

Department of Environmental Conservation

GRASS RIVER WILD FOREST

Proposed Final Unit Management Plan

River Area Management Plans

for the

Middle Branch Grass River

and

South Branch Grass River

NYS DEC, REGION 6, DIVISION OF LANDS AND FORESTS

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Preface

The Grass River Unit Management Plan has been developed pursuant to, and is consistent with, relevant provisions of the New York State Constitution, the Environmental Conservation law (ECL), the Executive Law, the Adirondack Park State Land Master Plan ("APSLMP"), Department of Environmental Conservation ("Department") rules and regulations, Department policies and procedures and the State Environmental Quality and Review Act.

The State land which is the subject of this Unit Management Plan (UMP) is Forest Preserve lands protected by Article XIV, Section 1 of the New York State Constitution. This Constitutional provision, which became effective on January 1, 1895 provides in relevant part:

The lands of the state, now owned or hereafter acquired, constituting the Forest Preserve as now fixed by law, shall be forever kept as wild forest lands. They shall not be leased, sold or exchanged, or be taken by any corporation, public or private, or shall the timber thereon be sold, removed or destroyed.

ECL §3-0301(1)(d) and 9-0105(1) provide the Department with jurisdiction to manage Forest Preserve lands, including the Grass River Unit.

The APSLMP was initially adopted in 1972 by the Adirondack Park Agency ("APA"), with advice from and in consultation with the Department, pursuant to Executive Law §807, now recodified as Executive Law §816. The APSLMP provides the overall general framework for the development and management of State lands in the Adirondack Park, including those State lands which are the subject of this UMP.

Specifically, the APSLMP states that:

..... the legislature has established a two-tiered structure regarding state lands in the Adirondack Park. The Agency is responsible for long range planning and the establishment of basic policy for state lands in the Park, in consultation with the Department of Environmental Conservation. Via the APSLMP, the Agency has the authority to establish general guidelines and criteria for the management of state lands, subject, of course, to the approval of the Governor. On the other hand, the Department of Environmental Conservation and other state agencies with respect to the more modest acreage of land under their jurisdictions, have responsibility for the administration and management of these lands in compliance with the guidelines and criteria laid down by the APSLMP.

The APSLMP places State land within the Adirondack Park into the following classifications: Wilderness, Primitive, Canoe, Wild Forest, Intensive Use, Historic, State Administrative, Wild, Scenic and Recreational Rivers, and Travel Corridors, and sets forth management guidelines for the lands falling within each major classification. The APSLMP classifies the lands which are the subject of this UMP as part of the Grass River Unit.

The APSLMP sets forth Guidelines for such matters as: structures and improvements; ranger stations; the use of motor vehicles, motorized equipment and aircraft; roads, jeep trails and state truck trails; flora and fauna; recreation use and overuse; boundary structures and improvements and boundary markings.

Executive Law §816 requires the Department to develop, in consultation with the APA, individual UMPs for each unit of land under the Department's jurisdiction which is classified in one of the nine classifications set forth in the APSLMP. The UMPs must conform to the guidelines and criteria set forth in the APSLMP. Thus, UMPs implement and apply the APSLMPs general guidelines for particular areas of land within the Adirondack Park.

Executive Law §816(1) provides in part that "until amended, the APSLMP for management of state lands and the individual management plans shall guide the development and management of state lands in the Adirondack Park." Thus, the APSLMP and the UMPs have the force of law in guiding Department actions.

This Plan also serves as a River Area Management Plan in accordance with the WSRRS Act (title 27 of Article 15 of the Environmental Conservation Law, and its implementing regulations found in Part 666. of Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR.) River area management plans are developed by the Department of Environmental Conservation for river areas designated as Wild, Scenic or Recreational to recommend specific actions to protect and enhance all river corridor resources.

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I. Introduction

A. Planning Area Overview

The Grass River Wild Forest (GRWF) Unit Management Plan encompasses approximately 14,000 acres of forest preserve lands in several parcels in an area bounded on the east by State Highway (SH) 56, on the south by SH 3 and the Oswegatchie River, and the west and north by the Adirondack Park boundary. Most of the lands within the unit are part of the Grass River watershed, thus the name for the overall unit.

This Wild Forest unit is part of a larger management unit, the Grass River Management Unit (GRMU), located in the northwestern corner of the Adirondack Park. It includes the approximately 13,000 acres of Forest Preserve lands and about 107,000 acres of conservation easements located in the Towns of Clare, Clifton, Colton and Fine in St. Lawrence County.

1. Forest Preserve

There are total of 12 Forest Preserve parcels in this unit. Five larger parcels range from about 1300 acres to a little over 6000 acres. Seven smaller parcels range from about 5 acres to approximately 100 acres

2. Easements

There are four large easements on corporate owned lands in the unit; Tooley Pond, Long Pond, Seveys, and Grass River. There is one small family easement, the Silver Lake Easement north of Cranberry Lake. There is also an easement for a trail across the Roaring Brook Tract, a private property formerly owned by Lassiter Inc., which allows for a foot trail connecting the Church Pond and Leonard Pond Forest Preserve parcels. A small portion of the Emporium Easement north of SH 3, though technically in the Grass River unit, is considered in the Cranberry Lake unit since the bulk of the ownership is in that unit.

B. Unit Geographic Information

Much of the derivation of the names of geographic features of the unit is unclear. Many features are probably named after local individuals and families as hinted at through old census records and maps, but direct evidence is hard to come by. Examples of such features include: Lampson Falls, Church Pond and Clarksboro.

The official form or spelling of the name Grass River has, no "e" according to the Geographic Names Information System, which is the nation's official geographic names database, and is the required usage for all Federal agencies and their contractors.

C. General Location

The Grass River Unit is located in a lesser traveled corner of the Adirondack Park. Good access to the area affords many recreational opportunities, including but not limited to hiking, hunting, trapping and fishing. Popular natural resource destinations contained in the Unit are Lampson Falls, Stone Dam, Leonard Pond, the waterfalls on the Grass River along Tooley Pond Road, Tooley Pond itself and Tooley Pond Mountain.

D. Acreage and Access

All the parcels are in Macomb's Purchase, either Great Tract 2 (GT2) or Great Tract 3 (GT3).

Forest Preserve Wild Forest Parcels	Acreage	Date Acquired	Great Tract	Township	Lot (s)
Stone Dam	2,100	1902	GT2	7	2100 Acre Tract
Church Pond	1,912	1982,1950*	GT2	8	34, 35 & 36
Leonard Pond	2268	1882,1877	GT2	5	2,3&6
Cranberry Pond	100	1888	GT3	6	2&5
Lampson Falls	1,313	1950-1984	GT3	6	25
Town Fine Parcels	51	1900 & 1987	GT3	9	11
Middle Branch	34	1990	GT3	6	15
Tooley Pond	6,141	1999	GT3	10	West Half & SE Quarter
Grass River RR	31	1995, 2001	GT2	4 & 5	7, 8 & Brodie Tract
Grass River Parcel	42	1995, 2001	GT2	5	8
Total	13,998				
Easement Tracts	Acreage	Date Acquired	Great Tract	Township	Lot (s)
Tooley Pond	24,086	1999	GT3	10	West Half & SE Quarter

Long Pond	18,997	1999	GT2	7 & 8	Multiple
			GT3	6	Lot 15
Silver Lake	483	2001	GT2	4	Brodie Tract
Seveys	11,739	2007	GT2	5	Multiple
Grass River	51,950	2007	GT2	4, 5 & 7	Multiple
			GT3	10 & 6	Multiple
Lassiter ROW	12	1989	GT2	5&8	3, 35
Total	107,267				

1. Forest Preserve Parcels

Stone Dam

The 2,100 acre Stone Dam parcel is situated near the center of the unit. The Middle Branch of the Grass River crosses the southwest corner of the parcel. The north and east sides of the parcel are adjacent to the Long Pond CE, and the west and south sides are adjacent to the Grass River CE. The Stone Dam parcel can be accessed from the west via the Dean Road and the haul road on Grass River easement, or from the east via the Long Pond CE tract.

Church Pond

The Church Pond parcel is on the eastern side of the unit, near SH 56. It is a rectangular shape, with the long dimension oriented east to west, containing a little less than 2000 acres. An easement for a ten foot wide foot trail, from SH 56 to the parcel, was acquired in 1950 from Hamilton Ferry. The trail, on the west side of SH 56, crosses wetlands in Fox Marsh, and is quite wet and boggy. Due to these conditions it has been abandoned. A new trail to Church Pond will be required to access this parcel.

Leonard Pond

The Leonard Pond parcel is about 1750 acres on the eastern side of the unit, north of Seveys Corner. It is bounded on the east by State Highway 56, on the west by the Seveys CE, and on the north and south by private parcels. The rest of this parcel extends across State Highway 56 to the Raquette River and is part of the Raquette River Wild Forest.

There is an inholding of private land that extends westward from State Highway 56 to the southeastern shore of Leonard Pond, where there are several camps. Less than one quarter of the shore line is privately owned.

Cranberry Pond

The 100 acre Cranberry Pond parcel is located at the center of the northern section of the unit, and is completely surrounded by the Grass River CE. The White Road, (a seasonal town road) crosses the parcel.

Lampson Falls

The Lampson Falls parcel contains roughly 1300 acres in the northwest corner of the unit. It abuts the Downerville State Forest and is near the Degrasse State Forest. The Grass River is the dominant feature, most notably Lampson Falls on the South Branch. Harper's Falls on the North Branch is also a well known feature. Both locations are popular with public users.

Middle Branch

The Middle Branch parcel is approximately 34 acres and located just north of the Dean Road on the west side of County Route 27 and provides access to the Middle Branch of the Grass River upstream of Lampson Falls. A short canoe carry leads to a launch site. Its west boundary abuts the Adirondack Park Blue Line and Degrasse State Forest, while its north and south boundaries are adjacent to private lands.

Town of Fine Parcels

There are three small parcels in the southwest section of the unit that are separated from each other and isolated from any other Forest Preserve Land.

East of the hamlet of Fine is a thirty acre parcel adjacent to County Route 27. Its use is limited because of its size and location. There is a utility line running along the portion of the property adjacent to Co. Rt. 27, and there are no signs indicating it is Forest Preserve lands. This parcel needs to be surveyed.

Two very small pieces in the north part of the town need to be surveyed and have the boundaries painted and posted. One parcel is about five acres and the other about fifteen.

Grass River Railroad

The Grass River Railroad parcel is approximately 100 acres, consisting of a strip of land 66 feet wide and about 12 miles long. It extends from just west of the hamlet of Conifer northwest across the Massawepie Mire and then across SH 3 into this unit and nearly to Silver Lake. Approximately 3.2 miles or roughly 22 acres of the rail road parcel are in this unit. The Grass River Railroad parcel crosses the South Branch of the Grass River three times as it winds from Conifer to Cranberry Lake, making one crossing on this unit, but the bridge is gone at that location. The Grass River Railroad parcel needs to be surveyed before the boundary lines can be painted.

The Grass River Parcel is connected to the old rail bed adjacent to the north side of SH 3, which contains about 41 acres.

Tooley Pond

This six thousand acre parcel is a ½ to 1 mile wide strip of land along the South Branch of the Grass River. The Tooley Pond Road forms the boundary in three sections. The Tooley Pond CE is also adjacent. A sixteen mile section of the South Branch of the Grass River meanders within this parcel, and includes seven major waterfalls: Copper Rock Falls, Rainbow Falls, Bulkhead Falls, Flat Rock Falls, Twin Falls, Sinclair Falls, and Basford Falls.

Several short, informal trails lead from the Tooley Pond Road to the river and there is a marked loop trail that goes to the top of Tooley Pond Mountain. Use of the trails is increasing as the area becomes better known.

Canoeing conditions range from flat water to Class V falls. Paul Jamieson recommends in <u>Adirondack Canoe Waters: North Flow</u> that intermediate to advanced skills are most appropriate for kayak or canoe users. Scouting is often required to determine safe courses to run rapids or choose to carry around. May and early June, when water levels are high, is the best time for trips. Stretches of the river can be nearly impassable during the drier part of summer.

2. Conservation Easement Tracts

These conservation easement tracts either have recreation management plans (RMP), or have Interim Recreation Plans (IRMP) completed, or RMPs in the works, some of which may be completed before the UMP for Grass River Wild Forest is done. Either the IRMP or the completed RMP is referenced in the appendices. A brief description of these tracts is included here because they are so integral to connections between the Grass River Wild Forest tracts, and there will be trail connections proposed between the fee and easement tracts in the UMP and the RMPs. In addition, these areas will be referenced, as appropriate, as plans for the Forest Preserve lands are discussed in this UMP, and will be shown on maps of the area so the relationship between the Forest Preserve and easement lands is clear.

Grass River

The Grass River Conservation Easement is approximately 51,000 acres. This easement allows public access to these lands for: snowmobiling, hiking, bicycling and other non-motorized activities on designated routes or trails, and fishing, canoeing/kayaking and trapping on and along the North and Middle Branches of the Grass River as well as some other water bodies, motorized use on designated roads, and camping at designated locations. For additional information, visit the following web pages:

Grass River Conservation Easement – General Information

http://www.dec.ny.gov/lands/92053.html

Grass River Conservation Easement – Draft Recreation Management Plan

http://www.dec.ny.gov/lands/107672.html

Tooley Pond

This tract is roughly 24,000 acres, was formerly owned by Champion International but is now owned by Molpus Adirondack LLC (Molpus). It is in the western part of the unit, and essentially surrounds the Tooley Pond Forest Preserve parcel, which splits this easement into three pieces. The defining geographic feature of the Tooley Pond tract is the meandering 16 mile stretch of the South Branch of the Grass River. Secondary roads connect to this tract from the Tooley Pond Road to provide further access.

This tract is open for all public recreational uses. This CE was amended in 2012 to allow lease camps to remain, and allow public hunting year-round starting in 2012. Current public motor vehicle access is over the Spruce Mountain and Allen Pond Roads, and the town maintained Tooley Pond Road. There's also a spur road from the Lake George Road that leads to a small parking area. Additional roads may be opened to the public, as discussed later in this UMP. There are several snowmobile trails, mostly on logging roads. The many logging roads are open for non-motorized use. For additional information, visit the following web pages:

Tooley Pond Conservation Easement – General Information

http://www.dec.ny.gov/lands/8084.html

Tooley Pond Tract Conservation Easement – Draft Recreation Management Plan

http://www.dec.ny.gov/lands/107674.html

Long Pond

Situated in the northeast section of the unit is the Long Pond CE, containing approximately 19,000 acres. Public access by motor vehicle is by the main east-west haul road that extends from SH 56 through the tract nearly to the Stone Dam Forest Preserve parcel. Many secondary roads connect to this main haul road.

This tract is open for most public recreation uses including hunting. Roughly 40 miles of road and trails are open for public motor vehicle and/or ATV use, and there are five accessible primitive tent sites. Several miles of snowmobile trails cross the parcel. About four miles of the upper end of the North Branch of the Grass River is on this tract.

The generally low water levels combined with many boulders in the channel make it unattractive for canoeing or kayaking most of the year. For additional information, visit the following web page:

Long Pond Conservation Easement – General Information

http://www.dec.ny.gov/lands/39883.html

Seveys

The Seveys tract is located in the southeast corner of the GRMU, and includes about 11,739 acres. There is limited public recreational access, snowmobile trails being the primary recreation use allowed, along with an access corridor to the Raquette River east of SH 56, which is part of the Raquette-Boreal Management Unit. For additional information, visit the following web page:

Seveys Conservation Easement – General Information

http://www.dec.ny.gov/lands/96101.html

Silver Lake

Silver Lake CE is on about 500 acres in the southwest part of the unit, near Cranberry Lake. The state acquired the easement primarily to obtain a route for a public snowmobile trail. For additional information, visit the following web pages:

Silver Lake Conservation Easement – General Information

http://www.dec.ny.gov/lands/41156.html

Lassiter

A 50' wide easement was acquired to provide a connection between the Leonard Pond and Church Pond Forest Preserve parcels on what is known as the Roaring Brook Tract, formerly owned by Lassiter Inc.

E. General Access

Public access to these lands is primarily from SH 56 and SH 3. Access to the Long Pond CE tract, and the Church Pond and Leonard Pond parcels is via SH 56. The Cranberry Pond, Middle Branch and Lampson Falls parcels have county and town roads that provide access. Both the Tooley Pond parcel and the Tooley Pond CE tract can be accessed via the Tooley Pond Road, a town road which follows the South Branch of the Grass River.

F. General History

Like most of the northwestern Adirondacks, the Tooley Pond parcel remained largely unexplored until the second half of the nineteenth century. The early history of the lands of which this unit is a part were concerned primarily with land speculation, from around the end of the Revolutionary War to the mid 1800's, when logging began in the area.

Relevant historical events that directly affected these lands are as follows:

1863	Clifton Iron Ore Company founded
1866	Clarksboro, on the South Branch of the Grass River, was founded and
	named after George C. Clark; iron furnace, sawmill and railroad to East
	DeKalb constructed
1868	Town of Clifton formed by act of State legislature
1870	Road from Clarksboro to Cranberry Lake constructed
1880	Town of Clare formed by act of State legislature
1906	New Bridge founded by Robert W. Higbie Co. as a logging and mill town
1912	Emporium Forestry Company, Conifer, NY established
1912	Grass River RR extended to Cranberry Lake from Conifer
1913	Tooley Pond Mountain Fire tower built
1915	Grass River RR chartered as a common carrier
1917	Emporium Forestry Company constructed a sawmill at Cranberry Lake
1925	St. Regis Paper Co. purchased land from Robert W. Higbie Co.
1927	Emporium Forestry Company closes the Cranberry Lake mill
1942	Hanna Ore Co. opens mine and builds railroad to Newtown Falls
1952	Clifton Mines closed
1971	Fire tower closed on Tooley Pond Mountain
1985	St. Regis Paper Co. and Champion International Corp. merge

1. Lampson Falls

Lampson Falls is one of the earliest developed sites in the planning area. Rogerson's map dated 1858 indicates a building at Lampson Falls labeled "Russell and Allen's Sawmill". Harper Falls is not labeled as such, but the words "water power" denotes the spot.

The various spellings of the name Lampson are used according to the map or document that the cited information is taken from. Lampson Falls were named for either John or Stephen Lampson, early residents.

The 1865 St. Lawrence Atlas labels a building at Lampson Falls "S. Mill and Shingle Mill" and a nearby building "J. S. Lamson." The "S. Mill" produced barrel staves for slack

cooperage. The Lampson Mill Road is shown to extend across the river above the falls and joined the present Backus Road leading to Russell. The deed for the state owned Malone Tract refers to this road as "the road leading from Palmerville to Lamson Mills".

In February 1900 Caroline Lamson conveyed the "Lampson Mill Property" with sawmill to Murray N. Ralph. Soon thereafter the mill closed down and the site was abandoned. The state acquired the land over the period from 1954-1984.

2. Tooley Pond Mountain Fire Tower

In 1913, a wooden fire tower was built on Tooley Pond Mountain, (elevation 1,782') in Clare. In 1919, a steel fire tower replaced the original wooden structure. In 1971, the DEC closed the tower, which was located on St. Regis Paper Company land.

Students from SUNY ESF Ranger School at Wanakena dismantled the fire tower. Over a twenty-year period Ranger School faculty, student volunteers, and alumni moved, restored and rebuilt the tower on Cathedral Rock, (elevation, 1,700'). Construction was completed in 2000.

Clare

The town of Clare was formed from the townships of Pierrepont and Clifton. It officially became a township in December, 1880. Clare, supposedly named for a County in Ireland, was once a busy community with a blacksmith shop, cheese factory, church, hotel, a post office, a barrel or stave factory at Lampson Falls, a tavern, stores, three schools, and many thriving farms.

In 1886 Clarksboro, near Twin Falls, was settled as a mining town, built for the Clifton Mining Co. which was incorporated as part of the Clifton Iron Co. In 1864 Myers Steel and Wire Co. was incorporated to operate a blast furnace and forges to manufacture steel from the mine's iron ore. A railroad was started in 1866 to run to East DeKalb. Later the line was ultimately extended to the Clifton Mines (Kudish, 1985). This railroad was made completely of wood except for strap iron nailed to the maple rails. Workers were paid \$1.25 a day. At that time about 700 people lived in Clarksboro, but by 1874 only 200 were left. Clarksboro contained an iron furnace and a water-powered sawmill. For much of its history, timber production was the primary use of the property. Two miles west, Dannemora Steel Mines started a mine but, abandoned it. In 1941 Hanna Coal and Ore Co., operated it until December 1951 when it closed the mines.

Newbridge (also spelled New Bridge), located where the Tooley Pond Road currently crosses the Grass River, was a lumbering settlement with 50 families, begun in 1906 when Milo Woodcock of Edwards brought in a portable saw mill and sawed lumber for the buildings. New Bridge was founded for employees of the Robert W. Higbie Lumber

Company, which connected Newbridge to Newton Falls with a railroad that operated until 1919 (this line was rebuilt and extended to the Clifton Mines site by Hanna Coal and Ore Co. in 1941). The mill became one of the largest around with an output of 3 to 4 million board feet a year.

II. Inventory, Use, and Capacity to Withstand Use

A. Natural Resources

1. Physical

a. Geology

The major geologic formation in the Grass River Unit is called the fall zone. This zone is a transition from the St. Lawrence River valley, known as the Grenville or Northwest lowlands, and the terraces of the Adirondack foothills. The fall zone is a belt, about 8-10 miles wide, parallel to and southeast of the Grenville lowlands. In St. Lawrence County, this belt lies between the Grenville lowlands and the Childwold terrace, but to the north and south the terrace is absent and the fall zone merges directly into the Adirondack mountain section. It is distinguished from the lowlands by a distinct increase in the slope of both the upland surfaces and the valleys. Because of the steepness, this belt is where waterfalls are concentrated and are sufficiently common to characterize the topography, although still waters are found here and falls occur in other topographic regions. The maximum relief generally ranges from 300 to 400 feet. The decline of the major river valleys within this belt averages about 60 feet per mile, whereas across the Grenville lowlands to the northwest the decline averages about 25 feet per mile, and across the Childwold terrace to the southeast only about 12-25 feet per mile. These figures are averages along straight lines parallel to the general direction of decline of the topography.

The predominant rock underlying the belt is granite gneiss. Metasedimentary rocks of the Grenville series are below that.

b. Soils

All soils are formed by the chemical and physical breakdown of parent materials combined with the addition of organic material. However, like most of the Adirondacks, the soil composition within the Grass River Wild Forest is vastly different from the bedrock underneath. Most are derived from glacial deposits that have been moved and deposited as glaciers advanced and retreated. Soils across the unit vary widely in degree of slope, depth to bedrock, stoniness and drainage. General meso-soil maps for the planning area are available from the Adirondack Park Agency. These depict broad soil associations relative to a particular landscape type. The maps portray soil associations as patterns of similar soils based on their properties and constituents. These are useful in the management of large forested areas and watersheds, but are not suitable for planning areas less than forty acres in size. For specific projects in small areas, such as the placement of trails, parking facilities, camping areas, etc., detailed on-site soil surveys may be required.

Soil names are usually reflective of their dominant characteristics followed by a list of minor components and limitations. For example, frequently observed soil series in the Grass River Wild Forest unit include:

• **Potsdam Series:** The Potsdam series consists of very deep, well drained soils on till plains. They are nearly level to steep soils formed in a water deposited mantel that overlies dense till. Permeability is moderate in the layers above the substratum and slow in the substratum. Slope ranges from 3 to 60 percent. Mean annual temperature is 44 degrees F, and mean annual precipitation is 40 inches.

<u>Drainage and Permeability:</u> Well drained. The potential for surface runoff is low to very high. Permeability is moderate in the layers above the substratum and slow in the substratum.

<u>Use and Vegetation:</u> Woodlots contain sugar maple, American beech, black ash, white ash, hophornbeam, eastern hemlock, red oak, and eastern white pine.

• **Tunbridge Series:** The Tunbridge series consists of moderately deep well drained soils on glaciated uplands. They formed in loamy glacial till. Permeability is moderate or moderately rapid. Slope ranges from 0 to 75 percent.

Drainage and Permeability: Well drained. Permeability is moderate or moderately rapid.

<u>Use and Vegetation:</u> Most areas are wooded. The common trees are American beech, white ash, yellow birch, paper birch, northern red oak, sugar maple, eastern white pine, hemlock, red spruce, white spruce, and balsam fir. A few areas have been cleared and are primarily used for hay and pasture. Some cleared areas are used for cultivated crops.

• **Dawson Series:** The Dawson series consists of very deep very poorly drained soils formed in herbaceous organic material 16 to 51 inches thick overlying sandy deposits in depressions on outwash plains, lake plains, ground moraines, end moraines and flood plains. Permeability is moderately slow to moderately rapid in the organic material and rapid in the sandy material. Slopes range from 0 to 2 percent.

<u>Use and Vegetation:</u> Very little commercial use is made of these soils, because of the extreme acidity, shallowness of the organic deposit, and the high water table. Tree vegetation is sparse with black cranberries, laurel, leatherleaf, sphagnum mosses, and blueberries.

• Adams Series: The Adams series consists of very deep, somewhat excessively drained soils formed in glacial-fluvial or glacio-lacustrine sand. They are found on outwash plains, deltas, lake plains, moraines, terraces, and eskers. Permeability is rapid or very rapid. Slope ranges from 0 to 70 percent.

<u>Drainage and Permeability:</u> Somewhat excessively drained. Runoff is slow to medium. Permeability is rapid or very rapid in the surface layer and upper part of the subsoil and very rapid in the lower part of the subsoil and substratum.

<u>Use and Vegetation:</u> Extensive areas are idle and support aspen, birch and pine seedlings or sweet fern, spirea, and brambles. Un-cleared areas support maple, beech, spruce, and pine. Farmed areas are used mainly for hay or pasture with limited acreage of corn and small grain.

c. Terrain/Topography

Detailed information on area topography can be found on the following USGS topographic maps.

Brothers PondTooley PondAlbert MarshStarkWest PierrepontCranberry LakeNewton FallsSouth EdwardsOswegatchieFineChildwoldDegrasse

Elevation ranges from over 1860' on Baldface and Little Blue Mountains, while Tooley Pond Mountain and Spruce Mountain are each over 1780'. The lowest elevation of about 720' is below Harper's Falls where the North Branch of the Grass River crosses the Park boundary. The major water features are the three branches of the Grass River, North, Middle and South. There are also some large flat water areas with marshes and meandering watercourses.

d. Water

Waters in the unit comprise portions of the Grass River and the Oswegatchie River watersheds, both part of the greater St. Lawrence River Drainage Basin. The main feature of the unit is the Grass River. The North, Middle and South branches each flow through one of the Forest Preserve parcels of the Grass River Wild Forest. The longest is the meandering sixteen mile stretch of the South Branch which bisects the Tooley

Pond parcel. Numerous tributaries flow into these branches where they flow thru Forest Preserve lands.

Water quality is generally satisfactory with low productivity and fertility typical to the area. Unlike the Five Ponds Wilderness Area located to the south of this tract, acidification does not appear to be a limiting factor.

A total of 214 ponded waters have been identified within the planning area boundaries. These waters all lie in the St. Lawrence watershed, primarily in the Grass and Oswegatchie rivers watersheds. A few waters are in the Raquette River watershed. Most of these are small and on private land. There are 67 waters on Forest Preserve or conservation easement lands in the unit, of which 14 are named in the NYS DEC or ALSC databases.

- **Church Pond:** The North Branch of the Grass River originates from Church Pond and the more than 300 acres associated with Fox Marsh.
- **Cranberry Pond:** This small pond, tributary to the North Branch of the Grass, is surrounded by northern hardwood deciduous forest and marshlands. The Grass River easement tract completely surrounds the small Forest Preserve parcel that is adjacent to the pond.
- Leonard Pond: The Leonard Pond parcel is the only part of the unit that has waterbodies that drain into the Raquette River system.
- **Tooley Pond:** This forty-six acre pond is located off the Tooley Pond Road and is a popular bass fishing site. Recent upgrades to the site include: car-top boat launch waterway access and parking space, picnic area, primitive tent site and universal access privy.
- **Stone Dam:** The Middle Branch of the Grass River cuts across the southwest corner of this parcel, where the "splash dam" was located. The river is classified "Scenic" under the NYS Wild, Scenic and Recreational Rivers Act, (WS&RRA).
- **Grass River:** The three branches of the Grass River are the main water resources in the area, and each touches some of the Forest Preserve lands. Waterfalls are numerous and the largest is Lampson Falls below the confluence of the South and Middle Branches. The Tooley Pond Forest Preserve parcel includes a series of falls on the South Branch of the Grass. Many of these falls were harnessed for their water power in the past, but these facilities are no longer in place. All three branches are classified Scenic Rivers under the WS&RRA, except for a portion of the South Branch. The South Branch, from the confluence with the outlet of Allen Pond to the western edge of the Tooley Pond

parcel and beyond to the Adirondack Park boundary is designated as Recreational. The Main Branch, from the confluence of the South and Middle Branches, is classified as a Study River, which includes the portion that Lampson Falls is on.

e. Wetlands

Wetlands provide many benefits which include:

- *Flood and Storm Water Control*: They absorb, store, and slow down the movement of rain and snow melt water, minimizing flooding and stabilizing water flow.
- Surface and Groundwater Protection: Wetlands often serve as groundwater discharge sites, maintaining base flow in streams and rivers and supporting ponds and lakes.
- *Erosion Control*: Wetlands slow water velocity and filter sediments, protecting reservoirs and navigational channels. They also buffer shorelines and agricultural soils from water erosion.
- *Pollution Treatment and Nutrient Cycling*: Wetlands cleanse water by filtering out natural and many man-made pollutants. Organic materials are also broken down and recycled back into the environment where they support the food chain.
- *Fish and Wildlife Habitat*: Wetlands are one of the most productive habitats for feeding, nesting, spawning, resting and cover for fish and wildlife. Wildlife benefit from the diversity of plants and micro-climates that result from the edge effect caused by the light regime. Deer wintering yards are found in the shelter of conifer stands and depressions where wetlands also occur.
- *Public Enjoyment*: Wetlands provide areas for recreation, education and research.

The State Legislature passed the Freshwater Wetlands Act (FWA or Act) in 1975 with the intent to preserve, protect and conserve freshwater wetlands and their benefits, consistent with the general welfare and beneficial economic, social and agricultural development of the state. The DEC has prepared maps of freshwater wetlands throughout New York. These maps are available from the DEC, Town Clerk Offices, and online at http://www.dec.ny.gov/animals/38801.html.

See Appendix G for the Hydrology map.

f. Air Resources/Climate

Air Resources and Atmospheric Deposition

The effects of various activities on Grass River Unit air quality have not been sufficiently measured nor determined. Air quality and visibility in the unit appears to be good to excellent, rated Class II (moderately well controlled) by federal and state standards. However, the summits are often obscured by haze caused by air pollutants when many small diameter particles exist in the air. Mountain visibility is reduced considerably on high sulphate days. Air quality may be more affected by particulate matter blown in from outside sources rather than from activities within the unit.

The adverse effects of atmospheric deposition on the Adirondack environment has been documented by many researchers over the last two decades. While permanent monitoring sites have not been established in the Grass River Unit general observations of the effects of acidic deposition on the regional ecosystem are numerous and well documented.

Effects of Acidic Deposition on Forest Systems

At present, the mortality and decline of red spruce at high elevations in the Northeast and observed reductions in red spruce growth rates in the southern Appalachians are the only cases of significant forest damage in the United States for which there is strong scientific evidence that acid deposition is a primary cause (National Science and Technology Council Committee on Environment and Natural Resources, 1998). The following findings of the National Acid Precipitation Assessment Program (1998) provide a broad overview of the effects of acidic deposition on the forests of the Adirondacks. The interaction of acid deposition with natural stress factors has adverse effects on certain forest ecosystems. These effects include:

- Increased mortality of red spruce in the mountains of the Northeast. This
 mortality is due in part to exposure to acid cloud water, which has reduced the
 cold tolerance of these red spruce, resulting in frequent winter injury and loss of
 foliage;
- Reduced growth and/or vitality of red spruce across the high-elevation portion of its range;
- Decreased supplies of certain nutrients in soils to levels at or below those required for healthy growth.

Nitrogen deposition is now recognized with sulfur as an important contributor to effects on forests in some ecosystems, which occurs through direct impacts via increased foliar susceptibility to winter damage, foliar leaching, leaching of soil nutrients, elevation of soil aluminum levels, and/or creation of nutrient imbalances. Excessive amounts of nitrogen cause negative impacts on soil chemistry similar to those caused by sulfur deposition in certain sensitive high-elevation ecosystems. It is also a potential contributor to adverse impacts in some low-elevation forests.

Sensitive receptors

High-elevation spruce-fir ecosystems in the eastern United States epitomize sensitive soil systems. Base cation stores are generally very low, and soils are near or past their capacity to retain more sulfur or nitrogen. Deposited sulfur and nitrogen, therefore, pass directly into soil water, which leaches soil aluminum and minimal amounts of calcium, magnesium, and other base cations out of the root zone. The low availability of these base cation nutrients, coupled with the high levels of aluminum that interfere with roots taking up these nutrients can result in plants not having sufficient nutrients to maintain good growth and health.

Sugar maple decline has been studied in the eastern United States since the 1950s. Recently, studies suggest that the loss of crown vigor and incidence of tree death is related to the low supply of calcium and magnesium to soil and foliage (Driscoll et al., 2002). Exposure to acidic clouds and acid deposition has reduced the cold tolerance of red spruce in the Northeast, resulting in frequent winter injury of current-year foliage during the period 1960-1985. Repeated loss of foliage due to winter injury has caused crown deterioration and contributed to high levels of red spruce mortality in the Adirondack Mountains of New York, the Green Mountains of Vermont, and the White Mountains of New Hampshire.

Acid deposition has contributed to a regional decline in the availability of soil calcium and other base cations in high-elevation and mid-elevation spruce-fir forests of New York and New England and the southern Appalachians. The high-elevation spruce-fir forest of the Adirondacks and Northern New England are identified as one four areas nationwide with a sensitive ecosystem and subject to high deposition rates.

Effects of Acidic Deposition on Hydrology Systems

New York's Adirondack Park is one of the most sensitive areas in the United States affected by acidic deposition. The Park consists of over 6 million acres of forest, lakes, streams and mountains interspersed with dozens of small communities, and a large seasonal population fluctuation. However, due to its geography and geology, it is one of the most sensitive regions in the United States to acidic deposition and has been impacted to such an extent that significant native fish populations have been lost and signature high elevation forests have been damaged.

There are two types of acidification which affect lakes and streams. One is a year-round condition when a lake is acidic all year long, referred to as chronically or critically acidic. The other is seasonal or episodic acidification associated with spring melt and/or rain

storm events. A lake is considered insensitive when it is not acidified during any time of the year. Lakes with acid-neutralizing capability (ANC) values below 0 µeg/L are chronically acidic. Lakes with ANC values between 0 and 50 µeg/L are considered susceptible to episodic acidification; ANC may decrease below 0 µeg/L during high-flow conditions in these lakes. Lakes with ANC values greater than 50 µeg/L are considered relatively insensitive to inputs of acidic deposition (Driscoll et al., 2001). Watersheds which experience episodic acidification are very common in the Adirondack region. A 1995 EPA Report to Congress estimated that 70% of the target population lakes are at risk of episodic acidification at least once during the year. Additionally, EPA reported that 19% of these lakes were acidic in 1984, based on their surveys of waters larger than 10 acres. A 1990 report by the ALSC (which included lakes of less than 10 acres in an extensive survey of 1,469 lakes in the Adirondacks, found that 24% of Adirondack lakes had summer pH values below 5.0 a level of critical concern to biota. Moreover, approximately half of the waters in the Adirondacks surveyed had ANC values below 50 making them susceptible to episodes of acidification. Confirming that, EPA's Environmental Monitoring and Assessment Program (EMAP) sampling in 1991-1994 revealed that 41% of the Adirondack lakes were chronically acidic or susceptible to episodic acidification, demonstrating that a high percentage of watersheds in the Adirondacks are unable to neutralize current levels of acid rain.

In addition to sensitive lakes, the Adirondack region includes thousands of miles of streams and rivers which are also sensitive to acidic deposition. While it is difficult to quantify the impact, it is certain is that there are large numbers of Adirondack brooks that will not support native Adirondack brook trout. Over half of these Adirondack streams and rivers may be acidic during spring snowmelt, when high aluminum concentrations and toxic water conditions adversely impact aquatic life. This adverse effect will continue unless further limits are placed on emissions of acid rain precursors.

Permanent LTM monitoring sites in and around this unit

Summaries of those data can be found at (http://www.adirondacklakessurvey.org) - see Adirondack Lake Survey Pond Information. The Adirondack Long-Term Monitoring (LTM) program managed by the ALSC has been sampling chemistry in 52 lakes across the Adirondack Park on a monthly basis. There are no long term monitoring sites within the unit. Data gathered from monitored waterbodies near the unit, such as McCuen Pond, applies to the unit since the conditions are similar physically and chemically.

Climate

Climate conditions vary across the unit. Factors such as slope, aspect, elevation, precipitation, prevailing wind and barriers to air current, and proximity to waterbodies effect variations. Day time temperatures rarely exceed 90 degrees and nights are cool. Frosts can occur any month of the year and have been recorded in July and August.

Winters are long and are accompanied by high winds. Temperatures can vary 20-30 degrees during a day. Frost free days typically range from 90-120 days.

Precipitation is between 40 to 60 inches per year. Snowfall ranges from 100-150 inches per year. Prevailing winds are from the west. South facing slopes are thawed early and dried quickly by direct sunlight. North facing slopes are generally wetter and retain snow and soil moisture longer. The number of days with an inch or more of snow ranges from 120 to 140 days.

2. Biological

a. Vegetation

The vegetation is typical of the Northern Adirondack sub-region. The topography is irregular, ranging from flat or gently sloping to occasionally rougher areas of rock outcroppings. Soils are low in fertility and are composed of sandy, acidic material derived from granitic rock. These soils can be fairly deep in the valleys, and are shallow and droughty on the slopes.

The forest conditions today are a result of the heavy logging and fire that occurred from 1875-1915. Originally the lands were covered with big pine and spruce. The forest composition today includes northern hardwood, mixed woods, and spruce-fir. Plantations are a minor component of the forest.

The recently acquired Tooley Pond Parcel was harvested lightly along the South Branch of the Grass River. The other parcels of Forests Preserve have been in state ownership for many years and the evidence of past cutting is diminishing.

All the forested lands within this unit have been modified, in various degrees, by the harvest of forest products and now provide a diverse pattern of plant succession within the unit. During the facilities inventory for this Wild Forest, the following Ecological Communities were noted (Edinger et al., 2002):

<u>Beech-Maple mesic forest</u>: a hardwood forest with sugar maple (*Acer saccharum*) and beech (*Fagus grandifolia*) codominant. This is a broadly defined community type with several regional and edaphic variants. These forests occur on moist, well-drained, usually acid soils. Common associates are yellow birch (*Betula alleghaniensis*), white ash (*Fraxinus americana*), eastern hop hornbeam (*Ostrya virginiana*), and red maple (*Acer rubrum*). There are relatively few shrubs and herbs.

Characteristic small trees or tall shrubs are: hobblebush (*Viburnum lantanoides*), American hornbeam *(Carpinus caroliniana)*, striped maple *(Acer*

pennsylvanicum), witch hazel (*Hamamelis virginiana*), and alternate-leaved dogwood (*Cornus alternifolia*).

Dominant groundlayer species are: star flower (*Trientalis borealis*), common wood-sorrel (*Oxalis montana*), Canada mayflower (*Maianthemum canadense*), painted trillium (*Trillium undulatum*), purple trillium (*T. erectum*), shining clubmoss (*Lycopodium lucidulum*) and intermediate wood fern (*Dryopteris intermedia*). Associated herbs include Christmas fern (*Polystichum acrostichoides*), jack-in-the-pulpit (*Arisaema triphyllum*) and false Solomon's seal (*Smilacina racemosa*). There are many spring ephemerals which bloom before the canopy trees leaf out. Typically there is also an abundance of tree seedlings, especially of sugar maple; beech and sugar maple saplings are often the most abundant "shrubs" and small trees. Hemlock (*Tsuga canadensis*) may be present at a low density. In the Adirondacks a few scattered stands of red spruce (*Picea rubens*) may also be present.

Characteristic birds include: American redstart (*Setophaga ruticilla*), red-eyed vireo (*Vireo olivaceus*), ovenbird (*Seiurus aurocapillus*), black-throated blue warbler (*Dendroica caerulescens*), least flycatcher (*Empidonax minmus*), Acadian flycatcher (*Empidonax virescens*), and red-bellied woodpecker (*Melanerpes carolinus*).

Within extensive areas of beech-maple mesic forest, there are often associated small patches of hemlock-northern hardwood forest in steep ravines and gullies where hemlock is locally dominant.

In association with the Beech-Maple mesic forest, the following common ecological communities are interspersed, mixing and blending with the main Beech-Maple mesic community.

• <u>Hemlock-northern hardwood forest</u>: a mixed forest that typically occurs on middle to lower slopes of ravines, on cool, mid-elevation slopes, and on moist, well-drained sites at the margins of swamps.

In any one stand, hemlock is codominant with any one to three of the following: beech, sugar maple, red maple, black cherry (*Prunus serotina*), white pine (*Pinus strobus*), yellow birch, black birch (*Betula lenta*), red oak (*Quercus rubra*), and basswood (*Tilia americana*). The relative cover of hemlock is quite variable, ranging from nearly pure stands in some steep ravines to as little as 20% of the canopy cover. Striped maple is often prominent as a mid-story tree.

The shrublayer may be sparse; characteristic shrubs are hobblebush (*Viburnum lantanoides*), maple-leaf viburnum (*Viburnum acerifolium*), and raspberries

(*Rubus spp.*). In some ravines, especially in the southern part of the state, rosebay (*Rhododendron maximum*) forms a dense subcanopy or tall shrublayer. Canopy cover can be quite dense, resulting in low light intensities on the forest floor and hence a relatively sparse groundlayer.

Characteristic groundlayer plants are: Indian cucumber-root (*Medeola virginiana*), Canada mayflower, shining clubmoss, common wood fern (*Dryopteris intermedia*), mountain wood fern (*Dryopteris campyloptera*), Christmas fern, star flower, bellwort (*Uvularia sessilifolia*), common wood-sorrel, partridge berry (*Mitchella repens*), foamflower (*Tiarella cordifolia*), round-leaf violet (*Viola rotundifolia*), twisted stalk (*Streptopus roseus*), purple trillium, and the moss *Leucobryum glaucum*. In forests that have beech as a codominant, beech-drops (*Epifagus virginiana*) is a common herb.

Characteristic birds include wild turkey (*Meleagris gallopavo*), pileated woodpecker (*Dryocopus pileatus*), golden-crowned kinglet (*Regulus satrapa*), black-throated green warbler (*Dendroica virens*) and Acadian flycatcher.

This is a broadly defined and very widespread community, with many regional and edaphic variants. For example, in the Hudson Valley, hemlock is sometimes codominant with red oak; in the Adirondacks, yellow birch and sugar maple are sometimes codominant, with a relatively small number of hemlocks as well as a few red spruce. More data on the shrublayer and groundlayer composition are needed before these regional variants can be distinguished as separate types.

• <u>Spruce-northern hardwood forest:</u> a mixed forest that occurs on lower mountain slopes and upper margins of flats on glacial till, primarily in the Adirondack and Catskill mountains, and in the Tug Hill plateau. This is a broadly defined community with several regional and edaphic variants; it is one of the most common forest types in the Adirondacks.

Codominant trees are: red spruce, sugar maple, beech, yellow birch, and red maple, with scattered balsam fir (*Abies balsamea*). Striped maple and mountain maple (*Acer spicatum*) are common subcanopy trees.

Characteristic shrubs are: hobblebush, American fly honeysuckle (*Lonicera candensis*), and Canada yew (*Taxus canadensis*).

Characteristic groundlayer plants are: common wood-sorrel, common wood fern, shining clubmoss, wild sarsaparilla (*Aralia nudicaulis*), bluebeads (*Clintonia borealis*), goldthread (*Coptis trifolia*), bunchberry (*Cornus canadensis*), Canada mayflower, Indian cucumber-root (*Medeola virginiana*), and twisted stalk.

