



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72257

Entry Year 2024

Acreage: 1,169

County Crawford

Management Area: Camp Grayling

Stand Examiner: Joan Charlebois

Legal Description:

T26N R2W Section 6
T27N R2W Sections 31, 32, 33

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification and structural diversity throughout the compartment.

Soil and topography:

The compartment is on predominantly Grayling and Graycalm-Grayling sands. Topography varies from outwash plains to rolling terrain.

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

With the exception of the block in Section 6, State land within the compartment is either owned by the Military Board or is under the long-term lease agreement L-1479 (P.A. 154,1935) with the Michigan National Guard, DMVA for purposes of military training. On these lands, military needs take precedence over resource management activities. The DNR will coordinate all prescribed activities with the National Guard to ensure that they are compatible with military training needs. Adjacent private ownership has been developed for a mix of year-round and seasonal use.

Unique Natural Features:

None within the compartment.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment.

Special Management Designations or Considerations:

The compartment is a Special Conservation Area (SCA), falling within the Research, Development and Military Lands category.

Watershed and Fisheries Considerations:

None within the compartment.

Wildlife Habitat Considerations:

Specific wildlife habitat management activities are limited by access and military training, however, a broad range of species utilize the available grasslands, upland shrub, jack pine, oak and aspen cover types.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. Two State-owned sand/gravel pits, the Redhead Lane and MPRC pits, are less than one mile north. The MPRC Pit was last leased to the DMVA in 2019. These pits potentially need to be closed and reclaimed. There appears to be some good potential for sand & gravel within the compartment. The nearest oil or gas production, past or present, is the Conners Marsh Field six miles east. Potential for oil or gas beneath the compartment is unknown, but potential for development is considered low at this time. There has been no recent well permit activity in the area, and no State mineral leasing activity in the last four years. Most of the compartment is within the Camp Grayling reservation area and includes lands leased and purchased by the DMVA. State-owned mineral rights in the compartment are currently classified as Non-Leasable. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Public access to the main block of the compartment is provided by Stephan Bridge Road, North Down River Road, and several unnamed forest roads. Gates are closed in the north half of the compartment when Range 30 is active. The block

of land in Section 6 is surrounded by private property and has no direct public access.

Survey Needs:

Three 1/16th corners in Section 31 could not be located during boundary verification.

Recreational Facilities and Opportunities:

No designated recreational facilities or trails exist within the compartment, but there are recreational opportunities such as hunting, mushrooming and wildlife watching when military training is not occurring. ORV's are prohibited on all forest roads in this compartment.

Fire Protection:

A cleared fuelbreak will be maintained along the west side of Stephan Bridge Road. Water sources for fire suppression include river crossings on Bobcat Trail, Wilcox Bridge Road and the Tank Access Trail.

Additional Compartment Information:

The following reports from the Inventory are attached:

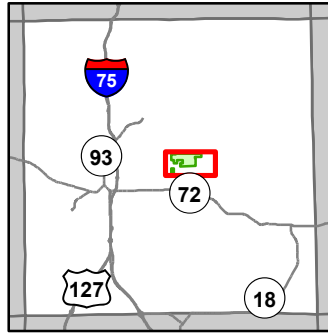
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

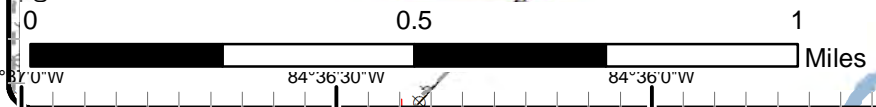
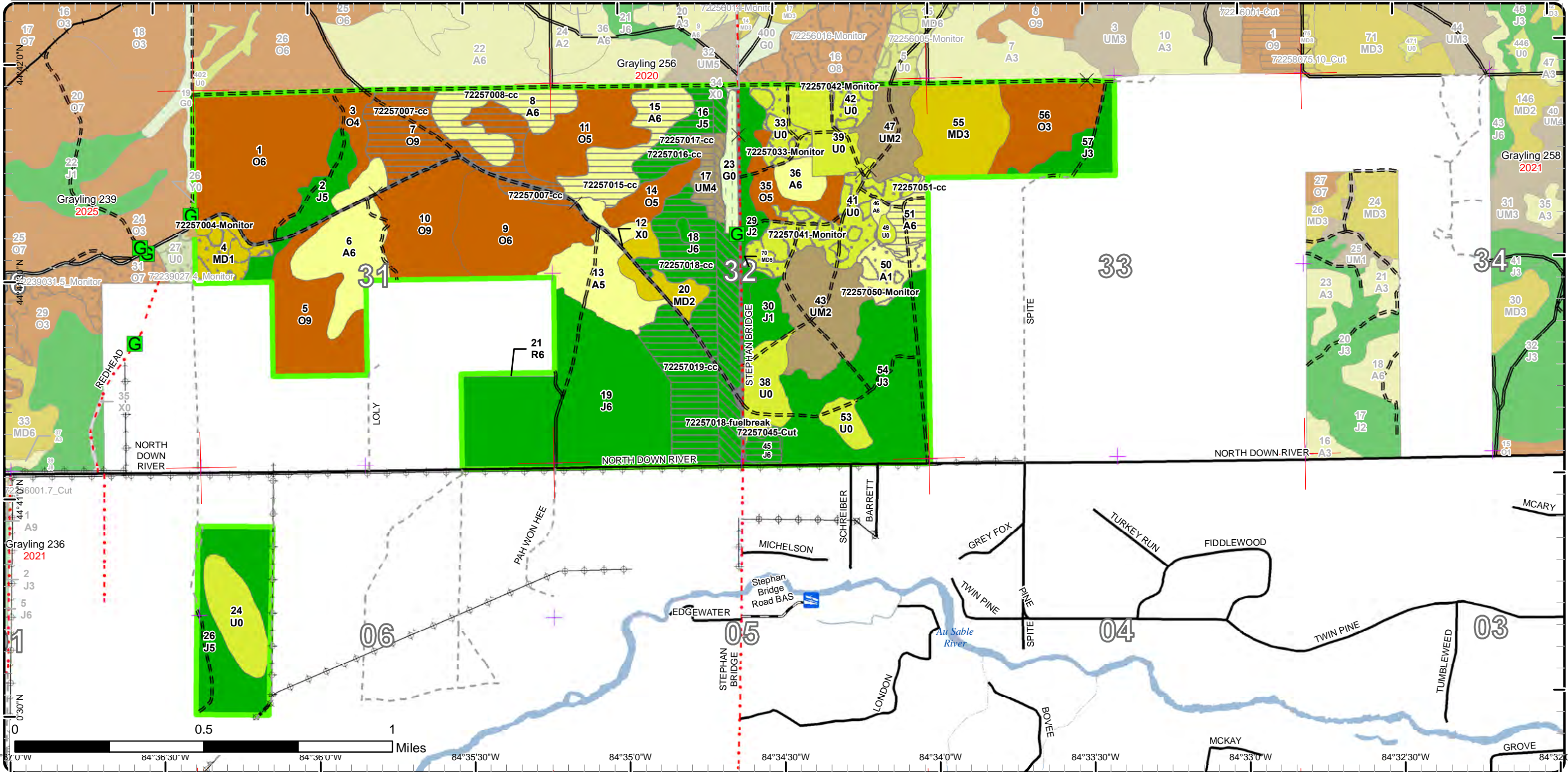
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 257
 T27N, R02W, Sec. 31-33
 T26N, R02W, Sec. 06
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1168.8 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 12/27/2022
 Map Phase: Post-Review

