

# **Appendix B**

## ***Natural Areas Inventory Table 1 Update***

Table 1. Revision of Table 1 of Monroe CNAI of 1991. Sites of statewide significance for the protection of biological diversity in Monroe County. Site are listed in approximate order of priority from the most important (rank=1) to the least (rank=5). Only new or updated sites are included, but priority rankings reflect sites' relative importance compared to all sites included in the original NAI.

County Rank <sup>1</sup>	Site Name or Code (municipality)	USGS Topo. Map	TNC and State Element Ranks <sup>2</sup> , Date last observed, and Importance and Recommendations
1	Long Pond Macrosite UPDATE	Blakeslee Pocono Pines	<p>1999 -A bird species (SA587) listed as S3B, S4N by The Nature Conservancy is believed to be nesting at this site. A fair population of State-Endangered grass species (SP504) was observed once again in July of 1991. An additional population of this species (SP584) was found in 1994 within the Long Pond Macrosite. Three fair populations of a PA Endangered plant (SP526) were identified in 1993. The previously identified barrens community (NC533) appears to be doing well. Potential threats to the plant, animal, and natural communities on this site include development (e.g., residential and roadways).</p> <p>1991 – This extensive area is considered to be the most important site in PA for the preservation of biodiversity and one of the top sites in the eastern US because of the concentration of rare species. Further development in this area should be curtailed.</p>
1	Lake Mineola Marsh UPDATE	Brodheadsville	<p>1999 - This site was revisited in December of 1991 and in 1993. A marginal population of a Federally Endangered bulrush (SP513a) still persists at the site. The Pennsylvania Rare spike rush (SP513b) was seen during the 1991 survey, but not during the 1993 site visit. Because the occurrence of this species from year to year is known to be quite variable, this species may still occur at the site. A new record of a marginal population of a Pennsylvania rare grass (SP513c) was observed in 1993. Nearby quarrying and development are potential threats of concern.</p> <p>1991 – Two plants of special concern occur here, including one of the few remaining sites for a G1S1, PE plant. A nearby sand and gravel operation may pose a threat by lowering the water table.</p>
1	Cherry Creek Valley UPDATE/NEW (continued next page)	Saylorsburg Stroudsburg	<p>1999- The site was revisited from 1994-1999. Five plant species of concern were still observed at the “Cherry Creek Fen Site.” Three new populations of plant species of concern and two populations of a PA Endangered animal species were identified in the same watershed. These areas combined make up (continued)</p>

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1	Cherry Creek Valley UPDATE/NEW (continued)	Saylorsburg Stroudsburg	<p>“Cherry Creek Valley;” one of the most important sites for conservation in the state. Threats include invasion by aggressive plant species (e.g., cattails).</p> <p>1991 – “Cherry Creek Fen” A good G2G3S1 natural community with four species of special concern occur here in a quickly developing area. Protection needs include safeguarding water quality and limiting future development in the watershed.</p>
2	Two-mile Run Swamp UPDATE	Blakeslee	<p>1999 - Two plant species of concern were monitored in 1992. The population of a State Rare rush (SP549) is still marginal, and the Pennsylvania Endangered sedge (SP565) population was still ranked as “good.” The biggest threat to the sedges is disturbance by ATVs. No threats to the rush population were identified.</p> <p>1991 – Large diverse wetland with excellent Boreal Conifer Swamp and 2 species of special concern. There are serious threats from housing; purchase and easement are recommended.</p>
2	Tannersville Cranberry Bog UPDATE	Mount Pocono	<p>1999 - This site was revisited in 1992. A good populations of a PA Rare plant species (SP507) was found still growing at the site. Two new records of plant species of concern (SP530 a and b) were identified during the field visit. SP530a is a marginal population. Additional surveys are needed to the size and condition of SP530b. The greatest threat to the site appears to be natural succession.</p> <p>1991 – This wetland system contains 3 natural communities and 3 species of special concern; watershed protection is critical to ensure the continued quality of this wetland.</p>
2	Big Offset Barren UPDATE	Saylorsburg Wind Gap	<p>1999- A good to marginal quality population of a State Endangered plant species (SP517) was revisited in 1993 and 1997. The population seems to be doing well and the growth of the plants was vigorous.</p> <p>1991 – A good population of a G2S1, PE plant occurs here. Management will require the cooperation of NPS, ATC, a water company, a gas company, and the county.</p>