Characteristic birds include yellow-bellied flycatcher (*Empidonax flaviventris*), white-throated sparrow (*Zonotrichia albicollis*), golden-crowned kinglet, pileated woodpecker, and gray jay (*Perisoreus canadensis*).

 <u>Hemlock-hardwood swamp</u>: a mixed swamp that occurs on mineral soils and deep muck in depressions which receive groundwater discharge, typically in areas where the aquifer is a basic or acidic substrate. These swamps usually have a fairly closed canopy (70 to 90% cover), sparse shrublayer, and low species diversity.

The tree canopy is typically dominated by hemlock, and co-dominated by yellow birch, and red maple. Other less frequently occurring trees include white pine, black gum (*Nyssa sylvatica*), and green ash (*Fraxinus pennsylvanica*).

Characteristic shrubs include saplings of canopy trees plus highbush blueberry (Vaccinium corymbosum) often dominant, with great rhododendron (Rhododendron maximium) and sweet pepperbush (Clethria alnifolia) becoming more common in Lower Hudson Valley examples. Other less frequently occurring shrubs include various viburnums (Viburnum cassinoides, V. lentago, and V. lantanoides), winterberry (Ilex verticillata), and mountain holly (Nemopanthus mucronatus).

Characteristic herbs are cinnamon fern (*Osmunda cinnamomea*) and sensitive fern (*Onoclea sensibilis*). Groundcover may also be fairly sparse. Other less frequently occurring herbs include sedges (*Carex trisperma, C. folliculata, and C. bromoides*), goldthread (*Coptis trifolia*), Canada mayflower, mountain sorrel (*Oxalis montana*), foamflower, and sarsparilla.

This is a common and widespread swamp community. Some occurrences are very small (1 to 2 acres). Water levels in these swamps typically fluctuate seasonally: they may be flooded in spring and relatively dry by late summer.

• <u>Successional northern hardwood:</u> a hardwood or mixed forest that occurs on sites that have been cleared or otherwise disturbed.

Also noted in the Grass River Unit, but less prevalent, is the common successional northern hardwoods ecological community. The existence of these communities in the unit indicate that the area has been disturbed in more recent years, most likely with a timber harvest prior to New York State ownership.

Successional forests include forests that develop on sites that have been cleared (for farming, logging, etc.) or otherwise disturbed (by fire, ice scour, wind throw, flooding, etc.). Successional forests generally have the following characteristics:

1) dominated by light requiring, wind-dispersed species that are well-adapted to establishment following disturbance, 2) lack of reproduction of the canopy species, 3) have tree seedlings and saplings that are more shade-tolerant than the canopy species, 4) shrub layer and ground layer dominants may include many species characteristic of successional old fields, or they may include species that occurred on or near the site prior to disturbance, 5) have canopy trees with small diameter (generally less than 10 to 15 cm dbh), 6) have canopy trees of young age (generally less than about 25 to 50 years old), 7) have evidence of recent logging (e.g., presence of stumps and brush), and 8) have relatively low canopy height with poor tree diversity and poor development of multiple strata.

Characteristic trees and shrubs include any of the following: quaking aspen (*Populus tremuloides*), big-tooth aspen (*P. grandidentata*), balsam poplar (*P. balsamifera*), paper birch (*Betula papyrifera*), gray birch (*B. populifolia*), pin cherry (*Prunus pennsylvanica*), black cherry, red maple, and white pine, with lesser amounts of white ash, green ash, and American elm (*Ulmus americana*). Northern indicators include aspens, birches, and pin cherry. This is a broadly defined community and several seral and regional variants are known.

Characteristic birds include chestnut-sided warbler (*Dendroica pennsylvanica*), Nashville warbler (*Vermivora ruficapilla*) in young forests with aspen and birch seedlings, and yellow-bellied sapsucker (*Sphyrapicus varius*) in mature aspen forests.

Legal Protection for Rare Species in New York State

Listing on New York's Endangered and Threatened species list regulates animal protection under New York State's Environmental Conservation Law. Species listed as Special Concern usually have no legal protection unless they are among those covered under a separate piece of federal or state legislation. However, listings of Special Concern indicate elevated interest in the status of the species within the state and serve as a mechanism for monitoring and tracking species that do not quite meet the criteria for active regulation.

New York State's Protected Plant Law, passed in 1974, prohibits the collection or destruction of listed protected plants without prior consent from the landowner. Violations of this law are punishable by a \$25.00 fine per stem. The most recent list of endangered, threatened, rare and exploitable vulnerable plants was adopted through rulemaking in 2000.

State Ranking System

Each rare species and significant natural community has a state rank as determined by New York Natural Heritage. These ranks carry no legal weight but are believed to accurately reflect the relative rarity given of the species.

S1- Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some other factor of its biology making it especially vulnerable in New York State.

S2- Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.

S3- Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.

S4- Apparently secure in New York State.

S5- Demonstrably secure in New York State.

Rare Plants

Drummond's Rock-cress (*Boechera stricta*) – Located in open sandy areas on the east side of the South Branch of the Grass River. It is listed as S2, endangered on the State ranking system.

Pod Grass (*Scheuchzeria palustris*) –Located in open marshy areas. It is listed as S3, rare on the State ranking system.

The Fir Clubmoss (*Huperzia selago*) and the vascular plant Southern Twayblade (*Listera australis*) are both listed as Endangered.

Invasive Plants

In 1998 the Adirondack Nature Conservancy's Invasive Plant Project initiated Early Detection/Rapid Response (ED/RR) surveys along Adirondack Park roadsides. Expert and trained volunteers reported 412 observations of ten plant species throughout the area surveyed, namely NYS DOT Right-of-Ways (ROW). In 1999 the Invasive Plant Project was expanded to include surveying back roads and the "backcountry" (undeveloped areas away from roads) to identify the presence or absence of fifteen invasive plant species. Both surveys were conducted under the auspices of the Invasive Plant Council of New York "Top Twenty List" of non-native plants likely to become invasive within New York State. A continuum of ED/RR surveys now exists under the guidance of the Adirondack Park Invasive Plant Program (APIPP). For more information, visit: http://adkinvasives.com. Invasive species management on Forest Preserve lands will follow recommendations in the following document: Inter-Agency

Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park (revised 2012).

Assessments from these initial ED/RR surveys determined that four terrestrial plant species would be targeted for control and management based upon specific criteria such as geophysical setting, abundance and distribution, multiple transport vectors and the likelihood of human-influenced disturbance. The four priority terrestrial invasive plant species are: Purple loosestrife (*Lythrum salicaria*), Common reed (*Phragmites australis*), Japanese knotweed (*Fallopia japonica*), and Garlic mustard (*Alliaria petiolata*).

The Adirondack Park is susceptible to further infestation by invasive plant species intentionally or accidentally introduced to this ecoregion. While many of these species are not currently designated a priority species by APIPP, they may become established within or in proximity to a Unit and require resources to manage, monitor, and restore the site.

Infestations located within and in proximity to a Unit may expand and spread to uninfected areas and threaten natural resources within a Unit; therefore, it is critical to identify infestations located both within and in proximity to a Unit and then assess high risk areas and prioritize Early Detection Rapid Response (ED/RR) and management efforts.

Terrestrial Invasive Plant Inventory

Terrestrial invasive plant species documented in, or within proximity to, the Grass River Unit include the following: Purple loosestrife, Common reed, Japanese knotweed, and Garlic mustard. These invasive species have been identified in or near the Unit boundaries. See Appendix G for the Documented Aquatic & Terrestrial Invasive Plant Occurrences map.

Japanese knotweed is known to exist within the unit. In general, Japanese knotweed reproduces vegetatively and is common to disturbed areas throughout the state. It is not shade tolerant, and consequently, is unable to invade forests (Van Driesche et al., 2002); however, it poses a great threat of rapid colonization of riparian corridors. It is expected, there may be other small populations of invasive-exotic plants along roadsides and other disturbed areas within the Unit area.

Aquatic Invasive Plant Inventory

A variety of monitoring programs collect information directly or indirectly about the distribution of aquatic invasive plants in the Adirondack Park including the Department, Darrin Fresh Water Institute, Paul Smiths College Watershed Institute, lake

associations, and lake managers. In 2001, the Adirondack Park Invasive Plant Program (APIPP) compiled existing information about the distribution of aquatic invasive plant species in the Adirondack Park and instituted a regional long-term volunteer monitoring program. APIPP trained volunteers in plant identification and reporting techniques to monitor Adirondack waters for the presence of aquatic invasive plant species. APIPP coordinates information exchange among all the monitoring programs and maintains a database on the current documented distribution of aquatic invasive plants in the Adirondack Park.

Aquatic invasive plant species documented in the Adirondack Park are Eurasian watermilfoil (*Myriophyllum spicatum*), Water chestnut (*Trapa natans*), Curlyleaf pondweed (*Potamogeton crispus*), Fanwort (*Cabomba caroliniana*), European frog-bit (*Hydrocharus morsus-ranae*), and Yellow floating-heart (*Nymphoides peltata*). Species located in the Park that are monitored for potential visibility include Variable-leaf milfoil (*Myriophyllum heterophyllum*), Southern Naiad (*Najas guadalupensis*), and Brittle Naiad (*Najas minor*). Additional species of concern in New York State but not yet detected in the Park are Starry Stonewort (*Nitellopsis obtusa*), Hydrilla (*Hydrilla verticillata*), Water hyacinth (*Eichhoria crassipes*), and Brazilian elodea (*Egeria densa*).

Infestations located within and in proximity to a Unit may expand and spread to uninfected areas and threaten natural resources within a Unit; therefore, it is critical to identify infestations located both within and in proximity to a Unit to identify high risk areas and prioritize Early Detection Rapid Response (ED/RR) management efforts.

Aquatic invasive plants are primarily spread via human activities, therefore lakes with public access, and those connected to lakes with public access, are at higher risk of invasion. All aquatic invasive species pose a risk of spreading via transport mechanisms which may include: seaplanes, motorized and non-motorized watercraft (canoes, kayaks, jet skis, motor boats etc.) and associated gear and accessories.

Documentation of aquatic invasive plant distributions in the Park is limited by the number of lakes and ponds that have been surveyed and the frequency of monitoring. In some cases, only a portion of the water's shoreline has been surveyed. In other cases, a single specimen may have been identified without documentation as to its location within a waterbody. It follows that a negative survey result indicates only that an invasive plant has not been detected and does not preclude the possibility of its existence.

The aquatic invasive species European frog-bit is known to exist within the unit in the Grass River near Lampson Falls. European frog-bit is a floating-leaved aquatic plant that reproduces by runners or by seeds and winter buds. It can produce dense mats of vegetation that completely cover the water surface, which can shade out native

vegetation and thereby reduce plant diversity, and also impede human recreation by entangling around boat propellers and making swimming difficult. The European frog-bit infestation in the Grass River near Lampson Falls was first detected in the fall of 2005 by an Adirondack Park Invasive Plant Program (APIPP) volunteer. Identification was confirmed in 2006 and APIPP began control in 2007. Delineation surveys revealed three small sites less than one quarter acre in size, in total. Thirty-six 5 gallon buckets of plant material were harvested in 2007; seven buckets were harvested in 2008; and fewer than two buckets were harvested in 2009. In 2010, fewer than 1.5 buckets of plant material were harvested. In 2011, just over one bucket of plant material was harvested in just a few hours. Additional surveys and maintenance work will be conducted by the APIPP Aquatic Invasive Species Project Coordinator until no new plants are seen for three consecutive years.

APIPP has been implementing a volunteer lake monitoring program since 2002. Tooley Pond is the only water body within the Grass River unit besides Lampson Falls that has been monitored since the program's inception. Tooley Pond is not known to have any aquatic invasive species.

The principles of early detection and management actions aimed at eliminating these invasive plants while the stands are small in size should be adopted by managers of the Unit. In addition, infestations on nearby private lands and in other areas of Forest Preserve can pose a threat to the natural communities of this unit and should be addressed as part of a comprehensive ecosystem wide approach to invasive species management.

The Adirondack Invasive Plant Project is a cooperative effort put into operation by the Department, The Nature Conservancy (TNC), the APA, and the NYS Department of Transportation (DOT). The program includes efforts by these and other groups to identify and monitor control sites, develop and implement cost effective methods of control, and increase public awareness about invasive plants. TNC and partners performed a roadside survey of a core area of the Adirondack Park in an effort to establish baseline data and recorded the occurrence of several invasive plant species on public and private land, including: Russian and autumn olive; fly and Tartarian honeysuckle; purple loosestrife; white sweet-clover; Japanese knotweed; and black locust. The TNC survey was a rapid assessment of invasive plant distribution along state and county routes, and as such recognized that plants that typically invade forest interiors may have been under-represented in the survey's findings: specifically, garlic mustard. This baseline survey was conducted more than a decade ago and additional species may now be present. The Department will continue to work with these groups to detect and remove populations of invasive plants within the Unit.

DOT is working to develop Best Management Practices that reduce or eliminate the introduction and spread of invasive species within the highway ROW. The Department should seek to follow such BMPs when performing similar work, i.e. parking lot construction and maintenance, road maintenance, etc., within the Grass River Unit.

Through the Office of Invasive Species Coordination, DEC will investigate the use of appropriate educational signage at fishing and waterway access sites to mitigate or prevent the spread of aquatic non-native or invasive species.

b. Wildlife

Wildlife present within the area are typical of those found in the western Adirondack foothills eco-zone. Common large mammals include white-tailed deer and black bear, and although uncommon, moose are increasingly present. Typical fur-bearing species represented in Department harvest data for the area include beaver, coyote, fisher, otter, pine marten and bobcat. Avian diversity in the unit is representative of northern hardwood and spruce/fir forested habitats. Breeding Bird Atlas data for the unit from the 2000-2005 census (Appendix A) identified 115 confirmed, probable and possible breeding bird species in the blocks covering the unit. Although no systematic survey of the unit has been conducted for reptiles and amphibians, a volunteer based "Herp Atlas" sponsored by the Department through the decade of the 1990s, identified 24 species occurring on or adjacent to the unit. There are no exotic species of concern known to exist within the unit, and nuisance wildlife issues are largely limited to beaver induced flooding.

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Deer Wintering Areas

Within the unit there are 15 winter deer yards identified by the Department. One major yard is mostly just outside the boundary but has two finger-like extensions that reach

into the area. A deer yard or deer wintering area is any location where deer tend to concentrate during winter. Deer yards typically have features which provide thermal benefits and/or mobility advantages during periods of cold and deep snow. In the Adirondacks, deer yards are often associated with dense conifer cover which helps to reduce rapid snow accumulation, provides shelter from winds, and limits cooling during the evening. South-facing slopes are also used by wintering deer, where smaller snow accumulation and favorable sun exposure provide similar benefits. Better quality deer yards also have adjacent regenerating hardwood components which provide available woody browse during milder conditions.

In the Adirondacks, deer use the same yarding areas annually, although the boundaries change over time with succession. Deer use within yarding areas will also change annually in response to winter severity. Severe winter weather virtually confines deer to wintering areas for long periods during which the depletion of available browse can lead to high deer mortality. Severe decline in the deer population can be traced directly to adverse winters. The carrying capacity of deer wintering areas limits the carrying capacity of the entire annual range of the deer population. The maintenance and protection of winter deer yards remains a concern of wildlife managers, particularly in the Adirondacks, as they fulfill a critical component of the seasonal habitat requirements of white-tailed deer.

Spruce Grouse Potential Habitat

Habitat suitable for spruce grouse (*Falcipennis canadensis*) is found in several locations within the unit. No confirmed sightings of the bird have been recorded since 2002. Within the boundary of the UMP, there are four historic sites, two of which have not been surveyed extensively enough to confirm the species absence. Moreover, the core of the spruce grouse's remaining population center is within four miles of the Grass River UMP boundary and is located within the spruce grouse conservation focus area as defined by the draft Spruce Grouse Recovery Plan, (Ross and Johnson, 2012). As an important location relative to remaining healthier populations, the Grass River unit may represent an area where significant conservation efforts may take place to aid in the species recovery in New York State.

Invasive/Exotic Wildlife

As with plant species, these organisms do not occur naturally in New York State. While some species go relatively unnoticed (e.g., spiny water flea), other introductions such as the zebra mussel have caused great concern. There are no confirmed reports of zebra mussels in unit waters. Domestic canines and felines can also have an impact on native deer, rodents, and birds.

Other Fauna

Other, less known, members of the animal kingdom occur within the unit. Insects are the most notable and abundant form of animal life. Some species can cause human health concerns (e.g., Giardia, swimmer's itch) or are generally considered a nuisance (e.g., black flies, mosquitoes) to individuals that recreate in the area.

c. Fisheries

The major flowing water resources within the unit are provided by the North, Middle and South Branches of the Grass River and the Oswegatchie River. Significant portions of each of these are on Forest Preserve or easement land. The South Branch of the Grass River on the Tooley Pond FP tract supports a naturally sustained brook trout population which was initially protected by special regulation (no-kill, artificial lures only), but due to low fishing pressure and a healthy population it is no longer under any special regulations.

Aquatic resources within the boundary of the planning area consist of many small ponds and small streams along with a few large streams, rivers and impoundments. These waters lie primarily in the St. Lawrence (Grass River) and Oswegatchie watersheds, as defined by the NYS DEC Bureau of Fisheries. A few waters are in the Raquette watershed.

Fish communities in these watersheds were historically characterized primarily as Adirondack brook trout communities. These communities included brown bullhead, white suckers and native minnows, as well as brook trout. Environmental perturbations associated with resource extraction, hydropower development and indiscriminate stocking have resulted in many communities dominated by warm water and non-native species.

There are 67 waters on State land or conservation easements in the area, of which 13 are named in the NYS DEC or Adirondack Lakes Survey Corporation (ALSC) databases. For most unit waters fish community data is insufficient to develop management objectives. Fish community surveys will be top priority for these waters.

3. Visual/Scenic Resources/Land Protection

Travel Corridors

The main corridors for automobile travel access to the Grass River Wild Forest are State Highway 56, and State Highway 3, which offer many scenic views.

Observation Points

There are several popular sites to appreciate the natural beauty of the unit; Lampson Falls and Harper Falls have long been a destination for sight-seers and picnickers.

Lampson Falls is the largest waterfall in St. Lawrence County, an impressive fall at an estimated 40 feet tall and 100 feet wide. Lampson is a shallow and broad-faced fall, which can have large amounts of water flowing over it during peak melt season in the spring. During the summer, it calms and becomes a much quieter setting. At the base of the falls the Grass River takes a 90 degree turn so that a good view of the falls and the pool is provided from the shore opposite the falls.

Along the Tooley Pond Road many opportunities exist to view rapids and waterfalls. Canoe and kayak trips on the river are well known for their scenic quality.

Overall, there are a few peaks which provide rewarding views of the surrounding area. Mountain tops that provide scenic views include: Tooley Pond, Baldface and Spruce.

4. Critical Habitat

Legal Protection for Rare Species in New York State

Listing on New York's Endangered and Threatened species list regulates animal protection under New York State's Environmental Conservation Law. Species listed as Special Concern usually have no legal protection unless they are among those covered under a separate piece of federal or state legislation. However, listings of Special Concern indicate elevated interest in the status of the species within the state and serve as a mechanism for monitoring and tracking species that do not quite meet the criteria for active regulation.

New York State's Protected Plant Law, passed in 1974, prohibits the collection or destruction of listed protected plants without prior consent from the landowner. Violations of this law are punishable by a \$25.00 fine per stem. The most recent list of endangered, threatened, rare and exploitable vulnerable plants was adopted through rulemaking in 2000.

State Ranking System

Each rare species and significant natural community has a state rank as determined by New York Natural Heritage. These ranks carry no legal weight but are believed to accurately reflect the relative rarity given of the species.

- S1 Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some other factor of its biology making it especially vulnerable in New York State.
- S2 Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.

- S3 Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.
- S4 Apparently secure in New York State.
- S5 Demonstrably secure in New York State.

Natural Heritage Data Base

The unit hosts a wide variety of plant and animal species. Most of these species thrive throughout the Adirondack Park. However, due to ecological factors, change in climate, and human factors, there are some species that warrant protection. According to the NYS DEC, Natural Heritage Program (NYNHP), various plant, animal and community species have been identified as rare, threatened, endangered or protected.

There are seven species identified on the Natural Heritage data base as occurring in the Grass River area.

Drummond's Rock-cress (*Boechera stricta*) is listed as endangered, and Pod Grass (*Scheuchzeria palustris*) is listed as rare. The Fir Clubmoss (*Huperzia selago*) and the vascular plant Southern Twayblade (*Listera australis*) are both listed as endangered. The Extra Striped Snaketail (*Ophiogomphus anomalus*), a type of dragonfly, is designated – special concern. Two birds are listed: Common Loon (*Gavia immer*) is designated special concern and the Spruce Grouse (*Falcipennis canadensis*) is endangered.

An Overview of the New York Heritage Program

The New York Natural Heritage Program is a partnership between the New York State Department of Environmental Conservation and The Nature Conservancy. Their mission is to enable and enhance conservation of rare animals and plants, and significant natural communities, maintaining a comprehensive database on the status and location of rare species and natural communities.

The following definitions apply to the list of Endangered, Threatened and Special Concern Fish and Wildlife Species of New York State:

Endangered - Any native species in imminent danger of extirpation or extinction in New York State;

Threatened - Any native species likely to become an endangered species within the foreseeable future in New York State;

Special Concern- Any native species for which a welfare concern or risk of endangerment has been documented in New York State.

The following definitions apply to the New York State Rare Plant Status List:

Endangered Species: listed species are those with:

- 1) 5 or fewer extant sites, or
- 2) fewer than 1,000 individuals, or
- restricted to fewer than 4 U.S.G.S. 7 ¹/₂ minute topographical maps, or
- 4) species listed as endangered by the U.S. Department of Interior as enumerated in Code of Federal Regulations 50 CFR 17.11

Threatened Species: listed species are those with:

- 1) 6 to fewer than 20 extant sites, or
- 2) 1,000 to fewer than 3,000 individuals, or
- restricted to not less than 4 or more than 7 U.S.G.S. 7 ¹/₂ minute topographical maps, or
- 4) listed as threatened by the U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11

Rare Species: listed species have:

- 1) 20 to 35 extant sites, or
- 2) 3,000 to 5,000 individuals statewide

Exploitably vulnerable: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.

B. Man-Made Facilities

The Grass River Wild Forest has relatively few developed recreational facilities. There are designated primitive tent sites on the Stone Dam, Lampson Falls, Leonard Pond and Tooley Pond parcels, snowmobile trails on Tooley Pond and Leonard Pond parcels, and hiking trails at Lampson Falls and Tooley Pond Mountain. Kiosks at Tooley Pond and the Lake George Road on the Tooley Pond parcel, and at Lampson Falls provide information on the area to the public.

1. Boundary Lines

<i>Parcel</i> Tooley Pond Parcel	Boundary Miles 34.2 miles
Cranberry Pond Parcel	1.7 miles
Leonard Pond Parcel	10.7 miles
Stone Dam Parcel	7.9 miles
Lampson Falls Parcel	9.9 miles
Grass River RR Parcel	5.3 miles
Church Pond Parcel	8.0 miles
Fine (3 Parcels)	2.1 miles
Grass River Parcel	1.3 miles
Middle Branch	1.3 miles
Total	82.40 miles

2. Bridges

Parcel	Number/name	
Tooley Pond Parcel	2	Spruce Mtn. Road - motor vehicle bridge
Stone Dam Parcel	1	Middle Br. Grass River – non-conforming foot bridge (with respect to the APSLMP)

3. Designated Primitive Tent Sites

Parcel	Number
Tooley Pond Parcel	6
Stone Dam Parcel	13
Lampson Falls	5
Leonard Pond	3
Harper's Falls	1

Parcel	Number/Name/Length	
Tooley Pond Parcel	1	Tooley Pond Mountain -1.75 miles
Lampson Falls	4	Lampson Falls accessible trail0.49miles
		Grass River Trail East - 0.8 miles
		Palmer Hill Trail - 0.8 miles
		Harper's Falls Trail -1.0 miles

4. Foot Trails

5. Gates

Parcel	Number/Location		
Tooley Pond Parcel	6	various	
Lampson Falls Parcel	2	Lampson and Harper's Falls	

6. Parking Areas

Parcel	Capacity/(cars)	Location
Tooley Pond Parcel	5 – 1 universal	Tooley Pond
	3	Tooley Pond Mtn.
	3	Lake George Rd.
	5	Spruce Mt Bridge
Lampson Falls Parcel	6 – 1 universal	Lampson Falls
	4	Harper Falls
Middle Branch Lot	5	
Leonard Pond Parcel	2-1 universal	Chandler Pond

7. Snowmobile Routes

Parcel

Name

Tooley Pond Parcel	Spruce Mtn Road - 0.65 miles
	New Bridge Road - 0.07 miles
	Beech Hill Road - 0.30 miles
	RR Grade Road - 2.83 miles

Leonard Pond Parcel	Hollywood Road – 2.60 miles
Grass River Parcel	Buckhorn Road – 0.35 miles

8. Trail Head Registers

Parcel	Number
Tooley Pond Parcel	3
Lampson Falls	1

9. Kiosks

Parcel	Nur	mber/Location
Tooley Pond Parcel	1	Tooley Pond
	1	Lake George Road
Lampson Falls	1	

10. Privies

Parcel	Number
Tooley Pond Parcel	1
Lampson Falls Parcel	1

11 Signs

Parcel Number

Tooley Pond Parcel2Stone Dam Parcel1Lampson Falls2

12. Waterway/Access Sites

<i>Location</i> Spruce Mountain Road – S. Br. Grass
Tooley Pond
First Brook – S. Br. Grass
Above falls
Trail to river

13. Canoe Carries

<i>Parcel</i> Tooley Pond Parcel	<i>Name/Length</i> Deerlick Rapids – 0.21 miles
	Long Rapids – 0.27 miles
	Brumagin Falls – 0.72 miles
	Copper Rock Falls – 0.6 miles

14. Public Motor Vehicle Roads

<i>Parcel</i> Middle Branch Parcel	<i>Name/Length</i> Access Road - 0.1 miles
Leonard Pond	Hollywood Road – 2.6 miles
Tooley Pond	Spruce Mtn. Road – 0.88 miles

15. Administrative Roads

Parcel N	lumber/Name/Length
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Tooley Pond Parcel	Railroad Grade Road – 2.8 miles
	New Bridge Road – 0.07 miles
	Beech Hill Road – 0.22 miles
Lampson Falls Parcel	Harper Falls Road - 0.6 miles
	Lampson Mill/Logging Road - 1.6 miles
Grass River RR	3.2 miles (unmaintained)
Grass River Parcel	Buckhorn Road – 0.35 miles

C. Past Influences

1. Cultural

The term "cultural resources" encompasses a number of categories of human-created resources including structures, archaeological sites and related resources. The DEC is required by the New York State Historic Preservation Act (SHPA-PRHPL Article 14) and the State Environmental Quality Review Act (SEQRA-ECL Article 9) to include such resources in the range of environmental values that are managed on public lands. The Adirondack Forest Preserve was listed as a National Historic Landmark by the National Park Service in 1963. This designation also results in automatic listing of the Park in the State and National Registers of Historic Places.

Archaeological sites are, simply put, any location where materials, (artifacts, ecofacts) or modifications to the landscape reveal evidence of past human activity. This includes a wide range of resources ranging from pre-contact Native American camps and villages to Euro-American homesteads and industrial sites. Such sites can be entirely subsurface or can contain above ground remains such as foundation walls or earthwork features.

As part of the inventory effort associated with the development of this plan the DEC arranged for the archaeological site inventories maintained by the New York State Museum and OPRHP to be searched in order to identify known archaeological resources that might be located within or near the Grass River Wild Forest unit. The two inventories overlap to an extent but do not entirely duplicate one another. The purpose of this effort was to identify known sites that might be affected by actions proposed within the unit and to assist understanding and characterizing past human use and occupation of the unit.

The quality of the site inventory information varies a great deal in all respects. Very little systematic archaeological survey has been undertaken in New York State. Therefore,

all current inventories must be considered incomplete. Event fewer sites have been investigated to any degree that would permit their significance to be evaluated. Many reported site locations result from 19th century antiquarian information, or artifact collector reports that have not been field verified. Often very little is known about the age, function or size of these sites. This means that reported site locations can be unreliable. Should systematic archaeological inventory be undertaken at some point in the feature, it is very likely that additional resources will be identified.

Documented archeological sites located within the Grass River Wild Forest unit are listed below:

Site Name	Site Type	Cultural Affiliation	Temporal Period	Artifacts/Features
Clarksboro Mining Community and Furnace	Mine/Furnace	Historic	ca. 1860	Furnace Foundations
New Bridge Community	Industrial/Domestic	Historic	ca. 1906	Foundations
Tooley Pond Mtn. Fire Tower/Cabin	Industrial/Domestic	Historic	ca. 1913 1919	Foundations

 TABLE 1: Grass River WF Previously Recorded Archaeological Sites within the

 Area.

The area was changed substantially through the activities of people in the past. Logging and mining were the primary industries, and their impact is very extensive and evident today. The logging and wildfires associated with logging changed the character of the forest dramatically, which in turn influenced the animal communities associated with it.

There were many timber products that came from the Adirondack forests. Hemlock bark was needed for the tanning industry. The invention of the Fourdrinier paper making machine made it possible to produce large volumes of paper in rolls efficiently, which led to the development of the printing press that used rolled paper, which made it possible to print a huge amount of newspapers economically, further driving up demand for paper. Spruce was the main ingredient required to produce that paper and demand for the species was tremendous. Pine was used for buildings, boxes, slack cooperage and other items. Hardwoods were used for a great many items including barrels, vehicle parts, furniture, tools and farm implements. The forests were essentially cleared to supply the huge demands of the time. Since trees were harvested manually and skidded by animals the most efficient method was to remove everything that was marketable from an area.

Mining had a far reaching impact, not only at the location of the mine, but on other aspects of the environment as well. Charcoal, mine timbers, railroad ties, lumber, fuel wood and many other necessary items came from timber harvested locally. Roads and railroads were pushed into the forests to extract timber for supplies as well as ore and to distribute the finished products. Rivers and streams were harnessed for power. Water was often a necessary ingredient in an industrial process, and waste materials were routinely dumped in water ways. Each product or activity influenced the surrounding forest and the combined effect was profound.

2. Historical

Tooley Pond

One interesting historical feature is the site of an early iron foundry, at Twin Falls on the South Branch of the Grass. The mining company built a hamlet, Clarksboro, around the iron works. Evidence of the smelting facility still remains today. There is a stone lined sluice where water was directed to the waterwheel. The wheel created the power to operate bellows, trip hammers and other machines. Part of the arch and kiln are still there and are in stable condition.

Old maps show the Great Windfall of 1845. The swath of blowdown was one half mile wide extending from Cook Pond to the northeast for about 25 miles.

Stone Dam

A so called "splash dam" was constructed on the Middle Branch of the Grass River. The impounded water was released in the spring to float logs downstream to a sawmill at Lampson Falls. Because of its remote location and early inclusion into the Forest Preserve, this area has some of the oldest forested area.

Church Pond

Church Pond is the head of the North Branch of the Grass River. This pond was named for Daniel W. Church, pioneer settler and premier mill builder.

Grass River RR

The Emporium Forestry Company, owned by the Sykes family, extended the Mohawk and Malone Railway 17 miles from Conifer Junction to Cranberry Lake Village in 1911. At that time, many miles of logging branches, or trams as they were called, were put through the forest. Tram lines were used only for logging; they were not permanent lines. The tracks were laid down in such a way that they could be picked up and relocated as soon as an area had been logged. Spur lines of the Grass River RR stretched almost to Clare on the North Branch of the Grass River. The tracks and spurs of this tram line totaled forty miles in length. All this was done to supply logs to the sawmill at Conifer.

The main line to Cranberry Lake was more carefully and substantially built and became popular enough that the Grass River RR sought a certificate to operate as a common carrier from Childwold to Cranberry Lake Village. The Public Service Commission purchased the 17 miles of railroad, locomotives, cars and buildings in 1916.

As a result of the Great Depression, the Emporium Forestry Company and the Grass River RR businesses suffered. Starting in 1930, timberlands were sold off and tracks were removed from the trams. In 1948, the rails were removed from Cranberry Lake Village to Conifer. Before its demise, the Grass River RR had made possible the harvest of over 1.1 billion board feet of hardwoods.

D. Public Use

1. Land Resources

Recreational use information for the Grass River unit is limited. From field observations, and the visitor use survey, it is clear that most recreational uses are day-use activities. The unit's small size, lack of facilities, and ease of access favor day-use activities of short duration. Day hiking, hunting, fishing, canoeing/kayaking and snowmobiling are popular activities. Some additional recreational use occurs in the form of bicycling, horseback riding, and wildlife observation.

a. Hunting

The Grass River Wild Forest unit is located within the DEC Wildlife Management Units (WMU) 6F and 6C. Primary wildlife related usage has historically centered around big game hunting, primarily for deer, although bear hunting, and fur-bearer trapping are also prominent.

While public hunting is permitted on Forest Preserve lands it has generally been limited by poor access. The amount of time required to reach the interior portions of the unit has led to the establishment of seasonal deer hunting camps. In 2011, two camping permits were issued during big game season for the Stone Dam parcel. The local forest ranger estimates that 3-5 camping permits are issued annually for Stone Dam, and none for the other Forest Preserve parcels.

b. Fishing

Aquatic resources within the Grass River unit consist of many small ponds and small streams along with a few large streams, river and impoundments. Opportunities for stream fishing are readily available on the unit. The major flowing water resources

within the area are provided by the North, Middle and South Branch of the Grass River and the Oswegatchie River. The South Branch of the Grass River supports a naturally sustained brook trout population. It is believed that the area's streams annually receive between 100-150 angler hours of effort per acre.

c. Camping

Camping, other than that which is associated with hunting on the Stone Dam parcel, has always been very limited. Designated primitive tent sites have been established at: Harper's Falls, Leonard Pond, Lampson Falls, Stone Dam, and Tooley Pond parcels. The condition class of most of the DEC designated primitive tent sites is either class 1 or class 2, with minimal physical resource damage and ground vegetation impact. The Stone Dam and Lampson Falls primitive tent sites within the GRWF do not conform to APSLMP guidelines for separation distances.

Overnight camping on the GRWF is mainly limited to these DEC designated sites. Camping use is well below the areas capacity to withstand use, and is expected to remain so into the foreseeable future.

d. Bicycling

Bicycling occurs on old roads, trails and snowmobile trails throughout the GRWF. The Tooley Pond Road runs 17 miles from SH 3, to Degrasse, and is a favorite scenic bicycle route. Use of this area by cyclists is minimal to moderate. The use of bicycles on this unit will continue under 6NYSCRR Part 196.7 (e) which states. "The operation of bicycles is permitted on all roads and trails on Adirondack forest preserve wild forest areas except for those roads and trails posted as closed to bicycle operation".

e. Snowmobile Trails

There is an extensive network of snowmobile trails in St. Lawrence County. Snowmobile trails have been designated throughout the Grass River Management Unit, crossing and linking various Wild Forest parcels with easement tracts. This trail system provides links between all the easements as well as the Tooley Pond and Leonard Pond Forest Preserve parcels within the GRMU, as well as adjacent easements and Forest Preserve lands. Please refer to the Facilities Map to gain an understanding of the linkages provided by the various trails. The Department has a Volunteer Stewardship Agreement (VSA) with the St. Lawrence County Snowmobiling Association to maintain and groom many of these snowmobile trails.

Additionally, there is some use of snowmobile trails for sled dog training, especially in the Colton area.

f. Hiking

The hiking trails in GRWF unit are moderate-length, mostly level trails that lead to scenic waterfalls, such as Lampson Falls, or to scenic vistas such as Tooley Pond Mountain. Use levels range from several hundred visitors per year on the Tooley Pond and Tooley Pond Mountain areas to over 5,000 visitors per year at Lampson Falls, based upon 2010 trail register data. Visitors are almost exclusively day-users.

g. Canoeing/Kayaking

The South Branch of the Grass River, as it runs through the Grass River Wild Forest, represents a navigable waterbody with great potential for canoe and kayak recreation. It is viewed by some kayakers as providing some of the most challenging white water in the Adirondacks. Jamieson described the South Branch of the Grass River as a "river of special beauty, providing challenging whitewater alternated with placid paddling". The aesthetic qualities of the river corridor coupled with easy access in spots, has led to significant public use during high water. Although limited to times of high water, a trip down the South Branch will include sections that challenge the most experienced paddler.

The signed DEC fishing access site north of Cranberry Lake where the South Branch crosses SH 3 begins an excellent, canoe-able, whitewater stretch, navigable to the DEC take-out above Rainbow Falls. This stretch also contains designated takeouts/boat launch locations at Spruce Mountain Bridge and First Creek, the latter just above Rainbow Falls. An additional informal access point just above New Bridge enhances the rivers already considerable utility for paddlers.

From the Rainbow Falls access point above the falls at First Creek, the river's gradient increases. The section below Rainbow Falls has numerous waterfalls and rapids spaced close together and is easily accessible from Tooley Pond Road. This stretch is run primarily by intermediate to advanced paddlers. With a few portages, it can be paddled all the way to the hamlet of Degrasse at County Route 27 with an option to take out at the Lake George Road Bridge.

There are scattered primitive tent sites along the river, but there is still room for more, perhaps near Copper Rock Falls and near Rainbow Falls. Portages skirt most major rapids and waterfalls, but there are a few locations where no formal carries exist.

The Middle Branch also provides opportunities for canoeing and kayaking. There is significant flatwater between where the Middle Branch crosses under Co. Rt. 27 at the Middle Branch parcel down to Lampson Falls. Below Lampson falls there are a series of rapids, making it more challenging canoeing/kayaking water.

h. Wildlife Observation

There is currently no assessment of non-consumptive use available for the unit. Current public access provides many opportunities to experience outdoor wildlife viewing. The GRWF provides opportunities for users to view wildlife while bird watching, picnicking, hunting, driving, hiking, etc.

2. Current Use

a. Registers

The Department monitors trail use by voluntary registration. Registers are installed at the following locations: Tooley Pond, Tooley Pond Road at Lake George Road, Tooley Pond Mountain, and Lampson Falls.

One of the inherent problems with registers is that not all visitors register. As a result, the information recorded is incomplete, and use is understated. Accuracy of the information obtained is questionable. Use of boxes is greatly affected by several factors: location, timing of visitation, length of stay (day vs. overnight use), group size, and type of activity. Research studies have found that certain types of visitors, especially day users, hunters, and lone individuals, are less likely to register than others (Leatherberry and Lime, 1981; Lucas, 1975; Lucas, 1983; and Petersen, 1985).

Registration accuracy can be greatly improved if registers are periodically validated by field spot-checks or by trail counters (Leatherberry and Lime, 1981; Lucas, 1975; Lucas, 1983; and Petersen, 1985). Estimates of non-compliance in self-registration can then be developed for each trail.

b. Trail Counters

The primary objective for using trail monitoring devices is to obtain accurate use data. Trail counters are set up to count trail traffic. Monitoring by observers is used to assess the reliability of the counter data. Careful site selection and proper installation are critical to insure accurate counts. It is important to place the trail counter far enough from the trailhead to be reasonably confident that everyone who trips the counter actually enters the area.

The trail counters used at GRWF sites were an infrared trail monitoring system. It features the following qualities: ease of installation, accuracy, and rugged construction. The trail counter unit consists of two parts: an infrared receiver and an infrared transmitter. This counter was used for trail monitoring, and field observations were used to validate accuracy. Trail counters were set up at two locations in the GRWF: Tooley Pond Mtn. and Lampson Falls.

One counter was located to estimate visitor use on the trail to Lampson Falls, a trail with unknown use, and no trailhead register. The infrared trail counter recorded the date and time that the users entered the trail. Visitor use data was collected over a 95-day period on this trail. Daily use ranged from a low of 0 to a high of 43 visitors, with an average group size of 3.9 users.

Another trail counter was located on the trail to Tooley Pond Mtn., which has a trailhead register. Visitor use data was collected over a 168-day period on this trail. Daily use ranged from a low of 0 to a high of 38 visitors, with an average group size of 4.3 users. In comparing the trail registration totals to the trail counter totals, the average percent compliance rate was 45%.

The monthly distribution of use on the Tooley Pond Mtn. Trail can be seen by graphing the trail counter over a five-month period (Figure 1). The x-axis represents the months data was collected in, and the y-axis represents the total number of users recorded per month.

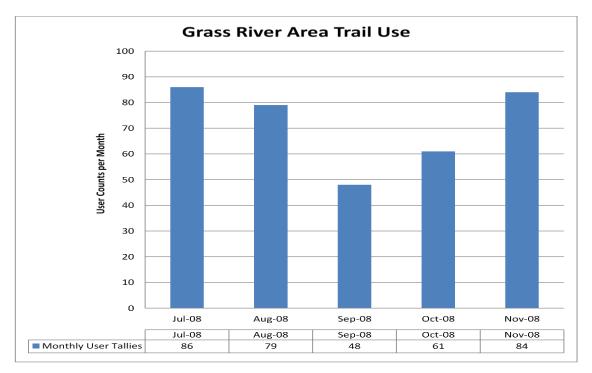


Figure 1: GRWF Tooley Pond Mtn. Trail Counter Monthly Totals during the Summer & Fall of 2008.

Trail register data for the Lampson Falls register

A trail register was installed in June 2007. No compliance checks have been made at this register, to date. Field checks have indicated more vehicles parked at the trailhead

then registration totals. The actual number of visitors using this location may be substantially higher than the trail register indicates.

Trail register data for the Tooley Pond Mountain register

A trail register was installed in June 2007. Compliance checks have indicated a 45% compliance rate at this register. The Tooley Pond Mountain trail is a popular trail among day users because of easy access and the relatively short hike to the former fire tower summit site. Based on the trail registration numbers and the registration compliance rate, estimated annual use of the Tooley Pond Mtn. trail is 415 users.

TABLE 2: Grass River Wild Forest 2009-10 Forest Preserve & Easement TrailRegister Data

Unit/Trailhead	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Grass River WF													
Tooley Pond	1	0	0	10	9	10	39	100	30	9	7	4	219
Tooley Pond Rd.	8	0	5	15	14	16	43	66	32	24	4	0	227
Tooley Pond Mt.	6	2	0	9	33	28	69	83	26	24	5	0	285
Lampson Falls	34	74	270	403	490	410	873	919	843	658	234	87	5295
Total	49	76	275	437	546	464	1024	1168	931	715	250	91	6026

2009 Forest Preserve & Easement Trail Register Data

2010 Forest Preserve & Easement Trail Register Data

Unit/Trailhead	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Grass River WF													
Tooley Pond	1	0	2	28	30	22	48	50	33	6	0	1	221
Tooley Pond Rd.	1	0	0	28	12	11	63	59	23	5	0	1	203
Tooley Pond Mt.	4	6	4	7	40	17	68	85	43	31	3	0	308
Lampson Falls	83	52	174	498	657	391	1023	1107	532	889	231	93	5730
Total	89	58	180	561	739	441	1202	1301	631	931	234	95	6462

2011 Forest Preserve & Easement Trail Register Data

Unit/Trailhead	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Grass River WF													
Tooley Pond	0	0	0	0	0	11	46	72	39	23	0	0	191
Tooley Pond Rd.	0	0	2	15	14	3	25	436	19	11	18	0	543
Tooley Pond Mt.	7	0	10	4	13	15	47	59	82	27	8	3	275
Lampson Falls	158	68	93	400	400	352	1096	581	727	629	158	72	4734
Total	165	68	105	419	427	381	1214	1148	867	690	184	75	5743

Despite the deficiencies in the voluntary registration system, some information regarding patterns of use can be obtained from the limited trail register data in the Grass River Unit.

- Lampson Falls is, by a factor or nearly twenty, the most heavily used location in the GRWF;
- The destination of most signers of the Tooley Pond and Lake George Rd. registers is the series of waterfalls on the South Branch of the Grass River, and the Tooley Pond Mountain trail;
- Visitors are almost exclusively day-users;
- Overnight use of Tooley Pond Mountain is basically non-existent due to the lack of overnight facilities;
- Total use of the sites with trail registers, if the compliance rate is on the order of about 50%, is 12,000 users.

