Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72253
Entry Year 2023
Acreage: 1,853
County Crawford
Management Area: Camp Grayling

Revision Date: 2021-02-15

Stand Examiner: Joan Charlebois

Legal Description:

T27N R02W
Sections 7, 8, 9

Identified Planning Goals:

To provide an area that allows for National Guard training while restoring and maintaining the identified pine barrens and intermittent wetland natural communities.

Soil and topography:

Upland soils are predominantly Graycalm and Grayling sands. The few small wetlands are on Tawas-Lupton and Tawas-Leafriver mucks. There is steep kettlehole terrain associated with the lakes and wetlands.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment is surrounded by State ownership within the Camp Grayling Military Reservation. The area is under the long-term lease agreement L-1479, made in 1948 with the State Military Board. Military needs take precedence over resource management needs on long-term lease lands. The DNR will coordinate all prescribed activities with the National Guard to ensure they are compatible with military training needs. The compartment borders the north edge of the Range 30 Complex.

Unique Natural Features:

Pine barrens and intermittent wetlands have been identified within the compartment. There is the potential for rare barrens-associated plants, animals and insects to occur within the compartment, as well as reptile and avian species around the lakes.

Archeological, Historical, and Cultural Features:

There are known archeological features within the compartment. Their protection has been built into proposed management plans.

Special Management Designations or Considerations:

The Military Reservation is a Special Conservation Area (SCA). Eight wetlands within the compartment are part of the larger Frog Lakes Complex Intermittent Wetland Ecological Reference Area (ERA). The entire compartment is within the North Camp Grayling Pine Barrens Management Area, with management guided by a restoration plan.

Watershed and Fisheries Considerations:

Duck Lake and the south body of water in the Frog Lakes complex are within the compartment. These shallow lakes offer pan fishing opportunities.

Wildlife Habitat Considerations:

Restoring the compartment's pine barrens will improve habitat for the wide range of opening-dependent game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift are the Coldwater Shale and Marshall Sandstone. The Marshall was used as a building stone in the past. The nearest gravel pit is one-half mile to the west and potential appears to be good. This is part of the State Military leased land. There has been no drilling and there are no leases in this compartment. The closest production is the Conners Marsh Field, five miles to the southeast, which produces gas from the Ordovician Prairie du Chien.

Vehicle Access:

County roads include Stephan Bridge Road, Lewiston Grade Road and Bucks East-West Truck Trail. Additional access is by way of section line two-tracks. Vehicle access is temporarily restricted within the compartment when there is firing on the adjacent Range 30 Complex.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The area's primary use is for Military training. Dispersed recreation in the form of hunting, fishing and snowmobiling occur when the adjacent Range 30 Complex is inactive.

Fire Protection:

The area has a history of large wildfires that were instrumental in maintaining pine barrens on the landscape. Currently, pine barrens restoration and management is achieved through timber harvesting and controlled burning. Access is good for fire protection. Duck Lake and the Frog Lakes are the nearest water points.

Additional Compartment Information:

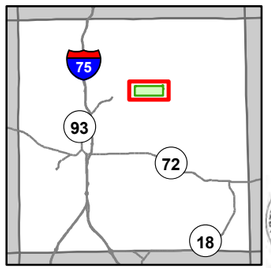
The following reports from the Inventory are attached:

- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatments Map



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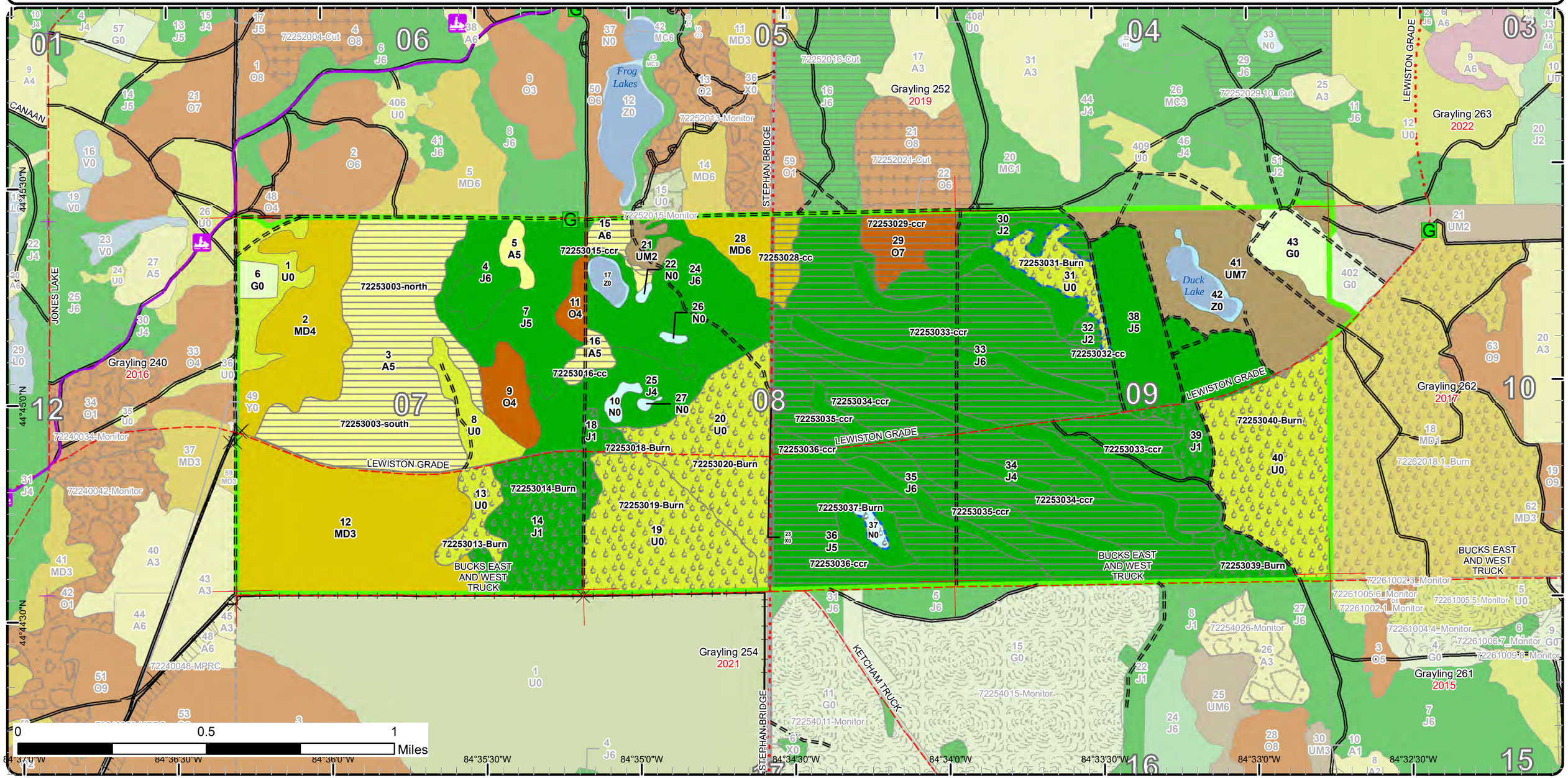
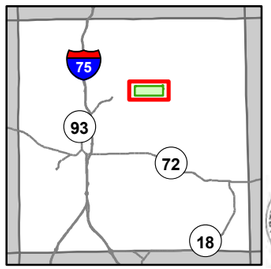
Compartment: 253
T27N, R02W, Sec. 07-09
County: Crawford
Unit: Grayling
Mgmt Area: Camp Grayling
YOE: 2023
Acres: 1852.6 GIS Calculated
Examiner: Joan Charlebois
Map Revised: 8/31/2021
Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Gate
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Camp Grayling Tank Trail
- Clearcut (w/Reserves)
- Prescribed Burn
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 623 - Emergent Wetland
- Camp Grayling Gates
- Camp Grayling Fence