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3	Adams Swamp	Blakeslee	1991- The site includes a large, good to excellent quality Boreal Conifer Swamp, partially protected by TNC. Recommend protection and minimizing development in watershed.
3	Fern Ridge Bog	Blakeslee	1991- This site is a complex of three Acidic Shrub Swamps with 4 occurrences of two different species of special concern. The site should be protected as part of the Long Pond Macrosite.
3	Pocono Lake Preserve Site UPDATE	Blakeslee	1999- This site was revisited in 1993. A new population of a State Rare plant (SP566) was found south of Pocono Lake. There are no apparent threats to this population and no special management is needed.  1991- Good quality Boreal Conifer Swamp with 2 plants of special concern, and 3 nesting pairs of Osprey; site protected.
3	Weir Creek Woods NEW	Brodheads ville	1999- A small population of a Pennsylvania Endangered plant species (SP515) globally ranked as G3 was found at this site in 1993. Threats to the population include: mowing or spraying of the roadbank, road widening or highway construction projects, and the effects of road de-icing agents in winter. Additional surveys are needed to determine the extent of the population.
3	Cresco Heights UPDATE	Buck Hill Falls	1999- This site was revisited in June of 1991. Four plant species of concern were once again located. The plants appear to be growing with normal vigor in the Acidic Rocky Summit Natural Community.  1991- This site contains a fair-quality Acidic Rocky Summit Natural Community with a good population of a G5S1, PE plant.
3	GE520, NC526, SP530 (Buck Hill Falls) UPDATE (continued next page)	Buck Hill Falls	1999- A small population of a Pennsylvania Endangered plant species (SP530) was observed in a cliff area along Buck Hill Creek in June of 1991. Because this site is a tourist attraction that is kept in a natural state, the only potential threats to the plants appear to be trampling and picking by tourists, and scouring from the creek during high water. (continued next page)

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3	GE520, NC526, SP530 (Buck Hill Falls) UPDATE (continued)	Buck Hill Falls	(continued) 1991-Old-growth Northern Conifer Forest; owners seeking conservation easement.
3	Seven Pines Mountain	Buck Hill Falls	1991- this site contains a good quality Ridgetop-Dwarf-Tree Forest on state Game Lands. The site will need management to maintain this community.
3	Shoemakers Swamp NEW	Bushkill	1999- The National Park Service owns this forested wetland. Four plant species (SP553a, b, c, d) of special concern were identified on this site in 1995. No obvious threats were observed during the field visit with the exception of increased beaver activity. Further work is needed to verify and evaluate the extent of the plant populations.
3	Lost Lakes UPDATE	Pocono Pines	1999 - This site was revisited in June and November of 1991. The kettlehole bog community (NC598a) is intact with three plant species of concern still present at the site (SP510, SP514, and SP569). A northern hardwood forest (NC598b) was identified at the site in 1991. At the time of the field visit, the site was under serious threat from development and draining of the land for a residential development (Emerald Lakes).  1991- Two good to excellent natural communities with 5 species of special concern; entire area should be protected through conservation easement or purchase.
3	Sullivan Trail (Lake Naomi Shrub Swamps) UPDATE	Pocono Pines	1999- A good population of Pennsylvania Rare shrub (SP528b) and a marginal population of a PA Endangered shrub (SP528a) were revisited at this site in 1997. Deer browse, trash dumping, an abundance of foot paths, and development are potential threats to this bog community. More surveys are needed when the shrubs are flowering in order to ascertain the population size.  1991- A marginal natural community with 4 species of special concern, including a PE shrub. Expansion of a nearby sand and gravel quarry or housing could seriously threaten these wetlands.