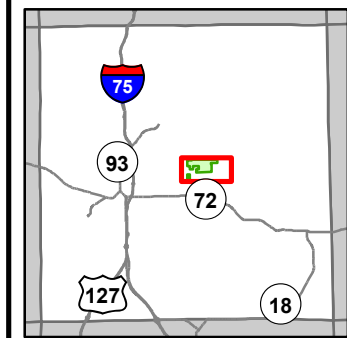


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Berms
- Gate
- Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- Camp Grayling Gates
- Camp Grayling Fence

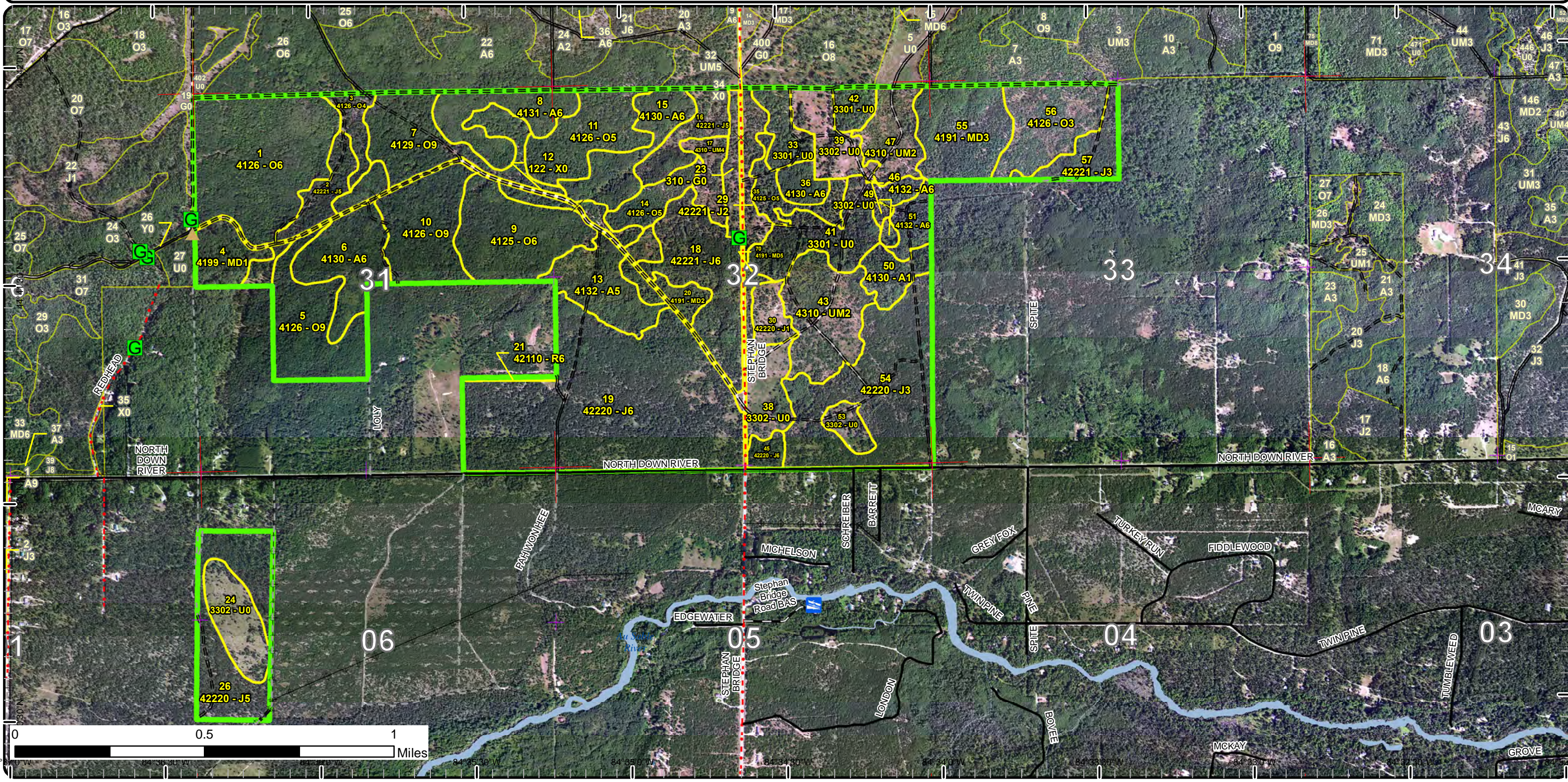


Stand Boundary Map

Compartment: 257
 T27N, R02W, Sec. 31-33
 T26N, R02W, Sec. 06
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
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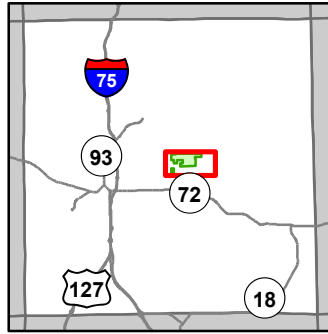