Stand Boundary Map



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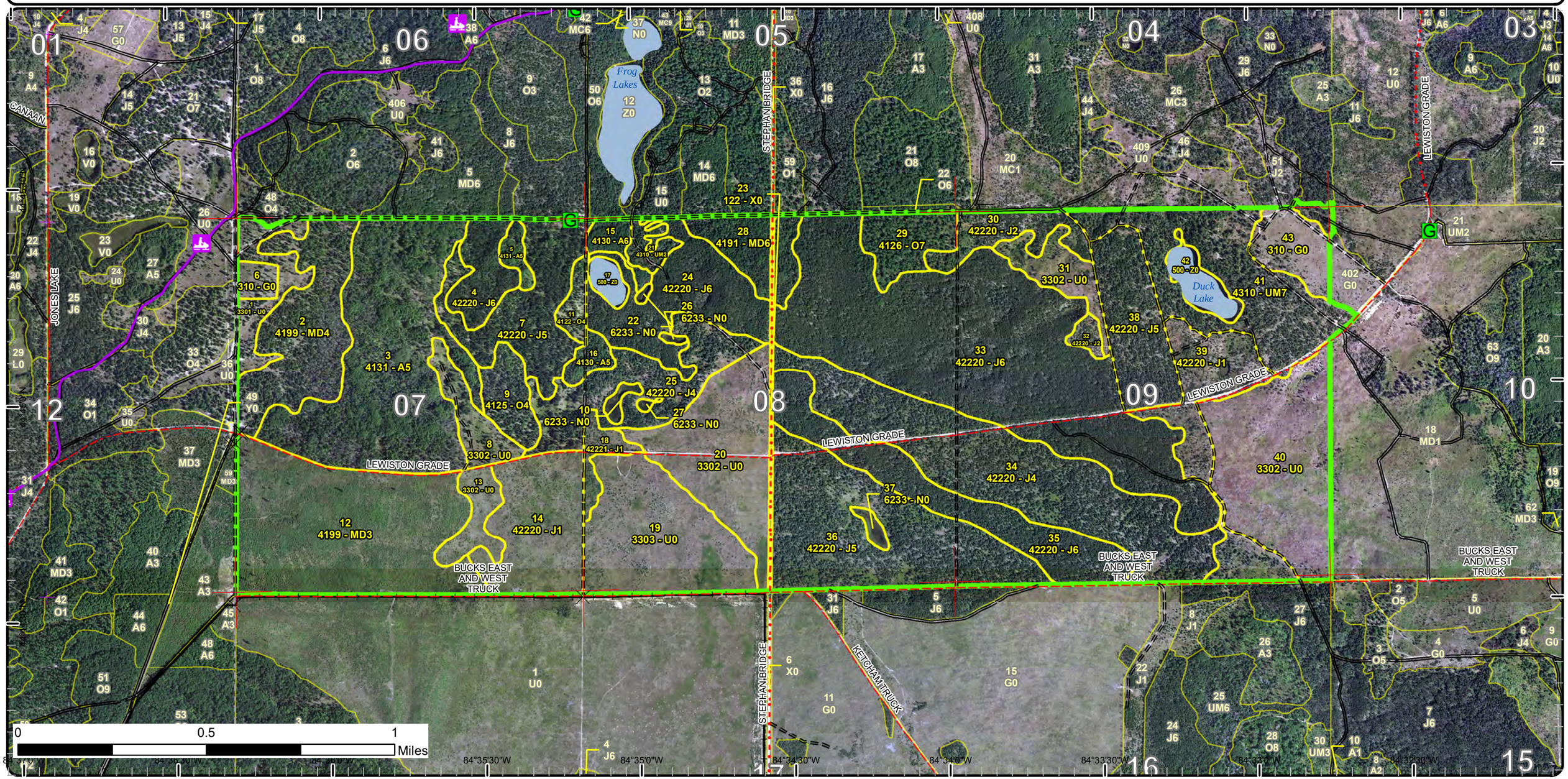
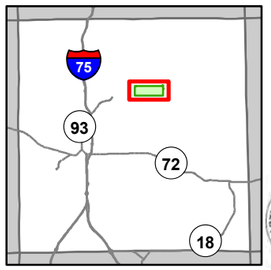