Based on the register information referenced above, staff observations, and site impacts, the only site on the Grass River Wild Forest that is even moderately heavily used is Lampson Falls. The Leonard Pond, Church Pond, Cranberry Pond and Stone Dam parcels are probably used the most during big game hunting season, but even then, use is light. The Leonard Pond, Stone Dam and Tooley Pond parcels are also important for the angling opportunities they provide. Lampson Falls is primarily used by the public to view the falls, picnic, and swim.

c. Camping Permits

The Department also collects visitor use information on camping through permits issued to users staying more than three nights in the same location, or camping in groups larger than nine. Most of the permits issued are for either small groups or for hunting camps during the big game season.

During 2011, two camping permits were issued during hunting season for the Stone Dam parcel. In 2006-07, Forest Rangers issued four NYS DEC Camping Permits for undeveloped State lands within the GRWF. These permits were all issued during the big game hunting season at the primitive tent sites on the Stone Dam parcel. Historically, there have been approximately 3-5 camping permits issued for this area per year, with a total of 10-15 campers.

d. Snowmobile Trail Counter

The NYS Department of Transportation provided the St. Lawrence County Snowmobile Association with a traffic counter to monitor snowmobile trail use. This permanent counter was located on the Long Pond CE, which is within the GRMU so will give an idea of the level of snowmobile use on the trails across Forest Preserve and conservation easements within the unit. This counter is an acoustic sensor set up to count vehicles, which included snowmobiles.

Environmental factors influencing traffic counter accuracy include weather. For example, during snow and rain events, moisture may affect count accuracy. Vandalism, theft, and tampering with traffic counter equipment are serious concerns, especially in heavy-use areas near parking areas or trailheads.

The following table lists the snowmobile traffic counter data on one trail in the Long Pond easement during the 2009-2012 winter seasons.

Table 3: Snowmobile Traffic Counter Data (2009-2012)

NY Route 56 Long Pond Easement Snowmobile Trail: Trail 8 to Trail 8E

2009-2010 Season	Days Counted	<u>Monthly</u>	Average Daily Total
December 2009	5	24	5
January 2010	24	1,386	58
February 2010	25	2,170	87
March 2010	31	2,567	83
<u>2010-2011 Season</u>			
December 2010	17	247	16
January 2011			
February 2011	5	195	39
March 2011			
<u>2011-2012 Season</u>			
December 2011	22	302	14
January 2012	12	761	63
February 2012	23	1,011	44
*March 2012	30	1,870	62
<u>Weekends</u>	Lowest Daily Tota	<u>I</u>	Highest Daily Total
2009-2010	1		537
2010-2011	4		89
2011-2012	2		335

*March 2012 monthly total included logging equipment vehicles.

e. Visitor Use Survey

Study Design:

The visitor use survey design was based on an example provided in: Adirondack Visitor Studies Conducted in Support of NYS DEC Unit Management Planning: Recommendations for Research (Dawson et al., 2006).

The Grass River visitor use survey was conducted in the unit during a three month period from June to September 2007. This survey was designed to obtain a basic description of the users, their visit, and some information about the effects of public use on the physical and biological resources of the unit, as well as additional information about social impacts. Visitors were surveyed to measure the importance of, and satisfaction with, experiences related to social, resource, and managerial conditions. The objectives of this visitor use survey were to measure the conditions sought by users and the resource problems as perceived by visitors to the Grass River Wild Forest Unit.

The one-page visitor use survey was structured so that the respondents could simply fill in or circle the appropriate replies. A short cover letter and a self-addressed, postagepaid return envelope were provided for each mailed survey. No follow up reminder mailings were sent to non-respondents in this survey.

Methods

Visitor characteristics and preferences were collected with personal interviews in the field and mailed questionnaires. Sampling occurred at trailheads and along trails in the Grass River Wild Forest Unit. A one-page visitor use survey questionnaire was administered in the field so that users could be questioned during their recreational activity on that visit. Large scale sampling was difficult to obtain because of the extensive geographic area, numerous access points, and variable recreation use.

On-site field interviews were conducted with users for twenty-six days from June to September 2007 at access points in the Grass River Wild Forest Unit on a random basis. Brief on-site interviews were conducted to find out further information about each visitor or group entering or exiting the area. Information gathered included: gender, age, group size, length of stay, number of previous visits to the area, date, type of user, and location of the interview. Table 3 lists the visitor characteristics of the Grass River Wild Forest survey participants.

Several different methods of sampling visitors were used in the Grass River visitor use survey. Questionnaires were distributed by four methods: (1) mailing them to a random sample of users with names and addresses obtained from trailhead registration stations; (2) mailing them to users with names and addresses obtained from DEC Camping Permits; (3) personal interviewing in the field and; (4) distributing them on vehicles parked at access points for later completion and return.

Sampling

Survey questionnaires were sent to a sample of those visitors using the Grass River Unit during the summer of 2007. A total of 133 visitor use surveys were distributed by mail, with 13% of these surveys returned by the Post Office as undeliverable. In addition, 23 surveys were distributed on the windshields of parked vehicles at entry points to the Grass River unit. One hundred thirteen personal interviews with visitors were carried out at access points and in the interior of the unit over twenty-six days throughout the summer season. Interviews were conducted on both weekdays and weekends. During the field interview the researcher filled out one survey for each group encountered. If possible, this interview was carried out with the leader of the party.

The following table lists the various data gathering methods, number sampled, and percent returned for the visitor use survey in the Grass River Unit.

Visitor Use Survey					
Method	No. Sampled	No. Responded	Percent		
*Mailed	133	85	64%		
**Vehicle	23	9	39%		
Distribution					
Field Interviews	113	113	100%		
TOTALS:	269	198	74%		

Grass River Wild Forest

Table 4

*13% of these surveys were returned by the Post Office as undeliverable.

**Included in the mail return response.

Visitors responded well to the survey; overall a 74% return rate, adjusted for undeliverable questionnaires, was achieved for the survey, with 198 surveys returned, representing 773 users in the Grass River Unit. Almost all the visitor use surveys were completely filled out. There was every indication of thoughtful, conscientious answers, with additional voluntary comments on several surveys. All completed surveys were checked for completeness and consistency.

Analysis

Data from the interviews and the mail questionnaires were entered and analyzed using the Statistical Package for the Social Sciences (SPSS) software package.

The geographic distribution of recreational use is uneven, with many users in a few places and relatively few in many other locations in the Grass River Wild Forest Unit.

Based upon the responses between the interview locations in the Grass River Wild Forest Unit areas, the following SPSS analysis results were divided into two geographic groups: (1) Lampson Falls users and, (2) Tooley Pond Road, waterfalls, and mountain users aggregated together. This accounted for 97% of the visitors surveyed. The remaining 3% of the visitors were surveyed in the Long Pond and Stone Dam parcels.

Results

1. Visitor Characteristics

Of the 773 respondents 63% were male and 37% female, ranging in age from 14 to 82, with a mean age of 40.7 years. The number of users on a trip ranged from 1 to 18 in the Grass River Wild Forest Unit, with a mean party size of 3.8 users. The majority of the users interviewed, 97%, were day users, while the rest of the users camped at least one night in the Grass River Wild Forest area. Of the users interviewed, 57% had been to the Grass River Wild Forest area before, while 43% were first time visitors. Previous users had visited an average of 4.9 times before. The following table lists the visitor characteristics of the Grass River Wild Forest survey participants.

Table 5

Visitor Character	istics	(n-198)	Percent
Gender	(%male)		63%
Age	(mean years)		40.7
Party Size	(mean size)		3.8
Trip Length	(mean days)		1
Previous Visits	(mean times)		4.9

Profile of Visitor Characteristics by Survey Participation

2. User Attitudes

Visitors were asked if they considered six listed conditions to be problems in the Grass River Wild Forest Unit, and if so, how this detracted from their enjoyment of the area. The following table lists the percent of users surveyed that felt that the conditions listed below were detraction elements in the Grass River Unit. *Table 6* - Natural and Social Conditions Observed, and the Percent Indicating the Condition Detracted from Their Enjoyment

Natural and Social Conditions Observed	(% Detracted from Enjoyment)
Trash	72%
Soil Erosion	33%
Damaged Trees	31%
Trampled Vegetation	29%
Exposed Tree Roots	17%
*Military Overflight	2%

*This question was added to the visitor use survey at a later date, and not asked on over 50% of the surveys returned.

Trash (litter) was the most frequently cited negative detraction observed in all of the areas, followed by soil erosion, trees that had been damaged or cut down, and trampled vegetation due to human use.

3. Groups

To understand what the Grass River users expected, and what they experienced in visitor encounter numbers while on their trips, they were asked to indicate whether the number of user encounters experienced was less or more than expected during their trip in a given area. The five response categories were: "far too few," "too few," "about right," "too many," and "far too many" than expected. The largest percentage of visitors reported that the number of groups seen was about right. Most users, 94%, saw what they expected, 10% saw fewer other users than they expected, and 5% saw more users than they expected.

Respondents were also asked if the number of groups seen detracted from their enjoyment; 94%, felt that the number of groups did not detract from their enjoyment of the trail at all.

Three survey questions concerning finding an unoccupied primitive tent site and camping group numbers were not applicable, since overnight camping was such a small percentage, 3%, of the users surveyed.

Visitors were also asked if finding space to park at the trailhead was a problem; 84% indicated that parking was no problem at all.

Summary:

A visitor use survey was conducted in the Grass River Unit during a three-month period during the summer of 2007. Baseline visitor use data was collected from several areas. Responses were obtained from a total of 198 surveys, representing 773 users.

This survey identified the Grass River Unit user as mainly a day user who had visited the area before. Users were predominantly male, in groups of three to four.

Users perceived trash as the major detraction from their enjoyment of the area. The level of use was about right to most respondents. Most of the users surveyed felt that the number of groups seen was what they had expected, and did not detract from their enjoyment at all.

Other Studies

In addition to the 2007 visitor use survey, the Department commissioned the *Draft Northwestern Adirondacks Forest Preserve Visitor Use Study* in 2011. These studies will be revisited and a determination will be made as to whether a more detailed visitor use study is necessary and appropriate.

3. Wildlife

The Grass River Wild Forest parcels are located within Wildlife Management Units (WMU) 6F and 6C. Primary wildlife related usage has historically centered around big game hunting, primarily for deer, although bear hunting, small game hunting and furbearer trapping are also prominent. Most of the adjacent easement lands have not been open to public hunting, but public hunting became available in June of 2012 on the Tooley Pond CE, and will become available in 2014 on the Long Pond CE. Public hunting is not allowed on the Grass River, Seveys, or Silver Lake easements, since it was not one of the rights acquired by New York State. There is currently no assessment of non-consumptive wildlife use available for the unit, although the public access provisions now in effect undoubtedly provide some direct or incidental wildlife viewing opportunities to users.

4. Fisheries

Specific quantitative information about angler use of Grass River Wild Forest or even of the Grass River Unit is unavailable. The major trout fishery in the area is the South Branch of the Grass River in the Tooley Pond Forest Preserve tract. Fishing pressure on this type of water is probably in the range of 100-150 angler-hours/acre/year based on data from other areas (NYS DEC Catch Rate Oriented Trout Stocking Policy), mostly in the spring. Fishing on the areas trout ponds can be expected to peak in April, May and June. Church Pond probably has the greatest use among the area trout ponds. Use rates in the range of 6-10 angler-trips/acre/year could reasonably be expected (Gordon 1993, Pfeiffer 1979). Fishing on warm water ponds likely peaks in July and August. Tooley Pond is probably the most used pond of this type on the GRWF. Use of electric but not gas motors is allowed on Tooley Pond.

Church Pond (as well as Allen and Blue Ponds on adjacent easement lands) is stocked with brook trout, and use and possession of baitfish is prohibited. This water will continue to be managed as an Adirondack brook trout pond and stocked as necessary. Stocking will be conducted in accordance with Bureau of Fisheries policies and the Final Programmatic Environmental Impact Statement on Fish Species Management Activities of the Department of Environmental Conservation Division of Fish and Wildlife (1980). Establishment of additional fish species in Adirondack brook trout ponds may make reclamation necessary to enhance or restore a native fish community. If reclamation is determined to be necessary, the UMP will be amended to include it in the Schedule for Implementation and the associated descriptions will be revised to reflect the new fish community data.

None of the ponds in Grass River WF are currently candidates for liming. If these or other ponds are later determined to be liming candidates based on additional survey work, the UMP will be amended accordingly. Any candidate waters will be inspected by APA to determine wetlands jurisdiction and permits will be obtained if required. Any liming operations will be conducted in accordance with the Final Generic Environmental Impact Statement of the New York State Department of Environmental Conservation Program of Liming Selected Acidified Waters (1990).

5. Water Resources

Use of the waters for angling is discussed earlier in the Natural Resource section of the plan. Since many of the waterbodies have been in private ownership, there has not been a history of use developed. The South Branch of the Grass River receives a considerable amount of use by kayakers and some canoers in the spring, or after heavy rain.

E. Recreational Opportunities for Persons with Disabilities

Application of the Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA), along with the Architectural Barriers Act of 1968 (ABA) and the Rehabilitation Act of 1973; Title V, Section 504, have had a profound effect on how people with disabilities are afforded equality in their recreational pursuits. The ADA is a comprehensive law prohibiting discrimination against people with disabilities in employment practices, use of public transportation, use of telecommunication facilities and use of public accommodations. Title II of the ADA requires, in part, that reasonable modifications must be made to the services and programs of public entities, so that when those services and programs are viewed in

their entirety, they are readily accessible to and usable by people with disabilities. This must be done unless such modification would result in a fundamental alteration in the nature of the service, program or activity or an undue financial or administrative burden.

Consistent with ADA requirements, the Department incorporates accessibility for people with disabilities into the planning, construction and alteration of recreational facilities and assets supporting them. This UMP incorporates an inventory of all the recreational facilities or assets supporting the programs and services available on the unit, and an assessment of the programs, services and facilities on the unit to determine the level of accessibility provided. In conducting this assessment, DEC employs guidelines which ensure that programs are accessible, including buildings, facilities, and vehicles, in terms of architecture and design, transportation and communication to individuals with disabilities. A federal agency known as the Access Board has issued the ADA Accessibility Guidelines (ADAAG) for this purpose.

An assessment was conducted, in the development of this UMP, to determine appropriate accessibility enhancements which may include developing new or upgrading of existing facilities or assets. The Department is not required to make each of its existing facilities and assets accessible so long as the Department's programs, taken as a whole, are accessible. New facilities, assets and accessibility improvements to existing facilities or assets proposed in this UMP are identified in the Proposed Management Actions section.

F. Relationship between Public and Private Land

The mix of public and private landownership in the Grass River Unit is somewhat unique. There are three major types of ownership in the unit. These include the publicly owned Forest Preserve and the privately owned land, which can be categorized further into industrial forest land and small non-industrial holdings. The third type of ownership is a blend, where the state owns an easement on privately owned industrial forest land. The conditions of the easement provide the public opportunities for recreation and the landowner retains ownership and the ability to manage their property for forest products, with some limitations.

The primary purpose of the conservation easements is to maintain and support the sustainable management of forest resources. Forest management should be sustainable and avoid or minimize negative impacts to water quality, soil productivity, sensitive species, biological communities, and other natural resources and provide for the sustained production of forest products. The secondary purposes are to conserve other natural resource values and to provide opportunities for public outdoor recreation.

The proximity of easement lands to Forest Preserve lands in the unit ranges from parcel contiguity to separations of several miles. In cases where easement and Forest Preserve lands are contiguous or close, logging operations and road construction activities may be seen or heard by public recreationists using the Forest Preserve. Forest Preserve recreationists in these circumstances should continue to expect a recreation experience that is impacted by such activities.

Much of the Forest Preserve lands in the GRWF are bordered by private lands subject to conservation easements, including the Tooley Pond, Long Pond, Seveys, Silver Lake and Grass River easements. The easement lands adjoining Forest Preserve parcels give recreationists expanded opportunities and retain open space. Preventing development on the easement areas protects the Forest Preserve lands from many stresses.

For example, access to Stone Dam FP parcel is improved by the public's ability to use the Long Pond CE and the Grass River CE roads. Recreational activities in the Tooley Pond FP parcel are improved because of the Tooley Pond easement land that surrounds the Forest Preserve parcel, and which benefits from the protection provided by the conditions placed on the nearby easement land. The combined area of the two pieces of land allows for the dispersal of recreational activity thereby lessening pressures on the resources. Future management proposals will need to consider the impacts on adjoining private lands as well as the impacts of new public access on the capacity of Forest Preserve lands to withstand the new level of projected use.

Having working forests with easements addresses two different economic issues; tourism and the forest products industry. Tourism and outdoor recreation are becoming more influential in Adirondack community economies, and visitor-related expenditures contribute to the economy of the area. Opening private land to the public for recreation contributes to the tourism portion of the economy. Another strong segment of the local economy is the forest products industry. The continued practice of forest management on the easement tracts is important in the commodities production, labor and value added aspects of the local economy.

A direct economic benefit is the amount of land and school taxes paid to local governments for Forest Preserve and Conservation Easement ("CE") lands. This is especially significant because State lands do not require the same infrastructure, government goods and services demanded by the private sector, but State government pays the same taxes on unimproved forest lands as private landowners do.

Long Pond Conservation Easement

A working forest for many years, the 18,950 acre Long Pond tract has been opened to specific recreational activities through the easement process. The land owner will

continue to conduct forest management operations and has leased certain rights to six different hunting clubs, but public access to the area also allows for biking, hiking, snowshoeing, cross country skiing and horseback riding across much of the parcel. Camping by the public is permitted in accordance with regulations pertaining to state lands. Firewood may be gathered from dead and downed trees for on-site cooking and warmth.

Significant opportunities for motor vehicle access are provided including the main eastwest haul road, from SH 56 to Selleck's Lower Camp, and five secondary haul roads. Snowmobiles and ATV's may also be used on all roads posted open for these activities.

Universal access consistent with the Americans with Disabilities Act is provided for. Most roads are open for ATV use and there are some roads open to motor vehicle use for those with mobility impairments. There are five accessible drive to primitive tent sites which feature a privy, tent pad and fire ring. The surface of the primitive tent site is a firm stable surface suitable for mobility devices. Accessible parking, a privy and a kiosk with a map of the area are provided in the main parking lot.

The Long Pond tract lies within the Grass River watershed and contains several streams and ponds (e.g., Long, Ormsby, and Blue) and the North Branch of the Grass River. The public can use a canoe or kayak on any navigable body of water on the property.

Physical and biological resources contained within the parcel make the area a natural attraction for sportsmen and wildlife observers alike. White-tailed deer, black bear, moose, beaver, coyote, fisher, otter, and bobcat can all be found in the area. In addition, brook trout are stocked in Blue pond and can be found in the tracts other rivers, streams, and ponds. Hunting, fishing and trapping are also allowed; previous restrictions expired in 2013.

Tooley Pond Conservation Easement

This property is located in the northwestern portion of the Adirondack Park in south central St. Lawrence County, within the towns of Clare and Clifton. A component of lands purchased from Champion International, the Tooley Pond tract sits astride the Tooley Pond Forest Preserve tract which encompasses the South Branch of the Grass River and includes Tooley Pond and Tooley Pond Mountain. The Tooley Pond easement tract contains nine named streams and four named lakes and ponds which cover approximately 100 acres, and many acres of wetlands.

Public access to the easement can be achieved by foot, bicycle or other non-motorized means, including hiking, snowshoes, cross country skis, mechanized aids for persons with disabilities and/or horseback. The easement also provides access to some of the

Forest Preserve lands, such as by way of Spruce Mountain Road, which is open for public motor vehicle use from the Tooley Pond Road to the South Branch of the Grass River. The easement is home to a variety of fish and wildlife species. Anglers can expect to find both brook and brown trout in area waters as well as pumpkinseed, brown bullhead, and yellow perch. Size and limit restrictions are in place for trout in Allen Pond, and only electric motors may be used. Public hunting is now allowed as past restrictions have been eliminated.

Grass River Conservation Easement

The Grass River CE is an approximately 51,000 acre tract located within St. Lawrence County, New York in the towns of Clare, Clifton and Colton. The easement opens access to portions of these lands for various recreational activities. It includes access to both the North and Middle Branches of the Grass River.

The tract contains more than twelve ponds and lakes: Clear Lake, Pleasant Lake, Cranberry Pond, Long Pond, Mile Pond, Horseshoe Pond, Parmater Pond, Mile Pond, Tracy Pond, Slouch Pond, Wolf Pond and Brothers Ponds. There are also numerous streams and brooks: Alder Brook, Gulf Brook, Bear Creek, Pleasant Lake Stream, Stoney Brook, and Blue Mountain stream. The Middle and North Branches of the Grass River are designated Scenic Rivers. There are outstanding opportunities for public recreational use of these watercourses.

Motorized recreation (e.g., snowmobiles, ATV's) is confined to specific linear recreation corridors. Snowmobile access to the easement connects to existing trails on adjacent lands. ATV use is managed in a manner designed to prevent damage to the natural resources and biological diversity of the tract, and to provide connection to ATV routes on adjacent lands.

Non-motorized recreation use of the easement includes hiking, biking, and camping in designated sites. The nicest hike on the property is to Little Blue Mountain that has a view to the south that is extraordinary for this part of the Adirondacks. The public also has the right to fish and trap along designated river corridors. Public hunting on these easement lands is not allowed.

Public use of the watercourses and on designated roads and trails will be from December 16th through September 30th annually. During the period from October 1st to December 15th, the landowner has reserved recreation rights to the land with two exceptions: access to Blue Mountain continue through October 10th annually, and there can be year-round use of an easement road into the Stone Dam Forest Preserve parcel adjacent to this property.

Silver Lake Conservation Easement

Silver Lake CE is a family owned parcel centered on Silver Lake in the town of Clifton, St. Lawrence County, New York. The easement agreement allows the family to manage the land for private and economic goals while providing the State an opportunity for limited recreation opportunities for the public.

Forest management is prescribed to protect riparian zones, wetlands, and natural habitats from impacts associated with timber harvests. Future subdivision of the tract is limited to preserve its open space characteristics.

Public access includes various forms of non-motorized use such as hiking, biking, horseback riding and skiing on a couple of specific existing roads/trails. The easement also provides for a couple of snowmobile routes that connect with routes on adjacent lands. At this time, none of the recreation opportunities are available to the public as the routes on the adjacent private lands are not open to the public.

Seveys Conservation Easement

The Seveys tract is located within St. Lawrence County, New York, within the town of Colton. The total land area measures 11,933 acres. Access to the tract is by SH 3 and SH 56, which bisect the tract. Most of the property provides only public snowmobile access, including an estimated sixteen miles of potential snowmobile trails with several opportunities for connections to trails on adjacent lands. Public use on the portion of the property called Raquette River Point may include: hiking, fishing, nature observation, camping, picnicking and canoeing/kayaking on the Raquette River. An access site to the river has now been opened and the Point may also be opened for public use in the near future.

The tract has three ponds including Seveys Pond, (32 acres) and a complex network of watercourses exist within the tract, including: Windfall Brook, Mink Brook, Tuttle Brook, Jocks Pond outlet, and Sampson Pond outlet. In addition, the Raquette River that adjoins the northeastern portion of the tract is classified Scenic.

The tract is located within the Central Adirondack Mountain ecological zone of New York State. Throughout the tract, a mixture of forest types can be found, including northern hardwoods, mixed woods, and softwoods of various classes.

The tract has several areas with visual/scenic significance including Seveys Bog, which has historically been considered as a high quality scenic area, as well as a biologically unique and diverse habitat and former, if not current, habitat for spruce grouse.

G. Capacity to Withstand Use

Carrying Capacity Concepts

The Grass River Wild Forest, like any other natural area in our Forest Preserve, cannot withstand ever-increasing, unlimited visitor use without suffering the eventual loss of its essential, natural character. The challenge for managers is to determine how much use and what type of use the area, or particular sites within it, can withstand before the impacts of use cause serious degradation of the resource or recreational experience. Such is a wildland manager's most important and challenging responsibility; however: to work to ensure a natural area's "carrying capacity" is not exceeded while concurrently providing for visitor use and benefit.

The term "carrying capacity" has its roots in range and wildlife management sciences. As defined in the range management sciences, carrying capacity means "the maximum number of animals that can be grazed on a land unit for a specific period of time without inducing damage to the vegetation or related resources" (Arthur Carhart National Wilderness Training Center, 1994). This concept, in decades past, was modified to address recreational uses as well; although in its application to recreational use it has been shown to be significantly flawed when used to determine the maximum number of people allowed to visit an area such as the Grass River Wild Forest. After many years of study, basic research showed that there was no linear relationship between the amount of use and the resultant amount of impact (Krumpe and Stokes, 1993). For many types of activities, low levels of use can cause observable impacts. For example, in sensitive areas the elimination of ground vegetation at a primitive tent site can become significant after only a few camping parties have occupied it. Once moderate use levels have removed nearly all the vegetation, large increases in use cause relatively little additional impact. It has been discovered that such factors as visitor behavior, site resistance and resiliency and type of use may be more important in determining the degree of impact than the amount of use, although the total amount of use contributes to a significant extent (Hammit and Cole, 1987).

The shortcomings of a simple carrying capacity approach have become so apparent that the basic question has changed from the old one, "How many is too many?" to the new, more realistic one: "How much change is acceptable?" Because of the complex relationship between use and use impacts, the manager's job is much more involved than simply counting, redirecting, or restricting the number of visitors in an area. Professionally-informed judgments must be made so that carrying capacity is defined in terms of acceptable resource and social conditions. These conditions must be compared to real life situations, projections must be made, and management policies and actions must be drafted and enacted to maintain or restore the desired conditions. Shaping the types of use impacting an area can call not only for education and

research, but also the formulation and enforcement of a set of regulations which some users are likely to regard as objectionable.

This shift in managers' central focus – away from trying to determine how many visitors an area can accommodate to trying to determine what changes are occurring in the area and whether or not they are acceptable – is as critical in a Wild Forest Unit, as it is in a Wilderness Unit. All such areas are State Forest Preserve units which must be protected, as per the state Constitution, as "forever wild." Furthermore, the APSLMP dictates in the very definition of Wild Forest areas that their "essentially wild character" be retained. A central goal of this plan is to achieve resource protection while providing for public use in the Grass River Wild Forest.

The magnitude of the challenge here is made evident by other statements and acknowledgments found in the APSLMP concerning Wild Forest areas. The 1972 APSLMP claim that

"[m]any of these areas are under-utilized" remains seemingly true, and from this determination and the determination that these areas "are generally less fragile, ecologically comes a directive that "these areas should accommodate much of the future use of the Adirondack forest preserve.

Clearly, a delicate balancing act is called for, and yet just as clearly, the Department's management focus must remain on protecting the resource. "Future use" is not quantified in the above directive, but it is generally quantified and characterized in the definition of Wild Forest as only "a somewhat higher degree of human use" when compared to Wilderness. And whereas certain "types of outdoor recreation... should be encouraged," they must fall "within constitutional constraints...without destroying the wild forest character or natural resource quality" of the area.

A central objective of this plan, then, is to lay out a strategy for achieving such a balance in the Grass River Wild Forest unit. This strategy will help insure that its "essentially wild character" will be retained, as required by the APSLMP.

Planning Approach

The approach to the development of a unit management plan for the Grass River Wild Forest involves a combination of two generally accepted wilderness planning methods: (1) the goal-achievement framework; and (2) the Limits of Acceptable Change (LAC) model employed by the U.S. Forest Service and other agencies.

Goal-Achievement Framework

In wild forest areas, the Department is mandated by law to implement actions designed to realize the intent of the wild forest guidelines of the APSLMP. The goal-achievement

framework will be used to organize this management plan to direct the process of determining appropriate management actions through the careful development of goals and objectives. Goals are general descriptions of management direction reflecting legal mandates and general conditions to be achieved or maintained in the Grass River Wild Forest. Wild forest goals, along with guidance for the future of the Grass River Wild Forest, can be found in Section III-C. Objectives are statements of more specific conditions whose achievement will be necessary to assure progress toward the attainment of the established goals and principles. In each category of management activity included in Section IV of this plan, the current management situation is assessed and assumptions about future trends and conditions are discussed. Proposed management objectives describing conditions to be achieved are presented and individual actions to meet the objectives are proposed.

However, this approach does not identify specific thresholds of unacceptable impact on particular resources or give managers or the public clear guidance as to when a particular restrictive management action is warranted. For these issues, the LAC process will be used.

Limits of Acceptable Change (LAC) Process

The LAC process employs carrying capacity concepts to prescribe-not the total number of people who can visit an area-but the desired resource and social conditions that should be maintained regardless of use. Establishing and maintaining acceptable conditions depends on explicit management objectives which draw on managerial experience, research, inventory data, assessments, projections and public input. Indicators, measurable variables that reflect conditions, are chosen and standards, representing the bounds of acceptable conditions, are set, so management efforts can address unacceptable changes. The LAC process relies on monitoring to provide systematic and periodic feedback to managers.

Though generally the levels of human impact within the Grass River Wild Forest unit are relatively low, several management issues could be addressed by the LAC process. Such issues may be categorized as conflicts between public use and resource protection, conflicts between users, and conflicts between outside influences and the objectives for natural resource or social conditions within the unit. For instance, two goals of management are protecting natural conditions and providing public recreational access. Yet the promotion of recreational use could have unacceptable impacts to natural resources, such as the soils and vegetation in a popular camping area. The LAC process could be used to determine the thresholds of acceptable soil and vegetation impacts and what management actions would be taken to protect resources from camping use. LAC does not work in every situation. For example, managers do not need a process to help them determine how much illegal ATV use is acceptable;

because existing wild forest guidelines and regulations strictly limit public motor vehicle use, all illegal motor vehicle use is unacceptable.

The LAC process involves 10 steps:

- 1. Define Goals and Desired Conditions
- 2. Identify Issues, Concerns and Threats
- 3. Define and Describe Acceptable Conditions
- 4. Select Indicators for Resource and Social Conditions
- 5. Inventory Existing Resource and Social Conditions
- 6. Specify Standards for Resource and Social Indicators for Each Opportunity Class
- 7. Identify Alternative Opportunity Class Allocations
- 8. Identify Management Actions for Each Alternative
- 9. Evaluate and Select a Preferred Alternative
- 10. Implement Actions and Monitor Conditions

The application of the LAC process will require a substantial commitment of staff time and public involvement. The full implementation of LAC for each unit will occur over a period of years. Of the 10 steps of the LAC process, this plan implements step 1, 2, and 3, which apply to all the resources and conditions of the unit. The application of steps 4, 5, and 6 to selected issues is proposed for the next five years.

As part of step two of LAC, this UMP identifies significant management issues affecting the Grass River Wild Forest. For these issues, the Department will implement the four major components of the LAC process:

- The identification of acceptable resource and social conditions represented by measurable indicators;
- An analysis of the relationship between existing conditions and those desired;
- Determinations of the necessary management actions needed to achieve and preserve desired conditions; and,
- A monitoring program to see if objectives are being met over time.

Though LAC will not be fully implemented, this plan provides resource inventory information, sets goals founded on law, policy and the characteristics of the area,

identifies management issues, and lays out proposed objectives and actions designed to meet management goals. Ultimately a monitoring system will be put in place, and management actions will be revised and refined over time in response to the results of periodic evaluation to assure that desired conditions will be attained or maintained.

A prioritized list of indicators which will be used by the DEC for measuring and evaluating acceptable change on the Grass River Unit are:

- Condition of vegetation in camping areas and riparian areas near lakes and streams;
- Extent of soil erosion on trails and at primitive tent sites;
- Noncompliant behavior;
- Noise on trails and in primitive tent sites;
- Conflicts between different user groups;
- Diversity and distribution of plant and animal species;
- Air and water quality.

These indicators form the basis for the proposed management actions presented in Section IV. Each applicable resource area or facility type identified in Section IV will be assessed for its present condition, its desired future condition and how it will be measured. This approach will require flexibility, determination and patience. It may not be possible to complete all inventories and assessments called for by this strategy - and by the APSLMP - in this plan's five-year time frame. It will be important to show progress in achieving APSLMP goals and in gaining initial managerial experience and knowledge in applying this strategy to some carrying capacity questions and issues. Knowledge gained as a result of the implementation of the Grass River Wild Forest unit management plan will be useful to: 1) revising and refining management actions if evaluation shows that desired conditions are not being attained or sustained; and 2) creating a foundation upon which this strategy can eventually be built into a fullydeveloped, science-based approach to protecting and managing the unique resources of the Grass River Unit.

Impacts of Public Use

The assessment of the impacts of public use within the Grass River Wild Forest unit has been limited to staff observations and initial assessments of primitive tent sites. While additional information is needed about overall public use of the Grass River Wild Forest unit and the impacts of use on the area's physical and biological resources, as well as its social impacts, the planning team considered the best available information. For ease of organization, the capacity of the Grass River Wild Forest unit to withstand use is divided into three broad categories: physical, biological, and social. For each category, the definition of capacity will be followed by the known current situation within the Grass River Wild Forest unit. The management objectives and proposed management actions to deal with existing or potential future problems are presented in Section IV of this plan.

- **Physical capacity** May include indicators that measure visitor impacts to physical resources (e.g. soil erosion on trails, primitive tent sites and access sites) and changes to environmental conditions (e.g. air and water quality).
- **Biological capacity** May include indicators that measure visitor impacts to biological resources (e.g. vegetation loss at primitive tent sites or waterfront access sites) and changes in the ecosystem (e.g. diversity and distribution of plant and animal species).
- **Social capacity** May include indicators that measure visitor impacts on other visitors (e.g. conflicts between user groups), the effectiveness of managerial conditions (e.g. noncompliant visitor behavior), and interactions with the area's physical or biological capacity (e.g. noise on trails, primitive tent sites and access sites).

1. Land Resources

a. Physical

The physical capacity of a land area to withstand recreational use is the level of use beyond which the characteristics of the area's soils, water and wetland resources, and topography undergo substantial unnatural changes. The capacity of a particular site is related to slope, soil type, ground and surface water characteristics, the type of vegetation that occupies the site, and the types or amount of recreational activity to which the site is subjected. In some cases, physical impacts observed within the area are due to erosion brought on by inadequate or infrequent maintenance or poor layout and design, rather than actual use. In other instances, impacts may be caused by illegal uses of the area.

Current use numbers for the Grass River Wild Forest unit are relatively low, based on field staff observations, when compared to other units on the Forest Preserve. Overuse of designated or developed facilities does not appear to be a problem on the Grass River Wild Forest unit, except for use impacts and sanitation at Lampson Falls.

Air quality in the region including the Grass River Wild Forest unit is largely a product of forces and activities originating outside the unit. The air quality impacts resulting from

the building of campfires by visitors are limited and localized. Smoke from campfires is not known to have significant ecological effects. The effects of exhaust emissions from snowmobile use within this unit have not been comprehensively studied or documented.

The administration of Forest Preserve land is the responsibility of the Division of Lands and Forests. The responsibility for the enforcement of DEC rules and regulations lies with the Office of Public Protection. The Division of Operations conducts interior construction, maintenance and rehabilitation projects. The Bureau of Recreation within the Division of Operations operates and manages the public campgrounds adjacent to the unit. The Division of Fish, Wildlife and Marine Resources manages the state's fish and wildlife resources.

b. Biological

The biological capacity of a land area to withstand recreational use is the level of use beyond which the characteristics of the area's plant and animal communities and ecological processes sustain substantial unnatural change. A review of available information indicates that the level of use within the unit does not appear to be exceeding the capacity of the biological resources to withstand use.

c. Plant Life

Impacts from public use to area vegetation include illegal tree cutting, removal of brush, and loss of vegetation due to expansion of primitive tent sites. Additional impacts to this resource involve tree cutting allowed by easement or road and utility line maintenance (under TRP) or tree removal associated with trail maintenance, rehabilitation, and development. Another potential impact is the introduction of invasive species into the unit.

2. Fish and Wildlife Resources

Fisheries

Public use of the fishery resources is described under section II. D. 3. Since no major changes in access to aquatic resources are anticipated, future use levels are expected to be similar to existing levels. Current stocking policies and fishing regulations apparently provide adequate protection to area fishery resources.

Wildlife

Present wildlife use is considered by Wildlife Managers to be within sustainable levels and is not anticipated to change substantially in the short to mid-term future. Most documented wildlife use is currently big game hunting related and a look at recent harvest trends suggests harvest is compatible with available resources. Annual hunting effort for these two species, (deer and bear) is assumed to be fairly consistent from year to year, making the harvest trend information a relatively good indicator of the population increases or decreases over time. Deer and bear harvests for the unit can be extrapolated from town data and estimated based on the percentage of the total town area occupied by the Grass River Wild Forest unit. The four towns in which the unit is located (Clare, Clifton, Colton, and Fine) occupy 671 square miles, while the unit covers approximately 288.6 square miles, or 43% of the total. The table below shows the estimated deer and bear takes for the unit over the past 5 years:

Estimated Bear Harvest 2005-2010

	Clare	Clifton	Colton	Fine
2005	0	2	2	6
2006	1	5	9	0
2007	4	0	1	9
2008	2	9	23	12
2009	3	10	13	11
2010	4	2	6	8

Estimated Deer Harvest 2005-2010

	Clare C	Clifton	Colton	Fine
2005 buck		66	181	87
Total		71	225	138
2006 buck		62	202	105
Total		80	267	161
2007 buck		95	264	145
Total		100	331	206
2008 buck		102	296	130
Total		110	349	201
2009 buck	-	78	212	108
Total		84	278	164
2010 buck		69	177	86
Total		81	250	156

Fine
126
66
151
82
121
73

Estimated Beaver Harvest 2005-2010

Estimated Otter Harvest 2005-2010

	Clare	Clifton	Colton	Fine
2005	21	24	24	12
2006	17	19	17	6
2007	7	8	9	15
2008	3	2	1	13
2009	4	9	13	12
2010	4	12	19	10

Estimated Bobcat Harvest 2005-2010

	Clare	Clifton	Colton	Fine
2005	0	1	5	1
2006	5	3	2	1
2007	1	2	0	0
2008	0	0	5	0
2009	2	2	4	1
2010	2	5	1	1

Estimated Fisher Harvest 2005-2010

	Clare	Clifton	Colton	Fine	
2005	8	6	16	7	
2006	17	11	17	8	
2007	16	16	23	11	
2008	4	5	46	9	
2009	2	7	14	3	
2010	5	7	0	6	
Estimated Coyote Harvest*					
	Clare	Clifton	Colton	Fine	

2005 17 2 3 3

* There are no specific requirements for reporting coyotes since the 2004 season. The harvest is estimated, based on information collected as part of the NYS Small Game Hunters and Trapping Survey. The 2005 totals are broken down by township and do not distinguish between hunting and trapping efforts.

Fur-bearer harvest can be estimated for the unit to illustrate the presence of several species. Trapping effort is known to vary somewhat annually in response to weather conditions and pelt prices, particularly in areas with low resident human densities (e.g.: trappers will not travel as far when prices are low). Thus, the estimates above cannot be used for population trend purposes, but rather for indication of presence.

Deer Wintering Areas

The maintenance and protection of deer wintering areas (or deer yards) are important in maintaining northern deer populations. These areas provide deer with relief from the energetic demands of deep snow and cold temperatures at a time when limited fat reserves are being used to offset reduced energy intake (i.e., nutritionally, winter browse is poor) Previous researchers have demonstrated that deer consistently choose wintering areas which provide relief from environmental extremes over areas that may provide more abundant forage (Severinghaus, 1953; Verme, 1965). These observations are consistent with the fact that the nutritional value of winter browse is poor due to low digestibility and that deer can expend more energy obtaining browse than the energy gained by its consumption (Mautz, 1978).

Severinghaus (1953) outlined several habitat components of deer yards, including topography and forest cover type (i.e., presence of conifers). The most important characteristic of an Adirondack deer yard is the habitat configuration making up a "core" and travel corridors to and from the core. The core is typically an area, or areas, of dense conifer cover used by deer during severe winter weather conditions. Travel corridors are dense but narrow components which allow access to food resources (hardwood browse) in milder conditions. Use of wintering areas by deer can vary over time depending on winter severity and deer population density. Although Severinghaus (1953) reported that some Adirondack deer yards have been used since the early 1800's, recent research suggests that the location of some current deer yards may overlap very little (or not at all) with their historical counterparts mapped in the late 1960's and early 1970's by NYSDEC (Hurst, 2004) Therefore, planning for the protection of deer wintering areas relative to recreational activities in the unit should consider the dynamic nature of these areas (not the static representation of historical boundaries) and seek to update our understanding of wintering areas currently used by deer.

Some human uses do have the potential to affect wildlife resources on the unit, particularly relative to portions critical to deer survival in the winter. Some guidelines for use regulation in proximity to the identified deer wintering yards follow:

Guidelines for Protection of Deer-Wintering Areas

The maintenance and protection of deer-wintering areas are important in maintaining deer in the northern portions of their range. Activities which substantially diminish the quality or characteristics of the site should be avoided, but this does not mean human use is always detrimental. Forest stewardship activities (including softwood harvest), pass through trails, and other uses can be compatible with a deer yard if carefully considered. The most important characteristic of an Adirondack deer yard is the habitat configuration making up a "core" and travel corridors to and from the core. The core is typically an area (or areas) of dense conifer cover used by deer in severe conditions. Travel corridors are dense but narrow components which allow access to food resources in milder conditions. Forest management practices which afford protection of core sections and avoid fragmenting travel corridors are acceptable in many situations.

Research on wildlife responses to winter recreation (e.g., cross-country skiing, foot travel, and snowmobiling) is limited. Studied conducted on mule deer (Freddy et al., 1986) and elk (Cassirer et al., 1992) suggest that these species can be disturbed by these activities. However, when planning the location of recreational trails, general guidelines for protecting deer wintering areas can be followed which should reduce the potential for disturbance.

Activities which substantially diminish the quality or characteristics of the site should be avoided, but this does not mean human use is always detrimental. Pass through trails, and other recreational uses can be compatible with deer wintering areas if they are carefully considered. Recreational planning which affords protection of core sections and avoids fragmenting travel corridors are acceptable in many situations. Certain types of recreation such as cross-country skiing are not presently considered to significantly impact deer yards in an overall negative way, particularly if the traffic along trails is not prone to stopping or off-trail excursions. These types of trails in or adjacent to deer wintering areas can provide a firm, packed surface readily used by deer for travel during periods of deep snow. They can also create access for free-roaming dogs if the location is close to human habitation; thus, trails should avoid deer yards in these situations. High levels of cross-country ski use can increase the energy demands of deer within the yard due to increased movement. Some general guidelines follow:

• Maintain a minimum 100-ft buffer on either side of streams to protect winter habitat and travel corridors between core yard components.

- Discourage large clear cuts of mature softwood stands within conservation easements, (except in locations where habitat restoration projects for spruce grouse are needed or ongoing). Plan softwood timber harvests utilizing small strip or block clear cuts with a rotation long enough to ensure interconnected portions of mature softwood cover (12+ meters in height) remain intact (50 to 60% of the mature softwood trees). Encourage private landowners to discuss management options for spruce grouse with DEC wildlife staff, to discuss and conduct management consistent with the Spruce Grouse Recovery Plan, (Ross and Johnson, 2012).
- Avoid placement of ski trails through core segments of deer yards to reduce disturbance associated with skiers stopping to observe deer.
- Avoid placement of snowmobile trails through core segments of deer yards to reduce potential disturbance to deer.
- Snowmobile trails traversing deer yards should be designed for through traffic, functioning much as a highway.
- Snowmobile trails passing through a yard should be designed to sustain moderate speeds to avoid vehicle/deer collisions and should be of sufficient width as stated in Management Guidance: Snowmobile Trail Siting, Construction and Maintenance on Forest Preserve Lands in the Adirondack Park.
- Trails should not traverse core segments of deer yards near densely populated areas such as hamlets, villages, or along roadsides developed with human habitation because they provide access to free roaming dogs.
- In areas with nearby human habitation, avoid land uses which result in remnant trails, roadways or other access lanes which facilitate access by free-roaming dogs.

Modern snowmobiles designed for on-trail usage are not presently considered to significantly impact deer yards in a negative way. The use associated with this activity is essentially identical to other motorized thoroughfares (such as highways) allowing resident animals to readily acclimate. Snowmobile trails in or adjacent to deer wintering yards may also provide a firm packed surface readily used by deer for travel between yard components during periods of deep snow.