- Miris Corners
- + Remonumented Section Corners
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- DNR - Primary Forest Road
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- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- X Camp Grayling Gates
- Camp Grayling Fence

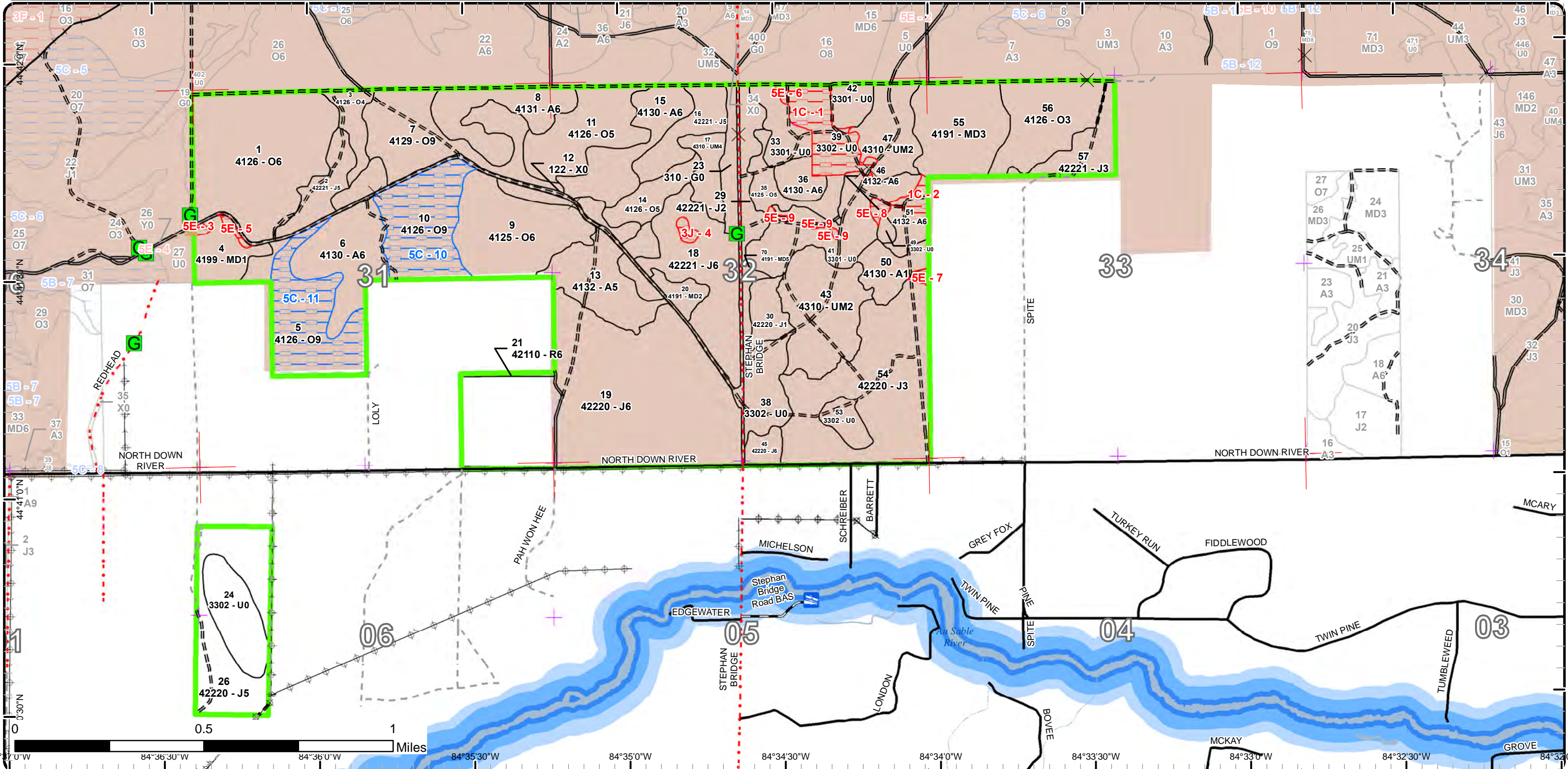


Special Conservation Areas

Compartment: 257
 T27N, R02W, Sec. 31-33
 T26N, R02W, Sec. 06
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2024
 Acres: 1168.8 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 12/27/2022
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ▲ Berms
- G Gate
- B Boating Access Site
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- X Camp Grayling Gates
- Camp Grayling Fence



0 0.5 1 Miles
 84°37'0"W 84°36'30"W 84°36'0"W 84°35'30"W 84°35'0"W 84°34'30"W 84°34'0"W 84°33'30"W 84°33'0"W 84°32'30"W 84°32'0"W



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	12	0	31	0	96	0	11	0	0	0	0	0	0	0	0	0	0	150
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	0	17	0	94	271	0	0	5	0	0	0	0	0	0	0	0	10	397
Low-Density Trees	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120
Mixed Upland Deciduous	0	15	13	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Oak	0	0	33	0	0	184	0	0	0	0	120	0	0	0	0	0	0	0	336
Red Pine	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	59	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	70
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	149	27	122	67	95	562	0	11	5	0	120	0	0	0	0	0	0	10	1167



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 257
Total Compartment Acres: 1,169

Commercial Harvest - 221
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	61	0	0	0	0	0	0	0	0	61
Jack Pine	79	0	0	0	0	0	0	30	0	109
Oak	44	0	0	0	0	0	0	0	0	44
Upland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Total	191	0	0	0	0	0	0	30	0	221

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	221	0	0	0	0	80	0	8	0	310
Next Step	0	0	0	39	0	186	0	30	0	255
Total	221	0	0	39	0	266	0	39	0	565



