedge	
<i>Carex scoparia</i>	broom sedge	
<i>Carex seorsa</i>	weak stellate sedge	WP(S)
<i>Carex silicea</i>	beach sedge	
<i>Carex sparganioides</i>	burr reed sedge	
<i>Carex squarrosa</i>	squarrose sedge	
<i>Carex stipata</i>	owlfruit sedge	
<i>Carex straminea</i>	eastern straw sedge	
<i>Carex stricta</i>	upright sedge	
<i>Carex styloflexa</i>	bent sedge	
<i>Carex swanii</i>	Swan's sedge	WP(S)
<i>Carex tenera</i>	quill sedge	
<i>Carex tetanica</i>	rigid sedge	
<i>Carex tribuloides</i>	blunt broom sedge	
<i>Carex typhina</i>	cattail sedge	S(NH)
<i>Carex umbellata</i>	parasol sedge	
<i>Carex utriculata</i>	Northwest Territory sedge	WP(NH)
<i>Carex venusta</i> var. <i>minor</i>	darkgreen sedge	WP(S)
<i>Carex venusta</i>	darkgreen sedge	
<i>Carex vestita</i>	velvet sedge	
<i>Carex vulpinoidea</i>	fox sedge	WP(S)
<i>Carpinus caroliniana</i>	American hornbeam	WP(S)
<i>Carya alba</i>	Mockernut hickory	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Carya glabra</i>	pignut hickory	
<i>Carya ovata</i>	shagbark hickory	
<i>Carya pallida</i>	sand hickory	
<i>Castanea dentata</i>	American chestnut	
<i>Castanea pumila</i>	chinkapin	S(NH), SE
<i>Catalpa speciosa</i>	Northern catalpa	NUS
<i>Ceanothus americanus</i>	New Jersey tea	WP(S)
<i>Celastrus orbiculata</i>	Asian bittersweet	NEX
<i>Celtis occidentalis</i>	common hackberry	
<i>Celtis tenuifolia</i>	dwarf hackberry	
<i>Cenchrus longispinus</i>	mat sandbur	
<i>Cenchrus tribuloides</i>	sanddune sandbur	
<i>Centaurea nigrescens</i>	Tyrol knapweed	
<i>Ceratophyllum demersum</i>	coon's tail	
<i>Cercis canadensis</i>	eastern redbud	SE
<i>Chaerophyllum procumbens</i>	spreading chervil	
<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i>	sleepingplant	
<i>Chamaedaphne calyculata</i>	leatherleaf	
<i>Chamaelirium luteum</i>	fairywand	
<i>Chamaesyce polygonifolia</i>	seaside sandmat	
<i>Chasmanthium laxum</i>	slender woodoats	
<i>Chelidonium majus</i>	celandine	NEX
<i>Chelone glabra</i>	white turtlehead	
<i>Chenopodium ambrosioides</i>	Mexican tea	NEX
<i>Chimaphila maculata</i>	striped prince's pine	WP(S)
<i>Chimaphila umbellata</i>	pipsissewa	
<i>Chionanthus virginicus</i>	white fringetree	
<i>Chrysopsis mariana</i>	Maryland goldenaster	
<i>Chrysosplenium americanum</i>	American golden saxifrage	
<i>Cimicifuga racemosa</i>	black bugbane	
<i>Cinna arundinacea</i>	sweet woodreed	
<i>Circaea lutetiana</i> ssp. <i>canadensis</i>	broadleaf enchanter's nightshade	
<i>Cirsium arvense</i>	Canada thistle	NEX
<i>Cirsium discolor</i>	field thistle	
<i>Cirsium horridulum</i> var. <i>horridulum</i>	yellow thistle	
<i>Cirsium muticum</i>	swamp thistle	WP(S)
<i>Cirsium vulgare</i>	bull thistle	NEX
<i>Claytonia virginica</i> var. <i>virginica</i>	Virginia springbeauty	
<i>Clematis terniflora</i>	sweet autumn virginsbower	NEX
<i>Clematis virginiana</i>	devil's darning needles	
<i>Clethra alnifolia</i>	coastal sweetpepperbush	
<i>Comandra umbellata</i>	bastard toadflax	
<i>Commelina communis</i> var. <i>communis</i>	Asiatic dayflower	NEX
<i>Commelina diffusa</i>	climbing dayflower	
<i>Comptonia peregrina</i>	sweet fern	
<i>Conoclinium coelestinum</i>	blue mistflower	
<i>Coreopsis rosea</i>	pink tickseed	S(NH)
<i>Cornus alternifolia</i>	alternatleaf dogwood	WP(S)
<i>Cornus amomum</i>	silky dogwood	
<i>Cornus florida</i>	flowering dogwood	
<i>Cornus racemosa</i>	gray dogwood	
<i>Corylus americana</i>	American hazelnut	WP(S)
<i>Crataegus crus-galli</i>	cockspur hawthorn	
<i>Crataegus intricata</i>	Copenhagen hawthorn	
<i>Crataegus monogyna</i>	oneseed hawthorn	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Crataegus phaenopyrum</i>	Washington hawthorn	
<i>Crataegus pruinosa</i>	waxyfruit hawthorn	
<i>Crataegus uniflora</i>	dwarf hawthorn	
<i>Crotalaria sagittalis</i>	arrowhead rattlebox	
<i>Croton willdenowii</i>	Willdenow's croton	
<i>Cryptotaenia canadensis</i>	Canadian honewort	
<i>Cunila origanoides</i>	common dittany	
<i>Cuscuta cephalanthi</i>	buttonbush dodder	SE
<i>Cuscuta compacta</i>	compact dodder	WP(S)
<i>Cuscuta coryli</i>	hazel dodder	S(NH)
<i>Cuscuta gronovii</i>	scaldweed	
<i>Cuscuta pentagona</i> var. <i>pentagona</i>	fiveangled dodder	
<i>Cuscuta polygonorum</i>	smartweed dodder	S(NH)
<i>Cynodon dactylon</i>	Bermudagrass	NEX
<i>Cyperus bipartitus</i>	slender flatsedge	
<i>Cyperus dentatus</i>	toothed flatsedge	
<i>Cyperus diandrus</i>	umbrella flatsedge	
<i>Cyperus erythrorhizos</i>	redroot flatsedge	
<i>Cyperus esculentus</i>	chufa flatsedge	
<i>Cyperus filicinus</i>	fern flatsedge	
<i>Cyperus flavescens</i>	yellow flatsedge	
<i>Cyperus grayi</i>	Gray's flatsedge	
<i>Cyperus lancastricensis</i>	manyflower/Lancaster flatsedge	SE
<i>Cyperus odoratus</i>	fragrant flatsedge	S(NH)
<i>Cyperus polystachyos</i>	manyspike/coast flatsedge	S(NH), SE
<i>Cyperus pseudovegetus</i>	marsh flatsedge	S(NH), SE
<i>Cyperus refractus</i>	reflexed flatsedge	SE
<i>Cyperus retrofractus</i>	rough flatsedge	SE
<i>Cyperus strigosus</i>	strawcolored flatsedge	
<i>Cypripedium acaule</i>	moccasin flower, pink lady's slipper	
<i>Cytisus scoparius</i>	scotchbroom	NEX
<i>Danthonia compressa</i>	flattened oatgrass	
<i>Danthonia spicata</i>	poverty oatgrass	
<i>Decodon verticillatus</i>	swamp loosestrife	
<i>Dennstaedtia punctilobula</i>	eastern hayscented fern	WP(S), WP(M)
<i>Deschampsia flexuosa</i>	wavy hairgrass	
<i>Desmodium canescens</i>	hoary ticktrefoil	
<i>Desmodium laevigatum</i>	smooth ticktrefoil	
<i>Desmodium obtusum</i>	stiff ticktrefoil	
<i>Desmodium ochroleucum</i>	cream ticktrefoil	S(NH)
<i>Desmodium paniculatum</i> var. <i>paniculatum</i>	panicledleaf ticktrefoil	
<i>Desmodium viridiflorum</i>	velvetleaf ticktrefoil	WP(S)
<i>Dianthus armeria</i>	Deptford pink	NEX
<i>Dicentra cucullaria</i>	dutchman's breeches	WP(S)
<i>Dichanthelium acuminatum</i> var. <i>fasciculatum</i>	western panicgrass	WP(S)
<i>Dichanthelium acuminatum</i> var. <i>lindheimeri</i>	Lindheimer panicgrass	WP(S)
<i>Dichanthelium boscii</i>	Bosc's panicgrass	
<i>Dichanthelium clandestinum</i>	deertongue	WP(S)
<i>Dichanthelium depauperatum</i>	starved panicgrass	
<i>Dichanthelium dichotomum</i> var. <i>dichotomum</i>	cypress panicgrass	WP(S)
<i>Dichanthelium dichotomum</i>	cypress panicgrass	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Dichanthelium ovale</i> var. <i>addisonii</i>	Addison's rosette grass	
<i>Dichanthelium scoparium</i>	velvet panicum	
<i>Dichanthelium sphaerocarpon</i> var. <i>isophyllum</i>	roundseed panicgrass	WP(S)
<i>Dichanthelium spretum</i>	Eaton's rosette grass	
<i>Dichanthelium villosissimum</i> var. <i>villosissimum</i>	whitehair rosette grass	
<i>Dichanthelium wrightianum</i>	Wright's rosette grass	
<i>Digitaria filiformis</i>	slender crabgrass	
<i>Digitaria ischaemum</i>	smooth crabgrass	
<i>Dioscorea quaternata</i>	fourleaf yam	WP(S)
<i>Dioscorea villosa</i>	wild yam	
<i>Diospyros virginiana</i>	common persimmon	WP(S)
<i>Dipsacus fullonum</i>	Fuller's teasel	NEX
<i>Dirca palustris</i>	eastern leatherwood	WP(S), S(NH)
<i>Doellingeria infirma</i>	cornel-leaf whitetop	
<i>Draba verna</i>	spring draba	
<i>Drosera intermedia</i>	spoonleaf sundew	
<i>Dryopteris campyloptera</i>	mountain woodfern	
<i>Dryopteris carthusiana</i>	spinulose woodfern	WP(M)
<i>Dryopteris carthusiana x intermedia</i>		WP(M)
<i>Dryopteris cristata</i>	crested woodfern	WP(M)
<i>Dryopteris intermedia</i>	intermediate woodfern	WP(S), WP(M)
<i>Dryopteris marginalis</i>	marginal woodfern	WP(M)
<i>Dryopteris Hseparabilis</i>		
<i>Dryopteris Htriploidea</i>		
<i>Dulichium arundinaceum</i>	threeway sedge	WP(S)
<i>Echinochloa crus-galli</i>	barnyardgrass	
<i>Echinochloa muricata</i> var. <i>muricata</i>	rough barnyardgrass	
<i>Echinochloa walteri</i>	coast cockspur grass	
<i>Eclipta prostrata</i>	false daisy	
<i>Elaeagnus umbellata</i> var. <i>parvifolia</i>	autumn olive	NEX
<i>Elatine americana</i>	American waterwort	
<i>Eleocharis acicularis</i> var. <i>acicularis</i>	needle spikerush	
<i>Eleocharis acicularis</i>	needle spikerush	
<i>Eleocharis erythropoda</i>	bald spikerush	
<i>Eleocharis fallax</i>	creeping spikerush	
<i>Eleocharis flavescens</i> var. <i>flavescens</i>	yellow spikerush	
<i>Eleocharis melanocarpa</i>	blackfruit spikerush	S(NH), SE
<i>Eleocharis olivacea</i>	bright green spikerush	
<i>Eleocharis palustris</i>	common spikerush	
<i>Eleocharis parvula</i>	dwarf spikerush	
<i>Eleocharis quadrangulata</i>	squarestem spikerush	
<i>Eleocharis tenuis</i> var. <i>verrucosa</i>	slender spikerush, warty spikerush	SE
<i>Eleocharis tortilis</i>	twisted spikerush	SE
<i>Eleocharis tricostata</i>	three-angle spikerush	
<i>Elephantopus carolinianus</i>	Carolina elephantsfoot	S(NH), SE
<i>Eleusine indica</i>	Indian goosegrass	
<i>Elodea nuttallii</i>	western waterweed	
<i>Elymus canadensis</i>	Canada wildrye	
<i>Elymus repens</i>	quackgrass	NEX
<i>Epigaea repens</i>	trailing arbutus	
<i>Epilobium coloratum</i>	purpleleaf willowherb	
<i>Equisetum arvense</i>	field horsetail	WP(M)
<i>Equisetum Hferrissii</i>		