3. Social

The social capacity of a land area to withstand recreational use is the level of use beyond which the likelihood that a visitor will achieve his or her expectations for a

recreational experience is significantly hampered. Social capacity is strongly influenced by an area's land classification, which in turn determines the management objectives for the area and the degree of recreational development possible. While solitude may be managed for in some locations, it is not as important a component of the recreational experience in Wild Forest Areas as it is in Wilderness. Social conflicts mainly occur due to recreationists seeking different experiences. A source of tension can derive from different ideas of what constitutes a camping experience; some visitors anticipate spending a quiet evening observing their natural surroundings, while others look forward to a party atmosphere.

User satisfaction from recreating is a function of both perception and expectation with the presence, number, and behavior of others encountered having a direct influence on the quality of the experience. Compatibility between users usually involves how quiet or noisy an activity is, whether it is consumptive or non-consumptive, whether it involves individuals or groups, and whether it is a traditional or newly introduced activity. A few recreationists feel that other users degrade the quality of their own experiences. Particularly controversial in this respect are motorized recreational activities to which people involved in non-motorized activities often object.

Sound related impacts can cover a large area but are generally temporary in nature with little or no physical effect on the environment. Loud noise could impact wildlife or alter the experience of a person seeking to escape the sounds of civilization. For other users, particularly those using motor vehicles such as snowmobiles, the sound is an expected normal part of the overall recreational experience.

According to available information and the low level of reports of user conflict, the current level of public use within the Grass River Wild Forest unit is not believed to be exceeding the social capacity of the area to withstand use.

H. Education, Interpretation and Research

Scientific research activities on the Grass River Wild Forest are conducted under Temporary Revocable Permits from the Department. Researchers, as part of the TRP process, will be required to report to the DEC in writing on the findings of each research project. Research projects may include TRP's for: collection of plant specimens, effects of acidic deposition on fish and water quality, geological research, and stream monitoring and water chemistry, for example. This type of research is compatible with the area's natural resources and consistent with APSLMP guidelines. Collection of specimens requires prior approval by DEC and the Director of the State Science Service of the NYS Museum. The Boy Scouts are a group that often uses the area for general outdoor education activities and often hike the trailed mountains. Other groups use the land and water for teaching classes about kayaking, canoeing, skiing, snowshoeing, orienteering and other outdoor activities.

Biologists at the New York State DEC are currently evaluating historically occupied and potential sites for spruce grouse to document population trends and shifts in site occupancy as an expressed need identified in the recovery plan. Habitat favorable for spruce grouse exists in the unit, but populations of the bird have not been confirmed since 2002, which may be due to population dynamics rather than a lack of quality habitat present. The DEC is also conducting a translocation of spruce grouse at historically occupied sites to bolster population numbers and improve genetic diversity of existing populations. Intensive study of the species at set intervals is expected to occur through 2022, at which time a refinement of the population viability analysis will take place.

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III. Management and Policy

A. Past Management

1. Land Management

Tooley Pond

Prior to state acquisition this parcel was managed primarily for timber production. Because of the South Branch of the Grass River's Scenic river classification under the Wild, Scenic and Recreational Rivers (WSSRA), past forest management within the river corridor was conservative and the view from the river shows little evidence of forest management activities.

In 1908, 11,000 acres of the parcel burned.

A fire tower was operated on Tooley Pond Mountain under an agreement between NYS and the landowner. The observer's cabin has been removed and the fire tower has been moved and re-erected at the Ranger School in Wanakena, at Cathedral Rock.

A few of the parcel's waters were studied during the original 1931 NYS Biological Survey, some during the 1940's and 1950's, and most recently, by the Adirondack Lakes Survey Unit during 1985 and 1986. At present, all the area's waters are managed for self-sustained populations of resident fish species.

Lampson Falls

Lampson Falls is a popular destination for day hikers and overnight campers. Management has been focused on maintaining the trail, primitive tent sites and privy.

A bridge that had been the access to the trail and primitive tent sites on the west side of the river was washed away during the 1998 ice storm.

Lampson Falls is one of the most spectacular waterfalls in the Adirondacks with a vertical drop of approximately 40 feet. In 2006, the Lampson Falls trail was retrofitted to provide accessible parking and trail access for persons with disabilities. Reserved roadside parking is located at the entrance to the facility (St. Lawrence County DPW constructed the accessible roadside parking area) and the trail was reconstructed to meet ADA trail guidelines, making it suitable for use by persons with mobility devices. This 2,900 foot long trail provides an enjoyable trip through forest land ending at an overlook at the falls. Most of the trail is at a grade of 5% or less, however users should be prepared for steeper grades of up to 10% to get them to a point at mid-falls for a

view of the falls and the surrounding area. Level resting areas are provided at close intervals. The trail ends at the viewing area.

Stone Dam

The Department acquired the Stone Dam parcel in the early 1900's. The forest on this parcel exhibits characteristics of an old growth or late successional forest, due to the fact it has been over 100 years since any harvesting took place. It is not known if the original owner cut any timber on the parcel, and there is certainly no evidence today. Old maps indicate a small mine was located here. It probably yielded a small amount of gravel for railroad and road construction.

A splash dam on the Middle Branch of the Grass River was built to help float logs to sawmills operating downstream. Remnants of the dam remain visible today.

A group of designated primitive tent sites near the dam are used mostly during big game hunting season. Some of these sites will have to be closed as they are not compliant with the spacing requirements in the APSLMP for primitive tent sites.

Church Pond & Leonard Pond

These two parcels have histories of use that are typical of Adirondack forest land. Before state acquisition the land was managed primarily for timber production.

More recently, since acquisition, the parcels have not been heavily used by the public. The foot trail on Church Pond parcel has not been used enough to maintain, because of the wetlands it crosses. An alternative route will be sought so that the public can use the area in an environmentally sound manner. Church Pond is stocked with brook trout annually. The road through Leonard Pond parcel historically has been the route used for the Hollywood Club, a private landowner west of Leonard Pond.

The resurfacing of part of an old roadbed an on an esker off SH 56 near Chandler Pond, and the addition of a small section of wooden edge protection to allow for accessible parking was recently completed. This allows an opportunity for persons in mobility devices to view a small pond from the road surface.

Cranberry Pond

This parcel was acquired by New York State in 1888. In 1913 an "Examination of State Lands" was done which noted monuments at the two south corners of the parcel as well as marked trees on the south and east lines. In 1929, Ernest Blue surveyed and mapped this parcel. Blue found no evidence of the original monuments or line marking and set four new corners. He also stated that he did not search for evidence of the previous location. In 1967, George Cook surveyed and mapped this lot. Cook checked the work that Blue had done and did extensive reconnaissance work on six parcels in

the immediate area, and of the pertinent lot lines. It appears that the original survey of this lot, by Ernest Blue in 1929 was in error. Evidence was found and verified, and the parcel was monumented in the proper location. The 1913 "Examination of State Lands" noted that the parcel was 95% covered by virgin forest. In 1967, Cook noted that local information and stump evidence indicated that the correct (southerly) parcel had been logged in the late 1920's or early 1930's.

Town of Fine Parcels

Two small parcels are quite isolated and their history is not known. It can be assumed that the forests supplied firewood and perhaps small amounts of lumber in the past.

Grass River Railroad

This 66' wide strip of land extends from near the hamlet of Conifer to just north of the hamlet of Cranberry Lake. A significant portion of the parcel south of SH 3 is open for public motor vehicle and snowmobile use, but north of SH 3, in the GRWF, it is not currently in use due to the absence of a bridge over the South Branch of the Grass River, and lack of a legal connection into the hamlet of Cranberry Lake.

Conservation Easements

The Long Pond, Tooley Pond, Seveys, and Grass River CE lands share a similar past. These areas have been managed for timber production for many years. DEC management has been minimal. Activities conducted include some fish stocking, unofficial deer yard monitoring, routine record keeping regarding furbearer, deer and bear harvesting, and forest management monitoring to ensure conservation easement compliance.

Since the Silver Lake easement is close to a hamlet it was used more for agriculture and residence than timber production. The DEC holds the easement for the public's use of the snowmobile trail that exists there.

2. Wildlife Management

Past and present wildlife management activities on the Grass River Wild Forest unit have been shaped largely by Article XIV of the New York State Constitution that provides that the lands of the Forest Preserve "shall be forever kept as wild forest lands" and that the timber thereon shall not be "sold, removed, or destroyed." Therefore, habitat management through the use of timber harvesting, prescribed burning, or other means of modifying the vegetation to alter wildlife habitat is not permissible in the unit. Additionally, NYCRR §194.2 (b) prohibits prescribed fires to be set on Forest Preserve lands. Options for wildlife management in the Forest Preserve include the setting of hunting and trapping seasons, setting harvest limits, defining manner of taking, restoring or augmenting populations of native species, preventing the introduction of non-native species, and removing non-native species.

Hunting and Trapping Regulations

Regulations controlling season dates, method of taking, and bag limits for wildlife have been the principal wildlife management techniques applied to unit lands. Early regulations were written consistent for all of northern New York (equivalent to the Northern Zone). In the past, DEC subdivided the State into numerous Deer Management Units (DMU) for big game and Wildlife Management Units (WMU) for small game and furbearers. Each unit was defined according to its distinctive ecological and social characteristics. In an effort to make hunting and trapping regulations more user friendly and easier to understand a single set of management units is now used for all species. Boundaries were adjusted when necessary and a new alpha-numeric identification system was created. Decisions concerning wildlife management are ordinarily based upon these management units which are typically larger than individual forest preserve units. The Grass River Unit occupies a portion of the larger forest stands and landforms within WMU 6F and WMU 6C, the number indicating the wildlife region generally responsible for that unit.

Deer hunting in the Adirondack Mountains is steeped in tradition and has had a significant influence on the evolution of the Adirondack Park. Whitetail deer have influenced important cultural and economic decisions in northern New York. In surveys conducted by the Department during the 1970's and 1980's, there were 15 winter deer yards identified within the Grass River Unit. Deer wintering yards are an important component of whitetail deer habitat. Therefore, it is important that they be carefully managed.

Waterfowl season parameters are largely established by Federal authority, but states have some flexibility for season modifications within the Federal framework.

Nuisance Wildlife Policy

The Bureau of Wildlife investigates nuisance wildlife complaints on a case-by-case basis. The DEC does not actively control nuisance wildlife except when the behavior of wildlife is deemed to threaten the lives of visitors. No major conflicts between visitors to the unit and resident wildlife have been reported. Beaver activity occasionally floods trails or roads in the unit.

Surveys and Inventories

Over the years, both game and non-game species of wildlife and significant wildlife habitats have been the subjects of various surveys and inventories. Maps showing the locations of significant wildlife habitats have been created and are continually updated by DEC's Wildlife Resources Unit. Significant habitats within the unit are described in the Section II.A.4, Critical Habitat.

Annual flights through the Adirondacks to inventory active osprey nests and to determine nesting success are conducted by the Bureau of Wildlife. Eagle and peregrine falcon nests, and deer wintering areas are monitored annually. Periodically, DEC and private agencies have surveyed common loon populations in the State. Since 2001, the DEC conducts an annual loon census. DEC is also part of a joint project to study the common loon migration routes, staging areas, and wintering grounds. The most recent Breeding Bird Atlas Project was conducted from 2000 to 2005 and conducted a census of breeding birds statewide. Appendix A lists the Breeding Bird Atlas data for the Grass River unit. As mentioned elsewhere, harvest figures are collected annually for a variety of game species. In addition, spruce grouse surveys were conducted statewide from 2002 to 2006, and four historically occupied sites within the Grass River unit were surveyed. The Spruce Grouse Recovery Plan (Ross and Johnson, 2012) calls for periodic (every 3-year) surveys of all historically occupied sites and any potential habitat to maintain knowledge of the status and distribution of the species in the state.

Species Restoration

Many wildlife species once native to the Adirondacks were extirpated either directly or indirectly as a result of human activities. In recent years, recognizing the desirability of at least partially restoring the composition of wildlife species originally present in the Adirondacks, DEC and others have launched projects to reintroduce the peregrine falcon, bald eagle, and Canada lynx.

DEC began an effort to reintroduce the peregrine falcon to the Adirondacks in 1981 by implementing a method of artificially rearing and releasing young birds to the wild called "hacking." Between 1983 and 1985, 55 bald eagles were also hacked within the Adirondack region. The peregrine and bald eagle restorations have been very successful statewide, but no nesting activity by either species has been discovered within the unit since the end of the hacking program.

The State University of New York College of Environmental Science and Forestry, through the Adirondack Wildlife program, conducted an experimental project to reintroduce the Canada lynx to the Adirondack High Peaks region. Lynx were first released in 1989; a total of 83 animals were released by the spring of 1991. The restoration was considered to be a failure, as a viable lynx population has not been re-established in the Adirondacks.

An important action of the Spruce Grouse Recovery Plan, (Ross and Johnson, 2012) is to reintroduce spruce grouse individuals into two historically occupied sites near the

core of the species current distribution. Because of its location near the core of the spruce grouse's remaining distribution, the Grass River unit may serve as a good area to reintroduce the species and monitor results.

Invasive/Exotic Wildlife

A Non-indigenous Aquatic Species Comprehensive Management Plan prepared by the Department in 1993 identifies strategies to eliminate or reduce environmental, public health, and safety risks associated with non-indigenous aquatic species, particularly zebra mussels.

Other Fauna/Public Health Concerns

Vertebrates and invertebrates occasionally can impact the health or enjoyment of outdoor recreationists. In some cases, area waters are treated with Bti to help reduce the numbers of black flies. This activity falls within the scope of Article 15 of the Environmental Conservation Law and an aquatic pesticide application permit are required under NYCRR Part 329. The more common potential health concerns include:

Chronic Wasting Disease (CWD) in White-Tailed Deer

Chronic Wasting Disease (CWD) is a rare, fatal, neurological disease found in members of the deer family (cervids). It is a transmissible disease that slowly attacks the brain of infected deer, elk, and moose, causing the animals to progressively become emaciated, display abnormal behavior and invariably results in the death of the infected animal. Chronic Wasting Disease has been known to occur in wild deer and elk in the western U.S. for decades since its discovery in wild deer in Wisconsin in 2002 generated unprecedented attention from wildlife managers and hunters. Chronic Wasting Disease poses a significant threat to the deer, elk and moose of North America and, if unchecked, could dramatically alter the future management of these species. However, there is no evidence that CWD is linked to disease in humans or domestic livestock other than deer, elk, and moose.

New York State began testing for Chronic Wasting Disease in 2002. In 2005, the New York State Department of Environmental Conservation (NYS DEC) received the first confirmation of CWD. It was found in two captive white-tailed deer herds in Oneida County and subsequently detected in two wild deer from Oneida County. Since that time, several other states in the eastern US have documented CWD. Currently, it is found in 23 states across the US (25 states if captive deer herds included): Minnesota, Maryland, North Dakota, Missouri, Mississippi, Montana, Pennsylvania, Ohio, Iowa, Arkansas, Texas, Virginia, Colorado, Wyoming, Michigan, Wisconsin, Utah, New Mexico, Kansas, West Virginia, New York, Nebraska, South Dakota, Illinois and Oklahoma. USGS National Wildlife Health Center http://www.nwhc.usgs.gov

The NYS DEC established a containment area around the CWD-positive samples and monitored the wild deer herd intensively for several years. Since 2002, approximately 34,000 deer have been tested throughout New York State, 7,300 directly from the containment area in Oneida and Madison counties. No additional cases have been identified since 2005, resulting in a decrease in the monitoring effort.

In 2010, the containment area designation was lifted and mandatory deer checks for deer harvested in this area are no longer a requirement. New York continues to randomly sample harvested deer throughout the entire state, but with less intensity. More information on CWD, New York's response to this disease, the latest results from ongoing sampling efforts and current CWD regulations, are available on the DEC website: *http://www.dec.ny.gov/animals/7191.html.*

Asian Longhorned Beetle

The Asian longhorned beetle (*Anoplophora glabripennis*) is a destructive wood-boring pest of maples and other hardwoods. Tunneling by beetle larvae girdles tree stems and branches. Repeated attacks lead to dieback of the tree crown and, eventually, death of the tree.

The Asian longhorned beetle is believed to have been introduced into the United States from wood pallets and other wood packing materials accompanying cargo shipments from Asia. The beetle has been intercepted at ports and found in warehouses throughout the United States. It was first discovered on several hardwood trees in Brooklyn, New York in August 1996.

Currently, the only effective means to eliminate ALB is to remove infested trees and destroy them by chipping or burning. To prevent further spread of the insect, quarantines are established to avoid transporting infested trees and branches from the area. Early detection of infestations and rapid treatment response are crucial to successful eradication of the beetle.

Emerald Ash Borer

The emerald ash borer (*Agrilus planipennis*) is a small but very destructive beetle. In North America, the emerald ash borer is known to infest all species of ash (*Fraxinus spp.*). Larval feeding in the tissue between the bark and sapwood disrupts the transport of nutrients and water in a tree, eventually causing branches and the entire tree to die.

Native to China and eastern Asia, the emerald ash borer probably came to North America hidden in wood packing materials commonly used to ship consumer goods. It was first detected in Michigan in July 2002. The beetle is responsible for the loss of more than seven million ash trees in Michigan alone. In terms of the range and extent of the emerald ash borer infestation in North America, the human element is of particular significance. The movement of any infested ash tree products (e.g., branches, logs, woodchips, nursery stock, and firewood) advances the spread of the emerald ash borer.

It is extremely difficult to determine whether an ash tree is infested with emerald ash borer because tree decline is usually gradual, and damage to the tree may not be apparent for up to three years. If a tree is infested with the emerald ash borer, tree removal is recommended as the most effective way to eliminate and prevent the species' further spread. The recommended procedure includes felling the infested trees and chipping them.

Giardiasis

This intestinal illness sometimes called "beaver fever" is caused by a microscopic parasite called *Giardia lamblia*. Even though many animals other than man can act as hosts, including the beaver, improper disposal of human excrement is one of the primary reasons for the increased numbers of this parasite in the interior.

Lyme Disease

This infection is caused by the bite of a deer tick carrying a bacterium that often infects deer, field mice, humans and household pets.

West Nile Virus

Is a relatively new viral disease that is carried by birds and can be transmitted to humans through mosquito bites. It is often fatal to some species of birds, such as crows, but in most species, it is not fatal. It can be fatal in humans, especially in those with compromised immune systems. The use of insect repellant will help reduce exposure.

Rabies

Rabies is a viral infection that affects the nervous system of all mammals, including humans. It is usually transmitted by the bite of an infected animal to another. Like other viral infections, it does not respond to antibiotics and is almost always fatal once the symptoms appear. Major carriers of rabies include: raccoons, skunks, bats and fox species, but all mammals can be potential carriers.

3. Fisheries Management

Public use of fishery resources is described under section II.D.3. Since no major changes in access to aquatic resources are anticipated, future use levels are expected to be similar to existing levels. Current stocking policies and fishing regulations apparently provide adequate protection to area fishery resources.

Church Pond, in the St. Lawrence watershed, is stocked with brook trout. This water will continue to be managed as an Adirondack brook trout ponds and stocked as necessary. Stocking will be conducted in accordance with Bureau of Fisheries policies and the Final Programmatic Environmental Impact Statement on Fish Species Management Activities of the Department of Environmental Conservation Division of Fish and Wildlife (1980). Establishment of additional fish species in Adirondack brook trout ponds may make reclamation necessary to enhance or restore a native fish community. If reclamation is determined to be necessary, the UMP will be amended to include it in the Schedule for Implementation and the associated descriptions will be revised to reflect the new fish community data. Church Pond (P327 SL) will be managed under General (Statewide) Angling Regulations.

Church Pond is not a candidate for liming, nor are any other ponds in the unit. If any of these ponds are later determined to be liming candidates based on additional survey work, the UMP will be amended accordingly. Any candidate waters will be inspected by APA to determine wetlands jurisdiction and permits will be obtained if required. Any liming operations will be conducted in accordance with the Final Generic Environmental Impact Statement of the New York State Department of Environmental Conservation Program of Liming Selected Acidified Waters (1990).

Privately stocked brown trout, as well as largemouth bass, were present in Tooley Pond during a 1986 survey. In 2001, the fishery was dominated by largemouth bass; brown trout were not detected. The pond will be managed as a warm water fishery.

The South Branch of the Grass River on the Tooley Pond Tract supports a naturally sustained brook trout population. When the property was acquired in 1999, special regulations (no-kill, artificial lures only) were adopted to assure that the fishery would not be overfished. This has not happened, so the river is now managed under the General (Statewide) Angling Regulations. Below Lake George Road the South Branch is stocked with brown trout. The South Branch of the Grass River will continue to be managed as salmonid water and stocked according to the Programmatic Impact Statement.

For most unit waters, fish community data is insufficient to develop management objectives. Fish community surveys will be top priority for these waters.

Biological and chemical surveys of selected waters will be conducted to assess management needs and determine progress toward fishery management objectives. Allen Pond will have first priority and should be surveyed.

Fish will be stocked in Unit waters as described in III.A.3. Stocking will be consistent with Bureau of Fisheries policies and the Final Programmatic Environmental Impact

Statement on Fish Species Management Activities of the Department of Environmental Conservation Division of Fish and Wildlife (1980).

B. Management Guidelines

1. Guiding Documents

This unit management plan has been developed within the guidelines set forth by Article XIV of the State Constitution, Article 9 of the Environmental Conservation Law, Parts 190-199 of Title 6 NYCRR of the State of New York, the Adirondack Park State Land Master Plan ("APSLMP"), and established Department policy.

Article XIV of the State Constitution provides in part that, "The lands of the State, now owned or hereafter acquired, constituting the Forest Preserve as now fixed by law, shall be forever kept as wild forest lands. They shall not be leased, sold or exchanged, or be taken by any corporation, public or private, nor shall the timber thereon be sold, removed or destroyed."

To implement the guidelines and criteria set forth in the APSLMP, the DEC and APA have jointly signed a Memorandum of Understanding concerning the implementation of the APSLMP for the Adirondack Park. The document defines the roles and responsibilities of the two agencies, outlines procedures for coordination and communication, defines a process for the revision of the APSLMP, as well as outlines procedures for State land classification, the review of UMPs, state land project management, and state land activity compliance. The MOU also outlines a process for the interpretation of the APSLMP.

Wild, Scenic, and Recreational Rivers

Three rivers in the unit—the North Branch of the Grass, the Middle Branch of the Grass and the South Branch of the Grass River—are classified as Scenic Rivers under the Wild, Scenic and Recreational Rivers System (WSRRS) Act (Article 15, Title 27 of the Environmental Conservation Law). The portion of the South Branch from the confluence with Allen Pond Outlet to the Adirondack Park boundary is classified Recreational. In addition, a small portion of the Leonard Pond parcel of the Grass River WF is within the ½ mile boundary of the Raquette River, which is classified as Recreational. The WSSRS Act and its implementing regulations found in Part 666 of Title 6 of the Official Compilation of Codes, Rules, and Regulations of the State of New York (6 NYCRR) and 9 NYCRR Part 577 regulates the activities within a classified River Areas.

ECL §15-2705 grants the Adirondack Park Agency jurisdiction over River Areas located on privately owned land within the Adirondack Park and grants the Department

jurisdiction over all other River Areas, including River Areas owned by the State within the Adirondack Park.

Unless otherwise designated by the Agency or the Commissioner, River Areas include the designated river and all land located within 1/4 mile of each bank on private land, and within 1/2 mile of each bank of the river on State land (9 NYCRR Part 577 -7 and 6 NYCRR Part 666.3(yy)).

C. Administration and Management Principles

1. Administration

Several programs within the Environmental Conservation Department share responsibility for the administration of the Grass River Unit.

The Division of Lands and Forests manages the Forest Preserve and recreational use of Easement lands. This unit also acquires, maintains and promotes responsible use of public lands.

The Division of Operations is responsible for designing, building and maintaining Department facilities. This unit operates Department campgrounds and maintains facilities such as roads, trails, lean-to's and parking lots.

The Division of Fish, Wildlife and Marine Resources protects and manages fish and wildlife species. It also protects and manages habitat and provides for public fishing, hunting and trapping opportunities.

The Division of Water protects water quality in lakes and rivers by monitoring waterbodies and controlling surface runoff.

The Division of Law Enforcement enforces Environmental Conservation Laws relating to hunting, fishing and trapping; endangered species; possession, transportation and sale of fish and wildlife; and laws relative to environmental quality, such as pollution. Environmental Conservation Officers are responsible for the enforcement of environmental conservation law to protect the state's natural resources and environment.

The Division of Public Affairs and Education is the communication link to the public. It promotes citizen participation in the UMP process.

The Division of Forest Protection and Fire Management is responsible for the preservation, protection, and enhancement of the State's forest resources and the safety of the public using the States resources. Forest Rangers are also responsible for fire control and search/rescue functions.

The Adirondack Park Agency's responsibility is to ensure that management of Forest Preserve lands is done in compliance with the APSLMP. The coordination of management activities is outlined in the Memorandum of Understanding between the DEC and APA, as well as policies of both agencies. The APSLMP provides guidance for the use and management of lands which it classifies as "Wild Forest" by establishing basic guidelines. Some of these guidelines are quoted below.

"Wild Forest

Definition: "A Wild Forest area is an area where the resources permit a somewhat higher degree of human use than in wilderness, primitive or canoe areas, while retaining an essentially wild character. A wild forest area is further defined as an area that frequently lacks the sense of remoteness of wilderness, primitive or canoe areas and that permits a wide variety of outdoor recreation."

Guidelines for Management and Use: "The area classified as Wild Forest is generally less fragile, ecologically, than the wilderness and primitive areas. Because the resources of these areas can withstand more human impact, these areas should accommodate much of the future use of the Adirondack forest preserve. The scenic attributes and the variety of uses to which these areas lend themselves provide a challenge to the recreation planner. Within constitutional constraints, those types of outdoor recreation that afford enjoyment without destroying the Wild Forest character or natural resource quality should be encouraged. Many of these areas are under-utilized."

Recreational use and overuse

- All types of recreational uses considered appropriate for Wilderness areas are compatible with Wild Forest and, in addition, snowmobiling, motor-boating and travel by jeep or other motor vehicles on a limited and regulated basis that will not materially increase motorized uses that conformed to the APSLMP at the time of its adoption in 1972 and will not adversely affect the essentially wild character of the land are permitted.
- 2. Certain Wild Forest areas offer better opportunities for a more extensive horse trail system than in Wilderness, Primitive or Canoe areas and horse trails and associated facilities in these areas would be provided where appropriate.
- 3. Although the nature of most Wild Forest areas indicates that potential recreational overuse will not be as serious as in Wilderness, Primitive and Canoe areas, care must nonetheless be taken to avoid overuse, and the basic Wilderness guidelines in this respect apply also to Wild Forest lands.

The relatively greater intensity of use allowed by the Wild Forest guidelines should not be interpreted as permitting or encouraging unlimited or unrestrained use of Wild Forest areas.

The following principles provide specific guidance for managing the Grass River Wild Forest:

- Sustain the existing environmental conditions and restore areas of resources being degraded;
- Public use of motor vehicles will not be encouraged;
- Manage the unit as a composite resource and employ an interdisciplinary set of skills in recognition of the complexity of the relationships between the unit's resources and the recreating public."

An interdisciplinary team has developed the management proposals listed in the next section to meet APSLMP criteria and guidelines. All management objectives are designed to help meet the goals of preserving the area's Wild Forest character while providing a range of acceptable primitive recreation opportunities. All planned actions require monitoring to determine their effectiveness in ensuring that the natural characteristics that define this Wild Forest are protected.

All necessary work in the Grass River Unit will be accomplished with the minimum tool concept. This concept requires that every management action be scrutinized to see first if the action is necessary, and then plan to do it with the "minimum tool" to accomplish the task. The chosen tool, equipment, or structure should be the one that least degrades Wild Forest character temporarily or permanently (High Peaks Plan, 1999).

Future issues, actions, or opportunities will be considered on a case-by-case basis to determine if they are consistent and compatible with the APSLMP and the goals and objectives of this plan. The APSLMP has procedures to amend unit management plans if resource and/or social conditions change during the five-year tenure of each plan.

DEC policy has been developed for the public use and administration of Forest Preserve lands. Select policies relevant to the management of this unit include:

- Administrative Use of Motor Vehicles and Aircraft in the Forest Preserve (CP-17).
- Motor Vehicle Access to State Lands under the Jurisdiction of DEC for People with Disabilities (CP-3).
- Standards and Procedures for Boundary Line Maintenance (NR-91-2; NR-95-1).

- Tree Cutting on Forest Preserve Land (O&D #84-06).
- Cutting and Removal of Trees in the Forest Preserve (LF-91-2).
- Division Regulatory Policy (LF-90-2).
- Adopt-A-Natural Resource (ONR-1).
- Volunteer Stewardship Agreements (CP-58).
- Policies and Procedures Manual Title 8400 Public Land Management.
- Forest Preserve Roads (CP-38).

Guidance and Clarification Documents:

- Memorandum of Understanding between the Adirondack Park Agency and the Department of Environmental Conservation Concerning Implementation of the State Land Master Plan for the Adirondack Park (revised March 2010).
- Snowmobile Plan for the Adirondack Park/Final Generic Environmental Impact Statement, Sept. 2006. Available online at: http://www.dec.ny.gov/outdoor/27707.html
- Management Guidance: Snowmobile Trail Siting, Construction and Maintenance on Forest Preserve Lands in the Adirondack Park, November 2009. Available online at: http://www.dec.ny.gov/regulations/2401.html
- Guidelines for Motor Vehicle Use Proposals in Wild Forest UMP's -Memorandum of July 2001.
- Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park (revised 2012).
- Adirondack Forest Preserve Best Management Practices for Design and Layout of Primitive Tent Sites (revised draft November 2017).

The Division of Lands and Forests also maintains policies to provide guidelines for the design, location, siting, size, classification, construction, maintenance, reconstruction and/or rehabilitation of dams, fireplaces, fire rings, foot bridges, foot trails, primitive tent sites, road barriers, sanitary facilities and trailheads. Other guidelines used in the administration of Forest Preserve lands are provided through Attorney General Opinions, Department policy memos, and Regional operating procedures.

The recommendations presented in this unit management plan are subject to the requirements of the State Environmental Quality and Review Act of 1975. The State Environmental Quality and Review Act (SEQRA) requires the consideration of environmental factors early in the planning stages of any proposed action(s) that are undertaken, funded or approved by a local, regional or state agency. An Environmental Assessment Form (EAF) is used to identify and analyze relevant areas of environmental concern based upon the management actions in the final unit management plan. For this plan, SEQRA review has been initiated with the preparation of the EAF. Upon review of the information contained in the EAF, there will not be any large important impacts associated with any of the management actions, therefore there will not be a significant impact on the environment and a Negative Declaration will be prepared. Any changes that are made in this plan, based upon public comments, will be considered in the EAF and determination of significance when the final plan is written.

Historic and Archaeological Site Protection

The historic and archaeological sites located within the unit, as well as additional unrecorded sites that may exist on the property, are protected by the provisions of the New York State Historic Preservation Act (SHPA - Article 14 PRHPL), Article 9 of Environmental Conservation Law, 6 NYCRR § 190.8 (g) and Section 233 of the Education Law. Unauthorized excavation and removal of materials from any of these sites is prohibited by Article 9 of the ECL and Section 233 of the Education Law. In some cases, additional protection may be afforded these resources by the federal Archaeological Resources Protection Act.

Archaeological Research

The archaeological sites located on this unit as well as additional unrecorded sites that may exist on the property will be made available for appropriate research. All future archaeological research to be conducted on the property will be accomplished under the auspices of all appropriate permits. Research permits will be issued only after consultation with the New York State Museum and Office of Parks and Recreation and Historic Preservation. Extensive excavations are not contemplated as part of any research program to assure that the sites are available to future researchers who are likely to have more advanced tools and techniques as well as different research questions.

Management Principles

The call for a management approach which balances the need for recreational use with the need to preserve the Wild Forest character of the area and the capacity of the resources to withstand use presents a challenging and complex task – one which requires both a long-term and a day-to-day approach to problem solving. There may be

no one right answer to a problem – that in making Department decisions, the key is to apply a systematic rationale based on monitoring and evaluation.

This Unit Management Plan is intended to serve as the basic management tool for the Grass River Wild Forest unit for a five-year period following APA determination of conformity with the APSLMP and approval by the Department's Commissioner. Implementation will commence following approval by the Commissioner.

All necessary work in the Grass River Wild Forest unit will be accomplished with the minimum tool concept. This concept requires that every management action be scrutinized to see first if the action is necessary, then plan to do it with "minimum tools" to accomplish the talk. The chosen tool, equipment, or structure should be the one that least degrades Wild Forest character temporarily or permanently.

2. Application of Guidelines and Standards

a. Project Development

Where required, permits will be obtained. All projects will be developed in accordance with applicable laws, rules, regulations and policies and will incorporate the use of Best Management Practices, including but not limited to such considerations as:

General

- Locating improvements to minimize necessary cut and fill;
- Locating improvements away from streams, wetlands, and unstable slopes;
- Use of proper drainage devices such as water bars and broad-based dips;
- Using stream crossing with low, stable banks, firm stream bottom and gentle approach slopes;
- Limiting stream crossing construction to periods of low or normal flow;
- Avoiding areas where habitats of threatened and endangered species are known to exist;
- Using natural materials to blend the structure into the natural surroundings.

Lean-tos

- Locating lean-tos to minimize necessary cut and fill;
- Locating lean-tos to minimize tree cutting;
- Locating lean-tos away from streams, wetlands, and unstable slopes;

- Use of drainage structures on trails leading to lean-to sites, to prevent water flowing into site;
- Locating lean-tos on flat, stable, well-drained sites;
- Limiting construction to periods of low or normal rainfall.

Parking Lots

- Locating parking lots to minimize necessary cut and fill;
- Locating parking lots away from streams, wetlands, and unstable slopes wherever possible;
- Locating parking lots on flat, stable, well-drained sites
- Locating parking lots in areas that require a minimum amount of tree cutting;
- Limiting construction to periods of low or normal rainfall;
- Limiting the size of the parking lot to the minimum necessary to address the intended use and to comply with the definition of water access parking areas within designated River Areas.
- Wherever possible, using wooded buffers to screen parking areas from roads.

Trails

- Locating trails to minimize necessary cut and fill;
- Wherever possible, lay out trails on existing old roads or clear or partially cleared areas;
- Locating trails away from streams, wetlands, and unstable slopes wherever possible;
- Use of proper drainage devices such as water bars and broad-based dips;
- Locating trails to minimize grade;
- Using stream crossings with low, stable banks, firm stream bottom and gentle approach slopes;
- Constructing stream crossings at right angles to the stream;
- Limiting stream crossing construction to periods of low or normal flow;

- Using stream bank stabilizing structures made of natural materials such as rock or wooden timbers;
- Using natural materials to blend the structure into the natural surroundings.

Bridges

- Minimizing channel changes and the amount of cut or fill needed;
- Limiting construction activities in the water to periods of low or normal flow;
- Minimizing the use of equipment in the stream;
- Installing bridges at right angles to the stream channel;
- Constructing bridges to blend into the natural surroundings;
- Using stream bank stabilizing structures made of natural materials such as rock or wooden timbers;
- Stabilizing bridge approaches with aggregate or other suitable material;
- Using soil stabilization practices on exposed soil around bridges immediately after construction;
- Designing, constructing and maintaining bridges to avoid disrupting the migration or movement of fish and other aquatic life.

b. Fisheries Projects

All <u>reclamation projects</u> will be in compliance with the Programmatic Environmental Impact Statement on Fish Species Management Activities of the Department of Environmental Conservation, Division of Fish and Wildlife, dated June 1980 and the Programmatic Environmental Impact Statement on Undesirable Fish Removal by the Use of Pesticides Under Permit Issued by the Department of Environmental Conservation, Division of Lands and Forests, Bureau of Pesticides Management, dated March 1981.

All <u>liming projects</u> will be in compliance with the Final Generic Environmental Impact Statement on the New York State Department of Environmental Conservation Program of Liming Selected Acidified Waters, dated October 1990, as well as the Division of Fish, Wildlife and Marine Resources liming policy.

All <u>fish stocking projects</u> will be in compliance with the Programmatic Environmental Impact Statement on Fish Species Management Activities of the Department of Environmental Conservation, dated December 1979.

c. Conservation Easements

Plans for the easements discussed below are not part of this UMP, but the public recreation rights provided on these easements may affect public recreation facility proposals on the Forest Preserve lands where trails or roads may connect to the same on the easement lands. This section will thus highlight the public recreation rights on these easements as they may relate to FP lands of the GRWF.

Management and administration of easement lands is guided by DEC policies, some specific to easements and some which apply generally to state lands.

- The Administration of Conservation Easements (NR-90-1).
- Acquisition of Conservation Easements (NR-86-3).
- Motor Vehicle Access to State Lands under the Jurisdiction of DEC for People with Disabilities (CP-3).
- Standards and Procedures for Boundary Line Maintenance (NR-91-2; NR-95-1).
- Division Regulatory Policy (LF-90-2).
- Volunteer Stewardship Agreements (CP-58).

Management and administration of easement lands is also guided by the terms of the individual conservation easements. Presented below are the terms of the easements in the Grass River Unit that relate to public recreation use.

Long Pond Conservation Easement

This easement is adjacent to the Stone Dam Forest Preserve parcel, is northwest of the Church Pond parcel and adjacent to the Grass River CE. It was acquired in 1999. A Recreation Plan is required to be developed and it must be approved by the landowner. The Recreation Plan has been completed and there is now a well-developed trail and road system open for public use, as well as some accessible primitive tent sites.

The conservation easement specifies public access and recreational opportunities as follows;

- Access by non-motorized means is allowed including by bicycle, horses or similar animals, foot, snowshoe, cross country skis, and canoes/boats.
- Access by motorized vehicle is limited to the following roads;
 - 1. The main east-west haul road from State Highway 56 to Selleck's Lower Camp.

- 2. The secondary haul road from USGS benchmark 1304 south across Deerskin Creek than east and north back to the main east-west haul road;
- 3. The secondary haul road going north from Selleck's Lower Camp across Gulf Brook, then north east, then east, than back south to the main haul road;
- 4. The secondary haul road that branches off to the north from the road described in #3 above going about 1 mile;
- 5. The secondary haul road near the easterly property boundary going back about 2 miles north and west;
- The secondary haul road that branches off to the main haul road just west of USGS benchmark 1289 going south and southeast to the north end of Long Pond.

DEC can build new motor vehicle roads and parking areas necessary for the exercise of recreational rights. Snowmobiles and ATV's may use all existing roads. Some roads may be closed by the landowner to be plowed for logging, but alternative routes must be provided. DEC is responsible for placing signs to indicate which roads and trails are open for public motor vehicle, snowmobile and ATV use. DEC can build new roads and trails for ATV's, snowmobiles and non-motorized means of travel by the public. Camping by the public is permitted under the same regulations as other state lands. Firewood may be gathered from dead and downed trees for on-site cooking and warmth only. Hunting, fishing and trapping by the public is permitted. DEC has the right to maintain fish and wildlife.

Tooley Pond Conservation Easement

This easement is adjacent to the Tooley Pond Forest Preserve lands, and was acquired at the same time as those lands in 1999. It also abuts the Grass River CE lands. A Recreation Plan is required for public use of the property, and the landowner must approve it. A Plan was completed by DEC and approved by the landowner shortly after the property was acquired. An updated draft plan was released to the public in September 2016. Currently, a limited number of roads are open to automobiles and there are also some major snowmobile trail segments open that are part of the statewide system.

The conservation easement specifies public access and recreational opportunities as follows;

• Access by non-motorized means is allowed including by bicycle, horses or similar animals, foot, snowshoe, cross country skis, and canoes/boats;

- Access by motorized means by automobile, ATV and snowmobiles is allowed on designated routes;
- The DEC has the right to construct and maintain trails for non-motorized means of travel by the public, and new Motorized Access Corridors as long as these facilities don't interfere with the landowner's right of forest management.
- Camping, hunting, fishing and trapping, etc. are allowed following the same regulations that apply to other State Lands.

Silver Lake Conservation Easement

This easement was acquired in 2001. A "Land Management Plan" (equivalent to a recreation management plan) is required for public use of the property. Only a portion of the property has public access rights. A plan has not yet been completed for public use as there is currently no legal public access to the property through the adjacent private landowners. The portion of the property that includes the public access/use rights described below does not abut any other FP or CE lands.

The conservation easement specifies public access and recreational opportunities as follows;

• Access to the portion of the Grass River RR at the north end of the property, the North Tramway and the Cut-over Trail is provided for hiking, skiing, bicycling, horseback riding and other non-motorized travel and when conditions allow, snowmobiling. Access to the Grass River RR from the edge of the hamlet of Cranberry Lake north to the point where the Cutoff Trail intersects the Grass River is provided for snowmobile use only; there is only administrative access from the Grass River RR t the edge of the hamlet of Cranberry Lake to the north end of Mill Street.

Grass River Conservation Easement

This easement was acquired in 2007. It is adjacent to the Cranberry Pond and Stone Dam Forest Preserve parcels, as well as the Tooley Pond and Long Pond easements. Currently an Interim Recreation Management plan is in place. This CE requires a Recreation Management Plan to be developed and it must be approved by the landowner. A draft Recreation Management Plan was released to the public in September 2016. It provides for expanded public recreation opportunities compared to those authorized in the Interim plan, subject to funding. There is currently limited public motor vehicle access, primarily to provide access over the property to the Stone Dam FP parcel, but there are also snowmobile trail routes on the existing road system that connect to the regional snowmobile trail network that are open to the public. The conservation easement specifies public access and recreational opportunities, which are available annually except for the period between Oct. 1st and December 15th each year, as follows;

- Access for public motor vehicle and snowmobile use as well as non-mechanized use of the extensive network of existing roads;
- Access for fishing, camping, boating, hiking, trapping and other non-mechanized recreational uses along designated river corridors and one lake;
- Access for fishing along several designated stream corridors;
- Access for limited ATV use on a corridor that provides connections between adjacent CE lands;
- Access for non-mechanized use of a trail up Little Blue Mountain and a trail between the Long Pond CE and the Church Pond FP parcel.
- Access for public motor vehicle use on a road to the Stone Dam FP parcel, including during the period of Oct. 1st to Dec. 15th.

Seveys Conservation Easement

This easement was acquired in 2007. It is adjacent to the Leonard Pond Forest Preserve parcel and just east of a portion of the Grass River CE. The part of this CE west of SH 56 is within the Grass River unit while the part east of SH 56 is in the Raquette-Boreal unit. Currently an Interim Recreation Management plan is in place. This CE requires a Recreation Management Plan to be developed and it must be approved by the landowner. Current public access on this property is on snowmobile trails that are connected to the regional network, and a car top boat launch on the Raquette River on the east side of SH 56 in the Raquette-Boreal unit.

The conservation easement specifies public access and recreational opportunities as follows;

- Access for snowmobile use on identified corridors;
- Access to the Raquette River for a car-top boat launch.

D. Management Issues, Needs and Desires

Issue identification is an important element of the planning process. An issue is defined as a point or question of discussion or interest that needs to be addressed or decided

upon in the planning process. Issues help identify where DEC needs to focus its management efforts in the future.

The following list of issues, needs and desires were received from the public and Department staff by way of an Open House, held on February 26, 2003 at Colton Pierrepont High School, by mail, email, and personal conversations.

1. Boundary Lines

a. Description of Issue

On the Forest Preserve lands in this unit, there are a few miles of unpainted boundary lines, a few lines that do not have the Forest Preserve sign (yellow 8x12" metal signs that display the DEC symbol and the FP classification), and some that are missing all of the above and may need to be surveyed, but overall the boundaries are in good shape. The complex ownership pattern of the unit makes the need for accurately marked boundaries even more critical to the planning of future facilities.

Un-surveyed and unmarked boundary lines on the unit can pose problems:

- Trespass and the cutting of trees on the Forest Preserve.
- Trespass by motor vehicles on the Forest Preserve.
- Illegal establishment of trails, tree stands, camps, and the storage of personal property.
- Dumping of rubbish, garbage, refuse or waste.
- Inability to access public land.
- Trespass on adjacent private land.

b. Discussion

A few state land boundaries need to be surveyed to clarify their location. In the meantime, the Department could at least post the roadsides that are boundaries for parcels needing a survey but are unmarked as to New York State ownership. In addition, the Department could post signs on those few boundaries that currently have postings from adjacent private landowners, pending a survey to determine the exact location of those boundary lines. This will give the public and Department enforcement staff a better indication of the approximate location of boundaries until survey work is accomplished.