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

4	72257004-Monitor	13.1	4199 - Other Mixed Upland Deciduous	Sapling Poor	5	Immature	Monitoring	Natural Regen (Intermediate)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in RM-A-O with grassy opening inclusions. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
7	72257007-cc	43.8	4129 - Mixed Oak	Sawtimber Well	99	51-80	Harvest	Clearcut	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except RP-WP. Polygon south of road may be deferred until stand 10 is prescribed. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-RM-O <u>Regen:</u></p> <p><u>Other</u> Add standard Military specs (including UXO warning) and drumming log spec. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
8	72257008-cc	26.1	4131 - Aspen, Oak	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except RP-WP. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen with RM-O. <u>Regen:</u></p> <p><u>Other</u> Add standard Military specs (including UXO warning) and drumming log spec. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15 72257015-cc	25.5	4130 - Aspen	Poletimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2" + DBH except WO den trees & RP. If any WP is encountered, it may be left also. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate stocking in aspen with RM-O, along with poorly-stocked inclusions where the stand was sparse pre-harvest. <u>Other Comment:</u> Add standard Military specs (including UXO warning) and drumming log spec. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
16 72257016-cc	13.7	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	47	51-80	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2" + DBH except WO den trees & RP. If any WP is encountered, it may be left also. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate to low stocking in aspen, JP, oak & RM, along with non-stocked inclusions where the stand was sparse pre-harvest. <u>Other Comment:</u> Add standard Military specs (including UXO warning) and drumming log spec. Check MNFI layer and do not site landings within areas of known concern. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
17 72257017-cc	7.4	4310 - Pine, Oak Mix	Poletimber Poor	47	1-50	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2" + DBH. If any RP-WP are encountered, they may be left. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Moderate to low stocking in oak, JP & aspen, along with non-stocked inclusions where the stand was sparse pre-harvest. <u>Other Comment:</u> Add standard Military specs (including UXO warning). Check MNFI layer and do not site landings within areas of known concern. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	72257018-cc	26.6	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	47	51-80	Harvest	Clearcut	4132 - Aspen, Jack Pine	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stems 2" + DBH except RP and leave a tree-length buffer around the small bog (draft treatment boundary has been edited to approximate the intended exclusion). If any WP is encountered, it may be left also.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Moderate to low stocking in aspen, JP, oak & RM, along with non-stocked inclusions where the stand was sparse pre-harvest.</p> <p><u>Other Comment:</u> Add standard Military specs (including UXO warning) and drumming log spec. Check MNFI layer and do not site landings within areas of known concern.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
18	72257018-fuelbreak	30.3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	47	51-80	Harvest	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Harvest stems 2"+ DBH except leave oak that will withstand fuelbreak maintenance. Extend berms where needed to prevent vehicles from driving around the Military gates. Follow up with treatments to maintain a functional fuelbreak, such as brush hogging, mulching, and prescribed burning.</p> <p><u>Next Step Treatments:</u> NonForestMgt, Brush Cutting; Burn, Opening</p> <p><u>Acceptable Regen:</u> Fuelbreak conditions</p> <p><u>Other Comment:</u> Add standard Military specs, including no-waive chipping and UXO warning. Check MNFI layer and do not site landings within areas of known concern.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
19	72257019-cc	33.6	42220 - Natural Jack Pine	Poletimber Well	47	51-80	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stems 2" + DBH except RP. If any WP is encountered, it may be left also.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Low to moderate stocking in JP, oak, & aspen, along with non-stocked inclusions where the stand was sparse pre-harvest.</p> <p><u>Other Comment:</u> Add standard Military specs (including UXO warning). Check MNFI layer and do not site landings within areas of known concern.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
23 72257023-fuelbreak	8.4	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Brush Cutting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Follow up with treatments to maintain a functional fuelbreak, such as brush hogging, mulching, and prescribed burning. Extend berms where needed to prevent vehicles from driving around the Military gates.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Burn, Fuel Break</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Fuelbreak conditions</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
33 72257033-Monitor	12.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to low stocking in RM-A-O and conifers.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2031</p>										
41 72257041-Monitor	34.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen and mixed conifers, with prairie inclusions.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2031</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
42 72257042-Monitor	7.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to low stocking in RM-A-O and conifers. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> Proposed Start Date: 10/1 /2031</p>										
45 72257045-Cut	4.8	42220 - Natural Jack Pine	Poletimber Well	73	51-80	Harvest	Clearcut	42220 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest with no retention. Use military specifications. A narrow strip of this stand was planted next to North Down River Road. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Old next step comments: Hope to get some Jack Pine back. <u>Comment:</u></p> <p><u>Site Condition:</u> Proposed Start Date: 10/1 /2013</p>										
50 72257050-Monitor	12.4	4130 - Aspen	Sapling Poor	1	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen and mixed conifers, with prairie inclusions. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> Proposed Start Date: 10/1 /2031</p>										
51 72257051-cc	9.2	4132 - Aspen, Jack Pine	Poletimber Well	68	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2" + DBH except legacy pine. Buffer features as indicated. See Site Condition layer. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen & mixed pine, with poorly-stocked inclusions <u>Regen:</u></p> <p><u>Other</u> Add standard Military specs (including UXO warning) and drumming log spec. <u>Comment:</u></p> <p><u>Site Condition:</u> Proposed Start Date: 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 309.7

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 257
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	1C	3J	5E
151	146	0	5	Aspen		3		1
9	9	0	0	Herbaceous Openland				
399	397	0	3	Jack Pine			2	1
120	100	0	20	Low-Density Trees		19		1
65	63	0	2	Mixed Upland Deciduous				2
337	261	76	1	Oak	76			1
1	1	0	0	Red Pine				
66	66	0	0	Upland Mixed Forest		0		
20	20	0	0	Urban				0
1,169	1,063	76	30	Total Forested Acres	76	22	2	6
	91%	7%	3%	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	1C: Other dept or div proc/practices	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See additional comments.							
2	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See additional comments							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 257
Year of Entry: 2024

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer around small leatherleaf bog.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention island left for stand 50's 2014 YOE harvest.							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 41's 2014 YOE harvest.							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention islands left for stand 50's 2014 YOE harvest							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two-aged stand with significant immature pole component.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Compartment: 257