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Equisetum fluviatile</i>	water horsetail	
<i>Equisetum hyemale</i> var. <i>affine</i>	scouringrush horsetail	WP(S)
<i>Equisetum hyemale</i>	scouringrush horsetail	WP(M)
<i>Eragrostis capillaris</i>	lace grass	
<i>Eragrostis cilianensis</i>	stinkgrass	
<i>Eragrostis hypnoides</i>	teal lovegrass	
<i>Eragrostis pilosa</i>	Indian lovegrass	
<i>Erigeron strigosus</i> var. <i>beyrichii</i>	Beyrich's fleabane	
<i>Eriocaulon compressum</i>	flattened pipewort	
<i>Erodium cicutarium</i>	redstem stork's bill	
<i>Erythronium americanum</i>	dogtooth violet, trout lily	
<i>Euonymus americana</i>	strawberry bush	WP(S)
<i>Euonymus atropurpurea</i> var. <i>atropurpurea</i>	eastern wahoo	
<i>Euonymus atropurpurea</i>	eastern wahoo	
<i>Eupatorium dubium</i>	coastalplain joepyeweed	
<i>Eupatorium hyssopifolium</i>	hyssopleaf thoroughwort	
<i>Eupatorium leucolepis</i> var. <i>leucolepis</i>	justiceweed	
<i>Eupatorium maculatum</i> var. <i>maculatum</i>	spotted joepyeweed	
<i>Eupatorium perfoliatum</i>	common boneset	
<i>Eupatorium purpureum</i>	sweetscented joepyeweed	
<i>Eupatorium rotundifolium</i>	roundleaf thoroughwort	
<i>Eupatorium serotinum</i>	lateflowering thoroughwort	
<i>Euphorbia corollata</i>	flowering spurge	
<i>Euphorbia cyparissias</i>	cypress spurge	NEX
<i>Euphorbia ipecacuanhae</i>	American ipecac	WP(S)
<i>Euphorbia purpurea</i>	Darlington's glade spurge	WP(S), WP(NH), SE
<i>Eurybia radula</i>	low rough aster	S(NH), SE
<i>Eurybia spectabilis</i>	western showy aster	
<i>Euthamia graminifolia</i> var. <i>graminifolia</i>	flat-top goldentop	
<i>Euthamia graminifolia</i>	flat-top goldentop	
<i>Fagus grandifolia</i>	American beech	
<i>Festuca subverticillata</i>	nodding fescue	
<i>Fimbristylis autumnalis</i>	slender fimbry	
<i>Fimbristylis caroliniana</i>	Carolina fimbry	
<i>Fragaria virginiana</i>	Wild strawberry	
<i>Fraxinus americana</i>	white ash	WP(S)
<i>Fraxinus pennsylvanica</i>	green ash	
<i>Froelichia gracilis</i>	slender snakecotton	NUS
<i>Fumaria officinalis</i> ssp. <i>officinalis</i>	drug fumitory	
<i>Galactia regularis</i>	eastern milkpea	
<i>Galactia volubilis</i>	downy milkpea	SE
<i>Galearis spectabilis</i>	showy orchid	WP(S)
<i>Galium aparine</i>	stickywilly	
<i>Galium asprellum</i>	rough bedstraw	WP(S)
<i>Galium circaezans</i> var. <i>circaezans</i>	licorice bedstraw	
<i>Galium tinctorium</i>	stiff marsh bedstraw	WP(S)
<i>Galium trifidum</i>	threepetal/small bedstraw	SE
<i>Galium triflorum</i>	fragrant bedstraw	
<i>Galium verum</i>	Yellow Spring bedstraw	NEX
<i>Gamochaeta purpurea</i>	spoonleaf purple everlasting	
<i>Gaura biennis</i>	biennial beeblossom	
<i>Gaylussacia baccata</i>	black huckleberry	
<i>Gentiana saponaria</i>	harvestbells	
<i>Geranium carolinianum</i>	Carolina geranium	
<i>Geranium maculatum</i>	spotted geranium	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Geum virginianum</i>	cream avens	
<i>Glechoma hederacea</i>	ground ivy	NEX
<i>Gleditsia triacanthos</i>	honeylocust	
<i>Glyceria acutiflora</i>	creeping mannagrass	
<i>Glyceria canadensis</i>	rattlesnake mannagrass	
<i>Glyceria obtusa</i>	Atlantic mannagrass	
<i>Glyceria septentrionalis</i>	floating mannagrass	
<i>Glyceria striata</i>	fowl mannagrass	WP(S)
<i>Gratiola neglecta</i>	clammy hedgehyssop	
<i>Gratiola virginiana</i>	roundfruit hedgehyssop	
<i>Gymnopogon ambiguus</i>	bearded skeletongrass	
<i>Hamamelis virginiana</i>	American witchhazel	
<i>Helenium autumnale</i>	common sneezeweed	
<i>Helenium flexuosum</i>	purplehead sneezeweed	
<i>Helianthemum bicknellii</i>	oary frostweed	
<i>Helianthus angustifolius</i>	swamp sunflower	
<i>Helianthus decapetalus</i>	thinleaf sunflower	WP(S)
<i>Helianthus giganteus</i>	giant sunflower	
<i>Helianthus Hlaetiflorus</i>	cheerful sunflower	
<i>Helianthus strumosus</i>	paleleaf woodland sunflower	
<i>Helonias bullata</i>	swamppink	WP(S), S(NH), SE, FE
<i>Hemerocallis fulva</i>	orange daylily	NEX
<i>Hepatica nobilis var. obtusa</i>	roundlobe hepatica	
<i>Heteranthera multiflora</i>	bouquet mudplantain	S(NH)
<i>Heteranthera reniformis</i>	kidneyleaf mudplantain	
<i>Heuchera americana</i>	American alumroot	WP(S)
<i>Hibiscus moscheutos ssp. moscheutos</i>	crimson-eyed rosemallow	
<i>Hibiscus moscheutos</i>	crimson-eyed rosemallow	
<i>Hibiscus syriacus</i>	rose of Sharon	NEX
<i>Hieracium caespitosum</i>	meadow hawkweed	
<i>Hieracium gronovii</i>	queendevil	
<i>Hieracium piloselloides</i>	tall hawkweed	
<i>Hieracium venosum</i>	rattlesnakeweed	
<i>Holcus lanatus</i>	common velvetgrass	NEX
<i>Holosteum umbellatum</i>	jagged chickweed	
<i>Hottonia inflata</i>	American featherfoil	S(NH), SE
<i>Houstonia caerulea</i>	azure bluet	
<i>Huperzia lucidula</i>	Shining clubmoss	WP(S), WP(M)
<i>Humulus lupulus var. lupulus</i>	common hop	WP(S)
<i>Hydrocotyle ranunculoides</i>	floating marshpennywort	S(NH), SE
<i>Hydrocotyle umbellata</i>	manyflower marshpennywort	
<i>Hydrophyllum virginianum</i>	Shawnee salad	
<i>Hylotelephium telephium ssp. telephium</i>	witch's moneybags	
<i>Hypericum adpressum</i>	creeping/Bartons St. Johnswort	S(NH), SE
<i>Hypericum boreale</i>	northern St. Johnswort	
<i>Hypericum canadense</i>	lesser Canadian St. Johnswort	
<i>Hypericum denticulatum</i>	coppery St. Johnswort	
<i>Hypericum gymnanthum</i>	claspingleaf St. Johnswort	
<i>Hypericum hypericoides ssp. hypericoides</i>	St. Andrew's cross	
<i>Hypericum mutilum</i>	dwarf St. Johnswort	
<i>Hypericum perforatum</i>	common St. Johnswort	
<i>Hypericum punctatum</i>	spotted St. Johnswort	
<i>Ilex glabra</i>	inkberry	
<i>Ilex laevigata</i>	smooth winterberry	
<i>Ilex opaca</i>	American holly	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Ilex verticillata</i>	common winterberry	WP(S)
<i>Impatiens capensis</i>	jewelweed	
<i>Ipomoea coccinea</i>	redstar	
<i>Ipomoea hederacea</i>	ivy-leaf morning-glory	NEX
<i>Ipomoea pandurata</i>	man of the earth	
<i>Iris pseudacorus</i>	paleyellow iris	NEX
<i>Isoetes engelmannii</i>	Appalachian quillwort	
<i>Isoetes riparia</i>	shore quillwort	
<i>Isoetes tenella</i>	spiny-spore quillwort	
<i>Isotria verticillata</i>	purple fiveleaf orchid	WP(S)
<i>Itea virginica</i>	Virginia sweetspire	
<i>Juncus acuminatus</i>	tapertip rush	
<i>Juncus debilis</i>	weak rush	
<i>Juncus dichotomus</i>	forked rush	WP(S)
<i>Juncus effusus</i> var. <i>solutus</i>	lamp rush	WP(S)
<i>Juncus effusus</i>	common rush	
<i>Juncus scirpoides</i>	needlepod rush	
<i>Juncus secundus</i>	lopsided rush	
<i>Juncus subcaudatus</i>	woodland rush	
<i>Juncus tenuis</i>	poverty rush	WP(S)
<i>Juniperus virginiana</i>	eastern redcedar	WP(S)
<i>Kalmia latifolia</i>	mountain laurel	
<i>Kosteletzkya virginica</i>	Virginia saltmarsh mallow	
<i>Krigia virginica</i>	Virginia dwarf dandelion	
<i>Kyllinga brevifolia</i>	shortleaf spikesedge	
<i>Lactuca biennis</i>	tall blue lettuce	
<i>Lactuca canadensis</i>	Canada lettuce	
<i>Lamium amplexicaule</i>	henbit deadnettle	NEX
<i>Lamium purpureum</i>	purple deadnettle	NEX
<i>Laportea canadensis</i>	Canadian woodnettle	
<i>Lathyrus japonicus</i> var. <i>maritimus</i>	beach pea	
<i>Lathyrus japonicus</i> var. <i>pellitus</i>	beach pea	
<i>Lathyrus palustris</i>	marsh pea	
<i>Leersia oryzoides</i>	rice cutgrass	
<i>Leersia virginica</i>	whitegrass	WP(S)
<i>Lemna perpusilla</i>	minute duckweed	S(NH), SE
<i>Leontodon taraxacoides</i> ssp. <i>taraxacoides</i>	lesser hawkbit	
<i>Lepidium campestre</i>	field pepperweed	
<i>Lepidium virginicum</i>	Virginia pepperweed	
<i>Leptochloa fusca</i> ssp. <i>fascicularis</i>	bearded sprangletop	
<i>Lespedeza violacea</i>	violet lespedeza	
<i>Leucothoe racemosa</i>	swamp doghobble	
<i>Liatris pilosa</i> var. <i>pilosa</i>	shaggy blazing star	
<i>Ligustrum vulgare</i>	European privet	NEX
<i>Lindera benzoin</i> var. <i>benzoin</i>	northern spicebush	WP(S)
<i>Lindera benzoin</i> var. <i>pubescens</i>	northern spicebush	
<i>Lindera benzoin</i>	northern spicebush	
<i>Lindernia dubia</i> var. <i>anagallidea</i>	yellowseed false pimpernel	
<i>Lindernia dubia</i>	yellowseed false pimpernel	
<i>Linum intercursum</i>	sandplain flax	S(NH), SE
<i>Linum medium</i>	stiff yellow flax	WP(S)
<i>Liparis liliifolia</i>	brown widelip orchid	
<i>Liparis loeselii</i>	yellow widelip orchid	
<i>Liquidambar styraciflua</i>	sweetgum	WP(S)
<i>Liriodendron tulipifera</i>	tuliptree, yellow poplar	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Lobelia cardinalis</i>	cardinalflower	
<i>Lobelia inflata</i>	Indian-tobacco	
<i>Lobelia puberula</i>	downy lobelia	WP(S)
<i>Lolium perenne</i> ssp. <i>perenne</i>	perennial ryegrass	
<i>Lolium pratense</i>	meadow ryegrass	NEX
<i>Lonicera japonica</i>	Japanese honeysuckle	NEX
<i>Lonicera sempervirens</i>	trumpet honeysuckle	
<i>Ludwigia alternifolia</i>	seedbox	
<i>Ludwigia hirtella</i>	spindleroot	
<i>Ludwigia palustris</i>	marsh seedbox	
<i>Ludwigia peploides</i> ssp. <i>glabrescens</i>	floating primrose-willow	
<i>Ludwigia sphaerocarpa</i>	globefruit primrose-willow	
<i>Luzula acuminata</i>	hairy woodrush	S(NH), SE
<i>Luzula bulbosa</i>	bulbous woodrush	
<i>Luzula echinata</i>	hedgehog woodrush	
<i>Luzula multiflora</i> ssp. <i>multiflora</i> var. <i>multiflora</i>	common woodrush	
<i>Lycopodiella alopecuroides</i>	foxtail clubmoss	WP(M)
<i>Lycopodiella Hcopelandii</i>		WP(M)
<i>Lycopodiella inundata</i>	inundated clubmoss	
<i>Lycopodium clavatum</i>	running clubmoss	WP(M)
<i>Lycopodium dendroideum</i>	tree groundpine	
<i>Lycopodium digitatum</i>	fan clubmoss	WP(M)
<i>Lycopodium Hhabereri</i>		
<i>Lycopodium hickeyi</i>	Pennsylvania clubmoss	
<i>Lycopodium obscurum</i>	rare clubmoss	WP(S), WP(M)
<i>Lycopodium tristachyum</i>	deeproot clubmoss	
<i>Lycopus americanus</i>	American water horehound	
<i>Lycopus amplexens</i>	clasping water horehound	
<i>Lycopus europaeus</i>	gypsywort	
<i>Lycopus rubellus</i>	taperleaf water horehound	
<i>Lycopus uniflorus</i>	northern bugleweed	
<i>Lycopus virginicus</i>	Virginia water horehound	
<i>Lygodium palmatum</i>	American climbing fern	
<i>Lyonia ligustrina</i> var. <i>ligustrina</i>	maleberry	WP(S)
<i>Lyonia ligustrina</i>	maleberry	
<i>Lysimachia ciliata</i>	fringed loosestrife	
<i>Lysimachia hybrida</i>	lowland yellow loosestrife	
<i>Lysimachia quadrifolia</i>	whorled yellow loosestrife	WP(S)
<i>Lysimachia terrestris</i>	earth loosestrife	
<i>Lythrum salicaria</i>	purple loosestrife	NEX
<i>Maclura pomifera</i>	osage orange	NUS
<i>Magnolia virginiana</i>	sweetbay	
<i>Maianthemum canadense</i>	Canada mayflower	WP(S)
<i>Maianthemum racemosum</i> ssp. <i>racemosum</i>	feathery false lily of the vally false solomons seal	WP(S)
<i>Maianthemum stellatum</i>	starry false lily of the vally	
<i>Marrubium vulgare</i>	horehound	
<i>Medeola virginiana</i>	Indian cucumber	WP(S)
<i>Melampyrum lineare</i> var. <i>latifolium</i>	narrowleaf cowwheat	
<i>Melanthium virginicum</i>	Virginia bunchflower	S(NH), SE
<i>Melilotus officinalis</i>	yellow sweetclover	NEX
<i>Melissa officinalis</i>	common balm	
<i>Menispermum canadense</i>	common moonseed	WP(S)
<i>Mentha arvensis</i>	wild mint	WP(S)