Special Conservation Areas



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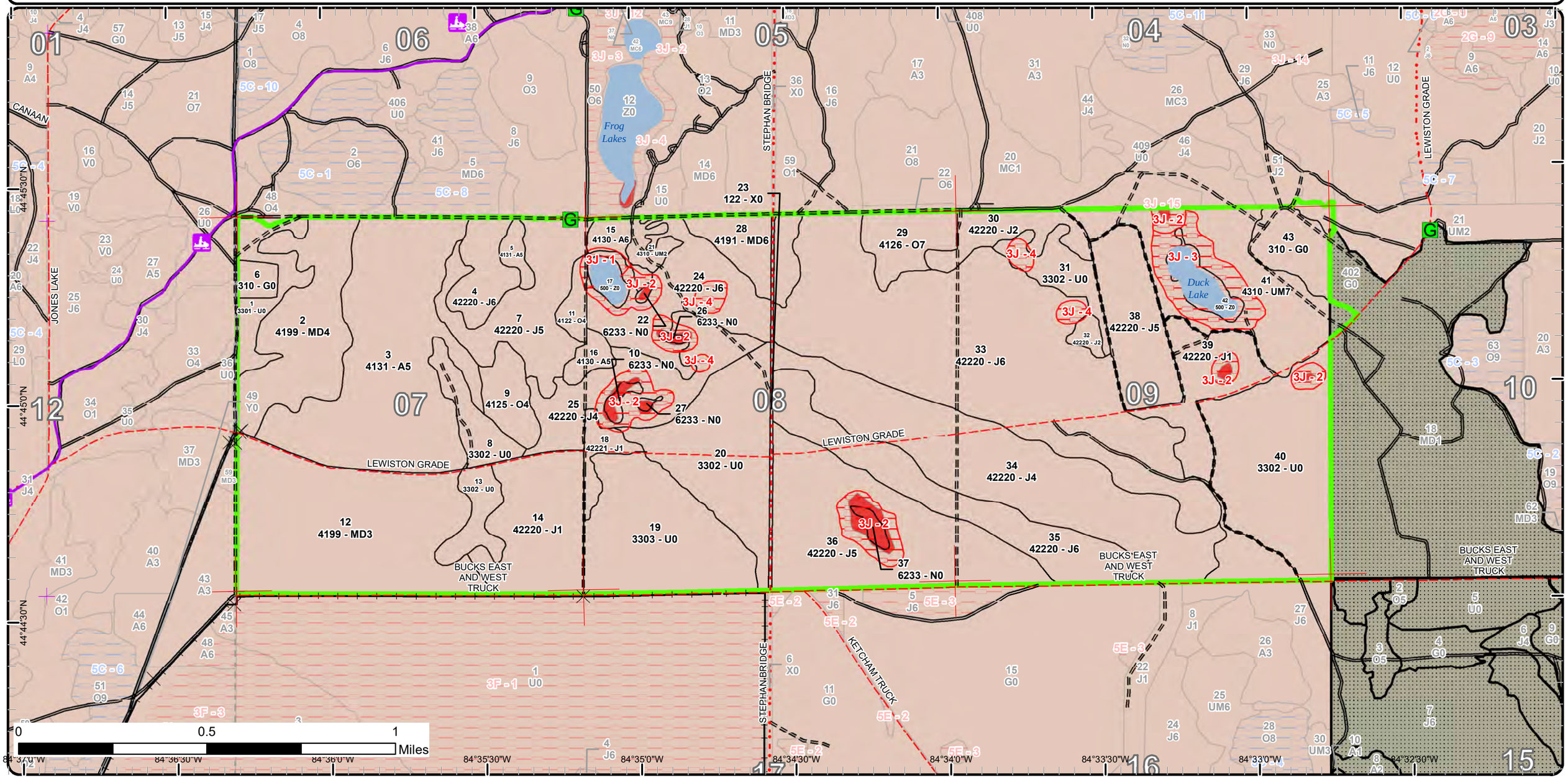
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Gate
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Research, Development, and Military Lands
- Habitat Corridor
- Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit **Compartment 253 Year of Entry 2023**

Joan Charlebois : Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	13	150	0	0	0	0	0	0	0	0	0	0	0	**163**
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**29**
Jack Pine	0	58	64	27	0	56	731	0	0	0	0	0	0	0	0	0	0	0	**936**
Low-Density Trees	322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**322**
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Mixed Upland Deciduous	0	135	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0	**228**
Oak	0	0	0	0	0	8	18	0	0	0	0	23	0	0	0	0	0	0	**49**
Upland Mixed Forest	0	0	8	0	0	0	84	0	0	0	0	0	0	0	0	0	0	0	**92**
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Total	**384**	**193**	**72**	**27**	**0**	**77**	**1076**	**0**	**0**	**0**	**0**	**23**	**0**	**0**	**0**	**0**	**0**	**0**	**1852**

Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 253

Total Compartment Acres: 1,853

Commercial Harvest - 649

Harvests with Site Condition - 0

Next Step Harvest - 0

Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	155	0	0	0	0	0	0	0	0	**155**
Jack Pine	462	0	0	0	0	0	0	0	0	**462**
Mixed Upland Deciduous	9	0	0	0	0	0	0	0	0	**9**
Oak	23	0	0	0	0	0	0	0	0	**23**
Total	**649**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**649**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	649	0	0	0	381	0	0	0	0	**1031**
Next Step	0	0	0	0	495	873	1031	0	873	**3270**
Total	**649**	**0**	**0**	**0**	**876**	**873**	**1031**	**0**	**873**	**4301**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

3	**72253003-north**	70.6	4131 - Aspen, Oak	Poletimber Medium	54	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No

Prescription Specs: Harvest stems 2"+ DBH except RP & WP. No designated island retention.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: A moderately stocked mix of aspen with oak & RM. Poorly stocked areas are expected and accepted where the pre-harvest cover was sparse.

Other Comment: Add drumming log spec. The proposed start date for the south half of stand 3 was delayed by five years in order to stagger aspen regeneration for wildlife.

Site Condition

Proposed Start Date: 10/1 /2022

3	**72253003-south**	70.7	4131 - Aspen, Oak	Poletimber Medium	54	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No

Prescription Specs: Harvest stems 2"+ DBH except RP & WP. No designated island retention.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: A moderately stocked mix of aspen with oak & RM. Poorly stocked areas are expected and accepted where the pre-harvest cover was sparse.

Other Comment: Add drumming log spec. The proposed start date for this half of stand 3 was delayed by five years in order to stagger aspen regeneration for wildlife.

Site Condition

Proposed Start Date: 10/1 /2027

13	**72253013-Burn**	15.4	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically for pine barrens restoration and maintenance. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 1C. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
14	72253014-Burn	58.4	42220 - Natural Jack Pine	Sapling Poor	8	Immature	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically for pine barrens restoration and maintenance. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 1C. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15	72253015-ccr	6.6	4130 - Aspen	Poletimber Well	54	81-110	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No

Prescription Specs: Harvest stems 2"+ DBH except leave the RP & WP, and exclude the south edge within the adjacent lake RMZ and ERA Site Condition polygons. The draft treatment boundary has been edited to approximate the intended exclusions.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: A moderately stocked mixture of aspen with RM & oak.

Other Comment: Add drumming log spec.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16	72253016-cc	7.0	4130 - Aspen	Poletimber Medium	45	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No

Prescription Specs: Harvest stems 2"+ DBH except RP & WP. No retention due to small stand size.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: A mix of aspen with oak, RM & pine.

Other Comment: Add drumming log spec.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	72253018-Burn	10.0	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	17	Immature	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically for pine barrens restoration and maintenance. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 1B & 1D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
19	72253019-Burn	79.6	3303 - Mixed Low Density Trees	Nonstocked		Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically for pine barrens restoration and maintenance. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 1D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20	72253020-Burn	72.7	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically to maintain as a barrens. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 1B & 1D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
28	72253028-cc	9.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	52	51-80	Harvest	Clearcut	3303 - Mixed Low Density Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & green-marked open-grown WO. Within 100 feet of perimeter roads, cut all trees 1"+ DBH (including snags).