Joan Charlebois : Examiner

Year of Entry: 2024

11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two-aged stand with significant immature pole component.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	4126 - White, Black, N. Pin Oak	Poletimber Well	76.1	47	1-50	N/A	Stand burned in the 1975 North Down River Road Fire. An overstory removal harvest was carried out in 1997 (#063-94) to release the well established fire-regenerated understory. There is a lesser second age class across all species that regenerated from the harvest. RM was arbitrarily chosen to represent that second age class.																																																											
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2	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	17.5	47	51-80	N/A	Most of the stand regenerated following the 1975 North Down Rive Road Fire. Majority cover is JP-O pole regen from the fire, along with RP-O-JP residual saw. Second age drawn from adjacent stand 3's current WO age.																																																											
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3	4126 - White, Black, N. Pin Oak	Poletimber Poor	9.2	47	1-50	N/A	Burned in the 1975 North Down River Road Fire. Most of the cover is pole regen from the cut, with a second age class of residual saw. Mortality in the residual and regen NPO. Cover drifts off either side of 50% canopy closure.																																																											
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4	4199 - Other Mixed Upland Deciduous	Sapling Poor	15.2	5	Immature	N/A	Mixed oak stand w/ RM-A was final harvested in early 2017 (#617-14), cutting oak merch and other species 2"+ DBH, except green-marked & two retention islands. Regenerated to RM with patches of BTA and vigorous stump-sprout oak. Deer browse is concentrated on the single-stem oak, keeping it at seedling height. The stump-origin oak has recruited and is competitive with the RM-A. There are traces of large sap residual WO & RM.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
5	4126 - White, Black, N. Pin Oak	Sawtimber Well	39.1	94	81-110	N/A	Burned within the 1975 North Down Rive Road Fire. Cover is a mosaic of saw residual and pole regen from the fire. Enough of the canopy is saw-sized (>30%) that the stand must be called saw overall, even though there is a significant pole component. The stand occupies a series of ridges, and that topo influenced fire intensity. The proportion in residual vs regen changes with slope position and aspect. Oak quality increases on the upper slopes. Site quality decreases on the lower slopes. Fire scars common on the residual oak. The only species without representation in both age classes is the RM. Blurred boundary with stand 6 that burned at the same time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		10	Pole/Sap/Log	5	47	Witch Hazel		Trace	Variable	Tall Shrub	
Bigtooth Aspen		10	Pole/Log/Sap	6	47	White Oak		Low	Variable	Sapling	
Jack Pine		1	Log/Pole	10							
Red Oak		5	Log/XLog/Pole	14							
Black/Red (Hybrid) Oak		10	Log/Pole	12							
White Oak		54	Log/Pole	10	94						
Red Maple		10	Sapling/Pole	3	47						
6	4130 - Aspen	Poletimber Well	37.1	47	81-110	N/A	Burned within the 1975 North Down Rive Road Fire. Majority cover is A-O pole regen from the fire, with a second age class of O-A-JP saw residual. Second age estimate drawn from adjacent stand 5's current WO age. Blurred boundary with stands 5, 7 & 10 that burned at the same time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		1	Log/Pole	10		Witch Hazel		Trace	5 - 10 feet	Tall Shrub	
Red Maple		10	Sapling/Pole	3	47	White Oak		Low	Variable	Sapling	
White Oak		10	Log/Pole	11	94	Black/Red (Hybrid) Oak		Trace	< 5 feet	Sapling	
Black/Red (Hybrid) Oak		5	Log/Pole	12							
Bigtooth Aspen		70	Pole	6	47						
Red Oak		4	Log/Pole/XLog	15							
7	4129 - Mixed Oak	Sawtimber Well	43.8	99	51-80	N/A	Burned within the 1975 North Down Rive Road Fire. Cover is a mosaic of oak saw residual and A-RM-O pole regen from the fire. Traces of JP-RP. Enough of the canopy is saw-sized (>30%) that the stand must be called saw overall, although there is a significant pole component. Fire scars common on the residual oak. Cover is sparser in the valleys and along roads. Blurred boundary with stands 6 & 8 that burned at the same time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Sapling/Pole	3	47	White Oak		Low	Variable	Sapling	
Red Oak		30	Log/Pole/XLog	14	99	Serviceberry (Juneberry)		Trace	10 - 20 feet	Tall Shrub	
White Oak		20	Log/Pole	11		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Northern Pin Oak		5	Log/XLog/Pole	12							
Bigtooth Aspen		25	Pole	7	47						
8	4131 - Aspen, Oak	Poletimber Well	26.1	47	81-110	N/A	Burned within the 1975 North Down Rive Road Fire. Majority cover is A-O pole regen from the fire, with scattered residual oak saw. Traces of RP-JP. Not enough residual to break out a second age class. Blurred boundary with stands 7 & 11 that burned at the same time.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Sapling/Pole	3	47	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Red Oak		10	Pole	7							
White Oak		5	Pole/Sap/Log	6							
Bigtooth Aspen		70	Pole	7	47						



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9	4125 - Black, N. Pin Oak	Poletimber Well	43.2	47	51-80	N/A	Burned within the 1975 North Down River Road Fire. O-A-JP pole regen from the fire forms the main canopy, with scattered residual O-JP-RP saw. Stand occupies ridges and valleys. Best site quality is in the north & east; most of the aspen occurs there. JP increases in the valleys.																																																								
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10	4126 - White, Black, N. Pin Oak	Sawtimber Well	37.1	93	81-110	N/A	Burned within the 1975 North Down River Road Fire. Cover is a mosaic of saw residual and pole regen from the fire. Enough of the canopy is saw-sized (>30%) that the stand must be called saw overall, even though there is a significant pole component. The stand occupies a series of ridges, and that topo influenced fire intensity. The proportion in residual vs regen changes with slope position and aspect. Oak quality increases on the upper slopes. Site quality decreases on the lower slopes. Fire scars common on the residual oak. The only deciduous species without representation in both age classes is the RM. Blurred boundary with stands 6 & 9 that burned in the same fire.																																																								
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11	4126 - White, Black, N. Pin Oak	Poletimber Medium	31.2	47	1-50	N/A	Burned within the 1975 North Down River Road Fire. O-A pole regen from the fire forms the main canopy, with scattered residual WO small saw. Not enough residual to break out as a second age class. Drier site with poorer quality cover than the adjacent aspen stands.																																																								
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12	122 - Road/Parking Lot	Nonstocked	19.7	0	Unspecified	4199 - Other Mixed Upland Deciduous	Cleared road corridors.																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13	4132 - Aspen, Jack Pine	Poletimber Medium	31.0	27	1-50	N/A	Mature aspen stand w/ JP-O was final harvested in 1995 (#062-94), cutting stems 2"+ DBH. Regenerated to a mosaic of A-JP. Sparser inclusion in NW. BTA-O mainly in NE. Cover drifts off either side of 75% canopy closure.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	3	Sapling/Pole	4	
White Pine	1	Pole/Sap/Log	7	
Quaking Aspen	44	Sapling/Pole	4	27
Jack Pine	35	Pole/Sapling	6	27
White Oak	2	Sapling/Pole	3	
Red Maple	2	Sapling/Pole	3	27
Bigtooth Aspen	8	Pole/Sapling	5	27
Northern Pin Oak	5	Sapling/Pole	4	27