2. Illegal Motor Vehicle / ATV Use

a. Description of Issue

According to a national survey on recreation and the environment, about 36.3 million people participate in off-highway driving or ATV use (Cordell et. al., 1999). Inappropriate recreational ATV use can cause unacceptable physical and biological impacts on the natural environment. The effects of ATV's on soil, wetlands, water, vegetation, heritage sites, and wildlife have long been recognized in the scientific literature. The magnitude of the effects varies depending on local characteristics of the landscape including slope, aspect, soil susceptibility to erosion, and vegetation type. Riparian areas are particularly vulnerable to ATV damage. More recently, ATV use has been implicated in the spread of invasive species. An extensive study of the biophysical and social impacts of Off Road Vehicle and ATV use is reflected in an annotated review of the scientific literature by Stokowski and LaPointe (2000).

Biophysical impacts

- Damage and loss of vegetative cover.
- Compaction and erosion of organic litter and soil.
- Rutted, widening, eroded trails.
- Multiple, braided side trails.
- Impacts on environmentally sensitive areas, such as wetlands and stream crossings.
- Air and noise pollution.

Effects on soil erosion and vegetation

The primary effects of ATV's on soils are compaction and erosion, which may result in sedimentation into waterways. Damaged grasses and forbs may open the door to invasive plant species. The adverse effects of motorized use are most evident where cross-country travel occurs or motorized use occurs on trails that are not designed for that purpose.

Effects on wildlife

The scientific literature indicates some wildlife species may be affected by excessive noise and disturbance. Displacement during winter depletes energy reserves needed for survival and reproduction by mammals and birds.

This is the most serious issue relating to natural resource impacts identified by Department staff on the Forest Preserve and easement lands of this unit. There is

unlimited potential for illegal ATV use on both the Forest Preserve and easement lands, given the versatility and ease with which these machines can be operated off road in a wooded setting. Numerous old logging roads and trails provide tempting places for people to illegally drive ATV's. Some of these old logging roads lead into the interior of the Grass River Unit, and have been used as traditional access to lakes and ponds. Hunting season brings additional illegal use, as hunter's use ATV's to reach areas inaccessible by car or truck.

b. Discussion

Illegal use on Grass River Wild Forest parcels is relatively limited, as barricades, signage and patrols seem to have controlled such use. Complete control is not possible, but using a combination of the above techniques will limit significantly the damage and disturbance from illegal use.

Limited illegal use of ATV's occurs on the Lampson Falls parcel, and the Stone Dam parcel west of the Middle Branch of the Grass River. The Leonard Pond parcel has somewhat more illegal use, though it is mostly on the Hollywood Road and some old roads not open to motor vehicles that are spurs off the Hollywood Road. Additional signage and some barricades on these spurs should help further reduce illegal use there.

3. Public Access on Roads to Forest Preserve Lands

a. Description of Issue

Forest Preserve roads, which are generally low maintenance seasonal roads, are a means of providing the public with access to recreational programs on Forest Preserve lands. Roads on or adjacent to Forest Preserve generally provide adequate public access to the unit; most of the access is from town roads, or Forest Preserve roads maintained by the Department. There are some roads with questions about their legal use by the public as well as roads being used that are not designated for public motor vehicle use.

b. Discussion

The Stone Dam parcel has traditionally been accessed by the public and DEC staff via an old road in poor condition off the end of the town of Clare maintained Dean Road. The old road extends about 2 miles to the Stone Dam parcel thru lands owned by Molpus. Its legal status as the access route to the parcel is uncertain and it has not been regularly maintained. The Town of Clare does not identify it it as a town highway, and a previous landowner, Rayonier, stopped its maintenance after building a separate road to access their own land. Since the acquisition by DEC of an easement on the surrounding land (the Grass River CE), there is an alternative route on a good road that provides access another way to the Stone Dam parcel, so there is no need to maintain the old road to provide access. Some members of the public continue to use it. The main question about this road is whether it constitutes a public way, and thus cannot be closed if it continues to be used. In its current condition, it should not be open for public motor vehicle use, though it may be able to remain open for non-motor vehicle use if the landowner does not contest that use.

The Hollywood Road provides motor vehicle access to the Leonard Pond parcel near SH 56. The road is divided into two branches. The northern branch travels from SH 56 west 0.4 mile across private land to the Forest Preserve boundary. It then continues 1.7 miles west across Forest Preserve to private land (Seveys Conservation Easement). This section is generally in good condition and receives most of the public and DEC traffic. It is unclear, however, whether the State and the public have a legal right to cross the private parcel adjacent to SH 56, and motor vehicle access across private land may not be available in the future.

The southern branch of the Hollywood Road is located entirely on Forest Preserve land. It begins on SH 56 and travels 0.9 mile in a northwesterly direction, where it intersects the northern branch of the road. The southern branch has received little maintenance over the past 15 years, and is in generally poor condition. It provides motor vehicle access to 2 primitive campsites, as well as direct access to Leonard Pond. This plan proposes to upgrade the southern branch of the Hollywood Road, to provide guaranteed future access to the Leonard Pond parcel. This will require brushing and limited tree cutting to re-establish clearance for vehicles, culvert installation, and gravel surfacing in rutted areas of the road.

4. St. Lawrence County Multi-Use Trail

a. Description of Issue

St. Lawrence County has been in the process of opening a multi-use recreational trail system. Prior to this formal effort, the County had been periodically requesting of DEC that it open various areas of state forest and forest preserve areas to ATV use. In response, DEC requested that the County develop a comprehensive plan which resulted in the proposed 120-mile multi-use trail, extending from Lewis to Franklin County, which would provide public recreational use for: ATV's, snowmobiling, biking, skiing, hiking and other permitted uses. The multi-use trail would include ATV use from approximately May 15 to Sept. 15 and be managed consistent with State, department, agency and municipal rules and regulations. The County undertook a SEQR process with DEC input that resulted in a Generic Environmental Impact statement to address impacts from a potential trail. At DEC's request, the County made efforts to avoid the use of state land to the greatest extent possible. As a result, only three areas of state

owned land were requested for use by the trail system, of which this UMP addresses one. In addition, there were three CE properties that were requested to be part of the trail system. St. Lawrence County had proposed segments of the trail for portions of the Tooley Pond FP and CE parcels, the Grass River CE and the Long Pond CE within the GRMU, as well as for White Hill WF and Greenwood Creek State Forest outside of the GRMU.

Segments of roads laying within the River Area are pre-existing and already used for motorized vehicles. ECL §15-2709(2) provides for continuations of pre-existing uses.

b. Discussion

The proposed use of Forest Preserve roads within the Grass River Wild Forest as a public ATV connection must be analyzed carefully to ensure compliance with New York State Vehicle and Traffic Law, the Environmental Conservation Law, DEC rules and regulations, the APSLMP, and the "Memorandum of Understanding between The Adirondack Park Agency and The Department of Environmental Conservation concerning Implementation of the APSLMP for the Adirondack Park" (March 30, 2010). Additionally, where opening forest preserve roads is permissible, several factors should be evaluated, including whether:

- the proposed road connection to be opened is necessary to bridge a gap in an otherwise continuous ATV trail that is open for public use by the landowner or landowners of adjoining lands;
- the proposed road connection duplicates or parallels other routes in the area that serve the same purpose. The Department cannot open routes that duplicate or parallel other connections or trails that exist in the area per the Vehicle and Traffic Law Section 2405.1, which only allows connections by road if it is "otherwise impossible for ATVs to gain access to areas or trails adjacent to the highway" (VTL Section 2405.1)
- the natural resources along the proposed road connection can withstand use of the connector road by ATVs considering factors such as soil erosion into streams, wetlands or water bodies, potential impacts of ATV traffic outside the road corridor, and other adverse impacts. If natural resources cannot withstand such use, the road will not be opened to public ATV access or, if previously opened to public ATV access, will be closed to public ATV access
- the proposed connector road is the connection alternative with the least environmental impact. The proposed public ATV use must not have a significant adverse impact to natural resources, including but not limited: to soil erosion, siltation of streams, wetlands or water bodies, or impacts to wildlife resources outside the road corridor. Therefore, although length is a

consideration, ATV connector routes should not be chosen merely because they provide the shortest and most direct connector route available;

- the proposed connector is part of a comprehensive county or regional ATV trail plan;
- public ATV use of the proposed road connection is compatible with other public use of the area as authorized by the UMP;
- the proposed connector road can be expected to withstand ATV use and • sufficient maintenance funds are available to ensure that the road can be maintained to prevent muddy, eroded or dangerous conditions. Substitution or enhancement of maintenance funds may be considered, such as trail maintenance by volunteers.
- feasible measures to prevent illegal ATV use off the proposed connector • roads exist and can be effectively implemented.
- proposals to open the ATV routes includes plans for monitoring environmental impacts and compliance with applicable laws and regulations, as well as possible remediation and enforcement actions that will be taken in the event of significant impacts or non-compliance.

Roads to be open to public ATV use are subject to actions necessary to ensure safe operation of ATVs, including: posting of appropriate signage for speed limits, stopping, caution and curves. Such roads will be opened and closed to ATV use seasonally and as necessary to address any undue adverse effects or compliance issues.

The Department will manage connector roads that are opened to ATV use to ensure compliance with all regulations and avoid damage to the road and surrounding natural resources. If enforcement actions are ineffective, the Department may close connector roads where problems persist.

When ATV use causes significant adverse environmental impacts along connector roads, such roads may be closed summarily by the DEC to protect the resource. A road that was opened to public ATV access but was closed due to such impacts may be reopened to public ATV access only after such impacts have been mitigated and measures are identified to avoid such impacts in the future.

Any routes opened for ATV use across lands under DEC jurisdiction will be patrolled by the DEC Rangers, and inspected by other Staff, and the DEC retains the right to close any route to ATV use if abuse does occur.

c. Alternatives Discussion

 Alternative 1 – This route uses approximately 900 feet of road within the Tooley Pond Forest Preserve parcel, referred to here as "Forest Preserve road segment"; approximately 600 feet are on Railroad Grade Road, which is an old railroad bed, and 300 feet on New Bridge Road, a logging access road which connects the Railroad Grade Road to the Tooley Pond Road, a paved town road. Because Railroad Grade Road is located along the top of a former railroad bed, there are slopes dropping off each side of the road that will minimize the ability of ATVs to leave the improved road and impact the lands along the connection.

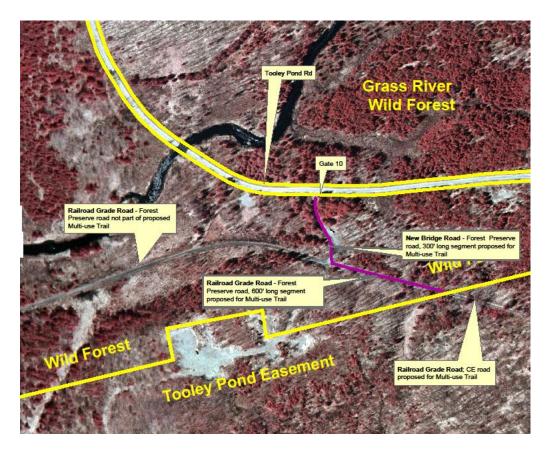
These roads provide the legal access from the Tooley Pond Road across the Forest Preserve lands for the underlying fee owner of the adjacent easement lands, for access for lessees to their camps and for the public to the easement lands. Consequently, these roads will always be maintained as main haul roads for both private and public access, and will be able to withstand use by ATVs. The roads surfaces are generally firm and no significant erosion or other impacts are expected from ATV use.

Both road segments were in use for logging and general access to these lands at the time of purchase of these lands, and this use will continue. The Department has the right to designate these roads as open for motor vehicle use, including for use by ATVs, so such designation and use complies with the Adirondack Park State Land Master Plan and use of these roads as ATV connectors is compatible with other uses of the area. The Department has the right to maintain, post signs, and enforce regulations for such use of New Bridge and Railroad Grade Road pursuant to ECL Article 9, 6 NYCRR Part 196 and Vehicle and Traffic Law §1630.

Three conditions must be met before Alternative 1 can be implemented. First, St. Lawrence County must verify to the Department's satisfaction that it has permission from any involved private landowners to continue the trail south from the Tooley Pond CE toward Newton Falls. Second, the Town of Clifton must close River Road and their section of Tooley Pond Road to ATV use. Vehicle and Traffic Law states that public roads (such as the Forest Preserve road segments in question) can only be open to ATV use if it is "otherwise impossible for ATVs to gain access to areas or trails adjacent to the highway" (VTL Section 2405.1). The Town of Clifton currently has the River Road (which extends northeast from Newton Falls along the Oswegatchie River to the Tooley Pond Road) and the southern portion of the Tooley Pond Road open to ATVs. These roads provide an alternate route for connecting the trails to the north and south of this area. As

such it is not "otherwise impossible" for ATVers to connect to the rest of the trail system, and the connection in Alternative 1 would create a parallel route that could be used as a loop rather than a connection. Consequently, the Forest Preserve roads can only be opened to ATV use if these Town of Clifton roads were closed to ATV use.

Third, the Town of Clare must open the Tooley Pond Road west from the intersection with New Bridge Road to the intersection with the Allen Pond Outlet Road, which heads north onto the Tooley Pond CE and eventually to the Grass River CE lands. These actions would ensure that opening the Forest Preserve roads is necessary and complies with requirements of the Vehicle and Traffic law for the proposed route of Alternative 1 and the connections to it.



 Alternative 2 (Preferred Alternative) – This alternative would start in Newton Falls and instead of heading north on the old RR bed road on private lands towards the Tooley Pond CE lands would follow twelve miles of Town and County highways. This route would redirect users to the Tooley Pond Road past New Bridge to the Allen Pond Outlet Road, and so parallel the South Branch of the Grass for several miles. It would run closer to the South Branch of the Grass River (a Scenic river under the WSRRA) for a longer distance than Alternative 1. This ATV connector route is not located on lands under the jurisdiction of the Department. As such, the Department does not have control of whether it is utilized or how it is maintained, patrolled or signed; additionally, whether this route is open effects whether the Department may legally implement either of the other alternatives per the requirements of V&TL Section 2401.5.

- Alternative 3 An alternative route on only easement lands to get to the Tooley Pond Road was investigated by the DEC. This alternative would follow the old RR bed north from Newton Falls, like Alternative 1, but before it gets to the Forest Preserve lands it would head east and remain on Tooley Pond CE lands until reaching the Tooley Pond Road. It would require crossing wetlands and the Moosehead Pond Outlet east of the Railroad Grade Road, and would require some new trail construction on conservation easement land. Therefore, it would have greater potential adverse environmental impacts than Alternative 1.
- Alternative 4 No action. Under this alternative, no multi-use trail would be established within this UMP unit.

When the draft Grass River Wild Forest UMP was released for public review in September 2016, Alternative 1 was the preferred alternative, being the shortest, most environmentally benign route (see map above), provided the three conditions described above in the Alternative 1 description were met and sustained.

Public comment on the draft UMP was received from September to December 2016. Comments received from St. Lawrence County and the County Multi-Use Trail Coordinator requested a change in the preferred alternative. They requested a change from Alternative 1 (using 900 ft of Forest Preserve Roads) to a "modified" Alternative 2, which would utilize the current route traveling from Newton Falls to New Bridge on public roads, and would not cross Forest Preserve. It would additionally open the northern section of the Tooley Pond Road to provide access to the hamlet of Degrasse. Alternative 2 was preferred by the County due to uncertainty that permission could be obtained from private landowners to use the former railroad bed north of Newton Falls, and reluctance to close the River Road and the southern portion of the Tooley Pond Road to ATV use, which were required conditions of Alternative 1.

In consideration of St. Lawrence County's request for a change in the preferred route of the proposed multi-use trail, this plan now recommends Alternative 2 as the preferred alternative, due to the reduced impact on Forest Preserve lands, and the increased likelihood that permission to use this route can be sustained in the future.

Any future change in the routing of the multi-use trail through this unit which proposes use of DEC administered roads or trails on Forest Preserve land will require an amendment to the Grass River Wild Forest Unit Management Plan.

5. National Grid Ownership – 100' From Low Water Mark

a. Description of Issue

The State of New York, on June 30, 1999, acquired approximately 29,000 acres of former Champion International lands in fee, which became part of the Adirondack Forest Preserve, and 144,000 acres of conservation easement. The Tooley Pond tract included approximately 5,800 acres in fee along both sides of the South Branch of the Grass River and 25,000 in easement. Much of these lands were then opened to the public, except for seasonal closure during the hunting season on the easement lands.

In the process of doing research in preparation for a survey of the entire acquisition (fee and CE lands) it was determined that what had been thought to be a use reservation for flooding purposes along the South Branch was actually fee ownership. A strip of land "100 feet (horizontally) from the low water mark" actually belonged to National Grid.

This 100-foot strip is not universal along both sides of the Grass River – there are areas where there is no 100-foot strip, sometimes on one side of the river, and sometimes on both sides. This type of boundary is very difficult to mark on the ground because it is not straight or based upon a datum.

The Department should have authority over these lands in order to manage the entire river corridor, since most of the recreation on the Forest Preserve lands on the Tooley Pond tract occurs near or on the river. There has not been an issue with the public using these lands as National Grid (and its predecessor Niagara Mohawk) have long had a policy that their lands are open to public use. But to develop and maintain facilities that provide access to the river (trails, carries, launches, primitive tent site, etc.) the Department should have authority to do so. An offer to acquire these lands a number of years ago from National Grid by the State of New York was presented but was unsuccessful.

b. Discussion

The Department should have authority over these lands to manage them for public use and promote their use. Before the Department knew of this situation a limited number of primitive tent sites and carries were built along the river, but since discovering the situation no new facilities have been provided. Any proposals for new facilities must acknowledge that they cannot move forward without this situation being resolved in some way. There are a few alternatives that could be pursued to resolve this situation:

- Pursue acquisition of these lands from National Grid Power Company;
- Enter into a cooperative use agreement with National Grid Power Company
 - A Fish and Wildlife Management Act Cooperator agreement, which has the advantage of a standard format and set of conditions already in place which provide for public use of private lands and liability protection for the landowner;
 - A memorandum of understanding or similar agreement which has the advantage of being able to be tailored to a specific set of circumstances.

The best approach is likely a combination of two alternatives; pursue purchasing the property, while putting in place a cooperative agreement in the meantime.

6. Bridge over the Middle Branch of the Grass on Stone Dam Parcel

a. Description of Issue

The Stone Dam parcel has traditionally been accessed from the west by way of the Dean Road, which is a town maintained road up to a certain point, and a disputed nonmaintained public way beyond. When the Grass River CE was acquired one of the rights acquired was a ROW on an easement road nearly all the way to the Stone Dam parcel, so guaranteeing access on a well maintained road. Once to the Stone Dam parcel, there is a relatively small portion of the parcel west of the Middle Branch, so most of the State land is on the east side. There are several primitive tent sites that have been used during hunting season on the west side of the river, and at some point in the past, a bridge was put up by unknown individuals to provide access across the river. This bridge was recently replaced, also by unknown individuals and cannot remain because it does not comply with the APSLMP standards. Further, 6 NYCRR Part 666.13(E)(5) required a permit for construction of bridges for non-motorized open-space recreational uses over designated scenic rivers.

b. Discussion

The need for a bridge over the river is the primary question that needs to be answered. Hunters continue to use this location to access state land during the hunting season. There does not appear to be a reliable place to ford the river near the existing bridge, and during the fall with steady rain the river can rise quickly, so a reliable, safe crossing is needed for these users. In addition, with a well maintained road to the Stone Dam parcel, use by non-hunters could increase since it is more accessible. Aside from fishing the river, the Stone Dam parcel has relatively mature timber since it has not been harvested in the more than 100 years since the State acquired it, so that could draw more users also. Therefore, DEC proposes removing and replacing the existing non-conforming bridge.

7. Tooley Pond Mountain Vista

a. Description of Issue

The vista on the top of Tooley Pond Mountain is gradually being obscured by vegetation.

b. Discussion

The Tooley Pond Mountain trail was originally established to provide access to the site of an old fire tower where hikers have enjoyed a scenic vista for over 15 years. This vista is closing in and will be lost without vegetative management. The loss of the vista has been raised as a concern by the public. DEC and APA will continue discussions to determine what options may be available to maintain the vista in compliance with the APSLMP.

8. Grass River Railroad Parcel

a. Description of Issue

The former Grass River Railroad roadbed has the potential for use as a recreational trail through the Grass River Wild Forest unit. There have been several inquiries in recent years as to whether this Forest Preserve corridor could be utilized as part of a connector trail, which would link Cranberry Lake to other communities.

b. Discussion

The Grass River Railroad parcel extends approximately 3.2 miles through this unit, and can be divided into two main sections. The eastern section begins at SH 3 and extends west to the South Branch of the Grass River, a distance of 2.0 miles. The trail is generally in good condition, but does have one or more large culverts that have eroded and would need maintenance or replacement. There are also many small trees and saplings that would need to be cleared from the right-of-way. This portion would be relatively easy to improve and use as a non-motorized recreational trail, and would also provide canoe access to a flatwater section of the South Branch of the Grass River. The bridge no longer exists at this location, so a new bridge spanning approximately 50 to 75 feet would need to be constructed. The river in this section is classified as Scenic.

After crossing the river, the trail would continue westward another 1.2 miles to the end of state ownership, near the Silver Lake Conservation Easement. This western section of trail is in very poor condition and would require major reconstruction. There are several large culverts that have washed out and the surrounding fill has eroded, leaving gaps in the embankment which stretch 15 feet deep and 50 or more feet in length. There are also several sections of trail that are waterlogged and would need significant drainage and surface hardening. Rehabilitating this western section of trail is possible, but it would require a significant investment in time and materials to do so.

Additionally, the final 1.0 mile of trail leading from the end of the Grass River Railroad parcel westward to the hamlet of Cranberry Lake crosses private land. Any trail connector crossing this land would require approval of the private landowners.

Another factor influencing this proposal is that the boundary lines of the state parcel, as well as those of adjacent landowners, are not marked. Where the railroad roadbed is no longer distinct, boundary lines may need to be established before work on that section could begin.

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IV. Proposed Management Actions

Goals for the management of the Grass River Wild Forest:

- a. Protect the natural wild forest and River Area setting.
- b. Provide a variety of compatible outdoor recreational opportunities without degrading the resource or impairing the wild forest or River Area character. These opportunities must be consistent with the guidelines set forth in the APSLMP, 6 NYCRR Part 666, and with Department policies.

This section of the plan breaks down proposed management of the various resources of the unit into the following categories; bio-physical resources, land protection, man-made facilities, and public use and access. Each category is further broken down into component units where the present conditions are assessed, management objectives developed and management actions proposed. All recommended actions are consistent with the APSLMP and the management guidelines and principles outlined above, and are based on information gathered during the inventory process, through public input and in consultation with the Planning Team. When writing management proposals, DEC managers are restricted by Article XIV, Section 1 of the New York State Constitution, the APSLMP, the Environmental Conservation Law (ECL), and DEC rules, regulations and policies.

A. Bio-Physical Resources

1. Water

Present Situation and Assumptions

Water quality studies have been conducted throughout the Adirondacks by the Adirondack Lakes Survey Corporation, researching the effects of acid deposition, and the Bureau of Fisheries routinely conducts biological surveys of area waters. However, no studies have been conducted to determine the effects of recreation use on water quality.

Objectives

- Seek to achieve and maintain high water quality within the Grass River Unit.
- Reduce the potential for pathogenic contamination (especially giardiasis) from all water sources.
- Reduce or eliminate aquatic invasive plant species found within the unit.

- Reduce the direct impact of human activities on water quality by improving user awareness of the effect of polluting activities.
- Reduce the impact of water quality caused by the use and construction of facilities by locating facilities adequate distances from water bodies and adhering to BMPs during construction.

Management Actions

- Monitor Grass River Wild Forest waters for physical and chemical factors and maintain a water quality database.
- Develop LAC indicators and standards for vegetation in riparian areas near lakes and streams.
- Aquatic and riparian habitats will be maintained and/or improved. Any new use which could prove damaging to the character of riparian vegetation will be monitored.
- Train DEC staff working within the unit to identify and document the location of key invasive plant species.
- Monitor for the location and extent of aquatic invasive plant species found within the unit. Management of identified populations of invasive plant species should be undertaken. These actions may be carried out by NYS DEC personnel or by members of APIPP or other volunteers under supervision of NYS DEC through Volunteer Stewardship Agreements. Specifically, continue to take actions to control frogbit and monitor the unit's waters for its presence, particularly on the Middle Branch of the Grass River where it was originally found.
- Biological survey work will be incorporated in all future water related planning activities.
- Advise adjoining landowners on the use of Best Management Practices to protect water quality.
- Advise the public through DEC information and education programs to treat all water prior to consumptive use.

2. Soil

Present Situation and Assumptions

Broad soil types (accurate to an area about 40 acres in size) were delineated on aerial photographs by the Natural Resource Conservation Service. Little information has been

documented on wide-spread soil loss and deposition. Information needs to be collected to document soil loss through human disturbance on trails, shorelines, and at tent sites.

Objectives

- Keep soil erosion and compaction caused by recreational use within acceptable limits that closely approximates the natural erosion process.
- Remediate and stabilize areas that have significant erosion.

Management Actions

- Inventory, map, and monitor soil conditions affected by recreational use.
- Develop LAC indicators and standards for soil erosion.
- Relocate any trail, designated primitive tent site, or lean-to which is causing significant soil erosion.
- Establish routine maintenance on all designated trails; establish a priority list based on resource needs.
- Continue to restrict motor vehicle use during the spring breakup and during periods of excessively wet weather.
- Target trail and road maintenance to heavily eroded trails and roads; develop a priority list based on resource need.
- Request voluntary compliance with minimizing use of trails during periods of wet weather and susceptible soils; roughly from November 1 - December 15 and April 1 - May 15.

3. Wetlands

Present Situation and Assumptions

The wetlands found on the unit provide great ecological, aesthetic, recreational, and educational value. In their capacity to receive, store, and slowly release rainwater and snow melt, wetlands protect water resources by stabilizing water flow and minimizing erosion and sedimentation. They are one of the most productive habitats for fish and wildlife, and afford opportunities for fishing, hunting, wildlife observation, and photography. Wetlands also enhance open space character by providing breaks in the heavily forested terrain.

The typography of the Grass River Wild Forest unit generally restricts the occurrence of wetlands to the narrow valleys, lowlands, and associated creeks and rivers that drain

the surrounding terrain. While there are some small isolated wetlands, the vast majority of the wetlands in this management area are found in small groups or successive chains along stream courses. Wetlands are also important bird habitats and deer wintering areas.

Vernal pools are scattered throughout the upland forests of the unit. These are small wetlands that occupy shallow depressions flooded in the spring or after a heavy rainfall, but are usually dry by midsummer. Many vernal pools refill in the fall. These tiny wetlands support a diverse group of invertebrates and species of frogs, salamanders, newts, and toads.

Management activities in or adjacent to classified wetlands require consultation with the Adirondack Park Agency.

Objectives

- Minimize the impacts of construction and maintenance activities on wetlands.
- Allow natural processes to freely operate to ensure that the succession of native plants communities is not altered by human use.
- Protect known locations of sensitive, rare, threatened, and endangered plant species.

Management Action

• Consider relocating trails, primitive tent sites and lean-tos which are less than 100 feet from wetlands to reduce sedimentation and/or contamination of wetlands.

4. Vegetation

Present Situation and Assumptions

Much of the Grass River Wild Forest vegetated landscape has been altered by agriculture, wind, fire, insects and disease, and by logging activities before the land became Forest Preserve. Despite these influences, the unit has several unique ecosystems which are currently stable and intact. These areas include small portions of old growth forest, wetland communities, and potentially some areas not yet identified through the UMP process. Plant inventories and ecological mapping are on-going; however, not all areas have been inventoried. Because of the intermingled nature of private and public lands and embedded transport vectors, State Lands are, and are likely to be, affected by infestations of invasive species and subsequent degradation of natural system function. Several invasive exotic plant species, both terrestrial and aquatic, have become established in the Adirondack Park. Under the supervision of the

Adirondack Park Invasive Plant Program (APIPP), paid staff and numerous volunteers are involved in a program of monitoring and removing invasive plants from the Adirondack environment. Many locations of invasive species have been mapped as a result of the efforts of APIPP, but the full extent of exotic, non-native species introductions that compete with indigenous vegetation is not known at this time.

Invasive Plants

The negative impacts of invasive species on natural forests, terrestrial and aquatic communities are well documented. Colonization and unrestrained growth of invasive species cause the loss of biodiversity, interruption of normal hydrology, suppression of native vegetation, and significant aesthetic, human safety and economic impacts. Terrestrial and aquatic invasive species have been identified at increasing rates of colonization along roadsides in campgrounds, and in water bodies of the Forest Preserve. Some of these species have the potential to colonize backcountry lands, lakes and ponds and degrade natural resources in the Forest Preserve.

Although in the context of a global society, the transfer of species from one location to another may be viewed as part of a "natural process," there may be occasions when this relocation of non-native species becomes unacceptable and an active response is warranted.

The Department of Environmental Conservation has created an Office of Invasive Species to work with various universities, state agencies and non-profit groups in coordinating a response to invasive species. The Department is a member and will continue to collaborate with other partners of the APIPP to support education, inventory, research, control protocol, and control of invasive species. An inventory and analysis of the current distribution of invasive species on Forest Preserve lands will provide the necessary information on the present extent of invasive exotics and provide the basis for long term decision making.

In 2010 the Department and the Adirondack Park Agency developed Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park. These Guidelines provide a template for the process through which comprehensive active terrestrial and aquatic invasive species management will take place on Forest Preserve lands in the Adirondack Park. The Department shall be responsible for management of terrestrial and aquatic invasive species on Forest Preserve lands while the Agency will be responsible for providing review of, and advice on, APSLMP compliance and permit jurisdiction.

The control methods and Best Management Practices (BMPs) contained in these Guidelines restrict the use of herbicides so that adverse impacts to non-target species are avoided and native plant communities are restored. Aquatic invasive species will be managed using non-mechanical harvesting techniques (hand-pulling) and temporary benthic matting as described in the Guidelines. Use of pesticides for aquatic species is not a part of this guidance. The Guidelines are meant to be a dynamic document that is periodically revised to reflect new invasive species threats, continuing inventory of the Forest Preserve, and evolving invasive species management techniques.

Efforts should be made to restore and protect the native ecological communities in the Grass River Wild Forest unit through early detection and rapid response efforts to eradicate or control existing or newly identified invasive species populations. Adoption of the Guidelines and implementation through the UMP and site specific work planning process, gives the Department the basic tools needed to preserve, protect and restore the natural native ecosystems of the Forest Preserve.

Prior to implementing containment and/or eradication controls, terrestrial and aquatic invasive plant infestations occurring within the Unit need to be assessed on a site-by-site basis. The geophysical setting and the presence, or absence, of sensitive native flora within or adjacent to the targeted infestation often predicts the Best Management Practices (BMPs) and limitations of the control methodology. Infestations occurring within specific jurisdictional settings may trigger a permitting process, as do most terrestrial infestations occuring within an aquatic setting. The species itself often dictates whether manual management controls, e.g. hand-pulling or cutting, or the judicious, surgical application of herbicides is warranted in order to best control that specific species in that specific setting. No single BMP guarantees invasive plant containment or eradication. Many infestations require multiple, seasonal control efforts to reduce the density and biomass at that setting. Adaptive management protocols suggest that implementation of integrated control methodologies may provide the best over-all efficacy at specific infestations.

All management recommendations are based on knowledge of non-native invasive species present within the Unit and their location, species, abundance and density. A complete inventory of the Unit is necessary to identify aquatic and terrestrial invasive plant threats facing the unit. Inventory should be based on existing inventories, formal or informal inventories during routine operations, and by soliciting help from volunteers to actively study the Unit and report on invasive species presence, locations, and condition.

Invasive Plant Control

Facilities and activities within the Unit may influence invasive plant species introduction, establishment, and distribution throughout and beyond the unit boundaries. These facilities and activities are likely to serve as "hosts" for invasive plant establishment.

Perpetual Early Detection/Rapid Response(ED/RR) protocols should be implemented in probable locations of invasive plant introductions:

- Parking Areas
- Campgrounds
- Boat Launches
- Dedicated Snowmobile Trails
- Horse Trails

Protocols to minimize the introduction and transfer of invasive plant species will be incorporated during routine operations and emergency maintenance activities, which may include the following:

<u>Construction Projects</u>

Supplemental to the principals of the Minimum Tools Approach, all soils/straw/seed or sources of materials to be used as stabilization/cover for construction projects within the unit will be free of invasive species.

• Trail Maintenance

Supplemental to the principals of the Minimum Tools Approach, all soils/straw/seed or sources of materials to be used as stabilization/cover for construction projects within the Unit will be free of invasive species. Persons working on trails will clean boots, tools and clothing prior to entering or leaving a work area to reduce the risk of invasive species transport and introduction to new sites.

Field Sampling

Personnel performing field sampling should avoid transferring aquatic invasive species between waters by thoroughly inspecting and cleaning equipment between routine operations. Potential pathways include: vehicles, boats, motors, and trailers; sampling equipment; measuring and weighting devices; monitoring equipment; and miscellaneous accessories.

<u>Angling Tournaments / Derbies</u>

Licensing, registration, and/or permitting information distributed by the Department to Tournament or Derby applicants should include guidelines to prevent the introduction and transport of invasive species. Restoration of sites where invasive plant management occurs is critical to maintain or enhance historical ecological function and structure. Restoration should incorporate best available science to determine effective techniques and the use of appropriate native or non-invasive plant species for site restoration.

Educating natural resource managers, elected officials, and the public is essential to increase awareness about the threat of invasive species and ways to prevent their introduction and transport into or out of the Unit. Invasive species education should be incorporated in staff training and citizen licensing programs for hunting, fishing, and boating; through signage, brochures, and identification materials; and included in information centers, campgrounds, community workshops, and press releases.

Aquatic Invasive Plant Recommendations – All aquatic invasive species pose a risk of spreading via transport mechanisms which may include seaplanes, motorized and non-motorized watercraft (canoes, kayaks, jet skis, motor boats, etc.) and associated gear and accessories. Some measures are currently under development to help educate the public about controlling the spread of exotic and invasive species. Signs have been placed at some access points and DEC boat launches which warn about the threat of exotic species, including specific information on some aggressive species such as Eurasian water milfoil. Additional research and collaboration among partners and stakeholders should occur to develop an appropriate, effective, and approved prevention and integrated plant management plan.

Objectives

- Allow natural processes to play out their roles to ensure that the succession of plant communities is not altered by human impacts.
- Preserve and protect known locations of Threatened, and Endangered species.
- Continue and enhance programs to identify and map Threatened, and Endangered species.
- Assist natural forces in restoring natural plant associations and communities where they have been severely altered by human activity.
- Reduce or eliminate invasive plant species found within the unit.
- Support scientific research projects on the Grass River Wild Forest that contribute to management improvements or to dealing with Adirondack Forest Preserve management issues.

Management Actions

- Develop LAC indicators and standards for condition of vegetation in camping areas.
- All vegetation protection and restoration programs will emphasize information and education as the primary means to reduce impacts and slow unnatural change.
- Continue botanical surveys to produce a more complete inventory of Threatened and Endangered species.
- Ecological inventorying and mapping will be correlated with recreation, and fish and wildlife project plans to prevent unintended and undesirable impacts to Threatened and Endangered species.
- Re-vegetate sites where concentrated use has destroyed natural vegetation. Native seedlings, trees, shrubs, and grasses will be planted to accelerate return to natural conditions when necessary.
- Vegetation at primitive tent sites will be monitored in conjunction with the primitive tent site monitoring program described in the section on primitive tent sites.
- Train DEC staff working within the unit to identify and document the location of key invasive plant species.
- Control known infestations of invasive species using BMP's found in: Inter-Agency Guidelines for Implementing Best Management Practices for the Control of Terrestrial and Aquatic Invasive Species on Forest Preserve Lands in the Adirondack Park (revised 2012).
- A comprehensive inventory of the presence and extent of invasive plants in the unit should be undertaken.
- Management of identified populations of invasive plant species should be undertaken. These actions may be carried out by NYS DEC personnel, by APIPP professional or volunteer staff and/or other volunteers under supervision of NYS DEC through a Stewardship Agreement, or under contracts with other institutions or commercial entities.
- Support research through the issuance of TRP's and coordinating with research institutions on research topics/projects.

 Department staff will work with APPIP staff to implement ED/RR inventories at trails, trailhead parking areas, camp sites and facilities within the interior of the Grass River Wild Forest.

5. Wildlife

Present Situation and Assumptions

The Grass River Wild Forest unit hosts a variety of Adirondack wildlife. Many species depend on area habitats for nesting, rearing, and survival. Recreational hunting is a major use of the unit because of the easy access to public land. Many visitors also come to the Grass River Wild Forest to view wildlife, especially along riparian areas and wetlands.

Many changes have occurred over the past several decades that have impacted a variety of wildlife species within the GRWF. Habitat changes have resulted from logging prior to the land becoming Forest Preserve, wildfires, acid precipitation, recreational use, natural plant succession, protection of the forest and wildlife species through legislation, attempted reintroduction of extirpated species of wildlife and immigration of extirpated species back into the area.

One of the original factors attracting visitors to the Adirondacks, in general, was the vast array of hunting, fishing and trapping opportunities. The APSLMP indicates that these uses are legitimate and compatible with Forest Preserve concepts. DEC policy encourages these activities as part of a larger Forest Preserve experience, not just a quest for game (Doig, 1976).

Habitat areas heavily used by wildlife are often also choice locations for human trails and primitive tent sites (Hendee et al., 2002). Trails which follow easily along contours are often times used by wildlife and also make desirable routes for locating hiking trails. Bears often scrounge for food and garbage where people habitually camp. While negative human/bear encounters in this unit are minimal, the concentration of camping in distinct locations poses the potential for this to be a problem in the future. Domestic pets, mainly dogs, may also harass and stress wildlife.

Objectives

- To perpetuate, support, and expand a variety of wildlife recreational opportunities, including sustainable hunting and trapping wildlife observation and photography as desirable uses of wildlife resources.
- To assure that wildlife populations are of appropriate size to meet the demands placed on them, including consumptive and non-consumptive uses.

- To increase our understanding of the occurrence, distribution, and ecology of game and nongame wildlife species and their habitats.
- To minimize wildlife damage and nuisance problems.
- To meet the public's desire for information about wildlife and its conservation, use, and enjoyment.
- Provide additional hunter access to public lands.
- When feasible, re-establish self-sustaining wildlife populations of species that are Endangered, Threatened or of Special Concern in habitats where their existence was an historical element of the ecosystem.
- Monitor and afford extra protection, where warranted, to species which are Endangered, Threatened or of Special Concern that are currently using the Grass River Wild Forest.
- Maintain and perpetuate annual hunting and trapping seasons as legitimate uses of the wildlife resources compatible with other recreational uses in the unit.
- Provide information, advice and assistance to individuals, groups, organizations and agencies interested in wildlife, whose activities and actions may affect, or are affected by, the wildlife resources or the users of wildlife.

Management Actions

- Manage and protect wildlife through enforcement of the Environmental Conservation Law and applicable Rules and Regulations.
- Support traditional use of the unit's wildlife resources, particularly activities designed to perpetuate hunting and trapping programs and education efforts.
- Continue to monitor and inventory wildlife populations and their habitats, particularly game species, species classified as rare, threatened, endangered or special concern, and those species associated with boreal habitats.
- Active management of wildlife populations will be accomplished primarily through hunting and trapping regulations developed by the NYSDEC Bureau of Wildlife for individual or aggregate Wildlife Management Units. Continued input from Citizen Advisory Committees will be considered in determining desirable levels of wildlife.
- Re-establish, to the extent possible, self-sustaining wildlife populations of species that are extirpated, endangered, threatened or of special concern in habitats

where their existence will be compatible with other elements of the ecosystem and human use of the area.

- Conduct surveys for Spruce Grouse and evaluate the distribution and quality of potential Spruce Grouse habitat. Based on results of the surveys and habitat assessment, consider reintroducing this species.
- Provide information, advice and assistance to individuals, groups, organizations and agencies interested in wildlife whose activities and actions may affect, or are affected by, the wildlife resources or the users of wildlife.
- Provide information, advice and/or assistance to requests for relief from, or solutions to reduce or alleviate, problems with nuisance wildlife.
- Promote educational efforts to protect spruce grouse from accidental shooting by small game hunters.
- Monitor moose that enter the area through visual observation and reports from the public.
- Continue pelt sealing of species to determine level of harvest, guarding against over harvest for species especially vulnerable to trapping (marten and fisher).
- Promote education efforts stressing multiple uses and hunting seasons that are concurrent with other anticipated uses of the area. Advise visitors of the fact that there is hunting in the area so that they may dress and act accordingly during the hunting season.
- Advise visitors to the area that the potential for conflict with wildlife exists and suggest means of avoiding conflicts through a combination of on-site signage, printed Department media, and direct contact with Department staff.

6. Fisheries

Present Situation and Assumptions

For most of the unit's waters, fish community data is insufficient to develop complete management objectives. Fish community surveys will be a top priority for these waters. Biological and chemical surveys of selected waters will be conducted to assess management needs and determine progress toward fishery management objectives.

Stocking fish in unit waters, including fish stocking via aviation support, will be consistent with Bureau of Fisheries policies and the Programmatic Environmental

Impact Statement on Fish Species Management Activities of the Department of Environmental Conservation, dated December 1979.

Objectives

- Perpetuate and enhance a diverse, high quality fishing experience in accordance with sound biological management practices.
- Maintain the diversity of coldwater and warmwater fish populations in the unit.
- Protect native fish communities from the addition of undesirable non-native fish.
- Provide recreational angling as an experience for the public including persons with disabilities.
- Encourage and promote angler use of the waters in the unit through routine fish management practices including hotlines, correspondence and contact with the public by Department staff.

Management Actions

• Conduct biological and chemical surveys of all waters within the unit as required.

B. Land Protection

1. Acquisition

Present Situation and Assumptions

The overall framework for land protection in New York State is identified in the "State Open Space Conservation Plan." The plan is built from the bottom up from the work of nine regional committees, representing the spectrum of open space advocates, natural resource and recreation professionals, local government, and concerned citizens. This plan ensures that the State of New York conserves its cherished open space resources as a critical part of efforts to improve the natural resources, economy and the quality of life in New York communities. This plan is available from DEC or at the DEC website at www.dec.state.ny.us

Objectives

• Provide public access to all state lands.

Management Actions

• Pursue acquisition of parcels identified in the Open Space Plan from willing sellers.

• Pursue acquisition of the National Grid lands along the South Branch of the Grass River.

2. Boundary Lines

Present Situation and Assumptions

Aside from public roads and riparian boundaries, the Grass River Wild Forest has approximately 84 miles of boundary lines (plus 147 miles on Conservation Easement lands in the Grass River Unit).

Objectives

- Locate and post all boundary lines on a scheduled basis.
- Physically identify APSLMP unit designations on the ground for administrative and public use.

Management Actions

- Physically inspect the boundary lines of all Grass River Wild Forest lands to determine survey and maintenance needs; assign a priority to each.
- Undertake maintenance activities to ensure all boundaries are identified and marked within the five-year implementation of the UMP.
- Brush, paint, and sign all boundary lines at least once every seven years. In particular, post signs where the boundaries cross any trail, road, or stream.
- Monitor boundaries for unauthorized activities, such as illegal motor vehicle entry, encroachment from private lands, and timber trespass.
- Sign unit boundaries with boundary signs identifying the land classification of the unit.
- Sign trailheads, trails and other entrances to the Grass River Wild Forest with specific signage identifying the unit's designation, so that both Department personnel and the public know individual unit designations.
- Explore opportunities to gain legal access to landlocked parcels in Fine.

3. Fire Management

Present Situation and Assumptions

DEC is required by law (Article 9 ECL) to suppress all human-caused and natural fires. Fire activity within the Grass River Wild Forest has been historically low. The

predominantly hardwood forests combined with abundant annual precipitation lessens the likelihood of major fires. Short term droughts can increase the potential for fires.

Objective

• Adequately protect the unit from wildland fires.

Management Actions

- Fire prevention activities will consist of public education on fire safety awareness, with information disseminated through brochures and signing at informational kiosks.
- Use restrictions may be imposed on Forest Preserve lands during periods of high fire danger.