Next Step Treatments: Monitoring, Prescribed Burn ; NonForestMgt, Other - Specify; Pesticide, Hand Application; Burn, Opening

Acceptable Regen: Low-density tree cover that includes patches of oak and pine.

Other Comment: Subunit 2A. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
29	72253029-ccr	23.1	4126 - White, Black, N. Pin Oak	Sawtimber Poor	102	1-50	Harvest	Clearcut with Retention	3303 - Mixed Low Density Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP, JP & green-marked open-grown WO. Within 100 feet of roads and adjacent forested cover, cut all stems 1"+ DBH (including snags).

Next Step Treatments: Monitoring, Prescribed Burn ; Burn, Opening; Pesticide, Hand Application; NonForestMgt, Other - Specify

Acceptable Regen: Low-density tree cover that includes patches of oak and pine.

Other Comment: Subunit 2A. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
30	72253030-ccr	17.2	42220 - Natural Jack Pine	Sapling Medium	27	Immature	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of roads and adjacent forested cover, cut all trees 1"+ DBH (including snags). Exclude for retention the edge of the kettlehole that stand 31's wetland occupies. The treatment boundary has been edited to approximate the proposed retention island.

Next Step Treatments: Burn, Opening; Monitoring, Prescribed Burn ; NonForestMgt, Other - Specify; Pesticide, Hand Application

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 2B. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Allow fire to carry through the retention island if conditions allow but avoid direct ignition with drip torch fuel within it. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	72253031-Burn	19.8	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically for pine barrens restoration and maintenance. Vary the burn season and allow fire to carry into the OFS wetland if conditions allow. Avoid direct ignition with drip torch fuel within the wetland and the kettlehole it occupies.

Next Step Treatments: Monitoring, Prescribed Burn ; NonForestMgt, Other - Specify; Pesticide, Hand Application

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 2B. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition BMPs

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
32	72253032-cc	4.4	42220 - Natural Jack Pine	Sapling Medium	27	Immature	Harvest	Clearcut	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of roads and adjacent forested cover, cut all trees 1"+ DBH (including snags). No island retention due to small stand size and proximity to other retention.

Next Step Treatments: Burn, Opening; Monitoring, Prescribed Burn ; NonForestMgt, Other - Specify; Pesticide, Hand Application

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 2B. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
33	72253033-ccr	193.1	42220 - Natural Jack Pine	Poletimber Well	54	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of perimeter roads and adjacent unprescribed stands, cut all trees 1"+ DBH (including snags). Exclude ~20% of the stand in fire-skip simulated islands for retention (each no more than 10% of the stand total). Site part of that retention to exclude the OFS wetland kettlehole by stand 32. Aside from that wetland island, locate retention islands at least 100 feet away from perimeter roads and adjacent unprescribed stands in order to facilitate follow-up Rx burning and JP seed dispersal. The draft treatment boundary has been edited to approximate the proposed retention islands.

Next Step Treatments: Burn, Opening; NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 2A, 2B & 2D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Allow fire to carry through retention islands if conditions allow. Avoid direct ignition with drip torch fuel within the OFS wetland and its surrounding retention island. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	72253034-ccr	105.1	42220 - Natural Jack Pine	Poletimber Poor	53	1-50	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of perimeter roads and adjacent tree cover, cut all trees 1"+ DBH (including snags). Exclude ~20% of the stand in fire-skip simulated islands for retention (each no more than 10% of the stand total), located at least 100 feet away from perimeter roads and adjacent unprescribed stands in order to facilitate follow-up Rx burning and JP seed dispersal. The draft treatment boundary has been edited to approximate the proposed retention islands.

Next Step Treatments: Burn, Opening; NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 2A, 2B, 2C & 2D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Get HAL site location and exclude if indicated. After harvest, burn periodically to maintain as a barrens. Allow fire to carry through retention islands if conditions allow. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
35	72253035-ccr	52.5	42220 - Natural Jack Pine	Poletimber Well	52	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of perimeter roads and adjacent unprescribed stands, cut all trees 1"+ DBH (including snags). Exclude ~20% of the stand in fire-skip simulated islands for retention (each no more than 10% of the stand total), located at least 100 feet away from perimeter roads and adjacent unprescribed stands in order to facilitate follow-up Rx burning and JP seed dispersal. The draft treatment boundary has been edited to approximate the proposed retention islands.

Next Step Treatments: Burn, Opening; NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 2A, 2C & 2D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Get HAL site location and exclude if indicated. After harvest, burn periodically to maintain as a barrens. Allow fire to carry through retention islands if conditions allow. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	72253036-ccr	90.0	42220 - Natural Jack Pine	Poletimber Medium	54	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees		No

Prescription Specs: Harvest trees 2"+ DBH except for RP, WP & WO. Within 100 feet of roads and adjacent unprescribed stands, cut all trees 1"+ DBH (including snags). For retention: exclude the topographic depression surrounding stand 37's ERA wetland and additional island(s), up to 20% of the stand total. Locate retention islands at least 100 feet away from roads and adjacent unprescribed stands in order to facilitate follow-up Rx burning and JP seed dispersal. The draft treatment boundary has been edited to approximate the proposed retention islands.

Next Step Treatments: Burn, Opening; NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunits 2A, 2C & 2D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. After harvest, burn periodically to maintain as a barrens. Allow fire to carry through retention islands if conditions allow. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	72253037-Burn	3.1	6233 - Wet Meadow	Nonstocked	0	Unspecified	Burn	Other	6233 - Wet Meadow		No

Prescription Specs: Allow fire to carry into this wetland if conditions allow when the surrounding uplands are burned for pine barrens maintenance. Avoid direct ignition with drip torch fuel within the wetland and the kettlehole it occupies.

Next Step Treatments: Monitoring, Prescribed Burn

Acceptable Regen:

Other Comment: Part of the Frog Lakes Complex ERA.

Site Condition BMPs

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
39	72253039-Burn	27.0	42220 - Natural Jack Pine	Sapling Poor	16	Immature	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically to maintain as a barrens. Vary the burn season when conditions allow.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: Subunit 2D. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
40	72253040-Burn	95.2	3302 - Low Density Conifer Trees	Nonstocked		Unspecified	Burn	Opening	3302 - Low Density Conifer Trees		No

Prescription Specs: Burn periodically to maintain as a barrens. Vary the burn season and allow fire to carry into the ERA wetland when conditions allow. Avoid direct ignition with drip torch fuel within the wetland and the depression it occupies.

Next Step Treatments: NonForestMgt, Other - Specify; Pesticide, Hand Application; Monitoring, Prescribed Burn

Acceptable Regen: Pine barrens with JP cover at 30% (+/- 10%).