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	5 - 10 feet	Tall Shrub
Prairie Willow	Medium	< 5 feet	Tall Shrub

14	4126 - White, Black, N. Pin Oak	Poletimber Medium	12.0	47	1-50	N/A	Burned within the 1975 North Down River Road Fire. Oak pole regen from the fire forms the main canopy, with oak saw residual. Drier site and poorer quality cover than the adjacent aspen stand. Cover drifts off either end of 75% canopy closure. The residual saw is almost all WO, and most of it occurs in the south end of the stand. In order to record the second age class of WO and meet the MiFI "rule" of separation by 2 size classes, the younger WO canopy record had to be listed as sapling. If MiFI allowed recording what is actually out there, that canopy record would have been entered as WO 6" DBH Pole-Sapling.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Sapling	2	47
Bigtooth Aspen	2	Pole	5	47
Northern Pin Oak	40	Pole/Sapling	5	47
Jack Pine	5	Pole	6	
White Oak	15	Log	11	97
Red Pine	1	Pole/Sapling	6	
White Oak	35	Sapling	4	47

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

15	4130 - Aspen	Poletimber Well	25.5	47	81-110	N/A	Burned within the 1975 North Down Rive Road Fire. Majority cover is BTA pole regen from the fire, with scattered residual saw. That residual is mostly WO, with traces of NPO & BTA. Not enough residual to break out as a second age class. The RP-JP is mainly in the valley.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	3	47
Black/Red (Hybrid) Oak	2	Pole	6	47
Bigtooth Aspen	80	Pole	7	47
Red Pine	1	Log/Pole/XLog	16	
Jack Pine	2	Pole/Log/Sap	6	
Northern Pin Oak	1	Log/Pole	14	
White Oak	4	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	5 - 10 feet	Tall Shrub
White Oak	Trace	Variable	Sapling

16	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	16.7	47	51-80	N/A	Burned within the 1975 North Down River Road Fire. JP-A-O pole regen from the fire forms the main canopy, with scattered residual O-A-JP saw. Not enough residual to break out as a second age class. LDT inclusions separating patches of dense cover drag the canopy closure down into the 50-75% range.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	5	Log/Pole	12	
Bigtooth Aspen	11	Pole	6	
Northern Pin Oak	10	Pole/Sap/Log	6	
Jack Pine	70	Pole	6	47
Red Maple	2	Sapling/Pole	3	47