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3	Bloomer Swamp	Skytop	1991- A good quality Boreal Conifer Swamp with a small population of a G4S1, PE plant occurs here. Logging around the perimeter of the wetland poses an immediate threat. A conservation easement is recommended.
3	Bradys Swamp	Thornhurst	1991 – This site is an excellent quality Acidic Shrub Swamp natural community with 1 G5S3, PR plant and 1G5, S2 PT plant. The site is on state game lands. A forested buffer zone should be maintained.
3	Bender Swamp	Tobyhanna Sterling	1991- Excellent quality Acidic Shrub Swamp natural community and a population of a G5s3, PR plant. The site is protected as part of Tobyhanna State Park and newly acquired state game lands. Flooding by beaver and logging in the watershed are potential threats.
4	Wagners Bog UPDATE	Blakeslee	1999- This site is a conservation area owned by the Wagner Forest Park Home Owners Association. A poor population of a State Endangered shrub (SP539b) and a good population of a State Rare shrub (SP539a) were found still intact when revisited in 1997. Deer browse is the greatest threat to these two shrub species.  1991- Two good natural communities and 3 good populations of special concern species, including a PE shrub. Site is threatened by surrounding development; work to avoid impacts from pollutants.
4	Schoch Barren UPDATE	Blakeslee	1999- This site is located in the Delaware State Forest and State Game Lands No. 129. A Ridgetop Dwarf Tree Forest Natural Community still exists at the site. The site should be protected from gypsy moth spraying. Long term maintenance of the barren habitat with fire may be required.  1991- A fair to good-quality Ridgetop Dwarf-Tree Forest occurs here, protected within SGL 129 and Delaware State Forest/ stage agencies need to coordinate protection actions.

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4	Arnott Fen UPDATE	Bushkill	<p>1999- The site was revisited in 1998. Five plant species (SP501a, b, c, and d and SP522) of concern were identified during the field visit. The condition of these plant populations ranges from good to poor. The overall condition of the shrub fen (NC526) is good to marginal. Invading shrubs and red maple saplings pose a threat to some of the species of concern at this site.</p> <p>1991- A fair quality community with 4 species of special concern: 1 PE animal, 2 PE plants, and 1 PR plant. The site is protected within the DWGNRA.</p>
4	SA511	Bushkill	1991- A globally rare, state-imperiled moth breeds within the confines of Recessa Falls Boy Scout Camp; need conservation agreement to manage for the species.
4	SA565, SA577	Pocono Pines	1991- Two excellent populations of G4S2 butterflies occur along a powerline; seek protection agreement with PA Power and Light Co.
4	Circle Bog	Pocono Pines	1991- Two fair to good quality natural communities; should be protected as part of the Long Pond Macrosite Preserve.
4	Stillwater Lake Swamps	Pocono Pines	1991- One wetland contains 3 good-quality populations of special concern plants, and another contains a fair-quality population of a PR shrub; problems may arise from pollution and blocked drainage; monitor the site.
4	Tamaque Lake Swamp UPDATE	Pocono Pines	<p>1999- This site was revisited in 1993. A good population of a State Rare shrub (SP638) still exists at the site. In addition, two new small populations of a State Rare plant (SP657) and a State Rare rush (SP658) were identified. The only apparent threat to these acidic shrub swamp/boreal conifer swamp communities and the species they contain is development of the watershed.</p> <p>1991- Two fair to good-quality natural communities occur here, with 1 good – quality population of a PR shrub.</p>
4	West Mountain Monroe NEW	Skytop	1991- An excellent population of a Pennsylvania Threatened plant (SP507) was recorded within the Skytop Resort area in June of 1991. No apparent threats to the population were identified. A management agreement with the Skytop Resort would ensure protection of this area.