Other Comment: West end of Subunit 3B. Refer to the North Camp Grayling Pine Barrens Management Plan for detailed guidance. See MNFI layer for occurrences. Non-commercial treatments such as thinning, pruning ladder fuels, brush-hogging, roller-chopping, and other slash management may be done to facilitate burning. Herbicide may be used to target invasive plants.

Site Condition

Proposed Start Date: 10/1 /2022

Total Treatment Acreage Proposed: 1030.6

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 253

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 3J
163	162	*0*	2	**Aspen**	2
29	29	*0*	0	**Herbaceous Openland**	
936	893	*0*	43	**Jack Pine**	43
322	316	*0*	6	**Low-Density Trees**	6
9	0	*0*	9	**Marsh**	9
229	229	*0*	0	**Mixed Upland Deciduous**	
47	46	*0*	1	**Oak**	1
92	68	*0*	24	**Upland Mixed Forest**	24
5	5	*0*	0	**Urban**	
19	0	*0*	19	**Water**	19
1,851	1,747		104	Total Forested Acres	104
	94%		6%	Relative Percent	

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: South Frog Lake RMZ, up to top edge of lake basin.						
2	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	52	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
	Comments: Part of the Frog Lakes Complex Intermittent Wetland ERA.						
3	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	33	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
	Comments: Duck Lake RMZ, up to top edge of the lake basin.						

4	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	10	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Kettlehole wetlands that were not designated as part of the Frog Lakes Complex intermittent wetland ERA.

Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres

Comments

Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	3301 - Low Density Deciduous Trees	Nonstocked	22.2		Unspecified	No	Upland opening in shallow valley that has seen periodic disturbance, including a noted 1958 wildfire. Stump-origin oak occurs scattered and in patches, along with open-grown JP and traces of QA & RM. Too much snow to make groundcover calls.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low		Sapling
Jack Pine	Low		Sapling
Jack Pine	Trace	Unspecified	Pole
Northern Pin Oak	Low		Pole
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Black Cherry	Trace	Variable	Tall Shrub
Quaking Aspen	Trace	10 - 20 feet	Sapling
Prairie Willow	Trace	< 5 feet	Tall Shrub

2	4199 - Other Mixed Upland Deciduous	Poletimber Poor	66.4	53	1-50	N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
White Oak	15	Pole	7	
Quaking Aspen	10	Pole/Sapling	5	
Bigtooth Aspen	10	Pole/Sap/Log	6	
Northern Pin Oak	40	Pole	7	53
Jack Pine	15	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Hawthorn (spp.)	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
Jack Pine	Low	5 - 10 feet	Sapling
Northern Pin Oak	Low	5 - 10 feet	Sapling

Old notes indicate that this area burned in a 1958 wildfire, but trees cored last YOE point to a more recent regen event. The stand is primarily stump-origin oak poles with similar aged A-JP-RM, and traces of O-RP saw that survived the fire. The previously dense oak cover in the stand's east half has seen significant mortality. This stand & the adjacent aspen stand 3 resulted from the same regen event and don't have a clear boundary; the two types grade into each other.

3	4131 - Aspen, Oak	Poletimber Medium	142.4	54	51-80	N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sapling	5	
White Oak	5	Log/XLog/Pole	14	
Quaking Aspen	15	Pole/Log	8	
Bigtooth Aspen	45	Pole/Log	8	54
Black/Red (Hybrid) Oak	15	Pole	8	54
Jack Pine	2	Pole/Log	8	
Red Pine	3	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
White Oak	Low	Variable	Sapling
Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub

Old notes indicate that this area burned in a 1958 wildfire, but cores point to a more recent regen event. Cover is a mosaic of dense BTA clones separated by poorer stocking in similar aged QA-O-RM, and traces of mature O-RP saw that survived the fire. Significant mortality in the mixed oak pole component. The QA clones are breaking up. OFS point is a QA clone with large burls below DBH. The poorer-stocked O-QA-RM areas of this stand drag the average canopy closure down into the 50-75% category. This aspen stand & the adjacent MD stand 2 resulted from the same regen event and don't have a clear boundary; the two types grade into each other.

4	42220 - Natural Jack Pine	Poletimber Well	21.6	53	51-80	N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	2	Pole/Sapling	6	
Northern Pin Oak	10	Pole/Log/Sap	7	
Jack Pine	85	Pole	6	53
White Oak	3	Log/Pole	14	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	Variable	Sapling
White Oak	Low	Variable	Sapling
Black Cherry	Trace	Variable	Tall Shrub