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
17	4310 - Pine, Oak Mix	Poletimber Poor	10.8	47	1-50	N/A	The stand burned within the 1975 North Down River Road Fire but only part of the canopy was killed. The surviving residual was final harvested in 2004 (#004-04), cutting merch stems. Removing the overstory released pockets of post-fire (now pole) JP-O regen and started a new age class of post-harvest (sapling) JP-O regen. The fire-origin JP-O pole cover forms the main canopy. Some of the regen from the cut has reached into the canopy. When the rest of the regen recruits, the canopy closure will shift into the 50-75% category.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	5	Sapling	2		Prairie Willow	Low		< 5 feet	Tall Shrub
White Oak	5	Pole/Sapling	6		Jack Pine	Medium		5 - 10 feet	Sapling
Quaking Aspen	2	Pole/Sapling	6	47	Black Cherry	Low		5 - 10 feet	Tall Shrub
Jack Pine	58	Pole/Sapling	6	47					
Northern Pin Oak	30	Sapling/Pole	2	18					
18	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	43.5	47	51-80	N/A	Burned in the 1975 North Down River Road Fire. Low-density residual that survived the fire in the stand's NW was harvested in 2004 (#004-04). The current canopy is almost all post-fire in origin: JP with small aspen clones (largest clone is 3.5 acres). The stand is dotted with small canopy gaps. There is a leatherleaf bog in the NW and a low swale with tag alder and grey dogwood in the NE along Stephan Bridge Road.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	22	Pole	6	47	Tag Alder	Trace		10 - 20 feet	Tall Shrub
Jack Pine	60	Pole	6	47	Prairie Willow	Trace		< 5 feet	Tall Shrub
White Oak	2	Pole/Sapling	6		Leatherleaf	Trace		< 5 feet	Tall Shrub
Bigtooth Aspen	1	Pole/Log	8		Black Cherry	Low		Variable	Tall Shrub
Red Maple	5	Sapling/Pole	4	47	White Oak	Trace	Variable	Sapling	
19	42220 - Natural Jack Pine	Poletimber Well	151.8	47	51-80	N/A	Burned in the 1975 North Down River Road Fire. The current canopy is almost all post-fire in origin, along with a few narrow vortex islands that survived the fire. The JP cover is variable and dotted with small openings. Over-stocked areas are self-thinning. Open-grown form is common in lower-stocked areas toward North Down and Stephan Bridge roads. There are small clones of aspen along the north edge. Most of the fire-regenerated oak occurs on the hill in the NE along with scattered residual NPO, JP & QA sawtimber that survived the fire. Traces of RP.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	90	Pole	6	47	Jack Pine	Trace		5 - 10 feet	Sapling
Quaking Aspen	5	Pole	7	47	Black Cherry	Low		5 - 10 feet	Tall Shrub
Northern Pin Oak	5	Pole/Sap/Log	7						
20	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.3	18	Immature	N/A	The stand burned within the 1975 North Down River Road Fire but only part of the canopy was killed. The surviving residual was final harvested in 2004 (#004-04), cutting merch stems. Removing the overstory started a new age class of JP-O-A regen and released fire-origin O-JP.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	20	Sapling	2	18	Prairie Willow	Medium		< 5 feet	Tall Shrub
Northern Pin Oak	30	Pole/Sapling	6	47	Black Cherry	Low		5 - 10 feet	Tall Shrub
Jack Pine	35	Sapling	3	18					
White Oak	5	Sapling/Pole	3						
21	42110 - Planted Red Pine	Poletimber Well	1.4	32	81-110	N/A	Roughly a dozen rows of planted RP. Carried forward the previous inventory age, but a MiFI rule prevented coding it as Previous Inventory.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Pine	95	Pole	6	32					
Jack Pine	5	Pole	7						
23	310 - Herbaceous Openland	Nonstocked	8.8	0	Unspecified	No	Fuelbreak was cleared spring 2021 (#616-14), cutting stems 2"+ DBH. Harvest contract still open. Big and little bluestem. Trace of JP saplings along the county road.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	3302 - Low Density Conifer Trees	Nonstocked	21.0	0	Unspecified	No	Stand was final harvested in 1973 (#004-73 & #023-73), cutting merch JP. The JP that regenerated was subsequently burned in a 1990s wildfire. The opening is slowly being colonized by JP, with scattered BC and traces of NPO-RP.
26	42220 - Natural Jack Pine	Poletimber Medium	41.4	49	51-80	N/A	Stand was final harvested in 1973 (#004-73 & #023-73), cutting merch JP. The regen was sprayed to control JP budworm in 1982 (W71-187). Most of the NPO occurs in the stand's NE, along with the traces of RP-WO-WP. There is a pocket of older residual JP on the center-east edge.
29	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	16.6	18	1-50	N/A	The stand burned within the 1975 North Down River Road Fire but only part of the canopy was killed. The surviving residual was harvested in 2004 (#004-04), cutting merch stems. Removing the overstory started a new age class of JP-O-A regen and released fire-origin JP-O. NPO was arbitrarily chosen to represent the 2nd age class that is present across all species. Trace of low ground with tag alder and musclewood along Stephan Bridge Road.
30	42220 - Natural Jack Pine	Sapling Poor	9.6	32	Immature	N/A	Large opening burned in the 1975 North Down River Road Fire, then the south end burned in the 1990 Stephan Bridge Road Fire. JP has been colonizing the opening for decades, resulting in multiple age classes. MiFI required a dominant age be listed, so the JP was set to the 1990 fire, and the NPO to the 1975 fire.
33	3301 - Low Density Deciduous Trees	Nonstocked	12.6	0	Unspecified	4199 - Other Mixed Upland Deciduous	Mature oak stand was seed tree harvested in spring 2021 (#616-14), cutting stems 2"+ DBH except green-marked (20 BA cruised residual oak), RP, & a sub-acre retention island in the NE. Contract still open at time of re-inventory. After only one growing season and deer browse this winter, a majority of the regen is unrecordable in the canopy. This summer should see enough of the regen crossing the 3-ft threshold to move the stand into the 25-50% Forested category. Failed regen survey (6-ft min height standard). Carried forward previous inventory age on the residual oak.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
35	4125 - Black, N. Pin Oak	Poletimber Medium	13.1	47	51-80	N/A	Burned within the 1975 North Down River Road Fire. O-JP-A pole regen from the fire forms the main canopy, with scattered residual saw. Not enough residual to break out as a second age class. Boundary picks up a retention island from the adjacent harvest (captured in the Site Condition layer).																																																
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38	3302 - Low Density Conifer Trees	Nonstocked	16.9		Unspecified	No	North end of the opening burned in the 1975 North Down River Road Fire, then the entire opening re-burned in the 1990 Stephan Bridge Road Fire. JP has been colonizing the opening, along with NPO and traces of aspen.																																																
39	3302 - Low Density Conifer Trees	Nonstocked	18.8		Unspecified	No	This originally 22-acre field has been shrinking as tree cover continues to colonize the edges. Patches of JP & NPO, traces of RP & aspen. BC & other Prunus species throughout. Big & little bluestem. Heavy tracked vehicle traffic in the past. See Site Condition layer.																																																
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41	3301 - Low Density Deciduous Trees	Nonstocked	34.6	0	Unspecified	4136 - Aspen, Mixed Conifer	Mature JP-A stands were final harvested in 2021 (#616-14), cutting stems 2"+ DBH except RP-WP > 18" DBH and retention islands. Not enough regen has crossed the 3' height threshold to call the stand forested overall, but it should reach that after the aspen grows another season. The oak has been heavily browsed, the aspen less so. BTA in the NE was kept below 3' by shoot blight.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 3301 - Low Density Deciduous Trees Nonstocked 7.6 0 Unspecified 4199 - Other Mixed Upland Deciduous

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	>20 feet	Log
Red Maple	Trace	10 - 20 feet	Sapling
White Oak	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	>20 feet	Log
Red Pine	Trace	>20 feet	Log
Red Maple	Medium	< 5 feet	Seeding
Bigtooth Aspen	Medium	< 5 feet	Seeding
Bigtooth Aspen	Low	< 5 feet	Sapling
White Oak	Medium	< 5 feet	Seeding

Mature oak stand was seed tree harvested in spring 2021 (#616-14), cutting stems 2"+ DBH except green-marked (20 BA cruised residual oak) & RP. Contract still open at time of re-inventory. After only one growing season and deer browse this winter, a majority of the regen is unrecordable in the canopy. This summer should see enough of the regen crossing the 3-ft threshold to move the stand into the 25-50% Forested category. Failed regen survey (6-ft min height standard). Carried forward previous inventory age on the residual oak.

43 4310 - Pine, Oak Mix Sapling Medium 37.9 18 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Sapling	2	18
Northern Pin Oak	20	Sapling/Pole	3	
Jack Pine	50	Sapling/Pole	3	18
Black Cherry	5	Sapling	2	
White Oak	10	Sapling/Pole	4	47

Mature JP stand was final harvested in 2004 (#004-04), cutting merch stems. The cover is a mix of regen and residual from the cut. The 1975 North Down River Road Fire and the 1990 Stephan Bridge Road Fire burned portions of the stand, and the 2004 harvest released regen from those fires. WO was arbitrarily chosen to represent a second age class that is present across most species in the stand. There is a sparse inclusion in the stand's SE. The deciduous component increases in the

45 42220 - Natural Jack Pine Poletimber Well 5.1 73 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	98	Pole	8	73	Oak (spp.)	Medium	Variable	Sapling
Northern Pin Oak	2	Pole	6		Jack Pine	Low	Variable	Sapling

Currently on contract (expires April 30, 2022). After the treatment is closed, this stand will be merged with stand 54. Aside from an approx. chain-wide strip of overmature JP that survived the 1990 fire along North Down & Stephan Bridge roads (1.5 acres), the cover is the same as stand 54.