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4	Big Marsh	Tobyhanna Thornhurst	1991- The site is a fair-quality Acidic Shrub Swamp with two plants of special concern, including 1 PE shrub. Protected within SGL127.
4	Eschenbaugh Swamp	Tobyhanna	1991- Good quality Boreal Conifer Swamp natural community with a fair-quality population of a PR Plant; within SGL127.
4	Huckleberry Marsh	Tobyhanna	1991- The site is a good-quality Acidic Shrub Swamp with a good population of a PR shrub; protected within SGL 217.
4	Laurel Drive Bog UPDATE	Tobyhanna	1999 - This site was revisited in August of 1991. The population of a plant species (SP507) of concern is still present and appears to be healthy. This area was mined in the past. Current threats include beaver activity.  1991 - Fair Glacial Bog with 1 PE plant and 1 PR plant; possibly threatened by surrounding development; protect as part of Steamtown Excursion Railroad corridor.
4	Pond Swap	Tobyhanna	1991- Good example of an Acidic Shrub Swamp with an excellent population of a PR shrub and a fair population of a TU plant; protected within SGL 127.
5	Pimple Hill Barren NEW	Blakeslee	1999- A poor quality population of a shrub species of concern was found at this site in 1998 along edge habitat between a conifer plantation and a heath barren. Additional surveys of this area and the adjacent heath barren are recommended when the shrubs are flowering.
5	SP508	Blakeslee	1991- Poor population of a PR shrub in a disturbed bog; maintain or improve current habitat conditions.
5	SP511, SA569	Blakeslee Pocono Pines	1991- An excellent population of a PR rush and a pair of osprey reside at lakeside; minimize development in area of plant and in vicinity of nesting pair.
5	Dutch Hill - William Price Nursery UPDATE (continued next page)	Buck Hill Falls	1999- An individual male of an animal species of concern (SP538) was photographed in the Dutch Hill area during 1992. This species is known to den nearby. Because the home range of this animal varies (e.g., 1/2 to 20 square miles), habitat development is a threat. (continued next page)

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5	Dutch Hill - William Price Nursery UPDATE (continued)	Buck Hill Falls	(continued) 1991 – This site was included as a locally significant area in the original NAI report. It is noted for the largest display of native rhododendrons in Barrett Township.
5	NC526	Buck Hill Falls	1991- Old-growth Northern Conifer Forest; owners seeking easement.
5	NC531,NC532, NC533	Buck Hill Falls	1991- Three High-gradient Clearwater creek communities and Exceptional Value streams; restrict logging and development within watersheds.
5	NC534	Buck Hill Falls	1991- A fair-quality Boreal Conifer Swamp natural community; limit future logging within the watershed and provide adequate buffer zone.
5	SP515	Bushkill	1991- A fair population of a PR plant near development; seek agreement with landowner to protect site.
5	Shawnee Fen NEW	Bushkill	1999- A small, poor population of a Pennsylvania Threatened plant (SP539) was found growing in a mossy, open area at this site in 1993. Threats to the plant species include changes in hydrology (e.g., drainage ditches), beaver activity, and competition /succession. Additional surveys are recommended.
5	SP508, SP502	Bushkill Flatbrookville	1991- Excellent population of PR wildflower growing in limestone rock crevices along Delaware River, no known threats.
5	Turn Farm Woods NEW	Bushkill	1999- The site is part of the Delaware Water Gap National Recreation Area. A good population of a plant species (SP558) of concern was discovered here in 1997. Exotic species invasion appears to be the only threat at the site. Monitoring of the population is needed to determine the effects of these exotic plant species.
5	GE512, GE513	East Stroudsburg	1991- Significant geologic features.
5	Laurel Run Road Site NEW	East Stroudsburg Skytop	1999- Two colonies of an animal species of concern (SA517) of concern were seen at this site in 1990. Three colonies of the same species were seen on red oak leaves in June of 1991. Additional surveys are needed to determine the size and extent of these populations.