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Mentha spicata</i>	spearmint	
<i>Mikania scandens</i>	climbing hempvine	
<i>Mimulus alatus</i>	sharpwing monkeyflower	WP(S)
<i>Miscanthus sinensis</i>	Chinese silvergrass	NEX
<i>Mitchella repens</i>	partridgeberry	WP(S)
<i>Monotropa hypopithys</i>	pinenap	
<i>Monotropa uniflora</i>	Indianpipe	WP(S)
<i>Morella caroliniensis</i>	southern bayberry	
<i>Morella pensylvanica</i>	northern bayberry	
<i>Morus alba</i>	white mulberry	NEX
<i>Muhlenbergia mexicana</i>	Mexican muhly	
<i>Muhlenbergia schreberi</i>	nimblewill	
<i>Myosotis arvensis</i>	field forget-me-not	
<i>Myosotis laxa</i>	bay forget-me-not	
<i>Myosotis verna</i>	spring forget-me-not	
<i>Myriophyllum humile</i>	low watermilfoil	
<i>Myriophyllum pinnatum</i>	cutleaf watermilfoil	S(NH), SE
<i>Najas flexilis</i>	nodding waternymph	
<i>Najas gracillima</i>	slender waternymph	
<i>Nelumbo lutea</i>	American lotus	WP(S), WP(NH), SE
<i>Nelumbo nucifera</i>	sacred lotus	
<i>Nuphar lutea ssp. advena</i>	yellow pond-lily	
<i>Nuphar lutea ssp. pumila</i>	yellow pond-lily	SE
<i>Nuphar lutea ssp. rubrodisca</i>	yellow pond-lily	
<i>Nuttallanthus canadensis</i>	Canada toadflax	
<i>Nymphaea odorata ssp. odorata</i>	American white waterlily	WP(S)
<i>Nymphaea odorata</i>	American white waterlily	
<i>Nymphoides cordata</i>	little floatingheart	S(NH)
<i>Nymphoides peltata</i>	yellow floatingheart	
<i>Nyssa sylvatica</i>	tupelo, blackgum	
<i>Obolaria virginica</i>	Virginia pennywort	
<i>oenothera biennis</i>	common evening-primrose	
<i>Oenothera fruticosa ssp. fruticosa</i>	narrowleaf evening-primrose	
<i>Oenothera fruticosa</i>	narrowleaf evening-primrose	
<i>Oldenlandia uniflora</i>	clustered mille grains	
<i>Onoclea sensibilis</i>	sensitive fern	WP(M)
<i>Onosmodium virginianum</i>	wild Job's tears	S(NH), SE
<i>Ophioglossum pusillum</i>	northern adderstongue	WP(M)
<i>Ophioglossum vulgatum</i>	southern adderstongue	WP(S), WP(M)
<i>Opuntia humifusa</i>	Devil's tongue cactus,	
	eastern prickly pear	
<i>Ornithogalum umbellatum</i>	sleepydick	NEX
<i>Orontium aquaticum</i>	goldenclub	
<i>Osmunda cinnamomea</i>	cinnamon fern	WP(M)
<i>Osmunda claytoniana</i>	interrupted fern	WP(M)
<i>Osmunda regalis var. spectabilis</i>	royal fern	WP(M)
<i>Osmunda regalis</i>	royal fern	
<i>Oxalis stricta</i>	common yellow oxalis	
<i>Panax trifolius</i>	dwarf ginseng	
<i>Panicum amarum</i>	bitter panicgrass	
<i>Panicum anceps</i>	beaked panicgrass	WP(S)
<i>Panicum dichotomiflorum</i>	fall panicgrass	
<i>Panicum philadelphicum</i>	Philadelphia panicgrass	WP(S)
<i>Panicum rigidulum var. elongatum</i>	redtop panicgrass	
<i>Panicum rigidulum var. pubescens</i>	redtop panicgrass	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Panicum rigidulum</i> var. <i>rigidulum</i>	redtop panicgrass	
<i>Panicum rigidulum</i>	redtop panicgrass	
<i>Panicum verrucosum</i>	warty panicgrass	
<i>Panicum virgatum</i> var. <i>virgatum</i>	switchgrass	
<i>Panicum virgatum</i>	switchgrass	
<i>Parthenocissus quinquefolia</i>	Virginia creeper	
<i>Paspalum dissectum</i>	mudbank crowngrass	
<i>Paspalum laeve</i>	field paspalum	
<i>Paspalum setaceum</i>	thin paspalum	
<i>Paulownia tomentosa</i>	princesstree	NEX
<i>Pedicularis lanceolata</i>	swamp lousewort	WP(S)
<i>Peltandra virginica</i>	green arrow arum	
<i>Phalaris arundinacea</i>	reed canarygrass	NUS
<i>Phaseolus polystachios</i> var. <i>polystachios</i>	wild kidney bean	WP(NH)
<i>Phegopteris hexagonoptera</i>	broad beechfern	WP(M)
<i>Phleum pratense</i>	timothy	NEX
<i>Phlox maculata</i> ssp. <i>maculata</i>	Spotted phlox	WP(NH)
<i>Phlox maculata</i>	wild sweetwilliam	
<i>Phlox paniculata</i>	fall phlox	
<i>Phoradendron leucarpum</i>	oak mistletoe	WP(S)
<i>Photinia floribunda</i>	purple chokeberry	
<i>Photinia melanocarpa</i>	black chokeberry	
<i>Phragmites australis</i>	common reed	NUS
<i>Phyllostachys aurea</i>	golden bamboo	NEX
<i>Phyllostachys viridiglaucescens</i>	greenwax bamboo	NEX
<i>Physalis heterophylla</i>	clammy groundcherry	
<i>Physalis longifolia</i> var. <i>subglabrata</i>	longleaf groundcherry	
<i>Phytolacca americana</i>	American pokeweed	
<i>Pilea pumila</i>	Canadian clearweed	
<i>Pinus echinata</i>	shortleaf pine	
<i>Pinus serotina</i>	pond pine	
<i>Pinus strobus</i>	eastern white pine	
<i>Pinus taeda</i>	loblolly pine	S(NH)
<i>Pinus virginiana</i>	Virginia pine	
<i>Plantago aristata</i>	largebracted plantain	
<i>Plantago lanceolata</i>	English plantain	NEX
<i>Plantago major</i>	common plantain	NUS
<i>Plantago virginica</i>	Virginia plantain	
<i>Platanthera ciliaris</i>	yellow fringed orchid	
<i>Platanthera flava</i> var. <i>herbiola</i>	palegreen orchid	S(NH)
<i>Platanthera flava</i>	palegreen orchid	
<i>Platanthera lacera</i>	green fringed orchid	
<i>Pluchea odorata</i> var. <i>succulenta</i>	sweetscent	
<i>Poa annua</i>	annual bluegrass	
<i>Poa trivialis</i>	rough bluegrass	NEX
<i>Podophyllum peltatum</i>	mayapple	WP(S)
<i>Pogonia ophioglossoides</i>	snakemouth orchid	
<i>Polemonium reptans</i>	Greek valerian	WP(S), WP(NH), SE
<i>Polygala incarnata</i>	procession flower	SE
<i>Polygala lutea</i>	orange milkwort	
<i>Polygala mariana</i>	Maryland milkwort	S(NH)
<i>Polygala polygama</i>	racemed milkwort	
<i>Polygala sanguinea</i>	purple milkwort	WP(S)
<i>Polygonatum biflorum</i> var. <i>commutatum</i>	smooth Solomon's seal	WP(S)
<i>Polygonella articulata</i>	coastal jointweed	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Polygonum arifolium</i>	halberdleaf tearthumb	
<i>Polygonum aviculare</i>	prostrate knotweed	
<i>Polygonum careyi</i>	Carey's smartweed	
<i>Polygonum convolvulus</i>	black bindweed	
<i>Polygonum cuspidatum</i>	Japanese knotweed	NEX
<i>Polygonum erectum</i>	erect knotweed	
<i>Polygonum hydropiperoides</i>	swamp smartweed	WP(S)
<i>Polygonum lapathifolium</i>	curlytop knotweed	
<i>Polygonum orientale</i>	kiss me over the garden gate	NEX
<i>Polygonum pennsylvanicum</i>	Pennsylvania smartweed	
<i>Polygonum perfoliatum</i>	Asiatic tearthumb	NEX
<i>Polygonum persicaria</i>	spotted ladythumb	NEX
<i>Polygonum punctatum</i>	dotted smartweed	
<i>Polygonum ramosissimum</i>	bushy knotweed	
<i>Polygonum robustius</i>	stout smartweed	
<i>Polygonum sagittatum</i>	arrowleaf tearthumb	
<i>Polygonum scandens</i> var. <i>scandens</i>	climbing false buckwheat	
<i>Polygonum setaceum</i>	bog smartweed	WP(NH)
<i>Polypodium virginianum</i>	rock polypody	WP(S)
<i>Polystichum acrostichoides</i> var. <i>acrostichoides</i>	Christmas fern	
<i>Polystichum acrostichoides</i>	Christmas fern	WP(M)
<i>Pontederia cordata</i>	pickerelweed	
<i>Populus alba</i>	white poplar	NEX
<i>Populus grandidentata</i>	bigtooth aspen	WP(S)
<i>Populus heterophylla</i>	swamp cottonwood	
<i>Populus nigra</i>	Lombardy poplar	
<i>Potamogeton crispus</i>	curly pondweed	NEX
<i>Potamogeton epihydrus</i>	ribbonleaf pondweed	
<i>Potamogeton foliosus</i>	leafy pondweed	
<i>Potamogeton nodosus</i>	longleaf pondweed	
<i>Potamogeton pulcher</i>	spotted pondweed	
<i>Potamogeton pusillus</i> ssp. <i>pusillus</i>	small pondweed	WP(S)
<i>Potamogeton pusillus</i>	small pondweed	
<i>Potentilla argentea</i>	silver cinquefoil	
<i>Potentilla canadensis</i>	dwarf cinquefoil	WP(S)
<i>Potentilla norvegica</i>	Norwegian cinquefoil	
<i>Potentilla simplex</i>	common cinquefoil	
<i>Prenanthes alba</i>	white rattlesnakeroot	
<i>Prenanthes serpentaria</i>	cankerweed	
<i>Prenanthes trifoliolata</i>	gall of the earth	
<i>Proserpinaca intermedia</i>	intermediate mermaidweed	
<i>Proserpinaca palustris</i>	marsh mermaidweed	
<i>Proserpinaca pectinata</i>	combleaf mermaidweed	
<i>Prunella vulgaris</i>	Common selfheal	
<i>Prunus americana</i>	American plum	WP(S)
<i>Prunus angustifolia</i>	Chickasaw plum	S(NH), SE
<i>Prunus cerasus</i>	sour cherry	NEX
<i>Prunus serotina</i>	black cherry	
<i>Pseudognaphalium obtusifolium</i>	rabbittobacco	
<i>Pseudosasa japonica</i>	arrow bamboo	NEX
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	western brackenfern	
<i>Pteridium aquilinum</i>	western brackenfern	
<i>Ptilimnium capillaceum</i>	herbwilliam	
<i>Pueraria montana</i> var. <i>lobata</i>	Kudzu-vine	NEX

