



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72289

Entry Year 2026

Acreage: 1,066

County: Crawford

Management Area: High Sand Plains

Stand Examiner: Jake Halabut

Legal Description:

T28N R1W Sections 25, 26 Northeast Lovells Township, Crawford County

Identified Planning Goals:

To maintain species and structural diversity while managing for health, productivity, and sustainability throughout the compartment. To provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

Soil and topography:

The soil types within the compartment, consists of large pockets of Grayling Sands, Graycalm-Grayling Sands and Graycalm Sands. Topography within this compartment consists of rolling terrain in the west half and level terrain in the east half. The east half of the compartment is broken up by a flooded creek bottom known as the Big Creek Impoundment.

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

This compartment consists of solid state ownership except for the SE1/4 of Section 26, which is a privately owned subdivision. Lands that surround the compartment, primarily consists of solid state ownership as well. The privately owned lands contain several seasonal structures and are used for seasonal recreation.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

The Big Creek Impoundment and the Middle Branch of Big Creek are two concerns due to fisheries and BMP's.

Watershed and Fisheries Considerations:

The south half of the Big Creek Impoundment is located in the north east portion of Section 25 of the compartment. The Middle Branch of Big Creek flows into the impoundment from the north and out the south end. A designated trout stream, the Middle Branch of Big Creek, eventually flows into the AuSable River to the south. There is also a pond or kettlehole located in the NWNW Section 26.

Wildlife Habitat Considerations:

The primary objective is to manage and maintain existing cover types within the compartment to improve habitat conditions for a wide variety of wildlife.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The closest known active sand/gravel operations are roughly four miles west. There is some good potential for sand & gravel within the compartment on the uplands. The closest oil & gas production, past or present, is more than one mile north. The compartment is south of the main Antrim Shale gas play. Sparse oil & gas test drilling has occurred in and around the compartment. No well permits have been issued recently in the area, no current leasing activity involving State-owned minerals exists within the compartment, and potential for future production of hydrocarbons from beneath the compartment is considered low at this time.

Vehicle Access:

Walsh Road and Pickeral Lake Road are the two county roads that access the compartment. Several two track roads accessed off these two county roads traverse through most all of the compartment. Access to the compartment can also be made from the designated snowmobile trail located a ¼ mile west of the compartment.

Survey Needs:

Survey request has been submitted for J11 of T28N R01W S26 for timber sale and a trespass.

Recreational Facilities and Opportunities:

The North Spur of the Shore to Shore Riding and Hiking Trail is located within Section 25 on Walsh Road. Stand 28 hosts Walsh Road Trail Camp. Part of the Roll Trail, designated snowmobile trail #4, is located east of the Big Creek Impoundment in the NE of Section 25. The Midland to Mackinac Hiking Trail and a designated snowmobile trail are located approximately ¼ mile west and south of the compartment. Recreational opportunities include fishing, hiking, horse-back riding, bird-watching, snowmobiling and hunting. .

Fire Protection:

Lovell's Volunteer Fire Department and the Greenwood Township, Oscoda Volunteer Fire Departments are the closest township fire departments for response to a wildfire. Wildfire protection falls under the Grayling and Mio MDNR offices. The Big Creek Impoundment is the closest water source for fire protection.

Additional Compartment Information:

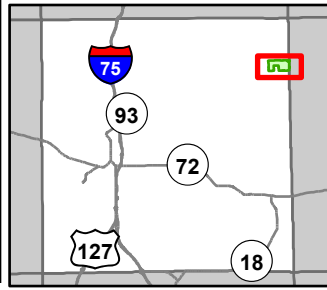
The following reports from the Inventory are attached:

- 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**

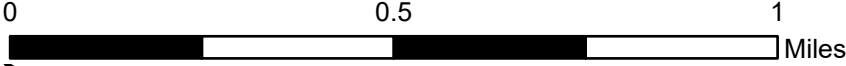
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 72289
 T28N, R1W, Sec: 25, 26
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1066 GIS Calculated
 Examiner: Jake Halabut
 Map Revised: 10/3/2024
 Map Phase: Post Review