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5	NC515	East Stroudsburg	1991- Fair quality Northern Conifer swamp in an area that is quickly developing; provide buffer zone for the entire small watershed.
5	Old Hogback Road Wetland NEW	Flatbrookville	1999- This site is part of the Delaware Water Gap National Recreation Area. It is a wetland area located within the Wallpack Bend Cliff site. A good population of a plant species of concern (SP507) was identified here in 1996. Beaver activity near the site appears to be changing the hydrology of the area. Periodic monitoring of the population status is recommended.
5	Lehigh River-RT 115 Bridge Site NEW	Hickory Run Pleasant View Summit	1999- A good population of a Pennsylvania Rare plant species (SP526) was found growing in an open area on a rocky substrate in the Lehigh River.
5	Aquashicola Creek NEW	Thornhurst Kunkletown	1999- A good to marginal population of a Pennsylvania tentatively undetermined plant species (SP511) was identified in an open portion of Aquashicola Creek on a pebble/cobble bottom. No obvious threats to this population were noted in the field.
5	Camelback Mountain UPDATE	Mount Pocono	1999- A new record of a small population of a Pennsylvania Rare shrub (SP547) was identified within Big Pocono State Park. Potential threats include deer and natural competition. This natural barren should be kept intact. The use of fire may be warranted.  1991- This is a good natural barrens community with Big Pocono State Park; fire management may be needed to maintain this community.
5	Halfmoon Lake	Pocono Pines	1991- Poor-quality Glacial Bog natural community with 1 fair-quality population of a TU plant; protect as part of Long Pond Macrosite Preserve.
5	Lake Naomi	Pocono Pines	1991- A PR submerged aquatic and a TU floating-leaved aquatic growing in muddy substrate at northeastern end of large, man-made lake.

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5	NC630, NC631	Pocono Pines Mount Pocono	1991- High-gradient Clearwater Creek and Exceptional Value stream natural communities which course off the Pocono Plateau; protect watersheds from development and logging.
5	Ramot Bog	Pocono Pines	1991- Fair Glacial Bog with 1 G4S3 TU species; protect with easement as part of Long Pond Macrosite Preserve.
5	SA529	Pohopoco Mountain	1991- Osprey nesting at edge of reservoir in protected watershed.
5	GE 543 (Delaware Water Gap) UPDATE	Portland Stroudsburg	1999- A good example of an Acidic Cliff Natural Community (NC505) was found above the Delaware River in 1997. The community is nearly vertical and is 25-50 acres in size. This site is protected as part of the Delaware Water Gap National Recreation Area.  1991- Significant geologic feature.
5	GE543	Portland Stroudsburg	1991- Significant geologic features.
5	Aquashicola Creek Wetland NEW	Saylorsburg Wind Gap	1999- A marginal population of a State Threatened plant (SP523) and a good to marginal population of another PA Threatened plant species (SP522) were mapped at this site in 1993. The vegetation is quite diverse, consisting of marshy areas and marshy areas interspersed with shrub thickets. Threats to the site include beaver activity and some grazing by cattle.
5	Buckwha Creek NEW	Saylorsburg	1999- A marginal population of a plant species of concern (SP521) was identified at the site in 1993. The main threat to the site appears to be succession/competition. Site management recommendations include mowing every other year.
5	Hamilton Square Swale NEW	Saylorsburg	Two plant species of concern were mapped here in 1993. SP519a is listed as PA Threatened and SP519b is a Tentatively Undetermined plant species. Threats to the site include competition from exotic species and succession and deer browse. Further disturbance (e.g., grazing by cattle) of the site should be avoided.