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Pycnanthemum setosum</i>	awned mountainmint	
<i>Pycnanthemum tenuifolium</i>	narrowleaf mountainmint	
<i>Pycnanthemum verticillatum</i> var. <i>verticillatum</i>	whorled mountainmint	
<i>Pycnanthemum verticillatum</i>	whorled mountainmint	
<i>Pyrola americana</i>	American wintergreen	WP(S)
<i>Pyxidantha barbulata</i>	flowering pixiemoss	
<i>Quercus alba</i>	white oak	WP(S)
<i>Quercus bicolor</i>	swamp white oak"	
<i>Quercus falcata</i>	southern red oak	WP(S)
<i>Quercus Hheterophylla</i>		
<i>Quercus lyrata</i>	overcup oak	S(NH), SE
<i>Quercus marilandica</i>	blackjack oak	
<i>Quercus michauxii</i>	swamp chestnut oak	
<i>Quercus palustris</i>	pin oak	
<i>Quercus phellos</i>	willow oak	WP(S)
<i>Quercus prinus</i>	chestnut oak	
<i>Quercus rubra</i> var. <i>ambigua</i>	northern red oak	
<i>Quercus rubra</i>	northern red oak	
<i>Quercus Hrudkinii</i>		
<i>Quercus Hsaulii</i>		
<i>Quercus stellata</i>	post oak	WP(S)
<i>Quercus velutina</i>	black oak	
<i>Ranunculus abortivus</i>	littleleaf buttercup	
<i>Ranunculus bulbosus</i>	St. Anthony's turnip	NEX
<i>Ranunculus ficaria</i>	fig buttercup	NEX
<i>Ranunculus hispidus</i> var. <i>nitidus</i>	bristly buttercup	
<i>Ranunculus pusillus</i>	low spearwort	
<i>Ranunculus recurvatus</i>	blisterwort	
<i>Ranunculus repens</i>	creeping buttercup	
<i>Ranunculus sceleratus</i>	cursed buttercup	
<i>Ranunculus trichophyllus</i> var. <i>trichophyllus</i>	threadleaf crowfoot	
<i>Rhexia mariana</i> var. <i>mariana</i>	Maryland meadowbeauty	
<i>Rhexia virginica</i>	handsome Harry	
<i>Rhododendron atlanticum</i>	dwarf azalea	S(NH), SE
<i>Rhododendron periclymenoides</i>	pink azalea	
<i>Rhododendron viscosum</i>	swamp azalea	WP(S)
<i>Rhus copallinum</i>	Flameleaf sumac	
<i>Rhynchospora capitellata</i>	brownish beaksedge	
<i>Rhynchospora chalarocephala</i>	loosehead beaksedge	
<i>Rhynchospora globularis</i>	globe beaksedge, coarse grass-like beaked-rush	S(NH), SE
<i>Rhynchospora gracilentia</i>	slender beaksedge	
<i>Rhynchospora macrostachya</i>	tall horned beaksedge	
<i>Rhynchospora nitens</i>	shortbeak beaksedge	
<i>Rhynchospora pallida</i>	pale beaksedge	S(NH)
<i>Rhynchospora recognita</i>	globe beaksedge	
<i>Rhynchospora scirpoides</i>	longbeak beaksedge	S(NH)
<i>Ribes hirtellum</i>	hairystem gooseberry	
<i>Robinia hispida</i>	bristly locust	NUS
<i>Robinia pseudoacacia</i>	black locust	NUS
<i>Robinia viscosa</i>	clammy locust	
<i>Rorippa nasturtium-aquaticum</i>	watercress	
<i>Rorippa palustris</i> ssp. <i>hispida</i>	hispid yellowcress	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Rorippa palustris</i>	bog yellowcress	
<i>Rorippa sylvestris</i>	creeping yellowcress	
<i>Rosa carolina</i>	Carolina rose	
<i>Rosa multiflora</i>	multiflora rose	NEX
<i>Rosa palustris</i>	swamp rose	
<i>Rotala ramosior</i>	lowland rotala	WP(S), WP(NH)
<i>Rubus cuneifolius</i>	sand blackberry	
<i>Rubus flagellaris</i>	northern dewberry	
<i>Rubus hispidus</i>	bristly dewberry	WP(S)
<i>Rubus idaeus</i>	American red raspberry	
<i>Rubus laciniatus</i>	cutleaf blackberry	NEX
<i>Rubus occidentalis</i>	black raspberry	
<i>Rudbeckia laciniata</i>	cutleaf coneflower	
<i>Rumex verticillatus</i>	swamp dock	
<i>Sagina decumbens</i>	trailing pearlwort	
<i>Sagina procumbens</i>	birdeye pearlwort	
<i>Sagittaria calycina</i> var. <i>spongiosa</i>	hooded arrowhead	
<i>Sagittaria latifolia</i>	broadleaf arrowhead	
<i>Sagittaria montevidensis</i>	giant arrowhead	
<i>Sagittaria rigida</i>	sessilefruit arrowhead	
<i>Salix alba</i>	white willow	NEX
<i>Salix fragilis</i>	crack willow	NEX
<i>Salix humilis</i> var. <i>tristis</i>	prairie willow	WP(S)
<i>Salix humilis</i>	prairie willow	WP(S)
<i>Salix interior</i>	sandbar willow	
<i>Salix nigra</i>	black willow	WP(S)
<i>Salix sericea</i>	silky willow	
<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	WP(S)
<i>Sanguinaria canadensis</i>	bloodroot	
<i>Sanguisorba canadensis</i>	Canadian burnet	WP(S)
<i>Sanicula odorata</i>	clustered blacksnakeroot	
<i>Sassafras albidum</i>	sassafras	
<i>Saxifraga pensylvanica</i>	eastern swamp saxifrage	
<i>Saxifraga virginensis</i>	early saxifrage	
<i>Schoenoplectus americanus</i>	chairmaker's bulrush	
<i>Schoenoplectus fluviatilis</i>	river bulrush	
<i>Schoenoplectus maritimus</i>	cosmopolitan/saltmarsh bulrush	SE
<i>Schoenoplectus novae-angliae</i>	New England bulrush	S(NH)
<i>Schoenoplectus pungens</i> var. <i>pungens</i>	common threesquare	
<i>Schoenoplectus robustus</i>	sturdy bulrush	
<i>Schoenoplectus smithii</i>	Smith's bulrush	
<i>Schoenoplectus tabernaemontani</i>	softstem bulrush	
<i>Scirpus atrovirens</i>	green bulrush	
<i>Scleranthus annuus</i>	German knotgrass	
<i>Scleria pauciflora</i>	fewflower nutrush	
<i>Scleria reticularis</i>	netted nutrush	
<i>Scleria triglomerata</i>	whip nutrush	WP(S)
<i>Scrophularia lanceolata</i>	lanceleaf figwort	
<i>Scrophularia marilandica</i>	carpenter's square	
<i>Scutellaria elliptica</i>	hairy skullcap	
<i>Scutellaria galericulata</i>	marsh skullcap	WP(S)
<i>Scutellaria integrifolia</i>	helmet flower	WP(S)
<i>Scutellaria lateriflora</i>	blue skullcap	
<i>Scutellaria parvula</i> var. <i>missouriensis</i>	Leonard's skullcap, small skullcap	S(NH), SE
<i>Selaginella apoda</i>	meadow spikemoss	WP(M)