JP cover varies from full to moderate stocking. Old notes indicate it was within a 1958 wildfire, but trees cored point to a more recent regen event. JP in the densely-stocked areas are self-pruned and self-thinning. The lower-stocked areas have more open-grown form. Most of the stand's oak and traces of aspen are from the same regen event as the JP. Mature JP & oak saw that survived the fire are scattered across the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	4131 - Aspen, Oak	Poletimber Medium	5.8	46	51-80	N/A	Stand encompasses two BTA clones and a small QA clone. Lower-stocked cover around the clones includes JP, O-RM stump-origin poles, and oak saw. Noted to have been burned within a 1958 wildfire, but aspen cores point to a mid-1970's regen event.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
White Oak	5	Pole/Sap/Log	5	
Quaking Aspen	10	Pole/Sapling	6	
Bigtooth Aspen	50	Pole	6	46
Black/Red (Hybrid) Oak	15	Pole/Sapling	7	
Jack Pine	15	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	310 - Herbaceous Openland	Nonstocked	6.5		Unspecified	No	Encroaching tree cover was cleared off of this opening used for Military training. Too much snow to make groundcover calls.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	42220 - Natural Jack Pine	Poletimber Medium	54.8	52	51-80	N/A	Was noted to have burned within a 1958 wildfire, but trees cored point to a more recent regen event. The stand is a mosaic of J6 patches with J4 in between, along with oak residual and regen from the fires, small pockets of aspen, and traces of RM. Frost pocket depressions are filling in with JP sapling cover.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	2	Pole/Sap/Log	7	
Northern Pin Oak	7	Pole/Sapling	5	
Jack Pine	90	Pole	8	52
Quaking Aspen	1	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Black Cherry	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	3302 - Low Density Conifer Trees	Nonstocked	17.9		Unspecified	No	JP, NPO & aspen colonizing a shallow valley opening. Tree cover is primarily pole-sapling sized, but there are a few oak saw. Too much snow to make groundcover calls.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Quaking Aspen	Trace	>20 feet	Pole
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Northern Pin Oak	Trace	5 - 10 feet	Sapling
Prairie Willow	Low	< 5 feet	Tall Shrub
Northern Pin Oak	Low	>20 feet	Pole
Black Cherry	Low	Variable	Tall Shrub
Jack Pine	Low	>20 feet	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	4125 - Black, N. Pin Oak	Poletimber Poor	18.0	56	1-50	N/A	Stump-origin oak with JP and minor amounts of A-RM. Old notes indicated it was within a 1958 wildfire, but trees cored suggest that the 1965 wildfire reburned this area. Some of the oak stump sprouts have shifted into the small saw class. Unusual amount of mortality for oak this young: not just weeding down to fewer stems per stump-clump, but entire stump-clumps dead.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling/Pole	3	
White Oak	10	Pole/Sapling	7	
Northern Pin Oak	65	Pole/Sap/Log	8	56
Jack Pine	15	Pole/Sapling	7	
Bigtooth Aspen	8	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Trace	5 - 10 feet	Sapling
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	Trace	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6233 - Wet Meadow	Nonstocked	3.0		Unspecified	No	Marsh wetland in kettlehole: rushes with perimeter salix, glyceria, woolgrass. This wetland is part of the Frog Lakes Complex Intermittent Wetland ERA.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	4122 - Oak, Pine	Poletimber Poor	7.7	47	1-50	N/A	Stump-origin NPO with open-grown JP and small clumps of aspen, on rolling terrain. Traces of oak saw. Poor stocking increases to moderate in the north end. Old notes indicate the stand was within a 1958 wildfire, but trees cored point to a mid-1970's regen event.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Sapling/Pole	3	
Bigtooth Aspen	3	Pole/Sapling	6	
Northern Pin Oak	60	Pole/Sapling	6	47
Jack Pine	35	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4199 - Other Mixed Upland Deciduous	Sapling Well	134.9	8	Immature	N/A	Was final harvested by early 2013 (#619-12), cutting stems 2"+ DBH except RP-WP >16" DBH in west half (~3 dozen xlog trees). The harvest was requested by the Military to clear ground for a new machine gun range. Filling in well to O-A with RM and traces of pine. On gently rolling terrain: oak with RM-A on the lower slopes, aspen with RM-O on the upper slopes. Impressive single-stem WO component along with well-developed stump-origin oak. Oak seedling layer browsed; advanced sapling layer secure. JP mostly perimeter.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	34	Sapling	2	8
Red Maple	10	Sapling	1	8
Black/Red (Hybrid) Oak	10	Sapling	1	8
White Oak	36	Sapling	1	8
Jack Pine	4	Sapling	1	
Red Pine	1	Sapling	1	
Quaking Aspen	5	Sapling	1	8

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	< 5 feet	Seeding
Prairie Willow	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Black/Red (Hybrid) Oak	Low	< 5 feet	Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	3302 - Low Density Conifer Trees	Nonstocked	15.4		Unspecified	No	Was final harvested by early 2013 (#619-12), cutting stems 2"+ DBH except RP-WP >16" DBH in west end. The harvest was requested by the Military to clear ground for a new machine gun range. This area was sparse pre-harvest. JP is filling in around the scattered NPO stump-origin regen. Diffuse boundary with stand 14 to the east.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	< 5 feet	Sapling
Northern Pin Oak	Low	5 - 10 feet	Sapling
Prairie Willow	Low	< 5 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	< 5 feet	Tall Shrub
Jack Pine	Low	< 5 feet	Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	42220 - Natural Jack Pine	Sapling Poor	58.4	8	Immature	N/A	Was final harvested by early 2013 (#619-12), cutting stems 2"+ DBH. The harvest was requested by the Military to clear ground for a new machine gun range. Variable distribution in JP regen, from LDT to excessive stocking. Looks like KW habitat. Oak stump-origin regen increases to the north, with small patches of aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	1	8
Northern Pin Oak	15	Sapling	1	8
Quaking Aspen	5	Sapling	1	8
Bigtooth Aspen	5	Sapling	1	8

Sub-Canopy Species	Density	Avg. Height	Size
Prairie Willow	Low	< 5 feet	Tall Shrub
Black Cherry	Low	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub
Jack Pine	Low	< 5 feet	Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4130 - Aspen	Poletimber Well	8.1	54	81-110	N/A	Stand was noted to have been within the edge of a 1965 wildfire. Aspen that established after the fire forms the main canopy, along with minor components of mature residual O-JP-A-RP sawtimber.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
White Oak	5	Log/Pole	12	
Bigtooth Aspen	75	Pole/Log	8	54
Black/Red (Hybrid) Oak	5	Log/Pole	14	
Jack Pine	8	Log/Pole	12	
Red Pine	1	Log/XLog/Pole	16	
White Pine	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4130 - Aspen	Poletimber Medium	7.0	45	51-80	N/A	Noted to have burned within a 1958 wildfire, but trees cored point to a more recent regen event. The stand's core mature QA is breaking up. There is sapling aspen cover on the margins from slow expansion into adjacent poorly-stocked stands. JP increases on the perimeter. Oak mixed in.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Pole/Sap/Log	7	45
Jack Pine	15	Pole/Log	8	
Bigtooth Aspen	5	Log/Pole	10	
Black/Red (Hybrid) Oak	10	Pole/Log/Sap	7	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Trace	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Hawthorn (spp.)	Trace	Variable	Tall Shrub
White Oak	Trace	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	500 - Water	Nonstocked	6.3	0	Unspecified	No	South body of water in the Frog Lakes complex. Full ice cover. Rimmed with leatherleaf & rushes. The south edge is part of the Frog Lakes Complex Intermittent Wetland ERA.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Poor	10.0	17	Immature	N/A	Part of the same harvest as stand 19, cut 2"+ DBH in 2004 (#024-04). The stand's south half was burned (along with stand 19) in April 2006 (C72-529). Most of the stand was then within #619-12, cutting stems 2"+ DBH in 2013 for a machine gun range. The current cover is from the earlier treatments: patches of JP with stump-origin NPO and traces of aspen. Cover is sparser in the frost pocket depression in the NE.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	70	Sapling	3	17
Northern Pin Oak	25	Sapling	3	17
Bigtooth Aspen	3	Sapling	2	15

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub
Prairie Willow	Trace	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	3303 - Mixed Low Density Trees	Nonstocked	79.6		Unspecified	Managed Opening	Was final harvested in 2004 (#024-04), cutting stems 2"+ DBH, and burned in 2006 (C72-529) for pine barrens management. Was then within a 2013 harvest for a new machine gun range (#619-12), but most of the current regen resulted from the earlier treatments. Set regen age to the burn. The low-density JP and stump-origin oak sapling cover occurs scattered and in patches. Too much snow to make groundcover calls. Steep kettlehole on north edge.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	10 - 20 feet	Sapling
Jack Pine	Low	Variable	Sapling
Prairie Willow	Trace	< 5 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	3302 - Low Density Conifer Trees	Nonstocked	72.7	0	Unspecified	Managed Opening	Was final harvested by early 2013 (#619-12), cutting stems 2"+ DBH. The harvest was requested by the Military to clear ground for a new machine gun range. JP is steadily filling in toward the forested benchmark. Stump-origin NPO cover increases to the north. Kettlehole topography in the north half. Too much snow to make groundcover calls.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Seeding
Northern Pin Oak	Low	5 - 10 feet	Sapling
Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub