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5	GE511	Skytop	1991- Significant geologic feature.
5	NC515	Skytop	1991- A fair-quality Northern Conifer Swamp; limit logging and development within upper watershed.
5	NC517	Skytop	1991- Fair natural community; maintain vegetated buffer along stream; seek easement to discourage development in watershed.
5	SP519, SP520	Skytop	1991- Two TU wetland plants in vernal pond habitat; no known threats.
5	GE564	Stroudsburg	1991- Significant geologic features.
5	Hartman's Cave NEW	Stroudsburg	1999- This area was surveyed by the PA Game Commission in 1997. Ten individuals of SA505 were found in February. No special management recommendations were given by the PGC.
5	NC516, SP515	Stroudsburg	1991- Poor Acidic Rocky Summit natural community with a poor population of a G5S3, TU shrub that is suffering from disease; protected by DGNRA.
5	NC516, SP515 (Mount Minsi) UPDATE	Stroudsburg	1999- A small population of a state-rare shrub species (SP515) was once again found growing at this site in 1992. Threats to the species include trampling by hikers and deer browse.  1991- Poor quality Acidic Rocky Summit natural community with a poor quality population of a G5S3, Tu shrub species suffering from disease; protected by DWGNRA.
5	NC547	Stroudsburg Saylorsburg	1991- Marginal example of Mesic Central Forest; protect woodland and a buffer around it from disturbance.
5	Pomeroy Woods UPDATE	Stroudsburg Saylorsburg	This Mesic Central Forest Natural Community (NC547) was observed again in 1992. The quality of the site was assessed as marginal to poor. The biggest threat appears to be development around the site.

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5	SA559	Stroudsburg	1991- Fair site for a G4S2/S3 bat; former site for a federally-endangered bat; seek conservation easement and provide management.
5	SP510 (Mansfield Seep) UPDATE	Stroudsburg	1999- This area was revisited in April of 1991. A small population of a PA Endangered plant species (SP510) is still present at the site. Additional surveys are needed to determine the size of the population.  1991- Fair population of a PE plant; seek conservation easement to ensure protection.
5	SP519	Stroudsburg	1991- Excellent population of a G5S3, TU shrub; no threats and protected within DWGNRA.
5	Totts Gap (SP578, SP580) UPDATE	Stroudsburg	1999- This site was revisited in 1991. The PA Rare shrub species (SP578) was determined to be in poor condition.  1991- Poor populations of a PR tree and TU shrub on DWGNRA land near Totts Gap; maintain or improve forest openings.
5	SP515	Thornhurst	1991- A secure population of a PT sedge in Wagner Run.
5	SP516 (Anglewood Lake Swamp) UPDATE	Thornhurst Blakeslee	1999- This population of a State Rare rush (SP516) was found intact in 1992. The population was found growing in a man-made clearing along a property line. Maintaining this opening in the winter or early spring will help to keep out shrubs.  1991- Fair population of a PR plant near Angled Lake; work with landowner to maintain opening in swamp.
5	Scott Property Site NEW	Tobyhanna Thornhurst	1999- A poor to marginal Acidic Shrub Swamp Natural Community (NC584) was identified here in 1995. The site is dominated by leatherleaf, rhodora, sphagnum moss, and polytrichum mosses. Very pronounced mounds at the site suggest that this area was once logged. No obvious threats to the site or management needs were noted.

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5	SP536	Tobyhanna	1991- Good population of a G4S2, TU aquatic plant; herbicides may be main threat; contact landowners.
5	Barney's Lake Swamp NEW	Tobyhanna	1999- A marginal to good population of a PA Rare plant species (SP578) was mapped at the site in 1993. No threats to the species were apparent during the field visit. No special management was recommended.
5	East Branch Shrub Swamp NEW	Tobyhanna	1999- An excellent population of a PA Threatened shrub (SP573) was mapped at the site in 1991. Threats to the site include powerline right-of-way maintenance and beaver activity.
5	Hummler Run NEW	Tobyhanna	1999- An animal species of concern (SA576) was found in Hummler Run in 1993. Additional surveys are needed to determine the size of the population. No threats or management recommendations were noted.
5	NC545, SA517	Tobyhanna	1991- Good site for G5S3 mammal within SGL 127; protect creek area from logging.
5	NC546	Tobyhanna	1991- Exceptional Value stream; watershed should be protected from development and logging.
5	NC557	Tobyhanna	1991- Fair quality Glacial Bog on SGL 127; encroachment from nearby private homes; work with homeowners to prevent pollution of wetland.
5	NC562, SP563	Tobyhanna Thornhurst	1991- Fair population of a PR plant in a fair-quality Boreal Conifer Swamp within SGL 127; recent logging is a threat to this plant, which requires cool, shady sites.
5	NC565, SP566	Tobyhanna	1991- Fair-quality Acidic Shrub Swamp and fair population of a PR plant within Tobyhanna State Park.
5	NC570, SP569	Tobyhanna	1991- Fair-quality Acidic Shrub Swamp with 1 good population of a PR plant; Maintain adequate buffer between swamp and development to the north.