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Senna hebecarpa</i>	American senna	
<i>Sericocarpus asteroides</i>	toothed whitetop aster	
<i>Sericocarpus linifolius</i>	narrowleaf whitetop aster	
<i>Setaria faberi</i>	Japanese bristlegrass	NEX
<i>Setaria magna</i>	giant bristlegrass"	
<i>Setaria parviflora</i>	marsh bristlegrass	
<i>Sherardia arvensis</i>	blue fieldmadder	
<i>Sida spinosa</i>	prickly fanpetals	
<i>Silene antirrhina</i>	sleepy silene	
<i>Silene latifolia ssp. alba</i>	bladder campion	
<i>Silene stellata</i>	widowsfrill	
<i>Sisymbrium officinale</i>	hedgemustard	
<i>Sisyrinchium atlanticum</i>	eastern blue-eyed grass	WP(S)
<i>Sisyrinchium fuscatum</i>	coastalplain blue-eyed grass	WP(S)
<i>Sisyrinchium mucronatum</i>	needletip blue-eyed grass	
<i>Sium suave</i>	hemlock waterparsnip	
<i>Smilax pseudochina</i>	bamboo vine	WP(S)
<i>Smilax rotundifolia</i>	roundleaf greenbrier	
<i>Solanum carolinense</i>	Carolina horsenettle	
<i>Solanum dulcamara</i>	climbing nightshade	
<i>Solanum physalifolium</i>	hoe nightshade	
<i>Solanum ptychanthum</i>	West Indian nightshade	
<i>Solidago canadensis</i>	Canada goldenrod	
<i>Solidago latissimifolia</i>	Elliott's goldenrod	
<i>Solidago nemoralis</i>	gray goldenrod	
<i>Solidago rugosa</i>	wrinkleleaf goldenrod	
<i>Solidago uliginosa</i>	bog goldenrod	
<i>Solidago ulmifolia</i>	elmleaf goldenrod	
<i>Sonchus asper</i>	spiny sowthistle	
<i>Sparganium americanum</i>	American bur-reed	
<i>Spartina cynosuroides</i>	big cordgrass	
<i>Spergula arvensis</i>	corn spurry	
<i>Spergularia salina</i>	salt sandspurry	
<i>Sphenopholis intermedia</i>	slender wedgescale	
<i>Sphenopholis nitida</i>	shiny wedgescale	
<i>Sphenopholis obtusata</i>	prairie wedgescale	
<i>Spiraea prunifolia</i>	bridalwreath spirea	
<i>Spiraea tomentosa</i>	steeplesh	
<i>Spiranthes lacera var. gracilis</i>	northern slender ladies'-tresses	
<i>Spiranthes odorata</i>	marsh ladies'-tresses	S(NH)
<i>Spiranthes tuberosa</i>	little ladies'-tresses	
<i>Spirodela polyrrhiza</i>	common duckmeat	
<i>Sporobolus clandestinus</i>	rough dropseed	
<i>Sporobolus vaginiflorus</i>	poverty dropseed	
<i>Stachys aspera</i>	hyssopleaf hedgenettle	
<i>Stachys hyssopifolia</i>	hyssopleaf hedgenettle	
<i>Stachys palustris</i>	marsh hedgenettle	
<i>Staphylea trifolia</i>	American bladdernut	WP(S)
<i>Strophostyles helvula</i>	trailing fuzzybean	
<i>Strophostyles umbellata</i>	pink fuzzybean	WP(S)
<i>Stylosanthes biflora</i>	sidebeak pencilflower	S(NH)
<i>Symphotrichum concolor</i>	eastern silver aster	
<i>Symphotrichum dumosum var. dumosum</i>	rice button aster	
<i>Symphotrichum lanceolatum ssp. lanceolatum var. lanceolatum</i>	white panicle aster	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Symphotrichum lateriflorum</i> var. <i>lateriflorum</i>	calico aster	
<i>Symphotrichum novae-angliae</i>	New England aster	
<i>Symphotrichum pilosum</i>	hairy white oldfield aster	
<i>Symphotrichum puniceum</i> var. <i>puniceum</i>	purplestem aster, shining aster	SE
<i>Symphotrichum subulatum</i>	eastern annual saltmarsh aster	
<i>Symphytum officinale</i>	common comfrey	WP(S)
<i>Taenidia integerrima</i>	yellow pimpernel	
<i>Taraxacum officinale</i>	common dandelion	NUS
<i>Taxodium distichum</i>	bald cypress	
<i>Tephrosia virginiana</i>	Virginia tephrosia	
<i>Teucrium canadense</i>	Canada germander	
<i>Thalictrum pubescens</i>	king of the meadow	WP(S)
<i>Thalictrum thalictroides</i>	rue anemone	
<i>Thelypteris noveboracensis</i>	New York fern	WP(S), WP(M)
<i>Thelypteris palustris</i> var. <i>pubescens</i>	eastern marsh fern	WP(S), WP(M)
<i>Thelypteris palustris</i>	eastern marsh fern	
<i>Thelypteris simulata</i>	bog fern	
<i>Thlaspi arvense</i>	field pennycress	
<i>Tilia americana</i>	American basswood	
<i>Tipularia discolor</i>	crippled crane fly	S(NH)
<i>Torreyochloa pallida</i> var. <i>pallida</i>	pale false mannagrass	
<i>Toxicodendron pubescens</i>	Atlantic poison oak	
<i>Toxicodendron radicans</i> ssp. <i>radicans</i>	eastern poison ivy	
<i>Toxicodendron radicans</i>	eastern poison ivy	
<i>Tradescantia virginiana</i>	Virginia spiderwort	
<i>Triadenum virginicum</i>	Virginia marsh St. Johnswort	
<i>Trichostema setaceum</i>	narrowleaf bluecurls	WP(NH)
<i>Tridens flavus</i> var. <i>flavus</i>	purpletop tridens	
<i>Trientalis borealis</i>	starflower	
<i>Trifolium aureum</i>	golden clover	NEX
<i>Trifolium pratense</i>	red clover	NEX
<i>Trifolium repens</i>	white clover	NEX
<i>Trillium cernuum</i>	whip-poor-will flower	WP(S)
<i>Triodanis perfoliata</i> var. <i>perfoliata</i>	clasping Venus' looking-glass	WP(S)
<i>Triodanis perfoliata</i>	clasping Venus' looking-glass	
<i>Triplasis purpurea</i>	purple sandgrass	
<i>Tripsacum dactyloides</i>	eastern gamagrass	
<i>Tsuga canadensis</i>	eastern hemlock	WP(S)
<i>Typha angustifolia</i>	narrowleaf cattail	
<i>Typha latifolia</i>	broadleaf cattail	
<i>Ulmus americana</i>	American elm	
<i>Ulmus rubra</i>	slippery elm	
<i>Urtica dioica</i> ssp. <i>gracilis</i>	California nettle	
<i>Urtica dioica</i>	stinging nettle	NUS
<i>Utricularia gibba</i>	humped/two-flower bladderwort	S(NH), SE
<i>Utricularia inflata</i>	swollen bladderwort	
<i>Utricularia macrorhiza</i>	common bladderwort	
<i>Utricularia purpurea</i>	eastern purple bladderwort	S(NH)
<i>Utricularia radiata</i>	little floating bladderwort	
<i>Uvularia perfoliata</i>	perfoliate bellwort	
<i>Uvularia sessilifolia</i>	sessileleaf bellwort	WP(S)
<i>Vaccinium angustifolium</i>	lowbush blueberry	