4. Use Reservations and Occupancies

Present Situation and Assumptions

Adjoining owners use several roads across Forest Preserve to reach their lands. For example, on the Tooley Pond tract, Spruce Mountain and New Bridge roads both are ROWs for the owner of the easement lands to access their lands. Although their use of these roads may be legitimate, their use and maintenance must conform to existing laws, policies, Article XIV and the APSLMP. Completion of boundary line survey work is needed to determine if there are any additional occupancies on Forest Preserve lands.

Objectives

- Comply with guidelines set forth in the APSLMP.
- Comply with provisions of Article XIV, Section 1 of the NYS Constitution.

Management Actions

- Monitor use of roads utilized under reserved rights of others.
- Develop a plan and schedule for the removal of any occupancies on Forest Preserve lands as they are discovered.

C. Man-Made Facilities

Objectives

- Construct, maintain and manage all structures and improvements in conformance with Article 14 of the state constitution, the APSLMP, and within River Areas, ECL Article 15 title 27, 6 NYCRR Part 666.
- Remove any nonconforming uses.

- Remove any illegal man-made facilities on Forest Preserve lands.
- Establish a program of continual monitoring of the unit's conforming structures and improvements through the implementation of the Department's Maintenance Management System.
- Design all structures and improvements in accordance with a unified system developed for all Forest Preserve lands and in conformance with regulations implementing title 27 of Article 15 of the ECL and any required permits.
- Support the retention and long-term development of facility construction and maintenance expertise among Department staff.
- Supplement Department staff resources by encouraging volunteer assistance in the construction and maintenance of facilities. Enter into long-term volunteer maintenance agreements under the terms of the Volunteer Stewardship Agreement policy.

Management Actions

- Prepare a project work plan for each construction or maintenance project.
- Consult with the Adirondack Park Agency in accordance with the current DEC-APA Memorandum of Understanding.
- Obtain permits for any new facilities or uses within the river corridor as required by title 27 of Article 15 of the Environmental Conservation Law and 6 NYCRR Part 666 as applicable.
- Develop a complete inventory of all structures and improvements and identify maintenance needs in accordance with the Department's Maintenance Management System.
- Comply with the requirements of all applicable laws, regulations and policies.
- Use the Limits of Acceptable Change (LAC) system to monitor and address environmental impacts related to the existence of structures and improvements in the unit.

1. Roads

Present Situation and Assumptions

A wide variety of roads can be found within the unit from heavily traveled highways like State Highway 56 to lightly used forest access roads. While these major roadways pose management issues such as litter and storm water discharge, it is the local county and town highways that pose the more significant concern to the management of the Grass River Wild Forest unit.

Concerns related to the smaller local highways involve routine maintenance and safety issues. The Grass River Wild Forest UMP stresses coordination and cooperation with local townships concerning the repair and maintenance of local highways providing access to trail heads and waterway access sites.

Area roads not open to public vehicular traffic (State truck trail/administrative roads) will only be maintained to the degree necessary to allow DEC administrative vehicles. In addition, where noticeable impacts are observed to roads being used illegally by motor vehicles, barriers will be placed. Where natural resource damage has occurred, remediation measures will take place.

Use of the roads identified herein within the River Areas predates and continued regularly after the enactment of the WSRRS Act. The operation of motorized vehicles on such roads is an existing land use and may be allowed subject to other applicable laws and regulations. With regard to designated rivers on state land, 6 NYCRR Part 666.13(E)(4) provides that no permit is necessary for the use and operation of motor vehicles and motorized equipment required for any allowable use within Scenic or Recreational River Areas. The operation of motorized vehicles on such roads is an existing land use allowed subject to other applicable laws and regulations.

Objectives

- Provide visitors with roadways that provide safe access to recreational opportunities in a manner that keeps physical and visual trail and resource impacts to a minimum.
- Maintain access roadways to appropriate APSLMP guidelines.
- Coordinate with local government to identify and address roadway maintenance projects that affect trail head access.
- Minimize the impact of road use and maintenance on the natural resources of the unit through continued monitoring and TRP issuance.
- Identify areas that provide potential scenic or recreational pull-offs.
- Prevent illegal motor vehicle use.

Management Actions

• Maintain existing roads open to public motor vehicle use.

- Open the Spruce Mtn. Road across the South Branch of the Grass River to seasonal public motor vehicle use to provide access to the Tooley Pond CE, particularly for the hunting seasons.
- Open the New Bridge Road:
 - to seasonal public motor vehicle use to provide access to the Tooley Pond CE, particularly for the hunting seasons.
- Open the Rail Road Grade Road:
 - to seasonal public motor vehicle use to provide access to the Tooley Pond CE, particularly for the hunting seasons.
- Work with towns to establish a maintenance schedule for the road network supporting facilities, (i.e. barriers, signage, etc.) within the Grass River Wild Forest unit.
- Require TRP's for all non-routine road maintenance by local governments and holders of ROWs across unit lands that impacts the natural resources of the unit.
- Monitor roads in the unit for illegal use and take corrective measures when appropriate.
- Provide adequate signage and rock barriers, as needed, on roads closed to motor vehicle use.
- Enforce against illegal motor vehicle use.
- Install permanent rock barricades on side roads leading to Leonard Pond.
- Improve roadside pull-off parking at waterfall trails on Tooley Pond Road.
- Improve the road to and into the Stone Dam parcel, from beyond where it exits the Grass River CE main haul road.
- Improve a 0.9 mile portion of the Hollywood Road to provide access to 2 primitive campsites and Leonard Pond.

2. Trails

a. Hiking, Skiing, Snowshoe Trails

Present Situation and Assumptions

A primary goal for all trail systems is to develop sustainable trails that have minimal impacts on the environment, require little maintenance, and meet the needs of the users. Trails should be developed using appropriate design standards based on the desired uses. Considerations should be made for either a single or multiple treadway, tread width and surface, corridor and vertical clearance, sight distance, grades, and turning radius to provide an appropriate trail experience for expected users and levels of use.

Hiking trails are designed specifically for foot travel. These trails may contain design features such as: stone steps, bog bridges, and waterbars. Cross country ski trails are designed specifically for skiing and often feature a system of looped trails of varying difficulty over rolling terrain. Ski trails are, however, often compatible with a variety of other uses.

Trail maintenance standards will utilize the DEC's trail classification and marking standards. Trail maintenance activities include:

- Maintaining drainage structures
- Clearing to maintain height and width clearances
- Maintaining bog bridges and other structures
- Maintaining signage
- Stabilizing trail tread surfaces

A monitoring program should be developed to monitor trail conditions. Regular monitoring of trail conditions allow for early detection of safety or maintenance issues before user safety is compromised or trail conditions worsen. This monitoring program will include an annual inspection of all trails in the unit. This monitoring program will include:

- Monitoring trail use to avoid user conflicts and to ensure sustainability;
- Monitoring trail conditions, including the locations of invasive species;

When overuse is occurring, remediation should be provided through the use of water control and trail hardening techniques, or by relocating sections of the trail. Sometimes it may be necessary to close or reroute a trail due to poor initial design, overuse, illegal

use, or other factors. Some trails are located on routes not initially developed for foot trail use. These trails may have started out as logging roads, and may have wet areas, steep slopes, ruts or other conditions that have caused degradation.

Trail reclamation strategies may include: closure, stabilization, recontouring, and revegetation. Restoration can be as simple as blocking a closed section of trail and allowing the vegetation to recover. More complex projects may include removing any trace of the trail tread, and actively planting native vegetation. Careful monitoring of the restored trail section is then needed to ensure that little evidence remains of the old trail.

Vegetation should be allowed to grow on the abandoned trail where it intersects with the designated trail. Brush, rocks and other natural material should be placed on the abandoned trail for a distance so that the linear characteristic of the trail cannot be readily identifiable. Old DEC trail markers should also be removed.

The Grass River unit's trail system on Forest Preserve encompasses approximately 8.65 total miles of trails, which consists of 3.65 miles of snowmobile trails and 5.0 miles of foot trails. Skiing and snowshoeing also occur on the unit's trails. However, no monitoring of these uses has occurred in the unit, and so the extent to which they contribute to overall trail use and impact is unknown, though the impact is assumed to be minimal since use is while there is a snowpack in place.

Trails are not self-sustaining and must receive a degree of trail maintenance or they will deteriorate quickly and cause other resource problems. Blowdown, heavy brush and vegetation growing in from the sides of the trail, and wet areas are most commonly encountered. Currently, the need for trail maintenance in the unit is greater than the maintenance resources the Department can offer.

Despite the need for maintenance and rehabilitation on the trails in the unit, most trails are in fair to good condition. The rolling topography of the Grass River unit creates sections of trail in good condition on the high ground, and wet conditions around stream crossings and along stream corridors. Most of these trail problems can be addressed by drainage work, and others can be fixed with minor trail rerouting. To prioritize trail maintenance activities, all Grass River unit trails will be incorporated into the DEC's trail classification system.

Objectives

- Provide visitors with a trail system that offers a range of Wild Forest recreational opportunities in a manner that keeps physical and visual trail and resource impacts to a minimum.
- Maintain trails to appropriate Wild Forest standards.

- Identify need for trail relocations and/or need for new trails.
- Provide access to areas as appropriate and needed in a manner that protects the resource.
- Provide a unified system of trail signage and markers on Forest Preserve lands.
- Allow volunteer groups under Volunteer Stewardship Agreements ("VSAs") to assist with trail maintenance activities. Acknowledge and recognize the work of all groups and volunteers for their efforts on trails. Sponsor and publicize volunteer trail work days to involve community members in trail maintenance.
- Construct and maintain trails in conformance with APSLMP and DEC policy to the specifications as outlined in the Departments Trail Construction and Maintenance Manual. Within river areas, permits will be obtained and trails will be constructed to conform to the definition of trails or appropriate variances will be sought.
- Assure that trail surfaces remain durable by addressing problem sections with suitable trail hardening techniques.
- Encourage the use of regularly scheduled trail monitoring and maintenance that includes inspection and assessment of trail conditions, use, signage, and structures followed by prompt repair.

Management Actions

- Annually inspect all marked trails. Conduct minor maintenance, (blowdown removal, brushing, etc.), as the need occurs.
- Follow DEC trail marking standards. Foot trail markers will be used on trails where only foot traffic is permitted.
- Construction of new trails will include any structures needed to protect the resource and to allow use of the trail, such as bridges.
- Construct a foot trail to Church Pond from State Highway 56, if feasible. It would require a parking area on the easement across the road and permission from the adjacent landowner to cross a skinny strip of land to get on to Preserve.
- Designate and mark trails to waterfalls along Tooley Pond Road including; Basford, Sinclair, Bulkhead, Rainbow, Copper Rock, and Twin Falls.

- Improve the canoe carry trail on the Middle Branch parcel by constructing a boardwalk, and install a trail register. This boardwalk may require a wetland permit; therefore, this project will be done in consultation with the APA.
- Build a trail to Cranberry Pond, if an acceptable location can be found.
- Build a canoe carry trail through the Cranberry Pond parcel to the North Branch of the Grass River on the Grass River CE, to provide access to the stillwater section of the river.
- Rehabilitate part or all of the Grass River Railroad west of SH 3, as part of a nonmotorized recreational connector trail.

b. Bicycle Trails

Present Situation and Assumptions

Bicycling is one of the fastest growing recreational activities in the United States (New York Statewide Trails Plan, NYSOPRHP, 2010). The increasing demand for bicycle trails has increased the pressure for use on trails established for other uses, and for the development of additional trails constructed to sustainable trail standards. Bicycle trails are typically designed for low-impact use, and can range from general to challenging.

In recent years, the St. Lawrence County bicycle community has become wellestablished. This bicycle community has sought to reduce conflict by maintaining trails, educating trail users, and minimizing environmental impacts.

Currently all roads and designated trails are suitable for bicycle use. At current levels of bicycle use, no significant environmental impacts are likely to occur on these trails. Assessments of current trails, and potential trails not currently designated, should be accomplished. Assessments should focus on identifying both areas which may be designated in the future for bicycle use, and on areas where bicycle use should be prohibited due to environmental impacts or user conflicts.

Objectives

- Allow volunteer groups under VSA's to assist with bicycle trail maintenance activities.
- Assure that bicycle trail surfaces remain durable by addressing problem sections with suitable trail hardening techniques.
- Design bicycle trails to avoid sensitive areas and wetlands.

• Use existing roads where possible that do not exceed grades of 10%.

Management Actions

- Monitor bicycle use within the unit.
- Annually inspect all trails. Conduct minor trail maintenance, (blowdown removal, brushing, etc.) as the need occurs.
- Assess all trails for suitability for bicycle use.
- Follow DEC trail standards for maintenance and construction.
- If sections of trails being used by bicycles become too eroded, and no mitigation measures are found to alleviate the damage, those sections of trails will be closed, and relocated, if possible.
- Develop a bicycle trail connecting the old Grass River logging road at Lampson Falls to bicycle trails within Downerville State Forest.
- Rehabilitate part or all of the Grass River Railroad west of SH 3, as part of a nonmotorized recreational connector trail (including bicycle use).

c. Snowmobile Trails

Introduction

The main purpose of snowmobile trail use in the Grass River Wild Forest unit is to provide a Forest Preserve snowmobiling experience and to connect to existing snowmobile trails on adjacent lands. Snowmobile trails have been designated throughout the unit, crossing and linking various Wild Forest parcels with easement tracts. For example, snowmobile trails provide connecting links between the Tooley Pond Forest Preserve and CE parcels, the Grass River CE and the Long Pond CE.

Present Situation and Assumptions

The DEC system of snowmobile trails has been used by the NYS Office of Parks, Recreation, and Historic Preservation (OPRHP) to identify a snowmobile trail corridor system within the unit as part of OPRHP's statewide snowmobile trail network. OPRHP's snowmobile trail classification plays a major role in the amount of funding available for grooming and trail maintenance. Trails designated by OPRHP as snowmobile "corridor" or "secondary" trails are eligible for OPRHP funding to support maintenance and grooming. DEC, as per the *Management Guidance*, however, utilizes a different trail classification system and different trail construction and maintenance standards on Forest Preserve lands than those recommended by OPRHP.

The DEC classification of snowmobile trails on Forest Preserve lands is as follows:

Class II (Community Connector Trails) - Snowmobile trails or trail segments that serve to connect communities and provide the main travel routes for snowmobiles within a unit are Community Connector Trails. These trails are located in the periphery of Wild Forest or other Forest Preserve areas. They are always located as close as possible to motorized travel corridors, given safety, terrain and environmental constraints, and only rarely are any segments of them located further than one mile away from the nearest of these corridors. They are not duplicated or paralleled by other snowmobile trails. Some can be short, linking communities to longer Class II trails that connect two or more other communities.

Class I (Secondary Snowmobile Trails) - All other snowmobile trails that are not Community Connector Trails are Secondary Snowmobile Trails. These trails are located in the periphery of Wild Forest and other Forest Preserve areas where snowmobile trails are designated^{**}. They may be spur trails (perhaps leading to population areas and services such as repair shops, service stations, restaurants and lodging), short loop trails or longer recreational trails. If directly connected to Class II trails, new and rerouted Class I trails are always located as close as possible to - and no farther than one mile from - motorized travel corridors, although some - with high recreational value may be located beyond one mile and may approach a remote interior area.

Snowmobile Use on Roads - DEC management of all such roads for motor vehicle use, including snowmobiles, is guided by the Department's CP-38 Forest Preserve Roads policy.

A Park-wide Perspective on Snowmobile Planning

Until recently, snowmobile trail planning and development was accomplished through individual unit management plans on a unit by unit basis. Throughout the development of recent UMPs, the need to consider a broader approach to snowmobile trail planning became evident. When the Adirondack Park snowmobile trail network is viewed in its entirety, it becomes obvious that there are numerous gaps in the trail network, as well as redundant trails. These gaps isolate individual towns and villages and without connections to other regions may limit opportunities for riding to local trails. In other cases ice crossings, necessitated by the lack of ground routes, adversely affects when adjoining trails may be used. These situations not only limit for some communities the opportunity to take advantage of the economic benefits of snowmobiling but also tend to focus more intensive use of areas with a more developed snowmobile trail network.

Developing a better Park-wide network will not only improve snowmobiling opportunities throughout the Park, but will offer opportunities to enhance areas within the interior by reducing impacts associated with snowmobile use. Interior trail closures should focus on dead-end trails, those requiring ice crossings, trails that are redundant and those that

are in proximity to either wilderness boundaries or areas of the unit that are relatively primitive in character. Although the balance of new long distance connections versus interior back country opportunities may not achieve the desires of all snowmobilers, it is consistent with the direction of snowmobiling on the Forest Preserve, where the emphasis is on providing trail connections that cross the Forest Preserve in lieu of trails that utilize the forest preserve as a destination for riding. These concepts are outlined in the 2006 Snowmobile Plan and the *Management Guidance*. New connecting routes should follow public highway corridors or be as peripheral to the unit as possible. The overall goal of this approach is to focus motor vehicle use in or near travel corridors while making interior portions of the unit more primitive in character.

Existing Trails and Trail Designations

Hollywood Road – This road (2.60 miles) provides a connection between the Leonard Pond parcel and the Seveys Easement, and connects to various secondary snowmobile trails. It will be managed consistent with CP-38, the Forest Preserve Roads policy.

Spruce Mountain Road – The snowmobile route uses just a short portion of the Spruce Mountain Road (0.65 miles), between the intersection with the Beech Hill Road (see below) north to the boundary of the Forest Preserve corridor along the South Branch of the Grass River. It will be managed consistent with CP-38, the Forest Preserve Roads policy.

Beech Hill Road – One segment of road (0.22 miles) through Forest Preserve provides a connection between the Spruce Mountain Road and the rest of the Beech Hill Road, which runs along the shared boundary of the Forest Preserve parcel and the CE. The latter section of the road is not counted as a Forest Preserve route since a portion of the road is on Forest Preserve and a portion on CE, and each landowner has the right to maintain and use the entire road if so desired, per the original deed for these land transactions. There is also a 0.8 mile segment at the south end of the road that is entirely on Forest Preserve, as the boundary follows the stream for a short distance.

Railroad Grade Road – This road (2.83 miles) is an old railroad bed which enters the Forest Preserve parcel near New Bridge and runs parallel to the river until exiting to the CE near the Clifton Mines. It provides a route connecting the communities of Degrasse and Cranberry Lake. It will be managed consistent with CP-38, the Forest Preserve Roads policy.

New Bridge Road – This short segment of road (0.07 miles) connects the Tooley Pond Road (a town road which the town has open to snowmobiles) to the Railroad Grade Road. It will be managed consistent with CP-38, the Forest Preserve Roads policy. Buckhorn Road – This road (0.35 miles) through Forest Preserve connects a detached parcel of the Grass River Conservation Easement located near SH 3 with privately owned forest lands to the north. Trails to the north and west connect to the hamlet of Cranberry Lake, the Tooley Pond Forest Preserve parcel, and the Grass River and Tooley Pond Conservation Easements. It will be managed consistent with CP-38, the Forest Preserve Roads policy.

Trail Closures

No snowmobile trails are proposed to be closed.

During winter logging operations on the easement lands, when the snowmobile trails may be closed for safety reasons, alternative routes will be explored with the St. Lawrence County Snowmobile Association and landowners.

Trail Construction

No snowmobile trails are proposed to be built on GRWF.

Before any portion of trail is constructed or rehabilitated, a detailed Snowmobile Trail Work Plan will be developed as per the *Management Guidance*. The final layout will utilize existing roads, trails and natural openings to the greatest extent possible. Wetland permits will be obtained from APA if required. It is possible that soil and grade conditions would make the trail suitable for the use of bicycles during the summer and fall months.

Projected Use and Potential Impacts

Potential environmental impacts of snowmobile trail use will be minimized through the application of best management practices during trail maintenance. Monitoring will be important to ensure that environmental degradation of the trail is minimized. If degradation were to occur, the Department would take appropriate mitigation actions, including increased maintenance activities, education and other management actions. The Department will work with local snowmobile clubs to monitor use and to coordinate maintenance activities using temporary revocable permits or Volunteer Stewardship Agreements.

Discussion of "No Material Increase"

The APSLMP requires that there be no "material increase in the mileage of roads and snowmobile trails open to motorized use by the public in wild forest areas that conformed to the APSLMP at the time of its original adoption in 1972." Further, the APSLMP states that "the mileage of snowmobile trails lost in the designation of wilderness, primitive and canoe areas may be replaced in wild forest areas with existing roads or abandoned wood roads as a basis of such new snowmobile trail construction, except in rare circumstances requiring the cutting of new trails" and that "wherever

feasible such replacement mileage should be located in the general area as where mileage is lost due to wilderness, primitive or canoe classification."

While the material increase provision applies to all wild forest areas on a Park-wide basis, efforts are made during the planning process for each unit to close unsuitable snowmobile trails to help compensate for new snowmobile trail mileage necessary for trail relocations or new community connector links where they may be determined to be possible and desirable. To determine what contribution proposals of this UMP would make to a "material increase" or decrease in trail mileage, it was necessary to document historic mileage in the unit and compare that mileage to the total mileage proposed in this plan.

Snowmobile Trail Grooming

Current snowmobile trail grooming is done under an existing Volunteer Stewardship Agreement (VSA) with the St. Lawrence County Snowmobile Association. DEC will continue to allow grooming by tracked groomers on trails designated as Class II trails community connector trails within the Grass River Wild Forest, and on routes that are Forest Preserve roads.

Snowmobile Trail Counter

The NYS Department of Transportation provided the St. Lawrence County Snowmobile Association with an acoustic sensor traffic counter which was located on one snowmobile trail on the Long Pond easement during the winter seasons 2009-2012 (see discussion of results on page 46, Section II.D.2.d). DOT has expressed their willingness to cooperate with us on additional snowmobile trail use monitoring, especially near intersections with public roads.

Objectives

- Provide for snowmobiling opportunities in the Grass River Wild Forest unit consistent with APSLMP criteria and guidelines.
- Connect the Grass River Wild Forest snowmobile trail system with the snowmobile trails in the conservation easement tracts and other adjacent private lands.
- Ensure that all snowmobile trails in the unit are being maintained.
- Connect the Grass River Wild Forest snowmobile trail system with trails in the communities of Degrasse, Star Lake, South Colton and Cranberry Lake, in the towns of Clare, Clifton, Colton, Fine, and Piercefield.

Management Actions

- Maintain the existing snowmobile trail system as a designated snowmobile trail system.
- Monitor grooming practices on all trails.
- Annually monitor use levels using trail counters.
- Develop trail logs detailing work needed on snowmobile trails.
- Submit work plans for each snowmobile trail requiring work, prior to any trail work taking place.
- Review all snowmobile routes being maintained by clubs under a VSA to be sure they are being maintaining in compliance with the agreements.

In March of 2008 the APA adopted a resolution which found that existing DEC policy, which places a limit on the total snowmobile trail mileage on all wild forest units in the Adirondack Park at 848.88 miles, is consistent with the APSLMP Wild Forest Basic Guideline #4. The resolution also outlined the format in which snowmobile trail mileage should be presented in UMP's to ensure continued compliance with Basic Guideline #4.

This Unit Management Plan

Base Snowmobile Trail Mileage (pre-UMP): 6.72 Proposed Closure Mileage: 0 Proposed New Trail Mileage: 0 Snowmobile Trail Mileage Post-UMP: 6.72

Table 7: Park-wide Trail Mileage:

1972 Mileage	Estimated Existing Mileage in All Wild Forest Units	Proposed Net Gain/(Loss) of Mileage in GRWF	New Total Estimated Mileage in All Wild Forest Units	Total Allowable Wild Forest Mileage* *Mileage beyond which would be considered a "material increase"
740	780.13	0	780.13	848.88

3. Trailheads (Informational Facilities)

Present Situation and Assumptions

A trailhead is defined as the starting or termination point of one or more designated trails at a point of entrance to State land which may contain some or all of the following: vehicle parking, trail signs, and peripheral registration structures (Van Valkenburg, 1987).

Trailheads make excellent locations for providing visitor information. It is important that trail users have access to information regarding trails to enhance their experience. If trail users are uncertain about trail location or direction, they may become disoriented, or they may create new trails that damage the environment. Trailhead registers also provide important information about visitor use to the DEC. Information is used to plan facility maintenance, measure use and effects, and locate users in case of an emergency.

Visitors receive their first impression of the Forest Preserve area that they are about to enter from the nature and condition of the trailhead and/or parking facility. To allow visitors to readily identify the many separate parcels of the Grass River Wild Forest unit as part of a single entity, and to provide complete information in a consistent format, trailhead designs should be standardized.

A trailhead classification system was adopted in 1986 to provide for consistency in their location and development. Class I trailheads are the most developed and are found at the main entrances to the backcountry. Class II and III trailheads are associated with lesser used trails with correspondingly less development.

An expanded trail register structure - type 2, or "Storey kiosk," originally designed by Mike Storey of the APA, has been developed by the Department. It contains a space on the side where the drop-down door contains a mounted trail register. There are also exposed panels for the posting of information, and rules and regulations, along with a map of the area. Installation of new trail registers shall follow this design, where space and the use or nature of the trail justifies this action.

The following information should be displayed at all DEC trailheads:

- Trail name
- Total trail mileage
- Total elevation
- DEC trail marker(s)

- DEC rules and regulations (restrictions)
- Leave No Trace (LNT) principles
- Trail Map
- DEC Emergency contact (Forest Ranger Dispatch) number

Objectives

- Provide trailhead facilities to protect resource values and to accommodate visitor needs.
- Indirectly manage interior use by balancing parking area capacities to interior visitor capacities.
- Provide trail registers, complete with maps, that clearly show trail routes and destinations available in the Grass River Wild Forest unit. Applicable rules and regulations and emergency numbers should be posted at these locations.
- Obtain better visitor use data by installing additional trail registers at known points of access.

Management Actions

- Inspect all trailheads on a regular basis. Maintain all trailhead informational facilities in a neat, litter free condition. Trail registers should be kept up and monitored regularly. Schedule routine maintenance of all trailheads and litter removal.
- Obtain more reliable visitor use data. Use infrared trail counters or other visitor use estimation methods to more accurately determine use within the unit.
- Develop a standardized method of collecting, compiling and reporting user data collected from trail register sheets.
- Install a trail register at the new foot trail to Church Pond.
- Install a trail register on the canoe carry trail on the Middle Branch parcel.

4. Trail Registers

Present Situation and Assumptions

DEC trail registers, whose original purpose was to help locate people who were lost, can also be used to provide important visitor use information. Trail registers enable the DEC to monitor visitor use for a particular location. These registers provide data on:

date of entry, type (day or overnight), party size, location, destination, amount and purpose of visit. However, many trail users do not sign registers, and register sheets are occasionally destroyed or lost through vandalism. Nevertheless, trailhead registrations can give an indication of relative use levels, particularly if they are calibrated with more accurate forms of use monitoring systems. Trail registers will be installed at all new facilities as they are constructed or acquired on the Grass River Wild Forest unit.

All registers in this unit are of the standard box type. The following locations all have these style registers which are in good condition: Tooley Pond, Tooley Pond Mountain, Sinclair Falls/Lake George Rd. and Lampson Falls. The trail register data can be found in Table 2.

Objectives

- Record public use numbers.
- Provide a list of users for search and rescue activities.

Management Actions

- Maintain all register boxes in the unit.
- Install trail registers on new facilities as they are constructed.

5. Gates/Barriers

Present Situation and Assumptions

Gates are employed at selected locations to curtail illegal motor vehicle use and/or to protect road and/or trail surfaces from use during inclement weather. Gates are painted bright yellow, marked with red **STOP** signs and have "barrier ahead" cautionary signs posted 150 feet on either side of the gate.

Metal pipe gates and rock barriers are typically used to stop or limit motor vehicle use in locations where such use is not permitted. Although gates and barriers provide a deterrent, they are often circumvented, especially by ATV's. Evidence of illegal use around gates and barriers is an indication that current management strategies need to be re-evaluated and new management actions proposed. Where closure is permanent, and does not involve use of a trail by snowmobiles, gates should be removed and replaced with large rock barriers.

Objectives

- Control access to roads closed to motor vehicle use.
- Protect road surfaces during mud seasons.

• Maintain all gates in working order with proper cautionary signage.

Management Actions

- Update all gates to current health and safety guidelines.
- Install a pipe gate on the access road near Gate 10 on the Tooley Pond Road.
- Install rock barriers on side roads leading to Leonard Pond.

6. Kiosks

Present Situation and Assumptions

Trail information can be disseminated in a wide variety of formats, including: maps and brochures. Providing information to users using informational kiosks not only enhances their enjoyment of the area but also educates them to guidelines, areas of interest, and other opportunities available within the unit. A new kiosk was constructed at Lampson Falls in 2007.

DEC kiosks are used to provide a wide variety of educational information at one location. Standard kiosks include a plexi-glass covered display board. Educational information includes: water supply, human waste, fire, litter, tree and vegetation cutting, and camping restrictions. The kiosks in the unit presently contain: DEC general rules and regulations, maps, and educational and emergency contact information, (877-457-5680).

Objectives

• Provide educational information, DEC rules and regulations and emergency contact information to users.

Management Actions

- Maintain all information kiosks in the unit.
- Install information kiosks as required at new facilities as they are constructed.

7. Primitive Tents Sites

Present Situation and Assumptions

Existing camping regulations require camping to be either at designated sites or undesignated locations that are at least 150 feet or more from road, trail or water (6 NYCRR S 190.3 (b)). The latter is referred to as the "150 foot rule". A primitive tent site, commonly referred to as a designated primitive tent site, is one identified by a DEC sign or yellow 4 ½ " diameter marker. Per the APSLMP, this primitive tent site provides

space for not more than three tents, designed to accommodate a maximum of eight people on a temporary or transient basis, and is located in a manner least intrusive to the environment.

Tent sites will be designated to direct campers to previously used disturbed areas, to define proper camp locations, to disperse use, and limit adverse impacts to resources and other campers. Steep shoreline, steep mountains, rocky outcrops, wetlands, poorly drained soils, etc., severely restrict camping and intensify the demand for available tent sites. The tent sites in the unit that were developed by the Department have been carefully developed to minimize soil erosion and disturbance to wildlife. Many of the sites were located close together due to these terrain constraints. This primitive tent site development method has caused tent sites in some instances to be developed in a manner that does not conform to the APSLMP regarding sight and sound separation distances.

Large camping groups require greater primitive tent site space and often clear areas to accommodate additional tents, store equipment, or make room to eat and congregate. Large groups cooking with wood fires generally consume greater amounts of fuel wood and extend firewood gathering areas. Impacts tend to be more spread out and extend well beyond primitive tent site boundaries. There are no restrictions limiting day use. Groups of any size may enter the Grass River Wild Forest unit. When staying overnight, stricter restrictions apply. This plan reflects APSLMP compliant group camping separation distances as well as sight and sound separation distance spacing on primitive tent sites as the norm. Sites which have been established through long-term repeated use were evaluated in terms of size, distance from trails and water sources, distance between sites, level of impact on vegetation and soils, amount of garbage present and human sanitation problems.

The APSLMP guidelines for primitive tent sites in wilderness areas, which are also relevant in wild forest areas (APSLMP, page 23) defines conforming primitive tent sites as meeting the following criteria:

Primitive tent sites below 3,500 feet in elevation that are out of sight and sound and generally one-quarter mile from any other primitive tent site or lean-to; where severe terrain constraints prevent the attainment of the guideline for a separation distance of generally one-quarter mile between primitive tent sites, individual unit management plans may provide, on a site-specific basis, for lesser separation distances, provided such sites remain out of sight and sound from each other, be consistent with the carrying capacity of the affected area and are generally not less than 500 feet from any other primitive tent site.

During the summer of 2008, primitive tent site impact assessments were conducted at the following locations within the Grass River unit: Harper's Falls, Lampson Falls, Leonard Pond, Stone Dam, and Tooley Pond. Primitive tent site monitoring was conducted to measure the conditions of the resources affected by recreational use, and to provide a consistent process for collecting baseline data. The designated primitive tent sites at Lampson Falls and Stone Dam were the most heavily impacted (condition class 4 or 5).

An analysis of existing camping locations and the separation distance between sites in the Grass River Wild Forest unit revealed that many individual sites were not in compliance with the guidelines set forth in the APSLMP.

Groups of 10 or more individuals up to a maximum of 20 people must obtain a camping permit prior to overnight use of NYS lands as required by DEC rules and regulations (6 NYCRR §190.4(e)). Under guidelines for management and use of wild forest areas (APSLMP, page40), the APSLMP additionally allows:

"Small groupings of primitive tent sites designed to accommodate a maximum of 20 people per grouping under group camping conditions may be provided at carefully selected locations in wild forest areas, even though each individual site may be within sight or sound and less than approximately one-quarter mile from any other site within such grouping, subject to the following criteria:

-- such groupings will only be established or maintained on a site specific basis in conformity with a duly adopted unit management plan for the wild forest area in question;

-- such groupings will be widely dispersed (generally a mile apart) and located in a manner that will blend with the surrounding environment and have a minimum impact on the wild forest character and natural resource quality of the area;

-- all new, reconstructed or relocated tent sites in such groupings will be set back a minimum of 100 feet from the mean high water mark of lakes, ponds, rivers and major streams and will be located so as to be reasonably screened from the water body to avoid intruding on the natural character of the shoreline and the public enjoyment and use thereof."

While the APSLMP accepts large camping groups of 9 to 20 people in wild forest areas, it is very specific about how carefully they should be accommodated "*per grouping under group camping conditions.*" Group sites will be a cluster of three primitive tent sites that will be available to groups with a group camping permit. Group camping permits will be issued by the Department for a specific "area" and for a specific time

period and restricted so as to limit the number of group camping permits to the number of group sites available in that area. The maximum group size for group sites which are designated along waterways will be 12 people; at any other group sites in wild forest areas, the group size may be up to 20 people, with no more than 8 people allowed in an individual tent site. At group camping locations along waterways after 5 PM, any unoccupied group site will become open to the public at large for that night or until a group with a group camping permit arrives, for no more than 3 consecutive nights. The use of this area will be closely monitored and, if user conflicts result, the Department may choose to designate the sites for use via permit only to alleviate user conflicts. Careful and limited development of designated group primitive tent sites is called for in the APSLMP since camping in large groups can cause significant degradation of an area's resources. This is reflected by the APSLMP guideline that states such group primitive tent sites "*will be widely dispersed… and have a minimum impact on the wild forest character and natural resource quality of the area.*"

Group primitive tent sites are to be provided only *"at carefully selected locations in wild forest areas"* and established or maintained only *"on a site specific basis in conformity with a duly adopted unit management plan."*

Camping is a non-motorized recreational use that is allowable and does do not require a permit in the designated River Areas. (6 NYCRR Part 666.13(J)) Compliance with the ASLMP in locating campsites will also protect the river areas while allowing public use and enjoyment of these areas.

The designating of primitive tent sites will conform to the following criteria:

- The primitive tent sites will be designed to accommodate a maximum of 8 people.
- Individual tent sites will be compliant with the APSLMP.

The designating of group camp sites will conform to the following criteria:

- The grouping will be designed to accommodate a maximum group size of 12 people along waterways and no more than 20 people in other areas.
- Individual tent sites within a group site do not have to be out of sight and sound and may be less than one-quarter mile apart from other sites in the grouping.
- The group sites will be more than one mile from any other designated group site.
- Impacts on natural resources will be minimized by locating new individual sites at least 100 feet from water and wetlands.

Objectives

- Manage visitor use to keep impacts on the resource and experiences of all visitors at an acceptable level consistent with the concept of Wild Forest as described by the APSLMP.
- Provide primitive and group camping locations where appropriate.
- Keep the effects of visitor use on resources to a minimum.
- Provide appropriate screening of tent sites from water bodies.
- Encourage both overnight and day users to keep parties small.
- Reduce, eliminate, or mitigate the adverse effects of camping on natural resources that result from improperly located primitive tent sites.
- Comply with the APSLMP primitive tent site standards to disperse use.
- Direct the public to designated camping locations by providing information in DEC publications and at area trailheads.

Management Actions

- All primitive tent sites within the unit will be monitored for damage due to overuse. Where overuse of these primitive tent sites is occurring, the least intrusive measures, such as user education and/or site remediation, will be implemented. If these are not successful in reducing user impacts, more stringent measures will be considered and appropriate management actions taken.
- Monitor primitive tent sites in popular areas annually. Survey locations where camping is believed to occur. Re-inventory primitive tent sites every five years.
- Remove nine of the thirteen primitive tent sites at Stone Dam. Designate three of the remaining sites as a group site, and leave open a fourth site, which is approximately 700 feet north of the proposed group site, as an individual tent site. Preliminary field work indicates that the group site and individual site are generally out of sight and sound from one another. A map of this area is found in the Appendix G.
- Remove three of the current five primitive tent sites at Lampson Falls. The two remaining sites will be over 1/4 mile from each other.
- Evaluate the need/demand for up to two additional primitive tent sites in the Lampson Falls area and consult with APA for placement.

- Designate any new primitive tent sites in the Grass River Wild Forest unit so that campers are directed to locations that can accommodate such use. The goal is to define proper primitive tent site locations, disperse use, and limit adverse impacts to resources and other users.
- Restore all closed primitive tent sites to a natural condition. Fire rings, tree stumps and other evidence of past use will be removed. Native seedlings may also be planted at disturbed primitive tent sites.
- Annual work plans shall incorporate primitive tent site maintenance and rehabilitation.

8. Signs

Present Situation and Assumptions

DEC signs indicate the locations of Forest Preserve lands, trails, and trailheads. In addition, DEC produces a variety of signs that give information about rules and regulations, educational information, directions and distances to destinations, and resource conditions to Forest Preserve visitors. These signs are posted at trailheads as well as interior locations. Currently, trailheads and much of the Grass River Wild Forest boundary are not well identified.

Most signage by the Department is authorized 9 NYCRRR Part 577.6 and 6 NYCRR Part 666.13(G)(1) and (3). Permits will be obtained where required.

Regular maintenance of DEC signs should be part of the sign plan for the unit. Signs are highly visible and their maintenance or lack of maintenance leaves the visitor with a positive or negative impression about the trail and the unit. Well-maintained signs convey a sense of pride and reduce vandalism while poorly maintained signs may contribute to a diminished visitor experience, including disorientation of trail users.

Poor signage of DEC facilities and public lands may be responsible for underutilization of Grass River Wild Forest unit recreational opportunities. Some trailheads are hard to find, even if one is looking for them. There is an opportunity to improve the recognition of the Grass River unit through better use of signage. To be sure that the public will be able to easily locate Forest Preserve lands and recreational facilities, the following guidelines will apply to the maintenance, design, erection, and management of DEC signs:

• All roadside directional signs, Forest Preserve unit signs, trailhead identification signs, and interior signs will be made of wood, and will be brown in color with yellow lettering.

- Standard DEC Forest Preserve boundary signs indicating the classification of the land being identified will be posted approximately every one-tenth mile along all highways that pass through or adjacent to Forest Preserve lands, and at other strategic locations.
- Maintain a record of all DEC signs, including location, type of sign, and photo.
- Inspect signs regularly, especially after each winter season, for weathering and visibility.
- Secure loose or tilting signs in an upright position.
- Clear vegetation from around signs to maintain visibility.
- Review signage content to ensure continued relevance and accuracy.
- All DEC signs removed through vandalism or other causes will be promptly replaced.

Designated trails will have the following:

- 1. Signs at each road crossing or major access point indicating:
 - Name of the Forest Preserve management unit, along with its classification.
 - Name of the trail.
 - Name of the trailhead or access point.
 - Name of, and distance in miles to, the named feature.
 - Activities permitted on the trail.
 - Sign with map of the complete trail, indicating adjacent attractions.
- 2. Barriers, e.g., posts, gates, or boulders at every trailhead to prevent and deter activities not permitted on that section of the trail.
- 3. At major trail access points:
 - Sign on highway indicating trail.
 - Off-road parking.
 - Sign with map of the complete trail, indicating adjacent attractions.

4. Adequate maintenance to enable safe and enjoyable use for the activities permitted. Trail will be posted as closed if conditions make the trail unsafe.

Objectives

- Display simple, effective and informative messages to the visiting public.
- Provide for the smallest number of signs to accomplish an educational, informational or regulatory objective.
- Sign for visitor safety, resource protection, and to inform the public about recreational opportunities.
- Maintain a consistent look to the Forest Preserve DEC signs should be standardized. Trail marking will be adequate to the trail classification system, and adhere to DEC trail marking standards. Provide for recognition of VSA and stewardship activities by placing signage on or near the adopted natural resource.
- Include universal symbols on signage and information kiosks to ensure that users are informed.
- Minimize regulatory signs at interior locations in favor of signs posted at trailheads or access points and published, where feasible, in brochures, maps or webpages, or otherwise made available to users prior to entry into the unit.

Management Actions

- Complete a comprehensive current sign inventory. Develop a sign plan for the Grass River unit. Evaluate the number of trail signs needed for: place names, mileage and direction.
- Update and maintain the sign inventory annually. Complete trail condition and use forms to document that all signs are in place and to report any vandalism.
- Remove illegal signs.
- Replace old, rotten and delaminating signs.
- Identify access points. New signs will be placed at area trailheads identifying
 recreational opportunities and rules and regulations. Forest Preserve boundary
 signs will be posted along roads, waterfronts, and boundary lines showing either
 the name of the unit, or wild forest classification. Large DEC unit signs will be
 placed along the main roads that travel through the larger portions of the Grass
 River unit.

- Install signs and mark trail to Church Pond from State Highway 56.
- Install signs and mark trails to waterfalls on Tooley Pond Road.
- Install Facility ID Signs for the Leonard Pond and Cranberry Pond parcels.

9. Bridges

Present Situation and Assumptions

Bridges may be built for resource protection, such as crossing swift rivers, and other places constituting a public safety hazard. Construct bridges to the minimum size needed to serve trail users, and design bridges to be as unobtrusive as possible to comport with APSLMP and, within river areas 6 NYCRR Part 666.13(E) note 3(iii). Bridges shall be built for resource protection, not user convenience. Within river areas, any new bridge over a designated river will be permitted as required by the applicable regulations for that Area.

Objectives

- Provide for safe crossings of streams, wetlands and rivers that do not impact the natural resources.
- The need for new bridges or other trail-hardening facilities will depend upon the allowed uses on the trail.
- Newly constructed snowmobile bridges will be of standard design using dimensional lumber or poles for stringers depending on total bridge length, pursuant to the June 8, 2006 Forest Preserve Snowmobile Bridge Project No.: 04-2151 design.
- Less obtrusive alternatives to bridges, such as culverts, fords and trail relocation, will be considered as an alternative.

Management Actions

- Conduct bridge inspections on a regular basis. These reports will document current problems, and the necessary maintenance will be scheduled as indicated by such inspections. A prioritized maintenance schedule will be based upon these inspections. All bridges that are deemed unsafe will be addressed as soon as possible.
- Remove from the site and dispose of properly, any unused material from new bridge construction and maintenance.

- Remove illegal user-constructed bridges that do not comply with DEC standards and specifications - specifically, the Stone Dam cable suspension bridge. It will be replaced with an APSLMP and Part 666 compliant bridge at the same location, as there are no good alternative locations.
- Construct bridges at other stream crossings associated with new trail proposals, where necessary. Consultation with APA will occur regarding the need for a wetland permit before any bridge project proceeds.

10. Lean-tos

Present Situation and Assumptions

Lean-tos are a traditional, quintessential feature of the Adirondacks. Prior to the advent of lightweight backpacking tents, lean-tos were constructed in many areas to provide shelter from inclement weather. These lean-tos were often built immediately adjacent to trails, and close to water sources. They were sometimes clustered in scenic areas to accommodate increased visitor demand, and to facilitate maintenance. Many lean-tos also featured fieldstone and concrete fireplaces, pit privies, and picnic tables.

At present, there are no lean-to facilities in the Grass River Wild Forest unit. The APSLMP recognizes lean-tos as conforming structures in Wild Forest units.

The APSLMP provides that any "new, reconstructed or relocated lean-tos" in Wild Forest areas will be set back a minimum of 100 feet from water, and have proper sight and sound separation distances from adjoining primitive tent sites or other lean-tos (APSLMP, page 36). 6 NYCRR Part 666.13 provides further restrictions on the siting and construction of lean-tos; however, no lean-tos are proposed within a Scenic River Area.

Objectives

- Provide new lean-tos that conform to the APSLMP guidelines.
- To construct new lean-tos, where appropriate, to assure a quality Adirondack camping experience for all users of the Grass River Wild Forest unit.
- All proposed lean-tos will be of uniform DEC design, based upon the standard plan for an Adirondack Lean-to or Open Camp, (Plan No. 184).
- To utilize volunteers and VSAs for maintenance assistance in lean-to construction.