46 4132 - Aspen, Jack Pine Poletimber Well 1.4 65 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Pole/Sap/Log	9		Red Pine	Low	Variable	Sapling
Northern Pin Oak	10	Pole/Sap/Log	8		Black Cherry	Low	Variable	Tall Shrub
Red Pine	2	Log	1		Oak (spp.)	Low	Variable	Sapling
Bigtooth Aspen	60	Pole/Log/Sap	9	65	Paper Birch	Low	Variable	Sapling
Jack Pine	26	Pole	8		Jack Pine	Low	Variable	Sapling

Retention island for the adjacent harvest. Will merge once the sale is closed. Maintaining the stand number so that the current harvest treatments don't become disassociated from the stands layer.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	4310 - Pine, Oak Mix	Sapling Medium	20.7	18	1-50	N/A	Mature JP-O stand was final harvested in 2004 (#004-04), cutting merch stems. Majority cover is sapling regen from the cut, with a second age class of small-pole residual from the cut represented across all species. Variable distribution in JP-O with small patches of aspen. There is a poorly-stocked inclusion in the SE, on ground that used to be maintained open along with stand 39.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
Quaking Aspen		4	Sapling		2	18		Prairie Willow	
White Oak		10	Sapling/Pole		3			Trace	
Red Pine		1	Sapling		4			< 5 feet	
Jack Pine		54	Sapling/Pole		3	18		Tall Shrub	
Black Cherry		10	Sapling/Pole		3				
Northern Pin Oak		20	Pole/Sapling		5	34			
Bigtooth Aspen		1	Pole/Sapling		6				
49	3302 - Low Density Conifer Trees	Nonstocked	1.8		Unspecified	No	Opening with BC & prairie willow, being colonized by JP, RP, WP, QA & NPO.		
50	4130 - Aspen	Sapling Poor	12.4	1	Immature	N/A	A-MC stand was final harvested in 2021 (#616-14), cutting stems 2"+ DBH except RP-WP and boundary-excluded retention (merged that retention with stand 54 but captured it in the Site Condition layer). Xlog RP-WP were left scattered across the stand. Enough of the aspen regen met the 3' min height standard to be recorded as forested canopy. After another growing season, cover should cross into the 50-75% category. The portion east of the two-track is sparser. Contract still open; with scattered bundles yet to skid.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
Black Cherry		5	Sapling		1			Quaking Aspen	
White Pine		1	XLog		26			Medium	
White Pine		1	Sapling		1			Low	
Quaking Aspen		90	Sapling		1	1		< 5 feet	
Red Pine		3	XLog/Log		22		Tall Shrub		
51	4132 - Aspen, Jack Pine	Poletimber Well	9.7	68	81-110	N/A	Most of the stand originated following a mid-1950's wildfire. The 1975 North Down River Road Fire partially re-burned the stand, starting a second age class. JP was made the surrogate to represent the 2nd age class that is present in the aspen. A MiFI limitation won't allow the two ages classes to be represented within the same species. The overmature aspen is breaking up. JP increases in the NE, cored out to be mid-1950's in origin.		
Canopy Species		% Cover	Size Class		DBH	Age		Sub-Canopy Species	
Quaking Aspen		60	Pole/Log		9	68		Black Cherry	
Northern Pin Oak		5	Pole/Sap/Log		7			Medium	
White Pine		5	Pole		8			Variable	
Red Pine		5	XLog/Log/Pole		22			Variable	
Jack Pine		20	Pole		8	47		Sapling	
White Oak		1	Pole		8			Sapling	
Bigtooth Aspen		4	Log/Pole		10			Sapling	
53	3302 - Low Density Conifer Trees	Nonstocked	7.1		Unspecified	No	Burned within the 1990 Stephan Bridge Road Fire. The stand encompasses the core of a site where manufacturing waste was found to have been abandoned before the company left the state in the late 1970s. The pitted disturbed ground has vegetated over with grass and sweetfern. JP has been colonizing from the edges and there are a few small patches of planted RP. BC brush is scattered across the stand. There are a few apple trees and traces of QA & balsam poplar.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
54	42220 - Natural Jack Pine	Sapling Well	78.1	32	1-50	N/A	Burned in the 1990 Stephan Bridge Road Fire. Regenerated to JP, with small aspen clones. The largest clone is 3 acres, in the NW corner. The stand is dotted with small non-forested openings. The narrow strips of residual JP that survived the fire have been dropping out of the canopy. An acre retention island split off from stand 50 was merged into the NE end of this stand and is captured in the Site Conditions layer.																																																							
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55	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	36.2	27	1-50	N/A	Oak-JP-A stand was final harvested in 1995 (#062-94), cutting oak merch and other species 2"+ DBH. Regen from the cut forms the main canopy, with now-pole residual scattered above. Most of the residual was WO. Oak regen occurs throughout but is variably distributed. The aspen occurs mainly in the N1/3. The JP occupies a valley that cuts through the middle of the stand.																																																							
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56	4126 - White, Black, N. Pin Oak	Sapling Well	32.5	18	Immature	N/A	Oak-JP stand was final harvested in 2004 (#004-04), cutting merch stems. The canopy is mainly regen from the cut, with scattered pole residual. The WO regen has a stump-origin component from the cut but most of it is single-stem origin and occurs in densely-stocked patches. The 1990 Stephan Bridge Road Fire burned into the SE edge of the stand.																																																							
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57	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	15.8	32	1-50	N/A	The stand regenerated following the 1990 Stephan Bridge Road Fire. The fire left widely-scattered residual RP, WO & JP saw. The oak regen component increases on the upper slopes.																																																							
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70	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	0.0	18	1-50	N/A	Most of the stand burned within the 1975 North Down River Road Fire. It was final harvested in 2004 (#004-04), cutting merch stems.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	15	Sapling	3	18
Black Cherry	20	Sapling/Pole	4	
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