<u>Scientific Name</u>	<u>Common Name(s)</u>	<u>Notes</u>
<i>Vaccinium corymbosum</i>	highbush blueberry	
<i>Vaccinium fuscatum</i>	black highbush blueberry	
<i>Vaccinium pallidum</i>	Blue Ridge blueberry	
<i>Veratrum viride</i>	green false hellebore	
<i>Verbena hastata</i>	swamp verbena	
<i>Vernonia glauca</i>	broadleaf ironweed	WP(NH), SE
<i>Vernonia noveboracensis</i>	New York ironweed	
<i>Veronica agrestis</i>	green field speedwell	
<i>Veronica americana</i>	American speedwell	
<i>Veronica hederifolia</i>	ivyleaf speedwell	NEX
<i>Veronica officinalis</i>	common gypsyweed	
<i>Veronica persica</i>	birdeye speedwell	
<i>Viburnum acerifolium</i>	mapleleaf viburnum	WP(S)
<i>Viburnum dentatum</i>	southern arrowwood	WP(S)
<i>Viburnum nudum var. cassinoides</i>	withe-rod	WP(S)
<i>Viburnum prunifolium</i>	blackhaw	
<i>Vicia americana</i>	American vetch	
<i>Vicia tetrasperma</i>	lentil vetch	
<i>Vicia villosa ssp. varia</i>	winter vetch	
<i>Vicia villosa</i>	winter vetch	
<i>Viola affinis</i>	sand violet	
<i>Viola arvensis</i>	European field pansy	
<i>Viola bicolor</i>	field pansy	
<i>Viola brittoniana</i>	northern coastal violet	
<i>Viola conspersa</i>	American dog violet	
<i>Viola cucullata</i>	marsh blue violet	
<i>Viola hirsutula</i>	southern woodland violet	
<i>Viola lanceolata</i>	bog white violet	
<i>Viola palmata</i>	early blue violet	
<i>Viola pedata</i>	birdfoot violet	
<i>Viola Hprimulifolia</i>		WP(S)
<i>Viola pubescens var. pubescens</i>	downy yellow violet	
<i>Viola pubescens</i>	downy yellow violet	
<i>Viola sagittata var. sagittata</i>	arrowleaf violet	
<i>Viola sagittata</i>	arrowleaf violet	WP(S)
<i>Viola sororia</i>	common/northern blue violet	SE
<i>Vitis aestivalis</i>	summer grape	WP(S)
<i>Vitis labrusca</i>	fox grape	
<i>Vitis riparia</i>	riverbank grape	
<i>Vitis vulpina</i>	frost grape	
<i>Vulpia octoflora</i>	sixweeks fescue	
<i>Vulpia sciurea</i>	squirreltail fescue, Squirreltail six-weeks grass	WP(NH), SE
<i>Wisteria floribunda</i>	Japanese wisteria	NEX
<i>Wisteria sinensis</i>	Chinese wisteria	NEX
<i>Wolffia brasiliensis</i>	Brazilian watermeal	
<i>Wolffia columbiana</i>	Columbian watermeal	
<i>Wolffiella gladiata</i>	Florida mudmidget, sworb bogmat	S(NH), SE
<i>Woodwardia areolata</i>	netted chainfern	WP(M)
<i>Woodwardia virginica</i>	Virginia chainfern	WP(M)
<i>Xanthium strumarium var. canadense</i>	Canada cocklebur	
<i>Yucca filamentosa</i>	Adam's needle	
<i>Zizania aquatica</i>	annual wildrice	