• New, reconstructed or relocated lean-tos will be set back a minimum distance of 100 feet or more from water as required by the APSLMP. This same minimum setback will also apply to trails where feasible.

Management Actions

- Identify an appropriate site and construct a lean-to following APSLMP guidelines near Church Pond.
- Monitor camping activity near the proposed lean-to at Church Pond. To help insure a wild forest experience, control camping and enforce regulations to ensure that the maximum capacity of any lean-to shall not exceed eight persons. No additional primitive tent sites will be allowed adjacent to this lean-to.

11. Sanitation (Pit Privies)

Present Situation and Assumptions

Public cooperation with the "If you carry it in, carry it out" policy for litter removal has helped considerably with sanitation around Forest Preserve facilities, particularly primitive tent sites and lean-tos. However, litter remains a problem in some areas, e.g., trailhead parking facilities, popular primitive tent site and lean-to locations, and in fire rings. Broken glass and unburned refuse take much expense and time to clean-up and are a safety risk to Department staff and volunteers.

Improper waste disposal can affect the environment and the health and safety of wild forest visitors. Most overnight use is concentrated around lakes and streams. As use increases in these areas, proper sanitation becomes increasingly important. Users have the potential for contraction of giardiasis from consuming drinking water sources contaminated with the protozoan, *Giardia lamblia*. Improper disposal of human waste near water sources, coupled with high concentrations of users, compounds this problem. Soaps, shampoos, and other wastes also affect area waters.

To some extent, this problem has been alleviated in the unit's interior through the provision of pit privies at sites where users congregate. Proper human waste disposal is of critical importance in regularly visited sites. However, it is not uncommon to observe improperly disposed human waste within a few feet of any trail in the unit.

Proper human waste disposal is of critical importance in regularly visited places. The Department uses pit privies (outhouses) and box privies in areas where use levels are usually high and adequate dispersal of "catholes" - buried waste - is difficult. The APSLMP requires that all pit privies be located a minimum distance of 150 feet from water (APSLMP, page 23). Pit privies can be effective in minimizing health risks and water contamination if they are properly located and maintained.

There are two existing pit privies within the Grass River Wild Forest unit. At some popular locations, such as Lampson Falls, there is evidence of poor sanitary practices by the public.

The APSLMP requires that all pit privies be located a minimum distance of 150 feet from water. Pit privies are structures ancillary to recreational uses. Therefore, in river areas, they will be located outside the 100 year flood plain or 250 feet from the river (and its tributaries), whichever is greater. Properly sited and maintained within the Grass River Wild Forest unit, pit privies have been effective in minimizing health risks and water contamination. Chemical, vault and composting toilets have not been used in the unit, to date.

Objectives

- Prevent or mitigate the adverse effects of the improper disposal of refuse and human waste on the environment.
- Provide pit privies, chemical, vault or composting toilets at popular or sensitive locations.
- Provide a quality camping experience that balances user convenience/comfort with a back-country experience.
- Minimize litter in the Grass River Wild Forest unit.

Management Actions

- Inspect privies on a regular basis to insure they are kept in a safe and sanitary condition. Relocate as needed.
- Information and education efforts and "Leave-No-Trace" programs will stress proper treatment of drinking water and the need for proper human waste disposal.
- Provide signage at high-use areas directing visitors to pit privy locations.
- Provide a chemical, vault or composting toilet at the Lampson Falls site due to the high numbers of visitors to this site, meeting UA guidelines.
- Construct a pit privy at the proposed new lean-to location at Church Pond.

12. Parking Facilities

Present Situation and Assumptions

The Department provides two types of parking facilities: parking areas and pull-offs. Parking areas are designed and designated for parking with signs and established perimeters. The perimeter can be guard rails, boulders or natural features. Pull-offs are areas where the public can safely pull off the road to park. These areas are wide spots on the road or just off the road shoulder. Pull-offs are not formally designated or signed and are generally only suitable for a few vehicles.

While the Grass River Wild Forest unit has a fair amount of public highway road frontage, there are few places to safely park motor vehicles off the road shoulder to access State lands. Parking is even more restrictive along town and county roads in the winter due to deep snowfall and banked snow. In some popular locations, parking can be a problem particularly on weekends and holidays. When these areas reach their capacity, visitors often park on the roadsides, creating unsafe road conditions for passing motorists. In one location, at Twin Falls, the public currently uses private land to park vehicles to access the trail to the waterfalls.

Objectives

- Improve and maintain existing parking areas.
- The construction of new parking facilities is intended to provide parking while protecting the natural resources and is not intended to increase use of the facilities.
- Provide for safe, adequate parking where appropriate.
- Prohibit parking where necessary.
- Indirectly manage interior use by balancing parking lot size to interior visitor use capacities.
- Minimize resource degradation at parking areas. Design trailheads and parking areas to reflect allowed uses and the capacity of the resource to withstand use.
- Insure that all new or expanded parking facilities have accessible spaces, pursuant to ADA guidelines.
- Prevent illegal motor vehicle use.
- Mitigate parking problems in cooperation with affected parties.

• Provide for parking during winter months at locations accessible from plowed roads. Develop partnerships with local governments to maintain and snowplow roadside trailhead parking facilities.

Management Actions

- Obtain permits under 6 NYCRR Part 666.8 for water access parking areas as required by 6 NYCRR Part 666.13(j).
- Construct a four-car capacity Church Pond parking area along State Highway 56, and provide a trail register and information kiosk at this location, if a suitable location for the parking area is found.
- Investigate the feasibility of acquiring land for a five to six car parking facility for Twin Falls from the private landowners adjacent to the pool at the base of the falls. Alternatively, provide parking across the road.
- Provide pull-off parking facilities at the other waterfall sites on Tooley Pond Road,
 Basford Falls (three-car capacity); Sinclair Falls (three car capacity); Bulkhead Falls (three car capacity); Rainbow Falls (four car capacity); and Copper Rock Falls (four car capacity).
- Improve roadside pull-off parking facilities at the Cranberry Pond parcel along the White Road. Construct a three-car capacity parking area adjacent to the White Road.
- Construct a four-car capacity parking lot on the Leonard Pond parcel, approximately 100 yards from State Highway 56. Provide a trail register, information kiosk, and pit privy at this location. Use, especially in winter by snowmobilers, is heavy at this location.

13. Fishing and Waterway Access Sites

Present Situation and Assumptions

Current access to area waters is by use of three formal and several informal sites. Constructing formal fishing and waterway access sites will provide for safer managed access to those waters. Constructing many of these facilities to accessibility guidelines will help meet the Department's goal of providing recreational opportunities for people with disabilities.

A canoe-launch/hand-carry access site exists on Tooley Pond Road at Tooley Pond. The launch consists of a short, graded trail down to the pond, and an adjacent parking area large enough for five to six cars. The site also includes a picnic table, kiosk and trail register. This location provides public access to the pond for fishing, boating and canoeing.

There are currently two designated waterway access sites on the South Branch of the Grass River. One is off the Spruce Mountain Road where it crosses the South Branch, the other is just above Rainbow Falls, providing a trail exit from the river before it reaches Rainbow Falls.

The APSLMP defines a fishing and waterway access site as "a site for fishing or other water access with attendant parking facilities which does not contain a ramp for or otherwise permit the launching of trailered boats." The APSLMP differentiates a fishing and waterway access site from a boat launching site, which is defined as "a site providing for the launching of trailered boats, with ramp and attendant parking facilities".

The definition of Water Access Parking area under 6 NYCRR Part 666.3(nnn) includes both the parking area for ten or fewer cars and a trail which does not contain a ramp for hand launching of boats. The proposed fishing and waterway access sites will comport to this definition. Appropriate permits will be obtained under 6 NYCRR Part 666.13(j) prior to construction of such sites in River Areas.

Objectives

- To conform to 6 NYCRR Part 666 and APSLMP guidelines regarding fishing and waterway access sites.
- Protect potentially sensitive areas.
- Develop partnerships with local governments to maintain and snowplow appropriate fishing and waterway access sites parking facilities.

Management Actions

- Provide a portage canoe trail at New Bridge on the Tooley Pond parcel.
- Provide portages around falls and rapids where currently lacking and shoreline passage is difficult, such as at Rainbow Falls.

14. Historic Locations & Interpretation

Present Situation and Assumptions

Within the GRWF unit there are a few locations where historic features are readily accessible by road or trail.

A historic site as significant as the smelter furnace, associated with the Clarksboro community at Twin Falls, affords a variety of historical interpretive and educational

opportunities. This site was built around 1860 by the Clifton Mining Company. Ore was refined at the furnace at Twin Falls. This site is close to the Tooley Pond Road, and is easily accessible. The site consists of the stone and brick remains of the furnace, related hardware and other features which are visually interesting and informative. The iron industry played a significant role in regional and state history in the 19th century.

Objectives

- Identify and promote, where deemed appropriate: historic and archaeological sites.
- Enhance the public's knowledge about the GRWF unit's cultural and historic resources, specifically early 19th century Adirondack iron ore history.

Management Actions

- Construct a small bridge and interpretive loop trail to access the Twin Falls historic furnace site, as well as provide scenic opportunities near the falls.
- Construct a kiosk at the beginning of the trail and/or maintain a series (four to six) of small interpretative signs (made of natural materials) at this site. These signs will be as low key as possible to maintain the site setting, and the wild forest character of the land. They will be sited in the least visually intrusive manner possible.
- Construct a four-vehicle, roadside parking pull-off site at this interpretative trail.
- Remove, as found, illegal user-placed memorials or plaques.

15. Non-conforming Structures

Present Situation and Assumptions

There are several structures in the Grass River Wild Forest that are not considered conforming structures in Wild Forest, according to the APSLMP. Except for special circumstances, such as historical structures, plans need to be developed to remove them.

Objectives

- Identify all non-conforming structures on the unit.
- Where possible, and unless there is significant historic value, remove all nonconforming structures.

Management Actions

- Remove old, abandoned pumphouse on the South Branch of the Grass River.
- Remove concrete foundation (approximately 40' x 28') on the Middle Branch parcel.
- Remove cable suspension bridge on the Stone Dam parcel.
- Remove any other nonconforming structures located on the unit when such structures are found.

V. Schedule for Implementation and Estimated Budget

The following tables outline a schedule for implementation derived from management recommendations made in Section IV. Projected Use and Management Proposed, as well as their estimated costs. Accomplishments are contingent upon sufficient staffing levels and available funding. The estimated cost of implementing these projects is based on historical costs incurred by the Department for similar projects. Values for some projects are based on projected costs for service contracting. These cost estimates do not include capital expenditures for items such as equipment, nor do they include the value of program staff salaries.

Year 1 Action	Supplies Materials & Equipment	Personnel Service Person Days
Install 4 Area ID Signs	N/A	6
Improve signing on roads, trails	N/A	5
Construct foot trail to Church Pond	\$18,000	20
Remove 9 non-compliant tent sites at Stone	\$400	10
Dam	\$400	10
Remove 3 non-compliant tent sites at Lampson Falls	\$5,600	26
Paint, blaze, sign, boundary lines	\$15,000	6
Install road barriers at FP parcels	\$25,000	8
Remove cable suspension bridge at Stone Dam and replace with a APSLMP compliant bridge	\$18,000	24
Provide water-less, chemical, vault or composting toilet at Lampson Falls	N/A	3
Develop LAC indicators/standards	N/A	5
Conduct assessments of use and use impacts at Lampson Falls		

Total Year 1 costs for Maintenance and other Activities	\$82,400	123	
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Year 2 Action	Supplies Materials & Equipment	Personnel Service Person Days
Build new five-car parking area at Church Pond	\$15,000	20
Construct lean-to and pit privy at Church Pond	\$5,200	25
Install trail register and information kiosk trailhead at Church Pond	\$500	1
Designate, sign, and mark trails to waterfalls on Tooley Pond Road	\$1,000	16
Improve roadside pull-off parking on Tooley Pond Road.	\$20,000	36
Develop a bicycle trail connecting the old Grass River logging road at Lampson Falls to bicycle trails within the Downerville State Forest.	\$6,000	5
Paint, blaze, sign boundary lines	\$8,600 N/A	40 2
Conduct baseline site inventory of designated tent sites. Document location condition w/ GPS and photo's	N/A	2
Assist with inventory of the unit to determine the presence of invasive plant species. Solicit help from volunteers, when appropriate.	N/A	Undetermined
Once LAC indicators and standards have been developed, monitor to determine compliance. Take actions necessary to assure APSLMP compliance and to prevent standards from being exceeded.		
Total Year 2 costs for Maintenance and other Activities	\$56,300	147
Year 3 Action	Supplies Materials & Equipment	Personnel Service Person Days

Total Year 3 costs for Maintenance and other Activities	\$62,100	103
Install a pipe gate on the access road near Gate 10 on the Tooley Pond Road		
Rehabilitate portions of the Grass River Railroad Parcel as part of a non-motorized recreational connector trail	Undetermined	Undetermined
Improve roadside pull-off parking on the White Road – Cranberry Pond parcel	\$2,500	5
Paint, blaze, sign, boundary lines	\$2,500	5
Barricade with boulders side roads leading to Leonard Pond	\$2,000	4
interpretative trail	\$8,600	40
Construct bridge to access Twin Falls	\$1,000	2
Construct an interpretive loop trail with 4-6 historic interpretive signs at Twin Falls	\$1,000	5
Remove concrete foundation on the Middle Branch parcel	\$2,000	10
Remove old abandoned pumphouse - South Branch of the Grass River	\$2,500	5
rare species & critical habitats	\$10,000	20
Contract inventory of ecological communities,	\$30,000	2
Evaluate plan effectiveness to date - comprehensive review	N/A	5

Year 4 Action	Supplies Materials & Equipment	Personnel Service Person Days
Construct a parking lot on the Leonard Pond parcel, near State Highway 56. Provide a trail register, information kiosk, and pit privy at this	\$15,500	10
location.	\$15,000	10

Upgrade the southern branch of the Hollywood Road (0.9 mile)	\$1,500	5
Improve canoe carry trail on the Middle Branch parcel by constructing a boardwalk, and install a trail register.	\$1,000	5
Construct canoe carry trail & roadside pull-off parking at New Bridge on the Tooley Pond Road	N/A	3
parking at New Bhuge on the rooley rond Road	N/A	3
Develop a method for collecting use data across the unit	\$8,600	40
Develop an education and information program for the unit.		
Paint, blaze, sign boundary lines		
Total Year 4 costs for Maintenance and other Activities	\$41,600	76

Year 5 Action	Supplies Materials & Equipment	Personnel Service Person Days
Paint, blaze, sign boundary lines	\$8,600	40
Re-inventory baseline site inventory of all designated tent sites.	N/A	2
Investigate the feasibility of future trail proposals	N/A	5
Evaluate plan effectiveness to date, comprehensive review. Begin preparation for five year revision of UMP	N/A	5
Total Year 5 costs for Maintenance and other Activities	\$8,600	52

Supplies Materials & Equipment	Personnel Service Person Days
\$1,000	50
\$500	2
	Materials & Equipment \$1,000

Maintain existing Area ID Signs (4 – all new after plan implementation)	\$300	2
Trash pickup and disposal	\$700	N/A
Disposal fee for accessible privy	\$8,000	32
Maintain Parking Areas	\$150 annual	31
Maintain 84.30 miles of boundary line on a 5 yr. schedule-after needed surveys	N/A	10
Monitor for Limits of Acceptable Change	N/A	3
Update and maintain sign inventory	N/A	4
Conduct inventory of invasive species and perform needed control work	N/A	5
Coordinate and supervise volunteer projects (VSA, TRP's, YCC)	N/A	5
Administrative supervision, reporting, acquisition proposals etc.	\$1,200	8
Maintain designated primitive tent sites	N/A	5
Stock fish in unit waters	\$200	20
Maintain trails		
Total Year 5 costs for Maintenance and other Activities	\$12,050	177

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Acronyms

AANR	Adopt-a-Natural Resources Agreement
ADA	Americans with Disabilities Act
ADAAG	Americans with Disabilities Act Accessibility Guidelines
ADK	Adirondack Mountain Club
AFR	Assistant Forest Ranger
ALSC	Adirondack Lakes Survey Corporation
ANC	Acid neutralizing capacity
APA	Adirondack Park Agency
APIPP	Adirondack Park Invasive Plant Program
APLUDP	Adirondack Park Land Use Development Plan
APSLMP	Adirondack Park State Land Master Plan
ARTC	Adirondack Regional Tourism Council
ASRC	Atmospheric Science Research Center
ATV	All-Terrain Vehicle
BMP's	Best Management Practices
BBA	Breeding Bird Atlas
СН	County Highway
DEC	Department of Environmental Conservation
DEIS	Draft Environmental Impact Statement
DMU	Deer Management Unit
DOT	Department of Transportation
ECL	Environmental Conservation Law
ED/RR	Early Detection/Rapid Response
EIS	Environmental Impact Statement
ENB	Environmental Notice Bulletin
EPA	Environmental Protection Act of 1993
EQBA	Environmental Quality Bond Act
FEIS	Final Environmental Impact
FERC	Federal Energy Regulatory Commission
FPAC	Forest Preserve Advisory Committee
FR	Forest Ranger
GRMU	Grass River Management Unit
GRWF	Grass River Wild Forest
IMBA	International Bicycle Association
LAC	Limits of Acceptable Change

NiMo Niagara Mohawk Power Corp	
NPS National Park Service	
NYCRR New York Code of Rules and Regulations	
NYNHP New York Natural Heritage Program	
NYS New York State	
NYSM New York State Museum	
OPRHP Office of Parks, Recreation & Historic Preservatio	n
OSP Open Space Plan	
RM Reference Marker	
ROW Right-of-Way	
RRAC Raquette River Advisory Committee	
SCORP Statewide Comprehensive Outdoor Recreation PI	an
SEQR State Environmental Quality Review Act	
SH State Highway	
SUNY State University of New York	
UMP Unit Management Plan	
USDA United States Department of Agriculture	
USFS United States Forest Service	
USGS United States Geological Survey	
UTV Utility Task Vehicle	
VERP Visitor Experience and Resource Protection	
V&T Vehicle and Traffic Law	
VSA Volunteer Stewardship Agreement	
WS&RRA Wild, Scenic and Recreational Rivers Act	
WMU Wildlife Management Unit	

Appendix A: Breeding Bird Atlas

Common Name	Scientific Name	Breeding Status
American Bittern	Botaurus lentiginosus	Possible
American Black Duck	Anas rubripes	Confirmed
American Crow	Corvus brachrhynchos	Confirmed
American Goldfinch	Spinus tristis	Confirmed
American Redstart	Setophaga ruticilla	Confirmed
American Robin	Turdus migratorius	Confirmed
American Woodcock	Scolopax minor	Confirmed
Baltimore Oriole	Icterus galbula	Confirmed
Bank Swallow	Riparia riparia	Confirmed
Barred Owl	Strix varia	Possible
Belted Kingfisher	Megaceryle alcyon	Possible
Black-and-white Warbler	Mniotilta varia	Confirmed
Black-backed	Picoides arcticus	Possible
Woodpecker		
Black-billed Cuckoo	Coccyzus	Probable
	erythropthalmus	
Black-capped Chickadee	Poecile artricapillus	Confirmed
Black-throated Blue	Setophaga	Confirmed
Warbler	caerulescens	
Black-throated Green	Setophaga virens	Confirmed
Warbler		
Blackburnian Warbler	Setophaga fusca	Confirmed
Blue Jay	Cyanocitta cristata	Probable
Blue-headed Vireo	Vireo solitarius	Confirmed
Boreal Chickadee	Poecile hudsonicus	Possible
Broad-winged Hawk	Buteo platypterus	Possible
Brown Creeper	Certhia americana	Possible
Brown Thrasher	Toxostoma rufum	Possible
Brown-headed Cowbird	Molothrus ater	Probable
Canada Goose	Branta canadensis	Possible
Canada Warbler	Cordellina canadensis	Confirmed
Cedar Waxwing	Bombycilla cedrorum	Confirmed
Chestnut-sided Warbler	Setophaga	Confirmed
	pensylvanica	
Chimney Swift	Chaetura pelagica	Possible
Chipping Sparrow	Spizella passerina	Confirmed
Common Grackle	Quiscalus quiscula	Confirmed
Common Loon	Gavia immer	Confirmed
Common Merganser	Mergus merganser	Confirmed
Common Raven	Corvus corax	Possible
Common Yellowthroat	Geothlypis trichas	Confirmed

Dark-eyed Junco	Junco hyemalis	Confirmed
Downy Woodpecker	Picoides pubescens	Confirmed
Eastern Bluebird	Sialia sialis	Confirmed
Eastern Kingbird	Tyrannus tyrannus	Probable
Eastern Meadowlark	Sturnella magna	Possible
Eastern Phoebe	Sayornis phoebe	Confirmed
Eastern Screech-Owl	Megascops asio	Possible
Eastern Towhee	Pipilo erythrophthalmus	Possible
Eastern Wood-Pewee	Contopus virens	Confirmed
Common Name	Scientific Name	Breeding Status
European Starling	Sturnus vulgaris	Confirmed
Evening Grosbeak	Coccothraustes	Possible
	vespertinus	
Field Sparrow	Spizella pusilla	Possible
Golden-crowned Kinglet	Regulus satrapa	Confirmed
Gray Catbird	Dumetella carolinensis	Confirmed
Gray Jay	Perisoreus canadensis	Possible
Great Blue Heron	Ardea herodias	Possible
	Myiarchus crinitus	Confirmed
Great Crested Flycatcher	-	Confirmed
Hairy Woodpecker Hermit Thrush	Leuconotopicus villosus	Confirmed
	Catharus guttatus	
Hooded Merganser	Lophodytes cucullatus	Possible
Indigo Bunting	Passerina cyanea	Confirmed
Killdeer	Charadrius vociferous	Possible
Least Flycatcher	Empidonax minimus	Confirmed
Lincoln's Sparrow	Melospiza lincolnii	Confirmed
Magnolia Warbler	Setophaga magnolia	Confirmed
Mallard	Anas platyrhynchos	Confirmed
Mourning Dove	Zenaida macroura	Possible
Mourning Warbler	Geothlypis philadelphia	Confirmed
Nashville Warbler	Oreothlypis ruficapilla	Confirmed
Northern Flicker	Colaptes auratus	Probable
Northern Goshawk	Accipiter gentilis	Possible
Northern Parula	Setophaga americana	Confirmed
Northern Rough-winged	Stelgidopteryx	Possible
Swallow	serripennis	
Northern Waterthrush	Parkesia	Confirmed
	noveboracensis	
Olive-sided Flycatcher	Contopus cooperi	Possible
Osprey	Pandion haliaetus	Possible
Ovenbird	Seiurus aurocapilla	Confirmed
Palm Warbler	Setophaga palmarum	Confirmed
Philadelphia Vireo	Vireo philadelphicus	Confirmed
Pileated Woodpecker	Dryocopus pileatus	Possible
Pine Warbler	Setophaga pinus	Probable
Purple Finch	Haemorhous purpureus	Confirmed
		00.1111100

Red-breasted Nuthatch	Sitta canadensis	Probable
Red-eyed Vireo	Vireo olivaceus	Confirmed
Red-shouldered Hawk	Buteo lineatus	Possible
Red-tailed Hawk	Buteo jamaicensis	Possible
Red-winged Blackbird	Agelaius phoeniceus	Confirmed
Rock Pigeon	Columba livia	Confirmed
Rose-breasted Grosbeak	Pheucticus ludovicianus	Confirmed
Ruby-throated	Archilochus colubris	Confirmed
Hummingbird		
Ruffed Grouse	Bonasa umbellus	Confirmed
Savannah Sparrow	Passerculus sandwichensis	Possible
Scarlet Tanager	Piranga olivacea	Probable
Sharp-shinned Hawk	Accipiter striatus	Possible
Song Sparrow	Melospiza melodia	Confirmed
Spotted Sandpiper	Actitis macularius	Confirmed
Swainson's Thrush	Catharus ustulatus	Confirmed
Swamp Sparrow	Melospiza georgiana	Confirmed
Tennessee Warbler	Oreothlypis peregrina	Confirmed
Common Name	Scientific Name	Breeding Status
Tree Swallow	Tachycineta bicolor	Confirmed
Turkey Vulture	Cathartes aura	Possible
Veery	Catharus fuscescens	Confirmed
Vesper Sparrow	Pooecetes gramineus	Possible
Virginia Rail	Rallus limicola	Possible
Warbling Vireo	Vireo gilvus	Possible
Whip-poor-will	Caprimulgus vociferous	Possible
White-breasted Nuthatch	Sitta carolinensis	Confirmed
White-throated Sparrow	Zonotrichia albicollis	Confirmed
White-winged Crossbill	Loxia leucoptera	Confirmed
Wild Turkey	Meleagris gallopavo	Confirmed
Wilson's Snipe	Gallinago delicata	Confirmed
Winter Wren	Troglodytes hiemalis	Probable
Wood Duck	Aix sponsa	Confirmed
Wood Thrush	Hylocichla mustelina	Probable
Yellow Warbler	Setophaga petechia	Confirmed
Yellow-bellied	Empidonax flaviventris	Confirmed
Flycatcher		
Yellow-bellied	Sphyrapicus varius	Confirmed
Sapsucker		
Yellow-rumped Warbler	Setophaga coronata	Confirmed
	oolopina ga oolonata	
Yellow-throated Vireo	Vireo flavifrons	Possible

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Appendix B: New York State Herp List

Allegheny Dusky Salamander	Desmognathus ochrophaeus
Eastern Newt	Notophthalmus v. viridescens
Jefferson Salamander Complex	Ambystoma jeffersonianum x laterale*
Northern Dusky Salamander	Desmognathus fuscus
Northern Redback Salamander	Plethodon cinereus
Northern Spring Salamander	Gyrinophilus p. porphyriticus
Northern Two-lined Salamander	Eurycea bislineata
Spotted Salamander	Ambystoma maculatum
Bullfrog	Lithobates catesbeiana
Eastern American Toad	Anaxyrus a. americanus
Gray Treefrog	Hyla versicolor
Green Frog	Lithobates clamitans melanota
Mink Frog	Lithobates septentrionalis
Northern Leopard Frog	Lithobates pipiens
Northern Spring Peeper	Pseudacris c. crucifer
Pickerel Frog	Lithobates palustris
Wood Frog	Lithobates sylvaticus
Common Snapping Turtle	Chelydra s. serpentina
Painted Turtle	Chrysemys picta
Wood Turtle	Glyptemys insculpta
Common Garter Snake	Thamnophis sirtalis
Eastern Milk Snake	Lampropeltis triangulum
Northern Red Belly Snake	Storeria occipitomaculata
Northern Ringneck Snake	Diadophis punctatus edwardsii
Smooth Green Snake	Opheodrys vernalis

*Special Concern Species - any native species for which a welfare concern or risk of endangerment has been documented in New York State.

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Appendix C: Mammals

The Grass River Wild Forest Unit contains potential habitat for 39 species of mammals:

Mammals	Scientific Name	Status
Big Game:		
Black Bear	Ursus amercanus	PGR
Moose	Alces alces	PGTr
White Tailed Deer	Odocoileus virginanus	PGR
Furbearers:	Ũ	
Beaver	Castor canadensis	PGR
Bobcat	Lynx rufus	PGR
Eastern Coyote	Čanis latrans	PGR
Ermine	Mustela erminea	PGOc
Fisher	Martes pennanti	PGR
Gray Fox	Urocyon	PGOc
-	cinereoargenteus	
Long-tailed Weasel	Mustela frenata	PGOc
Marten	Martes americana	PGOc
Mink	Mustela vision	PGR
Muskrat	Ondatra zibethicus	PGR
Raccoon	Procyon lotor	PGR
River Otter	Lontra canadensis	PGR
Striped Skunk	Mephitis mephitis	PGOc
Virginia Opossum	Didelphis virginiana	PGOc
Small Game:		
Varying Hare	Lepus americanus	PGR
Woodchuck	Marmota monax	UnUnOc
Other:		
Chipmunk	Tamias striatus	UnUnR
Deer Mouse	Peromyscus maniculatus	UnUnR
Hairy-tailed Mole	Parascalops breweri	UnUnR
Little Brown Bat	Myotis lucifigus	UnUnR
Masked Shrew	Sorex cinereus	UnUnR
Meadow Jumping	Zapus hudsonius	UnUnR
Mouse		
Meadow Vole	Microtus pennsylvanicus	UnUnR
Northern Bog Lemming	Synaptomys borealis	UnUnR
Northern Flying	Glaucomys sabrinus	UnUnR
Squirrel		
Pygmy Shrew	Sorex hoyi	UnUnR
Porcupine	Erethizon dorsatum	UnUnR
Red Squirrel	Tamiasciurus hudsonius	UnUnR
Rock Vole	Microtus chrotorrhinus	UnUnR

Short-tailed Shrew	Blarina brevicauda	UnUnR
Smokey Shrew	Sorex fumeus	UnUnR
Southern Bog Lemming	Synaptomys cooperi	UnUnR
Southern Red-backed Vole	Myodes gapperi	UnUnR
Water Shrew	Sorex palustris	UnUnR
White-footed Mouse	Peromyscus leucopus	UnUnR
Woodland Jumping Mouse	Napaeozapus insignis	UnUnR

Un -Unprotected G -Game R -Resident Tr -Transient Oc -Occasional P – Protected

Appendix D: Comprehensive Fish Species List

Name	Genus	Species
American Eel	Anguilla	rostrata
Banded Killifish	Fundulus	diaphanus
Blacknose Dace	Rhinichthys	atratulus
Bluegill**	Lepomis	macrochirus
Brassy Minnow**	Hybognathus	hankinsoni
Brook Trout	Salvelinus	fontinalis
Brown Bullhead	Ameiurus	nebulosus
Brown Trout	Salmo	trutta
Cisco or Lake Herring	Coregonus	artedi
Common Shiner	Luxilus	cornutus
Central Mudminnow	Umbra	limi
Creek Chub	Semotilus	atromaculatus
Cutlips Minnow	Exoglossum	maxillingua
Fallfish	Semotilus	corporalis
Fantail Darter	Etheostoma	flabellare
Fathead Minnow**	Pimephales	promelas
Finescale Dace**	Phoxinus	neogaeus
Golden Shiner	Notemigonus	crysoleucas
Johnny Darter**	Etheostoma	nigrum
Lake Chub**	Couesius	plumbeus
Largemouth Bass	Micropterus	salmoides
Longnose Dace	Rhinichthys	cataractae
Northern Pike	Esox	lucius
Northern Redbelly Dace	Phoxinus	eos
Pearl Dace	Margariscus	margarita
Pumpkinseed	Lepomis	gibbosus
Rainbow Trout	Oncorhynchus	mykiss
Rock Bass	Ambloplites	rupestris
Slimy Sculpin**	Cottus	cognatus
Smallmouth Bass	Micropterus	dolomieu
Sockeye Salmon	Oncorhynchus	nerka
Splake	Salvelinus	fontinalis x namaycush
Tessellated Darter	Etheostoma	olmstedi
Walleye	Sander	vitreus
White Sucker	Catostomus	commersonii
Yellow Perch	Perca	flavescens

Sources: New York State Bureau of Fisheries Database, ALSC. Note: ** denotes species which appear only in historical New York State DEC data sets prior to 1984.

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Appendix E: Butterfly Species List

Butterfly Counts for the Tooley Pond Area

Charles R. Smith

Department of Natural Resources

Cornell University, Ithaca, NY

The area surveyed is a circle of 7.5 mile radius, centered at the point where Tooley Pond Road crosses the South Branch Grass River, Newbridge, St. Lawrence County, NY (latitude 44° 17' North, longitude 74° 58' West). These counts follow procedures established by the North American Butterfly Association

(http://www.naba.org/counts.html). English and scientific names and the sequence of names follow the *Checklist of North American Butterflies*, 2nd edition (2001), published by the North American Butterfly Association. All counts conducted by Charles R. Smith, Department of Natural Resources, Cornell University, Ithaca, NY. A total of 37 species are listed here.

English Name	Scientific Name	July 2, 2000	July 24, 2001	July 3, 2005	July 3, 2006
Black Swallowtail	Papilio polyxenes		1		
Eastern Tiger Swallowtail	Papilio glaucus	2	42	4	8
Cabbage White	Pieris rapae		1	9	3
Clouded Sulphur	Colias philodice		31	2	
Orange Sulphur	Colias eurytheme			1	
Pink-edged Sulphur	Colias interior		1		
American Copper	Lycaena phlaeas	1			
Coral Hairstreak	Satyrium liparops			20	6
Summer Spring Azure	Celastrina ladon neglecta		1	2	2
Great Spangled Fritillary	Speyeria cybele		14	92	11
Aphrodite Fritillary	Speyeria aphrodite		4	5	14
Atlantis Fritillary	Speyeria atlantis	15		6	13
Harris' Checkerspot	Chlosyne harrisii	14			
Pearl Crescent	Phyciodes tharos		1	9	10

		-			
Baltimore Checkerspot	Euphydryas phaeton		1	5	1
Eastern Comma	Polygonia comma				2
Gray Comma	Polygonia progne			2	3
Mourning Cloak	Nymphalis antiopa	5	1		
American Lady	Vanessa virginiensis		5	2	
Painted Lady	Vanessa cardui		1		
Red Admiral	Vanessa atalanta		16	3	1
White Admiral	Limenitis arthemis	49	1	48	102
Northern Pearly- Eye	Enodia anthedon	75	2	6	15
Eyed Brown	Satyrodes eurydice	10	3	5	3
Common Ringlet	Coenonympha tullia	2		2	
Common Wood- Nymph	Cercyonis pegala		4		
Monarch	Danaus plexippus	4	44	6	9
Silver-spotted Skipper	Epargyreus clarus		1		
Artic Skipper	Carterocephalus palaemon	1			
Least Skipper	Ancyloxypha numitor			8	
European Skipper	Thymelicus lineola	30	1	66	2
Peck's Skipper	Polites peckius		5	4	5
Tawny-edged	Polites themistocles			6	
Skipper					
Long Dash	Polites mystic	3		8	2
Delaware Skipper	Anatrytone logan				9
Hobomok Skipper	Poanes hobomok	11			
Dun Skipper	Euphyes vestris	4	13	10	3
Total Individuals		229	203	345	226
Total Species		17	25	26	22

Appendix F: Public Comment Summary and Responses

Comments on the 2016 Draft UMP

The following is a summary of the public comments that were received during the creation of the draft Grass River Wild Forest Unit Management Plan. A public scoping meeting was held February 26, 2003 at the Colton – Pierrepont High School. Approximately 50 people attended the initial scoping meeting.

A public draft meeting was held October 3, 2016, at the Colton – Pierrepont High School. Approximately 90 people attended the meeting. A total of 56 unique comments were received at the public meetings, as well as through letters, phone calls, emails, and face to face meetings with contributors. Some comments have been paraphrased to provide a consistent format, or to summarize similar comments from several contributors. **Comments** are in bold text, with *DEC responses* in italics.

General Comments

1. A letter dated 10/27/2016 was received from the St. Lawrence County Board of Legislators, requesting a one month extension of the comment period for the draft Grass River Wild Forest Unit Management Plan (UMP), and the draft Grass River and Long Pond Conservation Easement Recreation Management Plans (RMP).

Response: A one month extension of the comment period was granted, with an ending date of 12/14/2016. The Long Pond Conservation Easement Interim Recreation Plan is not currently being amended.

2. St. Lawrence County should have been included in more outreach during the development of the plan and listed as a partner with the DEC in the final development of the Plan(s).

Response: The Department has regularly sought and incorporated input from St. Lawrence County and other stakeholders in the development of these plans. St. Lawrence County has been added to the list of contributors to this plan.

<u>Wildlife</u>

1. The section of the South Branch of the Grass River upstream of the Lake George Road should be returned to a restricted catch and release, artificial only

lure area for brook trout fishing. Otherwise, it is likely that this stretch of river will be over-fished and the current great fishery will deteriorate.

Response: A survey of the mentioned section of the South Branch of the Grass River was last completed in 2006 and was found to have a robust wild brook trout population. In 2008 the regulation was changed to allow harvest based on survey data. The Bureau of Fisheries strives to maintain a balance in protecting our brook trout resources while allowing regulated harvest. Since the comment mentions the "current great fishery" we conclude that in the eight years that harvest has been allowed, excessive exploitation has not been an issue. The Fisheries Manager is always open to suggestions on regulation changes and modifications. Consideration for changes will depend on combination of biological data and public input.

2. Don't stock as many rainbow and brown trout. Maintain and restore the brook trout population.

Response: The Bureau of Fisheries takes great pride in our state fish and strives to maintain brook trout populations where feasible. However, due to long term changes in land use and habitat quality it is often not possible to maintain brook trout in their traditional waters. Brown trout have a wider tolerance range to water quality parameters such as turbidity and temperature, which is why they are often chosen over brook trout in waters where habitat has changed enough to render brook trout management impractical.

3. I propose managing portions of the forest as early successional forest to promote ruffed grouse, golden winged warbler, and other bird populations that require that type of habitat. As forests age, early successional forest habitat decreases, limiting the habitat for these species.

Response: There are limited opportunities for management of Forest Preserve for early successional bird species. Creation of early successional forest habitat usually requires extensive tree cutting, which is prohibited on Forest Preserve land by Article XIV, Section 1 of the New York State Constitution. However, there is potential for such management on nearby private land enrolled in the Conservation Easement program.

4. Trappers have concerns with the designation of new trails near streams and waterbodies. Body gripping traps are restricted within 100' of trails. If a trail is routed along a nice stream or a certain terrain feature it could negate access to the best trap set locations on an entire parcel. A DEC biologist who traps should be involved in the routing of any new trails to avoid this issue.

Response: Few of the proposed or existing trails in this unit parallel streams or rivers within 100' for long distances. Impacts of new trails on trapping opportunities will be minimal.

5. Several scientific studies have shown that snowmobiles have minimal effects on white tailed deer, as well as other large mammals such as elk, bison, and moose.

Response: Snowmobiles may have different effects on mammals, birds, and other wildlife. They may also impact other forest users, such as non-motorized recreationists.

6. Habitat for Spruce Grouse should be encouraged.

Response: There are currently no known populations of Spruce Grouse on Forest Preserve land in this unit. Spruce-fir forests hold the most potential for future Spruce Grouse habitat, and encouraging this forest type may require tree cutting. Significant tree cutting is prohibited on Forest Preserve land by Article XIV, Section 1 of the New York State Constitution. However, there is potential for such management on nearby private land enrolled in the Conservation Easement program.

7. Increasing opportunities for human visitors can be a threat to the resource. Field biological research shows that human incursions into wild lands for any type of recreational use has an impact on wildlife. Some animal populations decline while others (such as invasive species) rise, and feeding, sleeping, and movement patterns of resident creatures are altered. Roads are notorious for causing these changes, yet hikers and skiers on trails have an impact too. You acknowledge that your primary objective is to maintain the diversity and resilience of this complex region. You will be under pressure to "open it up" more, but you should resist this pressure unless a change is warranted and tolerable.

Response: Most of the trails proposed for adoption in this plan are currently well used by the public. Formally signing and maintaining these trails is expected to result in no net change to impacts on wildlife. Roads which will be opened to the public are used extensively by adjacent private landowners to access their properties. The total usage of roads and trails in this unit is not expected to increase significantly from current levels.

Recreation - General

1. We hope that every effort will be made to maximize the recreational opportunities on this land for all types of public use including bicycles, cross country skiing, snowmobiling, hiking, paddling, etc.

Response: The goal of this plan is to improve recreational opportunities on this unit while still protecting natural communities and wildlife.

2. The section of the South Branch of the Grass River along the Tooley Pond Road is one of the best whitewater runs in the State of New York and even in the entire northeastern US.

Response: Improved access along the South Branch of the Grass River is proposed in both the Grass River Wild Forest UMP and Grass River Conservation Easement RMP. Recreational use of the river for paddling and kayaking will be encouraged.

3. New York State should look into acquiring public access to the South Branch of the Grass River, between the bridge on State Route 3 and the Tooley Pond tract. The take out for this canoe route would be below Deerlick Rapids, at the Spruce Mountain Road.

Response: The Department pursues additional access opportunities for the public as they become available. Land is only purchased from willing sellers, and when Environmental Protection Funds are used, it is purchased only when the municipality approves it. The Department has also significantly increased its use of easements to allow public access where they are feasible.

4. There are many recreational opportunities available along the North Branch of the Grass River.

Response: The Department agrees that there are many opportunities for paddling and fishing along the North Branch of the Grass River. A new parking area, hiking trail, and river access point are proposed on the Cranberry Pond Forest Preserve parcel, and the adjacent Grass River Conservation Easement.

5. For roads that will be opened for public access, when will public access be allowed and when will gates be closed?

Response: Forest Preserve roads will be open most of the year, except during spring mud season. Generally, roads are gated from approximately March 1st to May 1st depending on weather conditions, to prevent rutting during the spring thaw.

6. Every parcel of state DEC land should be open for all types of recreation: hiking, horseback riding, ATV / UTV use, skiing, and snowmobiling. As a tax payer of New York State, I feel it's my right to legally use these properties for the recreation of my choice.

Response: Unregulated recreational use on state land is not sustainable. Recreational improvements such as trails and river access points have been proposed where they can be accommodated without damage to natural resources. Additionally, uses need to comply with existing laws, regulations, and policies.

7. What are the plans for the former Grass River Railroad parcel, which connects State Route 3 to the Silver Lake Conservation Easement? The former railroad bed might make a good snowmobile / mountain bike trail that would connect Cranberry Lake to parcels to the east on the former Yorkshire [Conifer – Emporium] easement.

Response: This parcel does hold potential for a recreational corridor. However, it would require a major effort and cost to rehabilitate the entire trail to make it useable. The former bridge across the South Branch of the Grass River (approximately 50' span) is missing and would need to be replaced. There are also several large culverts which have collapsed. Other nearby roads and trails could be used to bypass the worst sections of the former railroad bed, while still utilizing the eastern section which is in reasonably good condition. A section has been added to this plan covering the Grass River RR Forest Preserve lands, including a proposal for making it a non-motorized recreational trail, where it is not already improved to road standards.

8. We support 4 proposed mountain bike / hiking trails leading from the Lampson Falls / Harpers Falls parcel west onto Downerville State Forest.

Response: The UMP proposes 2 new mountain bike trails which would connect the Lampson Falls parcel to the adjacent Downerville State Forest. Additionally, the River Trail connecting Harpers Falls to Downerville State Forest would be opened to mountain bike use.

9. I support the proposed trail and lean-to on the Church Pond parcel. A trail from the west would be better than one from the east, due to wetlands.

10. The Church Pond parcel is relatively remote and undisturbed and should have minimal access.

Response for comments 9 & 10: The proposed trail and lean-to at Church Pond will provide access to this parcel while still leaving it in a primitive state. A trail accessing Church Pond from the west would potentially be drier, but does not currently have public motor vehicle access to a potential trailhead.

11. Most of the usage in this unit is along the Tooley Pond Road and at Lampson Falls. Approximately 5,000 people sign the Lampson Falls trail register each year, but the actual usage is closer to 10,000. Lampson Falls is seeing degradation due to overuse.

Response: The UMP proposes monitoring usage at Lampson Falls, and improving campsites and facilities to accommodate usage. Continued degradation due to overuse may require relocation or closing of affected facilities.

12. Sled dog teams travel 600 miles per week on snowmobile trails for training. Sled dog use of trails in this area should be acknowledged in the plan.

Response: Sled dog usage of snowmobile trails has been acknowledged and added to the plan.

13. The Forest Preserve parcels should have horse access.

Response: Forest Preserve roads in this unit are open for horse use, as well as nearby Conservation Easements. Horse riding opportunities also exist nearby on Whippoorwill Corners State Forest in the town of Russell, and Aldrich Pond Wild Forest in the town of Pitcairn.

14. Consider installing trailhead signs for the waterfalls along the Tooley Pond Road, and performing additional trail work at Copper Rock Falls.

Response: Improved signage and trail maintenance are proposed for the trail to Copper Rock Falls and other existing trails on the Tooley Pond Forest Preserve parcel.

15. Opening existing gates will improve rides for bicyclists.

Response: 6NYCRR §196.7(e) provides that the use of bicycles is permitted on all roads and trails on Adirondack forest preserve wild forest areas except for those roads and trails posted as closed to bicycle operation. Additionally, 2 new trails are proposed which would connect the Lampson Falls parcel to Downerville State Forest.