21	4310 - Pine, Oak Mix	Sapling Medium	7.6	17	1-50	N/A	Was final harvested in 2004 (#024-04), cutting merch stems. Stand has two age classes: patchy distribution in large sapling/small pole NPO & JP residual from the cut, and JP-O that regenerated from the cut, along with patch of aspen along the west edge. A MiFI limitation prevents reflecting the second age class. The fingers of the harvest that had majority residual cover were shifted to stand 24

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	30	Sapling	2	17
Jack Pine	50	Sapling/Pole	2	17
Bigtooth Aspen	5	Sapling/Pole	4	17
White Oak	14	Sapling/Pole	2	
Red Pine	1	Pole/Sapling	6	

22	6233 - Wet Meadow	Nonstocked	0.9		Unspecified	No	Marsh wetland in kettlehole: rushes with woolgrass, glyceria, and patches of leatherleaf. This wetland is part of the Frog Lakes Complex Intermittent Wetland ERA.
23	122 - Road/Parking Lot	Nonstocked	5.0		Unspecified	No	Stephan Bridge Road corridor.
24	42220 - Natural Jack Pine	Poletimber Well	60.2	55	81-110	N/A	JP filled in well following a 1965 wildfire. The stand has relatively uniform cover in small pole JP. Full stocking resulted in decent self-pruning & straight form, but the stagnating JP cover is self-thinning. Oak stump sprouts from the fire have moved into the pole class. Aspen mixes in by stands 15, 22, 26 & 29. Traces of mature JP that pre-date the fire are scattered across the stand. Less than 2 acres of stand 21's denser residual cover was merged with this stand. OFS point in the center is a steep-sided kettlehole with a small wetland at the bottom. OFS point on the west edge is a ditch bog. Rolling to steeply rolling terrain.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	7	Pole/Sapling	7	
Jack Pine	90	Pole/Sapling	6	55
White Oak	1	Pole/Sapling	6	
Bigtooth Aspen	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	< 5 feet	Sapling
Black Cherry	Low	< 5 feet	Tall Shrub
White Oak	Trace	< 5 feet	Sapling

25	42220 - Natural Jack Pine	Poletimber Poor	55.7	46	1-50	N/A	Patchy JP cover filling in an area noted to have burned in a 1958 wildfire. Trees cored last YOE pointed to a more recent regen event. Open-grown form is common, with cleaner stems only in the dense patches. The subcanopy blurs into the canopy layer, making the canopy appear fuller. Stump-origin NPO pole cover is mostly on the stand's perimeter, along with traces of aspen. About a dozen residual NPO saw in the SW end. Terrain is steeply rolling, with frost pocket depressions. OFS point is a sub-acre wetland.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	10	Pole/Sap/Log	6	
Jack Pine	85	Pole	7	46
Quaking Aspen	2	Pole/Sapling	5	
Bigtooth Aspen	2	Pole/Sapling	6	
White Oak	1	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	5 - 10 feet	Sapling
Jack Pine	Low	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub
Prairie Willow	Trace	< 5 feet	Tall Shrub
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub

26	6233 - Wet Meadow	Nonstocked	1.0		Unspecified	No	Marsh wetland in kettlehole: rushes with patches of leatherleaf, some glyceria & woolgrass. This wetland is part of the Frog Lakes Complex Intermittent Wetland ERA.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6233 - Wet Meadow	Nonstocked	0.9		Unspecified	No	Two kettleholes (separated by a low ridge) that contain wetlands: rushes with woolgrass, trace of leatherleaf. This wetland is part of the Frog Lakes Complex Intermittent Wetland ERA.
28	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	27.3	52	51-80	N/A	Noted to have burned within a 1965 wildfire. Two-aged stand with pole regen from the fire (JP-BRO-WO-A-RM) and residual saw that survived the fire (WO-BRO-JP-RP). Due to a MiFI limitation, the immature and mature oak had to be merged into one canopy record per species. The younger age was chosen to represent the BRO, and the mature age for the WO.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	5	
White Oak	15	Log/Pole/XLog	12	106
Bigtooth Aspen	14	Pole	7	
Black/Red (Hybrid) Oak	25	Pole/Sap/Log	6	52
Jack Pine	35	Pole	7	52

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Trace	< 5 feet	Sapling
Black Cherry	Low	Variable	Tall Shrub

29 4126 - White, Black, N. Pin Oak | Sawtimber Poor | 23.1 | 102 | 1-50 | N/A

Was shelterwood harvested in 2009 (#652-06), cutting stems 2"+ DBH except RP-WP-green marked (26 sq. ft.) with WO favored for residual over the hybridized BRO/NPO. Scattered canopy RP-JP-WP and the occasional uncut aspen pole. Combined full understory cover in O-RM-A. Most of the dense oak sapling cover is above the browse line.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	76	Log/Pole/XLog	14	102
Black/Red (Hybrid) Oak	20	Log/XLog	15	
Red Pine	2	Log/XLog	16	
Jack Pine	1	Pole/Log	9	
White Pine	1	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Seeding
White Oak	High	Variable	Sapling
Bigtooth Aspen	Low	10 - 20 feet	Sapling
Black/Red (Hybrid) Oak	Medium	Variable	Sapling
White Oak	Low	< 5 feet	Seeding
Witch Hazel	Trace	5 - 10 feet	Tall Shrub

30 42220 - Natural Jack Pine | Sapling Medium | 22.4 | 27 | Immature | N/A

Was final harvested in 1994 (#201-93) cutting stems 4"+ DBH. JP sapling regen from the cut, along with stump-origin oak & small patches of struggling QA. The harvest left scattered residual pole JP & NPO, and traces of red pine.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Sapling	2	27
Northern Pin Oak	5	Sapling/Pole	4	27
Jack Pine	92	Sapling/Pole	4	27
Red Pine	1	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub

31 3302 - Low Density Conifer Trees | Nonstocked | 19.8 | Unspecified | Managed Opening

Was part of the same harvest as stands 30 & 32 (cut 4"+ DBH in 1994, #201-93) but was then burned in a 1999 wildfire (Crawford #44). Fire left only small patches of JP saps alive. The oak & cherry re-sprouted. Rolling terrain, with small marsh wetland inclusion in the NW (OFS point). Too much snow to make groundcover calls.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub
Northern Pin Oak	Trace	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Serviceberry (Juneberry)	Trace	Variable	Tall Shrub
Prairie Willow	Trace	< 5 feet	Tall Shrub