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revised 06/2005

APPENDIX F: State Endangered and Threatened Species

Birds			
Endangered		Threatened	
American Bittern	<i>Botaurus lentiginosus</i>	Bobolink	<i>Dolichonyx oryzivorus</i> BR
Eagle, bald	<i>Haliaeetus leucocephalus</i> BR **	Bald Eagle	<i>Haliaeetus leucocephalus</i> NB **
Falcon, peregrine	<i>Falco peregrinus</i>	Cooper's Hawk	<i>Accipiter cooperii</i>
Goshawk, northern	<i>Accipiter gentilis</i> BR	Red-shouldered Hawk	<i>Buteo lineatus</i> NB
Grebe, pied-billed	<i>Podilymbus podiceps</i> *	Black-crowned night-heron	<i>Nycticorax nycticorax</i> BR
Harrier, northern	<i>Circus cyaneus</i> BR	Yellow-crowned night-heron	<i>Nyctanassa violaceus</i>
Hawk, red-shouldered	<i>Buteo lineatus</i> BR	Red knot	<i>Calidris canutus</i> BR
Owl, short-eared	<i>Asio flammeus</i> BR	Osprey	<i>Pandion haliaetus</i> BR
Plover, piping	<i>Charadrius melodus</i> **	Barred owl	<i>Strix varia</i>
Sandpiper, upland	<i>Batramia longicauda</i>	Long-eared owl	<i>Asio otus</i>
Shrike, loggerhead	<i>Lanius ludovicianus</i>	Black rail	<i>Laterallus jamaicensis</i>
Skimmer, black	<i>Rynchops niger</i> BR	Black skimmer	<i>Rynchops niger</i> NB
Sparrow, Henslow's	<i>Ammodramus henslowii</i>	Grasshopper sparrow	<i>Ammodramus savannarum</i> BR
Sparrow, vesper	<i>Poocetes gramineus</i> BR	Savannah sparrow	<i>Passerculus sandwichensis</i> BR
Tern, least	<i>Sterna antillarum</i>	Vesper sparrow	<i>Poocetes gramineus</i> NB
Tern, roseate	<i>Sterna dougallii</i> **	Red-headed woodpecker	<i>Melanerpes erythrocephalus</i>
Wren, sedge	<i>Cistothorus platensis</i>		

Reptiles			
Endangered		Threatened	
Rattlesnake, timber	<i>Crotalus h. horridus</i>	Snake, northern pine	<i>Pituophis m. melanoleucus</i>
Snake, corn	<i>Elaphe g. guttata</i>	Turtle, Atlantic green	<i>Chelonia mydas</i> **
Snake, queen	<i>Regina septemvittata</i>	Turtle, wood	<i>Clemmys insculpta</i>
Turtle, bog	<i>Clemmys muhlengergii</i> **		
Atlantic hawksbill	<i>Eretmochelys imbricata</i> **		
Atlantic leatherback	<i>Dermochelys coriacea</i> **		
Atlantic loggerhead	<i>Caretta caretta</i> **		
Atlantic Ridley	<i>Lepidochelys kempi</i> **		

Amphibians			
Endangered		Threatened	
Salamander, blue-spotted	<i>Ambystoma laterale</i>	Salamander, eastern mud	<i>Pseudotriton montanus</i>
Salamander, eastern tiger	<i>Ambystoma tigrinum</i>	Salamander, long-tailed	<i>Eurycea longicauda</i>
Treefrog, southern gray	<i>Hyla chrysocelis</i>	Treefrog, pine barrens	<i>Hyla andersonii</i>

Invertebrates			
Endangered		Threatened	
Beetle, American burying	<i>Nicrophorus mericanus</i> **	Elfin, frosted (butterfly)	<i>Callophrys irus</i>
Beetle, northeastern beach tiger	<i>Cincindela d. dorsalis</i> **	Floater, triangle (mussel)	<i>Alasmidonta undulata</i>
Copper, bronze	<i>Lycaena hyllus</i>	Fritillary, silver-bordered (butterfly)	<i>Bolaria selene myrina</i>
Floater, brook (mussel)	<i>Alasmidonta varicosa</i>	Lampmussel, eastern (mussel)	<i>Lampsilis radiata</i>
Floater, green (mussel)	<i>Lasmigona subviridis</i>	Lampmussel, yellow (mussel)	<i>Lampsilis cariosa</i>
Satyr, Mitchell's (butterfly)	<i>Neonympha m. mitchellii</i> **	Mucket, tidewater (mussel)	<i>Leptodea ochracea</i>
Skipper, arogos (butterfly)	<i>Atrytone arogos arogos</i>	Pondmussel, eastern (mussel)	<i>Ligumia nasuta</i>
Skipper, Appalachian grizzled (butterfly)	<i>Pyrgus wyandot</i>	White, checkered (butterfly)	<i>Pontia protodice</i>
Wedgemussel, dwarf	<i>Alasmidonta heterodon</i> **		

Mammals		Fish	
Endangered		Endangered	
Bat, Indiana	<i>Myotis sodalis</i> **	Sturgeon, shortnose	<i>Acipenser brevirostrum</i> **
Bobcat	<i>Lynx rufus</i>		
Whale, black right	<i>Balaena glacialis</i> **		
Whale, blue	<i>Balaenoptera musculus</i> **		
Whale, fin	<i>Balaenoptera physalus</i> **		
Whale, humpback	<i>Megaptera novaeangliae</i> **		
Whale, sei	<i>Balaenoptera borealis</i> **		
Whale, sperm	<i>Physeter macrocephalus</i> **		
Woodrat, Allegheny	<i>Neotoma floridana magister</i>		

** Also on the federal Endangered and Threatened list

APPENDIX G: Rare Plant and Animal Species and Natural Communities Presently Recorded in the NJ Natural Heritage Database for Woodstown Borough & Pilesgrove Township

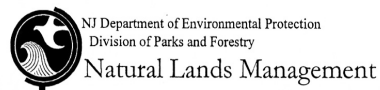
CAUTIONS AND RESTRICTIONS ON NATURAL HERITAGE DATA

The quantity and quality of data collected by the Natural Heritage Program is dependent on the research and observations of many individuals and organizations. Not all of this information is the result of comprehensive or site-specific field surveys. Some natural areas in New Jersey have never been thoroughly surveyed. As a result, new locations for plant and animal species are continuously added to the database. Since data acquisition is a dynamic, ongoing process, the Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of New Jersey. Information supplied by the Natural Heritage Program summarizes existing data known to the program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments. The attached data is provided as one source of information to assist others in the preservation of natural diversity.

This office cannot provide a letter of interpretation or a statement addressing the classification of wetlands as defined by the Freshwater Wetlands Act. Requests for such determination should be sent to the DEP Land Use Regulation Program, P.O. Box 401, Trenton, NJ 08625-0401.

The Landscape Project was developed by the Division of Fish & Wildlife, Endangered and Nongame Species Program to map critical habitat for rare animal species. Some of the rare species data in the Landscape Project is in the Natural Heritage Database, while other records were obtained from other sources. Natural Heritage Database response letters will list all species (if any) found during a search of the Landscape Project. However, any reports that are included with the response letter will only reference specific records if they are in the Natural Heritage Database. This office cannot answer any inquiries about the Landscape Project. All questions should be directed to the DEP Division of Fish and Wildlife, Endangered and Nongame Species Program, P.O. Box 400, Trenton, NJ 08625-0400.

This cautions and restrictions notice must be included whenever information provided by the Natural Heritage Database is published.



Scientific name	Common Name	Federal Status*	NJ Status*	State Rank**
Ecosystems				
Bald eagle foraging area		LT	E	S1, S2
Bald eagle nest buffer		LT	E	S1, S2
Vascular Plants				
<i>Agastache nepetoides</i>	Yellow giant-hyssop			S2
<i>Alopecurus Aequalis var Aequalis</i>	Short-awn meadow-foxtail			S2
<i>Amianthium muscitoxicum</i>	Fly poison		E	S2
<i>Asclepias variegata</i>	White milkweed			S2
<i>Carex utriculata</i>	Bottle-shaped sedge			S2
<i>Euphorbia purpurea</i>	Darlington's glade spurge		E	S1
<i>Nelumbo lutea</i>	American lotus		E	S1
<i>Phaseolus polystachios var polystachios</i>	Wild-kidney bean			S2
<i>Phlox maculata var maculata</i>	Spotted phlox			S3
<i>Polemonium reptans</i>	Greek-Valerian		E	S1
<i>Polygonum setaceum var setaceum</i>	Bristly smartweed			S2
<i>Rotala ramosior</i>	Toothcup			S3
<i>Sisyrinchium fuscatum</i>	Sand-plan blue-eyed grass			S2
<i>Trichostema setaceum</i>	Narrow-leaf bluecurls			S2
<i>Vernonica glauca</i>	Broad-leaf ironweed		E	S1
<i>Vulpia elliotea</i>	Squirrel-tail six-weeks grass		E	S1
Vertebrates				
<i>Dolichonyx oryzivorus</i>	Bobolink		T/T	S2
<i>Clemmys muhlenbergii</i>	Bog turtle	LT	E	S2
<i>Terrapene carolina</i>	Eastern box turtle			S5
<i>Ammodramus savannarum</i>	Grasshopper sparrow		T/S	S2
<i>Ardea herodias</i>	Great blue heron		S	S2, S4
<i>Passerculus sandwichensis</i>	Savannah sparrow		T/T	S2, S4
<i>Bartramia longicauda</i>	Upland sandpiper		E	S1
<i>Poocetes gramineus</i>	Vesper sparrow		E	S1, S2

*** Key to Federal and State Status Codes**

T	Threatened species – may become endangered if conditions surrounding the species begin to or continue to deteriorate.
E	Endangered species – one whose prospects for survival within the state are in immediate danger due to one or many factors.
S	Stable species
LT	Taxa formerly listed as threatened

**** Key to State Element Rank**

S1	Critically imperiled in NJ because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres).
S2	Imperiled in NJ because of rarity (6 to 20 occurrences).
S3	Rare in state with 21 to 50 occurrences. Includes elements which are widely distributed but with small populations/acreage, or with restricted distribution but locally abundant.
S4	Apparently secure in state, with many occurrences.
S5	Demonstrably secure in state and essentially ineradicable under present conditions.