16. Kiosks with maps will assist newcomers. Kiosks should include historical information, too, so that visitors discover that these lands have been heavily used in various ways but have recovered much of their wild character.

17. I support the proposed interpretative trail at Twin Falls.

Response for comments 16 & 17: New and improved kiosks are proposed throughout the unit. The historical importance of past activities on these properties will be noted where appropriate.

18. We support replacement of the bridge on the Stone Dam parcel, which would improve access to the northern portion of the parcel.

Response: The UMP proposes replacing the existing cable bridge on the Stone Dam Parcel with an Adirondack Park State Land Management Plan (APSLMP) compliant bridge.

19. There are several old roads / trails leading to Leonard Pond, which are proposed to be barricaded. This should be done sooner to prevent further degradation of these trails.

Response: Roads and trails which are proposed for closure will be barricaded or gated after adoption of the final UMP.

20. Equitable access for all recreational stakeholder groups is critical.

Response: This plan provides improved recreational opportunities for a wide variety of both motorized and non-motorized recreational users.

21. The Plan(s) do not fully address the social, historical, and economic drivers of the management area, including the sportsmen's camps and the recreational use of snowmobiles, which dates back further than most people alive today.

Response: A full social, historical and economic analysis of recreational usage in the unit is beyond the scope of a Unit Management Plan.

22. Local businesses benefit greatly from recreational activities which occur on these properties.

Response: Economic impacts of recreation are recognized by the Department.

<u>Snowmobiling</u>

1. Snowmobile trails that go through state land should be able to accommodate an 8 foot wide drag for grooming.

Response: The trails in this unit utilize existing roads as snowmobile trails, which can accommodate an 8 foot wide drag for grooming.

2. I am completely against any rules or limitations involving closing of snowmobile trails without the consent of the local snowmobile clubs and/or the New York State Snowmobile Association. It is in the best interest of all people to enjoy these public lands without restrictions from special interest groups that most likely would never set foot on this area.

Response: The UMP does not propose closing any snowmobile trails on Forest Preserve land in this unit.

3. Snowmobile trails on state lands that are used to connect to other snowmobile trails should remain open. The DEC should consider closing snowmobile trails that are seldom if ever used by snowmobile traffic, after consultation with local clubs. The mileage from closed trails could then be used elsewhere within the Adirondack Park to benefit the overall snowmobile trail network.

Response: Each snowmobile trail within the unit was evaluated along these principles. This unit contains no snowmobile routes on Forest Preserve trails, only routes on Forest Preserve roads, all of which are proposed to remain open in their current form.

4. We would like to have snowmobile access to Lampson Falls.

5. I strongly disagree with snowmobile access to Lampson Falls. The trail to the falls is heavily used in winter by snowshoers, skiers, and walkers, and snowmobile use could present potential accident risks, as well as "noise pollution" in this easily accessible area.

Response for comments 4 & 5: The trail accessing Lampson Falls from County Route 27 is heavily used by non-motorized recreational users throughout the year. Opening this 0.5 mile section of trail to snowmobiles would result in unacceptable safety risks to non-motorized users including hikers, snowshoers, and cross country skiers. Snowmobile use will remain on existing roads where motorized recreation is the primary winter usage.

6. Motor Vehicle Access Corridors should be designated as "seasonal", and roads that are used as snowmobile routes should be closed to vehicles during the winter months.

Response: Seasonal Forest Preserve roads are left unplowed whenever possible. However, many of the roads in this unit serve as deeded rights-of-way for adjacent private landowners to access their property, and therefore can't be entirely shut down to motor vehicles. The Department works with landowners to provide alternative routes as much as possible when a road that is normally a snowmobile route has to be plowed.

7. Snowmobiles are designed for travel on snow. We do not support reduced speed limits on motor vehicle roads used as snowmobile routes.

Response: The speed limit for snowmobiles on Forest Preserve roads signed as snowmobile trails is 55 miles per hour, which is consistent with other areas.

8. Alternate snowmobile routes should be provided when currently designated snowmobile routes are closed due to winter logging operations.

Response: Alternate snowmobile trails to avoid logging are provided whenever feasible.

9. Add missing snowmobile trails to the UMP maps.

Response: Snowmobile routes / trails on adjacent lands that link to routes on Forest Preserve lands have been added to facility maps where appropriate.

10. We request that better trail signage be used on State Land snowmobile trails for improved safety. The New York State Office of Parks, Recreation and Historic Preservation Snowmobile Trail Signing Handbook could be used as a guideline.

Response: Signing of snowmobile trails on Forest Preserve should be conducted according to the OPRHP Trail Signing Handbook (page 21 of the handbook) and the

current Volunteer Stewardship Agreement between the Department and the St. Lawrence County Snowmobile Association.

11. Outline and map the proposed helipad evacuation locations nearest the snowmobile routes.

Response: There are no proposed helipad evacuation locations on Forest Preserve land within this unit. Sites which would likely be used include timber sale landings on private land, or parking areas along public highways.

12. It is time to eliminate the reference to snowmobile trails having "essentially the character of a footpath." I feel New York State should allow all trails to be a minimum of 10-12' wide. This will accommodate a Class I groomer.

Response: The APSLMP defines a snowmobile trail as "A marked trail of essentially the same character of a foot trail designated by the Department of Environmental Conservation on which, when covered by snow and ice, snowmobiles are allowed to travel and which may double as a foot trail at other times of year." The DEC must abide by that description of a snowmobile trail on Forest Preserve lands. Currently, our snowmobile trails are classified as either Class I trails (secondary trails), which can be a maximum of 8 feet wide, or Class II (Community Connector) trails, which can be 9 feet wide.

13. St. Lawrence County and the St. Lawrence County Snowmobile Association request that the DEC include them for input in the planning stages of management plans in St. Lawrence County.

Response: Input from St. Lawrence County, the snowmobiling community and other stakeholders has been sought throughout the development of this plan.

Roads and Motor Vehicles

1. Roads produce the most deleterious effects to wildlife. The draft UMP states on page 87 that one of the principles providing guidance for managing the Grass River Wild Forest is that "Public use of motor vehicles will not be encouraged". Some of the road proposals in the UMP and Recreation Management Plans should be reconsidered.

Response: The Forest Preserve parcels in this unit have a small network of DEC maintained roads, many of which serve as deeded rights-of-way for adjacent private landowners. The UMP proposes to open many of these roads to public use, in particular to provide public access to adjacent Conservation Easement lands.

2. The proposed motor vehicle access on 10-10-00 road south from the Lake George Road gate is currently a snowmobile route and as such has a fairly low impact. There is no pressing reason to open this to other motor vehicles.

Opening will greatly increase impacts. It is redundant with the Tooley Pond Road on the other side of the Grass River. While it shouldn't be opened, if it is opened, there should be a locked gate at the proposed parking area at the southern end.

Response: This road is located primarily on the Tooley Pond Conservation Easement. It provides access to a large section of Forest Preserve along the South Branch of the Grass River, as well as nearby Conservation Easement land. The road will be gated at the parking area located at the boundary of Forest Preserve and Conservation Easement land.

3. The Railroad Grade Road and the 10-04-04, 10-05-00, and 10-06-00 roads lie wholly or in part in Wild Forest and as such should not be opened to motor vehicle use without good reason. As currently proposed, there is no reason to open the 10-04-04 road, so it should not be opened. The Railroad Grade Road west of the intersection with the 10-05-00 road would be open only to give access to the proposed ADA-compliant campsite at the end of the 10-06-00 road. The DEC should consider instead placing an ADA-compliant campsite at the end of the 10-05-01 road. This would make it unnecessary to open the Railroad Grade Road west of the 10-05-00 intersection and the 10-06-00 road to motor vehicle traffic. An even better option would to be place an ADA-compliant campsite in another location, perhaps north of the Tooley Pond Road, which would not require motor vehicle access across Wild Forest land. In that case, the Railroad Grade Road and the 10-04-04, 10-05-00, 10-05-01, and 10-06-00 roads should not be opened to motor vehicle use. If the DEC decides to place the ADA-compliant campsite at the end of the 10-06-00 road, then the 10-05-00 and 10-05-01 roads should be closed to motor vehicle traffic.

Response: These roads are proposed for opening to public motor vehicle use to improve access to adjacent Forest Preserve and Conservation Easement lands. Proposed recreational access to the Tooley Pond Conservation Easement requires opening Forest Preserve Roads to access easement lands. These are high standard roads which would need minimal improvements to accommodate additional use.

4. Access (including motorized access) to the parcels in the Grass River UMP, and the Grass River and Tooley Pond RMP's is critical to participation in outdoor activities by people who are elderly, physically challenged, or disabled, including veterans.

Response: There are numerous universally accessible facilities available in this unit. The Lampson Falls Trail provides an accessible route from a parking area 0.5 mile to the falls. There is a universally accessible campsite located on the Tooley Pond Road, as well as an accessible car top boat launch on Tooley Pond. Additionally, the Railroad Grade Road across the Tooley Pond Forest Preserve parcel is proposed for opening to public motor vehicle use, to provide access to a proposed new universal access campsite on the Tooley Pond Conservation Easement. 5. Roads and trails are not self-sustaining and must receive maintenance or they will deteriorate quickly and cause other resource problems. Blow down, heavy brush and vegetation growing in from the sides of the trail / road, and wet areas are commonly encountered. Currently, the need for trail maintenance in this unit is greater than the DEC has the manpower and resources to provide.

Response: The Department supports improved maintenance of roads and trails throughout the unit. We encourage public assistance in maintaining our facilities through the Volunteer Stewardship Agreement (VSA) program, in which private individuals or groups may help monitor and maintain trails and other public facilities.

Multi-use Trail Proposal

1. We are totally in agreement with the DEC improving recreational use in the towns of Colton, Clifton, Fine, and Clare. We promote the use of ATV and UTV trails to help Adirondack communities support and improve their economies.

Response: Public recreational use will be enhanced by new and improved facilities throughout the unit. In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land.

2. New York State should enact comprehensive reforms to its policies before expanding ATV use on state lands.

Response: The Department has adopted guidelines for ATV use on various types of DEC administered lands. In 2010, the Department adopted the New York State Strategic Plan for State Forest Management, which provides guideline for management of state forest outside the Adirondack and Catskill Forest Preserves. It provides limited ATV use on designated connector trails across state forest, and on trails opened for ATV use for persons with disabilities.

Guidelines for reviewing ATV use on Forest Preserve land are listed in the "St. Lawrence County Multi-Use Trail" discussion in the UMP. To be considered, proposed routes must be a part of a larger trail system open to public use, must have the least environmental impact, cannot duplicate other existing routes, and must comply with all relevant laws, regulations, and policies regarding motor vehicle use. In addition, proposed ATV use in this UMP follows guidance concerning ATV use in wild forest areas found in the APSLMP.

3. The Multiple Use connector trail crossing Forest Preserve at New Bridge Road should be reconsidered. The fact that the CE landowner and lessees are permitted to drive here does not justify encouraging additional motor vehicle traffic. Currently available routes that do not cross Forest Preserve should be considered again. The proposed route also provides opportunities for illegal riding on side trails in Forest Preserve.

Response: The UMP reviews three alternate routes for the proposed multi-use trail. In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land.

4. The Multi-Use Trail System plan under construction jointly with the DEC and St. Lawrence County representatives (and others) since at least 2006 is significantly different than the parts of the fragmented plan(s) referenced.

Response: St. Lawrence County is the sponsor of the Multi-Use Trail, not the Department. The DEC is responsible for reviewing sections of the trail which cross DEC administered lands, including State Forest, Forest Preserve, and private lands on which the DEC has purchased a Conservation Easement.

The UMP analyzes three alternatives for the multi-use trail system, which would use different combinations of public roads, Forest Preserve roads, and roads and trails on Conservation Easement lands. By necessity, the UMP only reviews routes directly within the Grass River Wild Forest area.

5. Current fragmented maps do not provide a comprehensive view that is easily interpreted for analysis, and the County Legislature is requesting that the DEC provide a comprehensive map that covers multiple plans on one document for clarification to the public and the County.

Response: Maps have been provided for the three multiuse trail alternatives directly affecting Forest Preserve land in this unit.

6. The Grass River Wild Forest Draft Unit Management Plan (under St. Lawrence County Multi-Use Trail, Section 4 item b, page 101) states "the proposed road connection to be opened is necessary to bridge a gap of less than one mile in an otherwise continuous ATV trail that is open for public use by the landowner or landowners of adjoining lands." The County is unaware of any document released by the DEC or promulgated under the laws of the State of New York that would require a restriction on motor vehicles / ATVs / Snowmobiles being allowed to utilize more than 1 mile of "new" trail in a forest area. As such, the County objects to its inclusion in the Plan(s)."

Response: This condition has been removed. Additionally, in response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land.

7. All routes (primary and alternative) covered under the said GEIS should be addressed in the Plan(s), so that the County would have alternative routes to maintain an open multi-use trail system during trail work, permitting issues,

logging, or other issues arising during the operation and maintenance of the trail system.

Response: The trail alternatives reviewed in the UMP cover those routes that would affect Forest Preserve land within this unit. In 2012 St. Lawrence County, as sponsor of the county wide multi-use trail system, created a Generic Environmental Impact Statement to analyze the potential effects of the proposed multi-use trail system. Many alternative routes include roads and trails outside of DEC jurisdiction, including town and county highways, and trails across private land not under a Conservation Easement. As such, alternate routes which are primarily outside Departmental jurisdiction should be included in St. Lawrence County's review of the proposed multiuse trail system, and will not be covered in this UMP.

A copy of the FGEIS can be found online at:

"Final Generic Environmental Impact Statement for the Proposed St. Lawrence County Multi-Use Recreational Trail System. October 2012." https://www.stlawco.org/Departments/HighwayDepartment/TrailDGEIS

One of the criteria considered in reviewing trail proposals is whether the route is the connection alternative with the least environmental impact. As such, only one route can be utilized at any given time, and it cannot be parallel or redundant to other nearby routes. The three alternative routes which were reviewed were deemed to have the least potential impact of Forest Preserve lands in this unit.

In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land. Any future change in the routing of the multi-use trail through this unit which proposes use of DEC administered roads or trails on Forest Preserve land will require an amendment to the Grass River Wild Forest Unit Management Plan.

8. St. Lawrence County has committed to assistance in maintaining the Multi-Use Trail System, including obtaining permission from landowners, purchasing materials such as culverts, gravel, and gates; coordinating volunteer labor, and assembling trail maintenance plans. St. Lawrence County requests acknowledgement of these capital investments by working with our staff to implement trail improvements in a timely manner.

Response: Before sections of the multi-use trail crossing state administered lands can be opened, an approved management plan must be in place for the Forest Preserve (UMP) or Conservation Easement (RMP) lands crossed by the trail system. Once an approved plan is in place, it may be possible for groups to assist in trail construction and maintenance through a Volunteer Stewardship Agreement (VSA) or a Temporary Revocable Permit (TRP). 9. If trail usage causes negative impacts along the connector roads, or DEC staff inspects roads and finds abuse or other negative impacts, problems should be remediated using available technology, or by relocating sections of the road or trail. Trails should not simply be closed, as the Plan(s) suggest.

Response: The Department agrees to a resolution process to deal with problems that occur on state controlled portions of the multi-use trail system. However, it may sometimes be necessary to close portions of the trail to address immediate hazards to users or natural resources. Alternate routes will be provided during trail closures whenever possible.

10. We have included a map indicating where we think the multiuse trail plan allows a trail and ask for concurrence from the DEC.

11. St. Lawrence County requests the opening of Tooley Pond Road west of Allen Pond Outlet and Lake George Road to provide a community connector to Degrasse and points beyond as a modified option two.

12. A resolution dated December 5, 2016 was received from the St. Lawrence County Legislature, "Authorizing Comment to the Department of Conservation (DEC) on the Proposed Amendments to the Grass River UMP, Grass River RMP and Tooley Pond RMP Drafts and Requesting a Modified Alternative Two for Multi-Use County-Wide Trail System."

13. As part of the above resolution dated December 5, 2016, the St. Lawrence County Board of Legislators "Requests to be identified as an 'Affected Party' for the SEQR process by the NYSDEC in the final development of the Plan(s) for the Grass River watershed area due to the extensive number of discrepancies between the Multi-Use Trail System GEIS and the Plan(s) as presented."

Response for comments 10 to 13: The proposed modified Alternative 2 would include the same route utilizing town and county roads from Newton Falls to the Tooley Pond Road. This route would proceed north on the Tooley Pond Road to the Allen Pond Outlet Road, where it would continue north on the Allen Pond Outlet Road on the Tooley Pond and Grass River Conservation Easements. In addition, the portion of the Tooley Pond Road north of the Allen Pond Outlet Road would be opened to the hamlet of Degrasse. This modified Alternative 2 would not use Forest Preserve or Conservation Easement roads on the section from New Bridge to Newton Falls.

14. As proposed, Alternative 1 opens a recognized snowmobile trail to motorized use and would make this 600 foot section of "trail" a violation of NYCRR 196.1(b).

Response: Regulation NYCRR 196.1 (b) reads as follows:

196.1 Operation of motorized vehicles in the forest preserve.

(a) No person shall operate a motorized vehicle in the forest preserve except as permitted in subdivisions (b) and (c) of this section.

(b) Operation of motorized vehicles is permitted on roads:

(1) that are under the jurisdiction of the State Department of Transportation or a town or county highway department, in accordance with applicable State and local laws;

(2) where a temporary revocable permit has been issued by the department for motorized vehicle use by those persons to whom the permit has been issued and only in the accomplishment of the purpose of the permit;

(3) specifically marked by the department for motorized vehicle use;

(4) on public campgrounds operated by the department, in accordance with regulations for use of motorized vehicles at such facilities; or

(5) where a legal right-of-way exists for public or private use.

(c) Operation of motor vehicles is permitted on the Limekiln Lake-Cedar River Road in accordance with section 196.3 of this Part.

Alternative 1 would utilize 900 feet of Forest Preserve roads, not trails, which are currently open to motor vehicle use. These roads serve as deeded rights-of-way to adjacent private landowners, and as such, will continue to be open to motor vehicle use as long as these reserved rights exist.

Addtionally, in response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land.

15. The proposed connector trail assumes private land cooperation and the enactment of certain actions that would change the current status of roads that does not exist at this time. By providing conditions and guidance (p. 103) on actions that local municipalities and St. Lawrence County must take in order to address these issues, the DEC is improperly engineering an outcome for the proposed connector and creating provisions that need to be met in order for it to meet related Environmental Conservation and Vehicle and Traffic Laws. As these conditions do not currently exist, nor are guaranteed to exist in the future, the DEC cannot propose options that would otherwise be illegal if those actions are not taken by any other of the engaged stakeholders.

Response: The purpose of the alternatives analysis is to document the legal procedures necessary to open the multi-use trail through the unit. Many of the required

actions must take place on town roads which are not under DEC jurisdiction. If these legal requirements are not met, then some alternatives cannot be implemented.

16. DEC failed to conduct a full analysis of alternatives that evaluate currently viable routes for ATV traffic that do not require crossing Forest Preserve lands. The UMP must include a full discussion of the relevant legal status of the roads and associated connector alternatives as they currently exist; if there has been no change in the legal status of the current route then the proposed connector route is not even necessary.

Response: As noted earlier, a full analysis of alternate routes which are not on DEC administered properties is beyond the scope of the draft plans. This plan has analyzed all reasonable alternatives on Forest Preserve lands in the unit and adjacent conservation easement lands. With regards to the relevant legal status of the road and associated connector alternatives, it should be noted that there is not a "current route" for the multiple use trail, as there are currently no sections open inside the Adirondack Park. So, all of the routes discussed are proposed alternatives. In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land.

17. The proposed connector includes the bridge crossing of a designated Scenic River by ATV traffic. This potential action would seem to be in direct contradiction to the Wild, Scenic, and Recreational Rivers Act regulations that prohibit new motorized recreational use on bridges across a Scenic River or through a Scenic River's designated corridor.

Response: The proposed multi-use trail would cross the South Branch of the Grass River on the Tooley Pond Road. The Town of Clare has jurisdiction of this portion of the road, and it is currently open to ATV use. In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would continue to use the existing Tooley Pond Road river crossing.

18. The UMP is lacking any analysis that would address the impacts of dramatically increasing the volume of ATV traffic on local roads, not to mention impacts on user experience on Forest Preserve lands. Many of the paved roads currently open to vehicle traffic, such as the Tooley Pond Road, are low volume, narrow, and the combination of walkers, trucks / cars, and ATVs would pose a legitimate safety hazard.

Response: The Tooley Pond Road is a public road that is under the jurisdiction of the Town of Clifton (southern portion), the Town of Clare (central portion), and the Town of Russell (northern portion). As noted earlier, a full analysis of alternate routes which are not on DEC administered properties is beyond the scope of the draft plans. Such analysis is part of St. Lawrence County's GEIS for the multi-use trail system.

19. The UMP currently supports uses that conflict with ATV manufacturer recommendations against the use of ATVs on roads. This is one of multiple ATV related issues which SEQR requires DEC to take a "hard look" at and warrants discussion and analysis within the UMP. Since manufacturers do not support ATV use on roads, DEC should not facilitate and support this use in contradiction of industry recommendations.

Response: In response to public comments, the preferred route of the multi-use trail has changed from Alternative 1 to Alternative 2, which would not use roads or trails on Forest Preserve land. Issues such as ATV use on paved town and county roads should be addressed in St. Lawrence County's GEIS of the multi-use trail system (2012), which is referenced in previous responses.

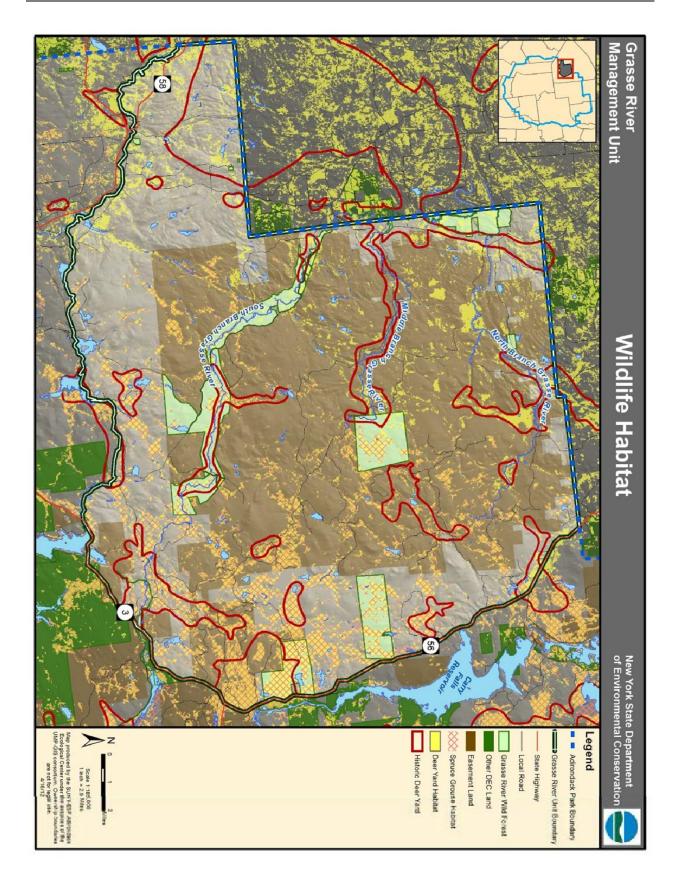
20. The UMP does not provide a "No Action" alternative.

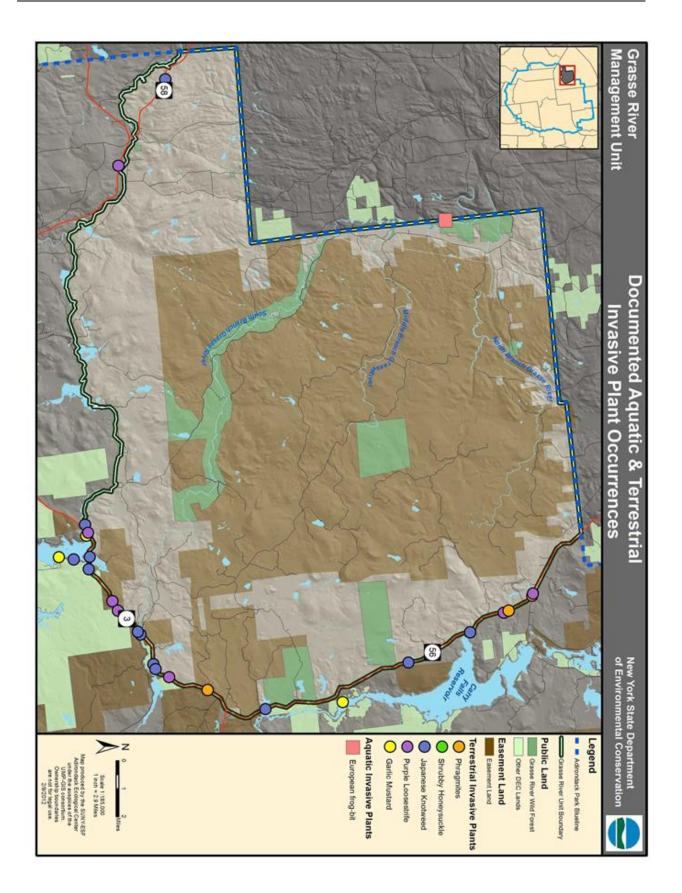
Response: A no action alternative has been added.

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Appendix G: Maps

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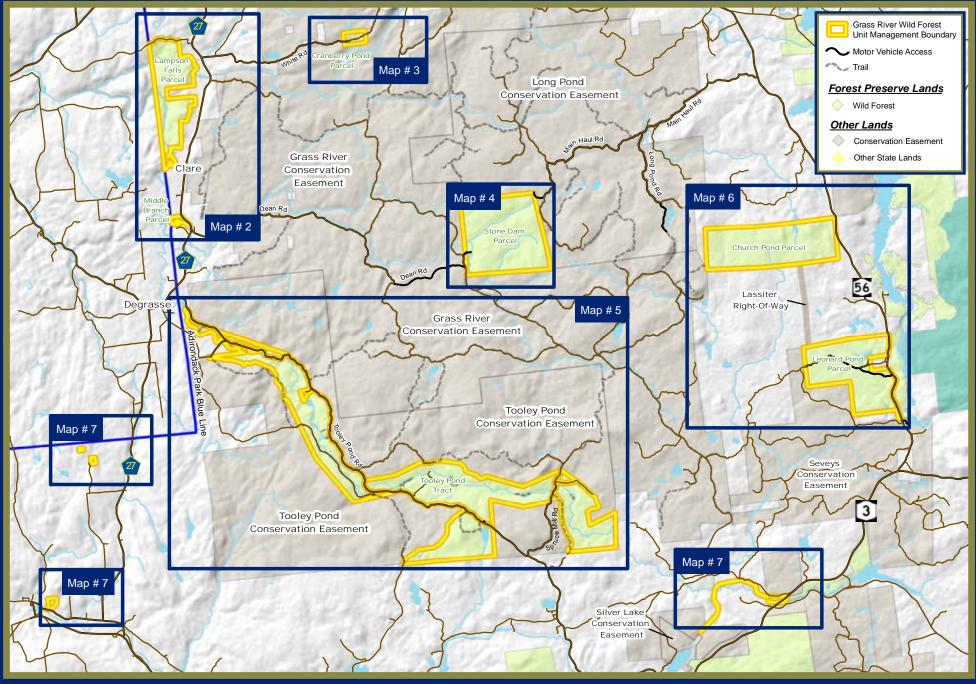




Grass River Wild Forest – Proposed Final Unit Management Plan – November 2018

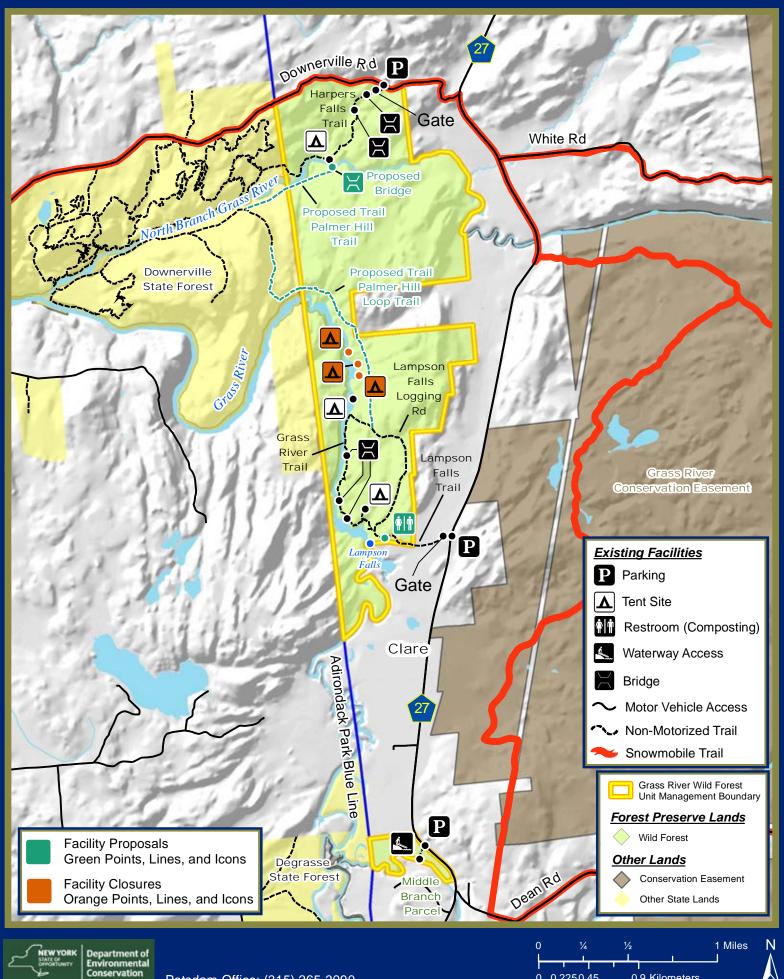
Grass River Wild Forest Unit Management Plan

Map 1 - Overview









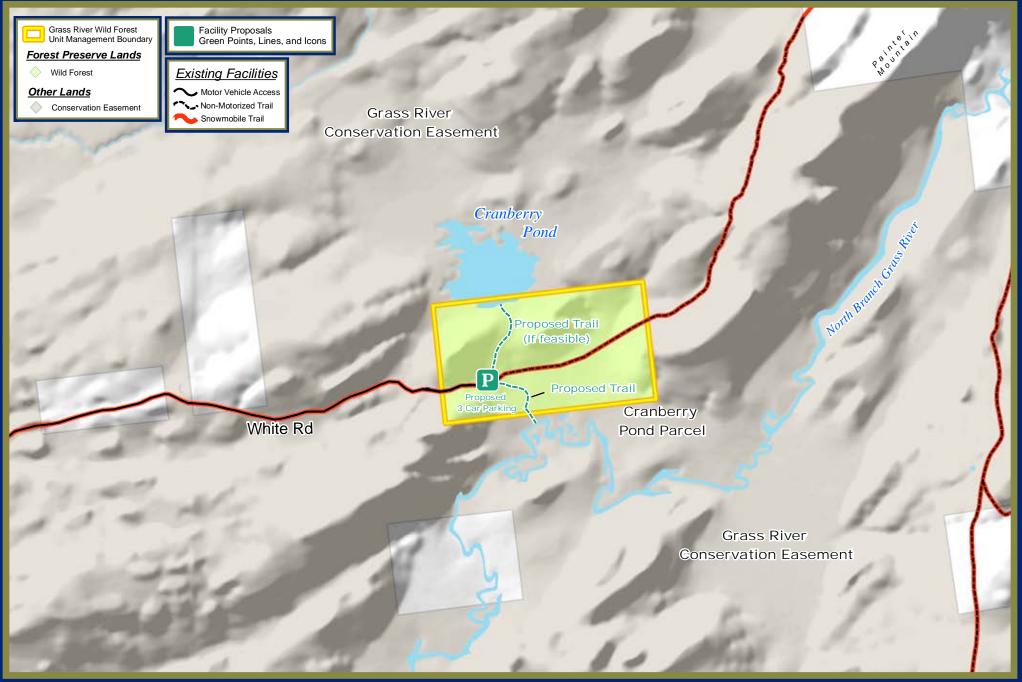
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Potsdam Office: (315) 265-3090

Grass River Wild Forest Unit Management Plan

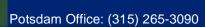
Map 3 Existing & Proposed Facilities (Cranberry Pond Parcel)



0

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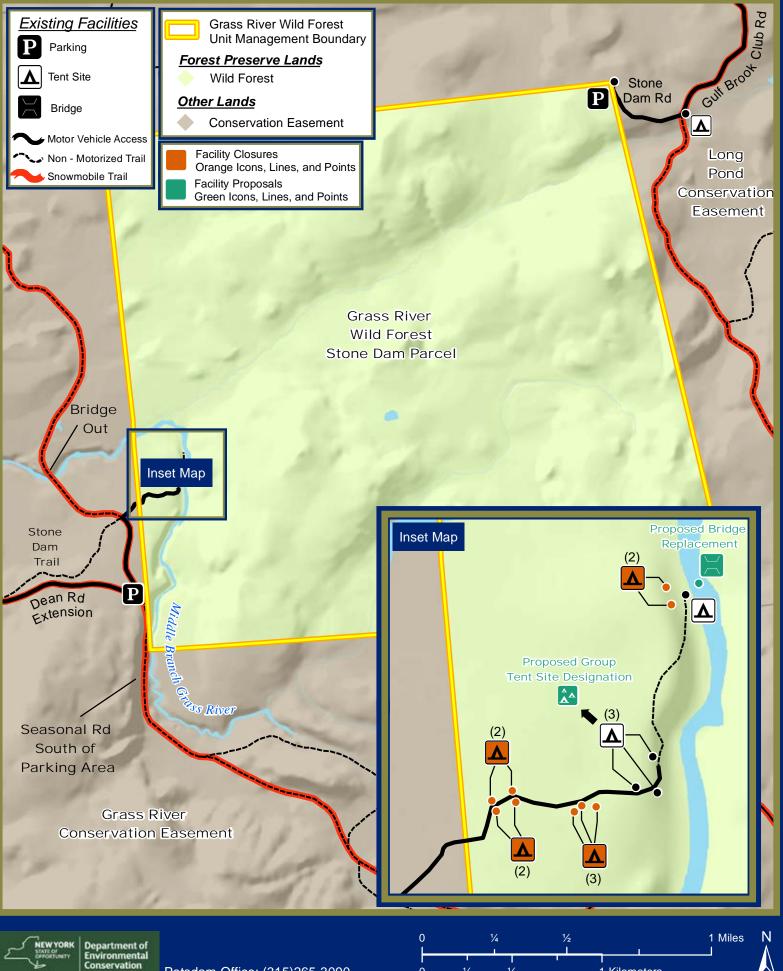




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1 Kilometers

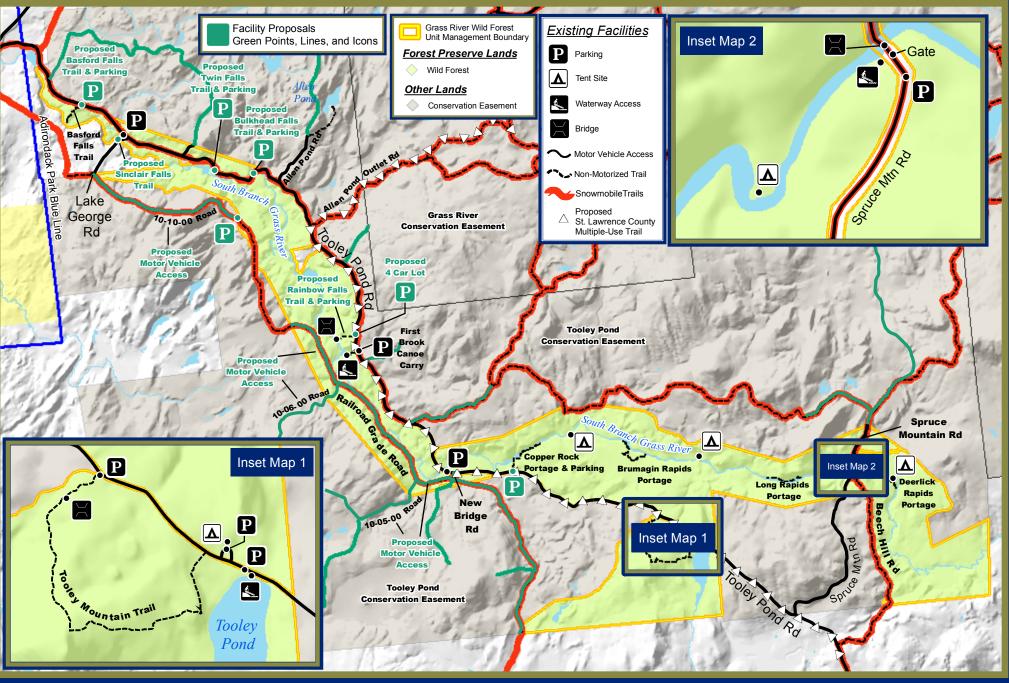


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1/4

1/2

Grass River Wild Forest Unit Management Plan





2 Miles

2 Kilometers

0

0

1/2

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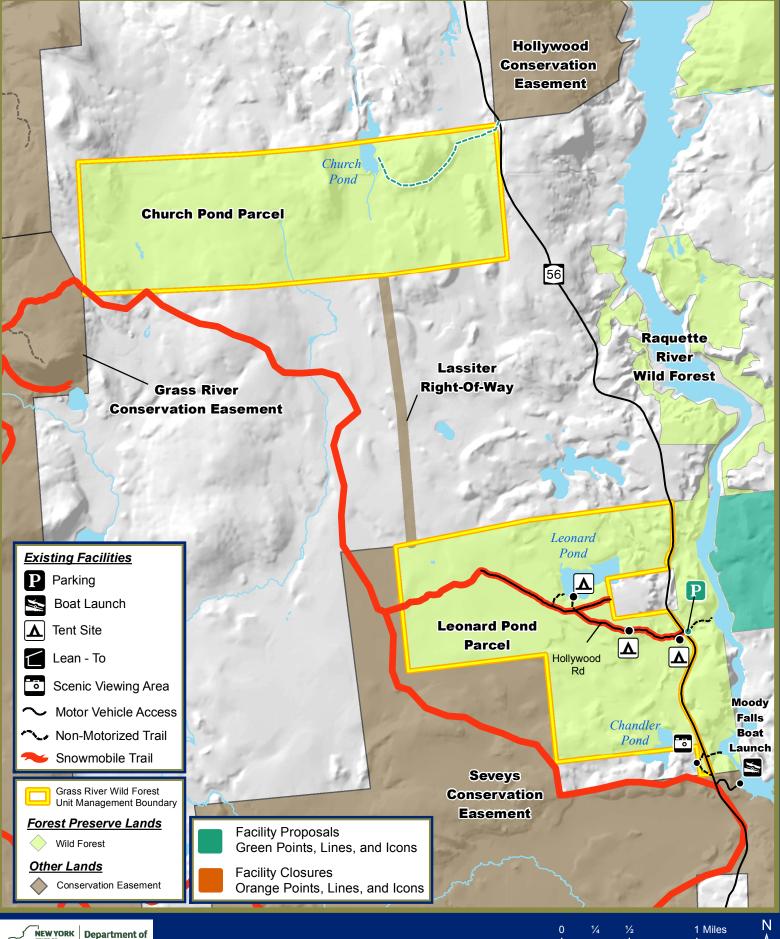
N

Map 5

Grass River Wild Forest Unit Management Plan

1 Kilometers

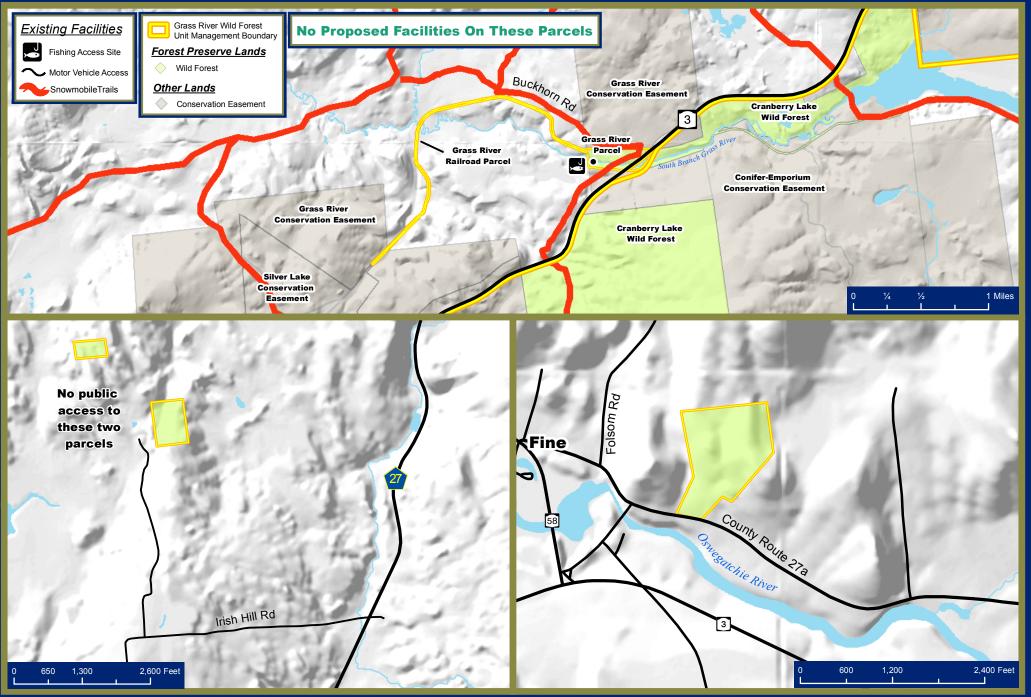
1/4 1/2



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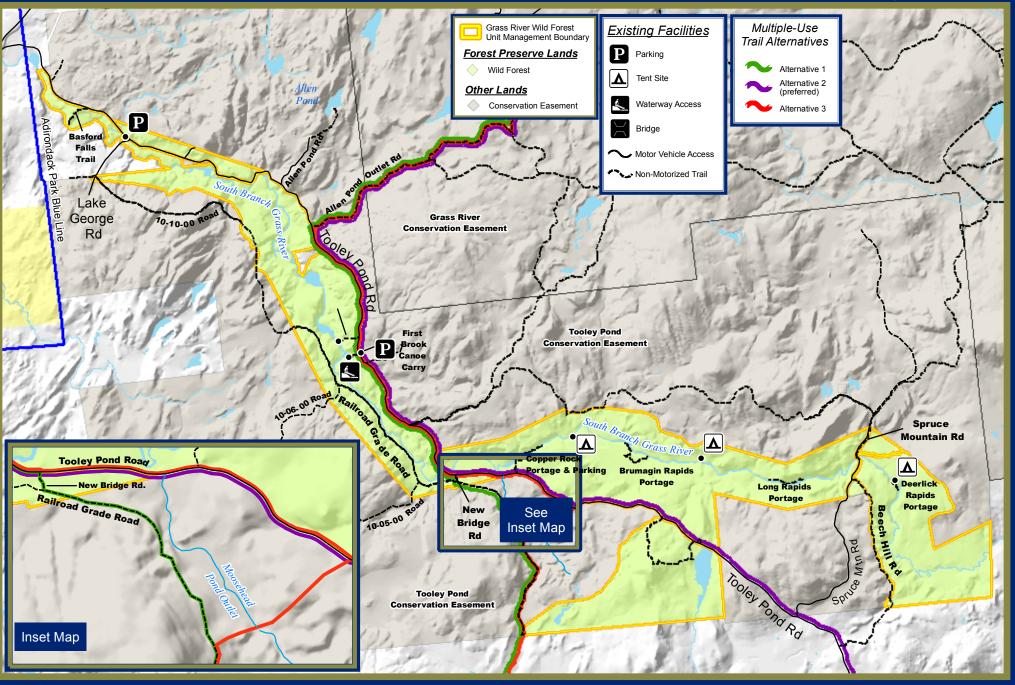
Environmental Conservation

Grass River Wild Forest Unit Management Plan



Department of Environmental Conservation Potsdam Office: (315) 265-3090 N

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