32 42220 - Natural Jack Pine | Sapling Medium | 4.4 | 27 | Immature | N/A

Was final harvested in 1994 (#201-93) cutting stems 4"+ DBH. Filled in with JP sapling regen and traces of NPO stump sprouts. Same harvest as stand 30 but split off by burned stand 31. Almost no residual in this portion of the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	2	Sapling	3	27
Jack Pine	98	Sapling	3	27

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	42220 - Natural Jack Pine	Poletimber Well	240.8	54	51-80	N/A	JP filled in densely following a 1965 wildfire. The stand has relatively uniform cover in small pole JP. Full stocking resulted in good self-pruning & straight form, but growth is stagnating; the JP cover is self-thinning. NPO stump sprouts from the fire are moving into the pole class. Mature overstory oak mix in along the transition zone with adjacent oak types to the north & northwest. Traces of aspen occur there also. Older JP that pre-date the fire are scattered across the stand, and there is a pocket of mature JP along the west edge of stand 34. Ran across one xlog WP. On rolling terrain. OFS point in the NE is a steep-sided kettlehole with a small wetland at the bottom.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	4	Pole/Sapling	5	
Jack Pine	95	Pole/Sapling	6	54
Bigtooth Aspen	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	< 5 feet	Tall Shrub
Northern Pin Oak	Trace	Variable	Sapling
White Oak	Trace	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	42220 - Natural Jack Pine	Poletimber Poor	131.4	53	1-50	N/A	JP slowly filling in following 1958 wildfire. Variable distribution, open-grown form common. Blurred line between canopy and subcanopy levels. JP regen makes the canopy appear fuller. Dotted with small kettleholes, no wetlands encountered. A four-acre inclusion in the SE was final harvested in 2004 (#024-04), cutting merch stems.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	1	Pole/Log/Sap	7	
Jack Pine	99	Pole/Log	8	53

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	Variable	Sapling
Jack Pine	Medium	Variable	Sapling
Black Cherry	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	42220 - Natural Jack Pine	Poletimber Well	65.8	52	51-80	N/A	JP established better within this vortice strip left by the1958 wildfire. Patches of dense pole cover are separated by sparser, open-grown JP. Occasional NPO stump-origin clumps.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	98	Pole/Sapling	6	52
Northern Pin Oak	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	Variable	Sapling
Black Cherry	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	42220 - Natural Jack Pine	Poletimber Medium	111.0	54	51-80	N/A	JP slowly filling in following 1958 wildfire. Variable distribution; from sparse & open-grown to densely-stocked patches. Blurred line between canopy and subcanopy levels. JP regen makes the canopy appear fuller. Scattered NPO, mostly stump-sprouts, traces of QA. Canopy averages near the low end of 50-75% cover. Stand is dotted with frost pocket depressions.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	3	Pole/Sap/Log	7	
Jack Pine	97	Pole	7	54

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Northern Pin Oak	Trace	Variable	Sapling
Black Cherry	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	6233 - Wet Meadow	Nonstocked	3.1	0	Unspecified	No	Full ice cover. Rimmed with sedge. This wetland is part of the Frog Lakes Complex Intermittent Wetland ERA.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	42220 - Natural Jack Pine	Poletimber Medium	45.7	51	1-50	N/A	Former range area. Start of tree colonization visible on the 1963 air photos. Open-grown form common. Blurred line between the canopy and subcanopy layers. JP regen makes the canopy appear fuller. Scattered stump-origin NPO poles.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	3	Pole/Sapling	6	
Jack Pine	97	Pole	7	51

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Tall Shrub
Jack Pine	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	42220 - Natural Jack Pine	Sapling Poor	54.3	16	Immature	N/A	Was final harvested in 2004 (#024-04), cutting merch stems. Part of the same harvest as stand 40 but was excluded from the 2012 Rx burn and now meets the forested benchmark. Cover is patchy JP sapling regen from the cut and sap-pole residual. Stump-origin oak from the cut also. Ground is flat except for a kettlehole with the OFS point bog (leatherleaf w/ perimeter woolgrass).

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	95	Sapling/Pole	2	16
Northern Pin Oak	5	Sapling/Pole	3	17

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	3302 - Low Density Conifer Trees	Nonstocked	94.3		Unspecified	Managed Opening	Was final harvested in 2004 (#024-04), cutting merch stems. Most of the stand was then burned in Sept 2012 (M72-641, includes adjacent comp 262 stand 18), part of the North Camp Grayling Pine Barrens Management Area. The harvest & burn left patches of sap-pole JP scattered across the stand. JP is filling in post-burn but the cover above 3' tall hasn't reached the forested benchmark yet. Variable distribution in JP. Looks like a pine barrens. Too much snow to make groundcover calls. OFS point in NE is a wetland in a steep kettlehole, part of the Frog Lakes Complex Intermittent Wetland ERA.

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Seeding
Jack Pine	Trace	Unspecified	Pole
Northern Pin Oak	Trace	5 - 10 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Black Cherry	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	4310 - Pine, Oak Mix	Sawtimber Poor	84.2	55	1-50	N/A	Stand was within an area that appeared heavily burnt-over on the 1938 air photos, with scattered residual cover increasing toward the lake. Current canopy is broadly two-aged across the JP & oak, with poles their mid-50's and sawtimber 85+ years old. Variable canopy distribution; drifts off either side of 50%. Canopy closure increases on the sideslope down to the lake; oak increases there also. Well-established JP sapling understory makes the canopy appear fuller. Mortality increasing in the overmature JP & NPO. Stand's SE edge picks up the now-forested part of the adjacent former range. OFS point is a small wetland that is part of the Frog Lakes Complex intermittent wetland ERA.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	40	Log/Pole/XLog	13	87
Jack Pine	54	Pole/Log	8	55
Red Pine	3	Log/Pole/XLog	12	
White Oak	2	Log/Pole	11	
Quaking Aspen	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Low	10 - 20 feet	Sapling
Jack Pine	Medium	10 - 20 feet	Sapling
Black Cherry	Low	Variable	Tall Shrub
Serviceberry (Juneberry)	Trace	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	500 - Water	Nonstocked	13.0	0	Unspecified	No	Duck Lake. Full ice cover. Rimmed with rushes, woolgrass, calamagrostis. Informal lake access point at SE end. Small wetland at north end ties into the lake through a narrow channel.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	310 - Herbaceous Openland	Nonstocked	22.2		Unspecified	No	Former range area. Start of tree colonization visible on the 1963 air photos. West edge of range that is now forested was shifted to stand 41. The majority Non-forested portion is a grassy opening with colonizing JP and scattered stump-origin NPO.

Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak	Trace	>20 feet	Pole
Jack Pine	Low	Variable	Sapling