APPENDIX H: Woodstown & Pilesgrove's Historical and Cemeteries Inventory

Historical Site or Cemetery	Location
<i>Woodstown Borough</i>	
David Bassett House (1755)	298 Bailey Street
Isaiah Clawson House (1850)	74 North Main Street
Samuel Dickeson House (1749)	42 North Main Street
Harris House	222 North Main Street
Isaiah Shinn House (1742)	68 North Main Street
Jachonias Wood House (1792)	110 South Main Street
Jeremiah Wood House (1735)	45 Lotus Avenue
Asbury Methodist Church Cemetery	149 South Main Street
First Baptist Church Cemetery	25 Church Street
Lawnside Cemetery	West Avenue and Route 45
Methodist Church of Woodstown Cemetery	322 South Main Street
Society of Friends Cemetery	63 West Avenue
Spencer UAME Church Cemetery	314 Bailey Street
Woodstown Presbyterian Church Cemetery	36 Church Street
<i>Pilesgrove Township</i>	
Samuel Bassett House (1757) [possible Underground Railroad stop]	29 Fox Road
Champneys-Reed (1746)	100 Old Salem Road
Zaccheus Dunn House	67 East Lake Road
Hill-Austin House	146 Old Salem Road
Morgan's Folly (1804)	20 Layton Road
Seven Stars Tavern	Old Kings Highway/Auburn Road
Daughters Conference of Cedar Grove Cemetery (at Mount Salem AUMP Church)	50 Cedar Lane
Major Christian Piercy's Gravesite	556 Eldridge's Hill Road
Morning Star Baptist Church Cemetery	Swedesboro Road
Mount Laurel AME Church Cemetery	31 Avis Mill Road
Pilesgrove Methodist Episcopal Meeting Cemetery	Jill Road
Salem County Veterans' Cemetery	Route 45 and Cemetery Road
Sharptown United Methodist Cemetery	22 Church Street

APPENDIX I: Known Contaminated Sites & Underground Storage Tanks (2001)

Table: Known Contaminated Sites in Woodstown & Pilesgrove

Site ID	Name	Address	Town	Status	Lead Agency	Remedial Level
NJC876017708	Coastal Service Station	Route 40 & East Lake Road	Woodstown	Active	BUST	C2
NJD986596096	Shell Service Station	Route 40	Woodstown	Active	BUST	C2
NJD986604783	Mobil Service Station	East Avenue and N. Main Street	Woodstown	Active	BFO-S	C2
NJL800507717	Woodstown Center	East Avenue	Woodstown	Active	BUST	C2
NJL800588865	Residence	East Avenue	Woodstown	Active	BFO-S	C1
NJD002335958	Richman Ice Cream Company	Route 40 & Kings Highway	Pilesgrove	Active	BFO-S	C1
NJD011881174	CR Warner INC	East Lakes and Daretown Roads	Pilesgrove	Active	BFO-S	C1
NJL000043968	Woodstown-Pilesgrove Sanitary Landfill	Robbins Road	Pilesgrove	Pending	BFO-CA	C3
NJL600053359	Hess Service Station	Routes 40 & 45	Pilesgrove	Active	BUST	C2
NJL600200364	Salem County Road Department	Cemetery Road	Pilesgrove	Active	BUST	C2
NJL800428880	Woodstown Station	Harding Way	Pilesgrove	Active	BFO-S	C1

Source: NJDEP, 2001

* See next page for explanations of Status, Lead Agencies, and Remedial Level

Table: Underground Storage Tanks in Woodstown & Pilesgrove

BUST Case ID	Tank Number	Name	Address	Town	Lead Agency	Status	Remedial Level
	6932	New Jersey Department of Military and Veteran Affairs	North Main Street	Woodstown	BFO-IN	AA	
	6932	Woodstown National Guard Armory	North Main Street	Woodstown	BFO-IN	AA	
90-01-03-1307	11792	Coastal Mart #7224**	East Lake Road & Route 40	Woodstown	BUST	ATP	C2
92-08-12-1116	62075	Mobil Service Station #15-EB2**	North Main & East Street	Woodstown	BUST	NFA-A	C1
91-02-15-1319	66170	Woodstown Central Office (New Jersey Bell)	South Main Street	Woodstown	BUST	NFA-A	
93-09-02-0902	76359	Shell Service Station**	Route 40/45 & Green Street	Woodstown	BUST	NFA-A	
88-10-20-0914	76359	Shell Service Station**	Route 40/45 & Green Street	Woodstown	BUST	ATP	C2
90-10-23-1246	84170	Amerada Hess	Route 40 & Route 45	Woodstown	BUST	ATP	C2
	90871	Private Property	North Main Street	Woodstown	BFO-IN	AA	
	94601	Woodstown-Pilesgrove Board of Education	East Avenue	Woodstown	BFO-IN	NFA-A	B
92-09-25-0921	120098	Salem County Vocational School	Route 45 (Woodstown-Salem Road)	Woodstown	BUST	NFA-A	C1
	120098	Salem County Vocational School	Route 45 (Woodstown-Salem Road)	Woodstown	BFO-IN	NFA-A	B
	127669	Peterson Building	North Main Street	Woodstown	BFO-IN	ATP	
	163190	Lawnside Cemetery Association	West Ave.	Woodstown	BFO-IN	AA	

BUST Case ID	Tank Number	Name	Address	Town	Lead Agency	Status	Remedial Level
	218405	S-J Transportation Co.	Route 40	Woodstown	BFO-IN	NFA-A	B
99-07-29-1522-02	No registration	Woodstown Center**	East Avenue	Woodstown	BUST	ATP	C2
99-06-14-1423-04	61120	Salem County Road Department**	Route 45 & Cemetery Lane	Pilesgrove	BUST	ATP	C2
92-02-21-0822	61120	Salem County Road Department	Route 45 & Cemetery Lane	Pilesgrove	BUST	NFA-A	C1
00-03-09-1111-30	109154	CR Warner Inc, Woodstown garage**	East Millbrook Avenue	Pilesgrove	BFO-IN	NFA-A	B
01-01-03-1343-03	140528	Coastal Mart	Route 40	Pilesgrove	BUST	ATP	C2
99-10-14-1500-00	165846	Woodstown State Police**	Route 40 (Harding Highway)	Pilesgrove	BFO-IN	AA	
	237107	Corbyl Construction	PO Box 209, Woodstown	Pilesgrove	BFO-IN	NFA-A	B

Source: NJDEP, 2002

** Site also appears on Known Contaminated Site List (2001)

Code	Status
Active	This site is under the management of a Lead Agency
Pending	This site is awaiting assessment by a Lead Agency
NFA-A	No further action for a partial area of a site
ATP	The site is assigned to a case management program listed under "Lead Agency"
AA	This site is awaiting case management assignment

Code	Lead Agencies
BFO	Bureau of Field Operations
BFO-CA	Bur. of Field Operations – Case Assignment Section
BFO-IN	Bur. of Field Operations – Initial Notice Section
BFO-S	Bur. of Field Operations – Southern
BUST	Bur. of Underground Storage Tanks

Explanation of Remedial Levels

Remedial Level	Explanation of Site Complexity
B	A single-phase remedial action in emergency response; simple removal activities of contaminants; usually no impact to soil or groundwater.
C1	A remedial action with simple sites; one or two contaminants localized to soil and the immediate spill or discharge area.
C2	A remedial action with more complicated contaminant discharges; multiple site spills and discharges; more than one contaminant, with both soil and groundwater impacted or threatened.
C3	A multiphase remedial action with high complexity and threatening sites. Multiple contaminants some at high concentrations with unknown sources continuing to impact soils, groundwater, and possibly surface waters and potable water resources. Dangerous for direct contact with contaminated soils.
D	Same conditions as C3 except that D levels are also usually designated federal "Superfund Sites."
NA	Not assessed

DELAWARE VALLEY REGIONAL PLANNING COMMISSION

Publication Abstract

Title: *Environmental Resource Inventory
for Woodstown Borough and Pilesgrove
Township, Salem County, New Jersey* **Date Published:** **September 2005**
Publication No. **05030**

Geographic Area Covered: Woodstown Borough and Pilesgrove Township, Salem County, New Jersey

Key Words: Environment, environmental resource inventory, environmental commission, conservation, master planning, natural resources, Salem County, Woodstown, Pilesgrove Township.

ABSTRACT

This publication documents the natural and community resources of Woodstown Borough and Pilesgrove Township, Salem County, New Jersey. The natural resource information includes descriptions, tables and maps of land use; soils; steep slopes; drinking water aquifers and wells; surface waters including watersheds, streams, lakes, wetlands, and floodplains; impacts on water resources; vegetation including forests and grasslands; animal communities; threatened and endangered species; Heritage Priority Sites; and known contaminated sites. Community resources that are briefly described include population, transportation, township utilities and services, and protected open space. A short history of the communities is also included.

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WOODSTOWN

SALEM COUNTY, NEW JERSEY

&

for the **TOWNSHIP** of



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