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5	Pocono Lake North NEW	Tobyhanna Thornhurst	1999- This site is on State Game Lands #127. A marginal to poor population of a PA Rare plant species (SP577) was found at the site in 1993. No special management recommendations were noted.
5	SP521	Tobyhanna	1991- Good population of a PR aquatic plant in a state park. Lake; possible threat from herbicides used to control aquatic plants.
5	SP521 (Powder Smoke Ridge Wetlands) UPDATE/NEW	Tobyhanna	1999- This site was revisited in 1993. One new record of a animal species (SA580) of concern and two plant species of concern (SP 515 and SP581) were recorded in nearby wetlands, and a new site map is provided with the Tobyhanna map table. More surveys are needed to determine the size and quality of SA580. No obvious threats to the plant species were observed. No special site management is needed.  1991- Good population of a PR aquatic plant in state park lake; possible threat from herbicides used to control aquatic plants.
5	SP529	Tobyhanna	1991- Good population of a PR aquatic plant in a small pond within SGL 127; herbicides should not be used in or near pond.
5	SP548, SA571	Tobyhanna	1991- Breeding site for PE bird and also fair-quality population of PR plant; protected within state park and army depot.
5	SP548, SA571, SP579 (Oakes Swamp) UPDATE	Tobyhanna	1999- In 1993, a marginal population of a PA Rare shrub (PA548) species was revisited. A new record of a State Threatened plant (SP579) was also identified at the site. Beaver activity and flooding associated with the construction of a highway were threatening the site at the time of the visit.  1991- Breeding site for PE bird and also fair-quality population of a PR plant; protected within state park and army depot.
5	SP564	Tobyhanna	1991- Poor population of a PR shrub along Gouldsboro Lake shore; maintain habitat and protect as part of Steamtown Excursion Railroad.

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5	Warnertown Wetlands NEW	Tobyhanna	1999- Four marginal to poor populations of plant species of concern (SP516, and SP520a,b,c) were identified in this area during 1991 and 1992. This site is a large clearing in which several sources of Tobyhanna Creek join together. The clearing was probably logged several years ago and the forest has never returned. The area consists of several habitat types including marshes, bogs, shrub thickets, and beaver ponds. No obvious threats to the plants were observed. The site should be kept in its present state.
5	SP501 (Aquashicola Creek Shrub Swamp) UPDATE	Wind Gap	<p>1999- A plant species (SP501a) of special concern, which was identified in 1982, was revisited in 1993. This poor to moderate population is still present in the pipeline right-of-way. A new record of a State Threatened plant (SP501b) was also identified in the pipeline right-of-way. Periodic spraying in the right-of-way may be preventing these populations from spreading further. Occasional mowing may actually benefit these species and is preferred to spraying as a method of keeping the right-of-way open.</p> <p>1991- Poor population of a PE plant; seek agreement with pipeline company to protect and manage site.</p>

<sup>1</sup> Sites are ranked from 1 to 5 with 1 being the highest priority sites for protection based on state or national significance, and 5 indicating the lowest priority for protection. Ranks take into account potential threats, management needs, and existing protection. Sites of similar rank are listed alphabetically by quadrangle.

<sup>2</sup> See Appendix F of the original NAI for an explanation of Global and State vulnerability ranks.