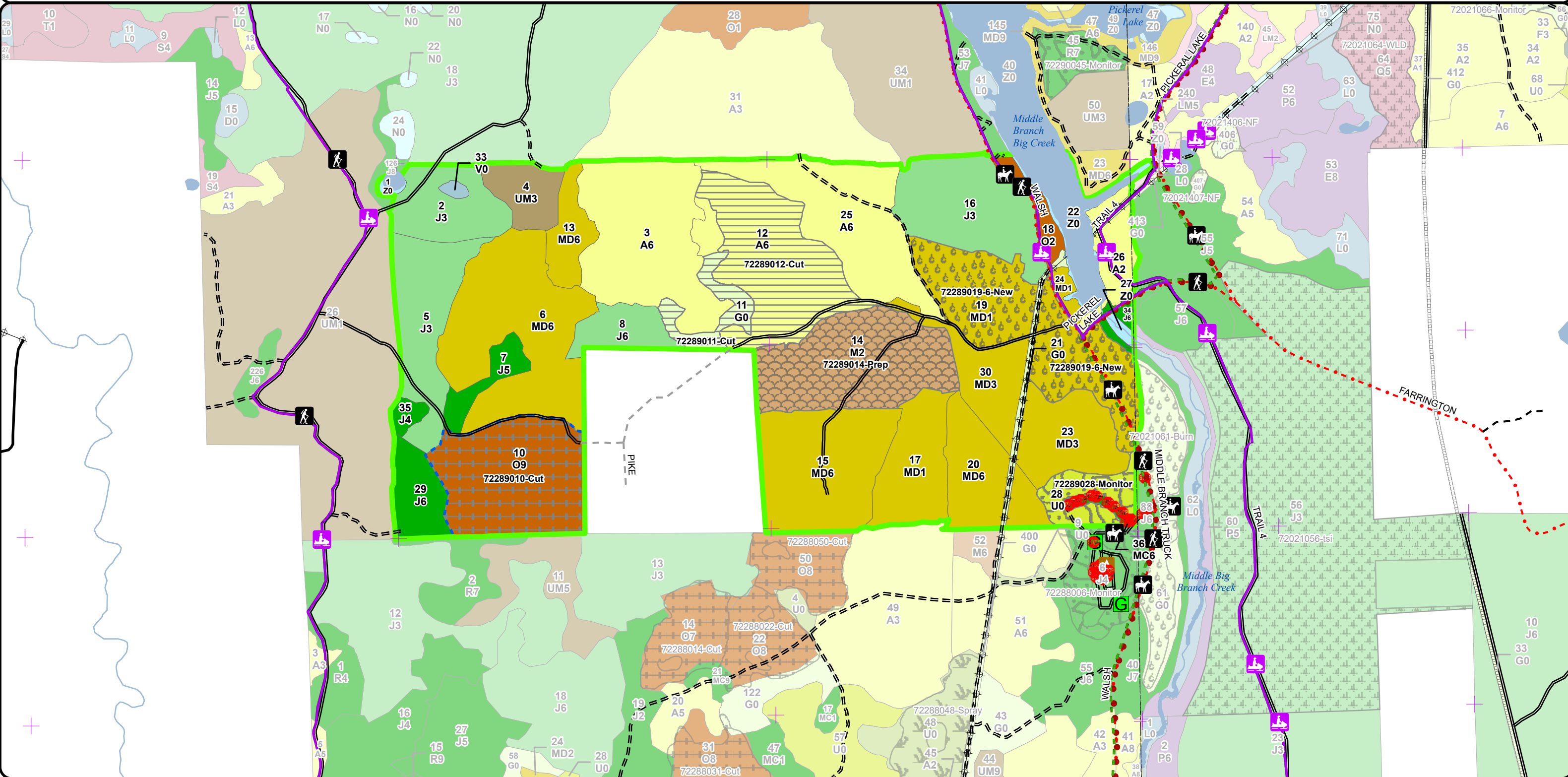
- Gate
- Campground
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- Snowmobile Trails

- Designated Equestrian Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road

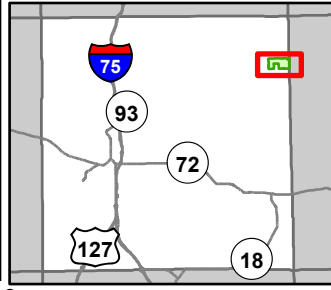
- Intermittent Pond
- Lake/Pond
- Perennial River
- Pipeline
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions

- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Prescribed Burn
- Regeneration Survey
- Site Prep
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types

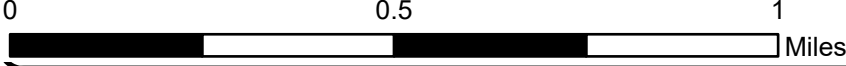
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



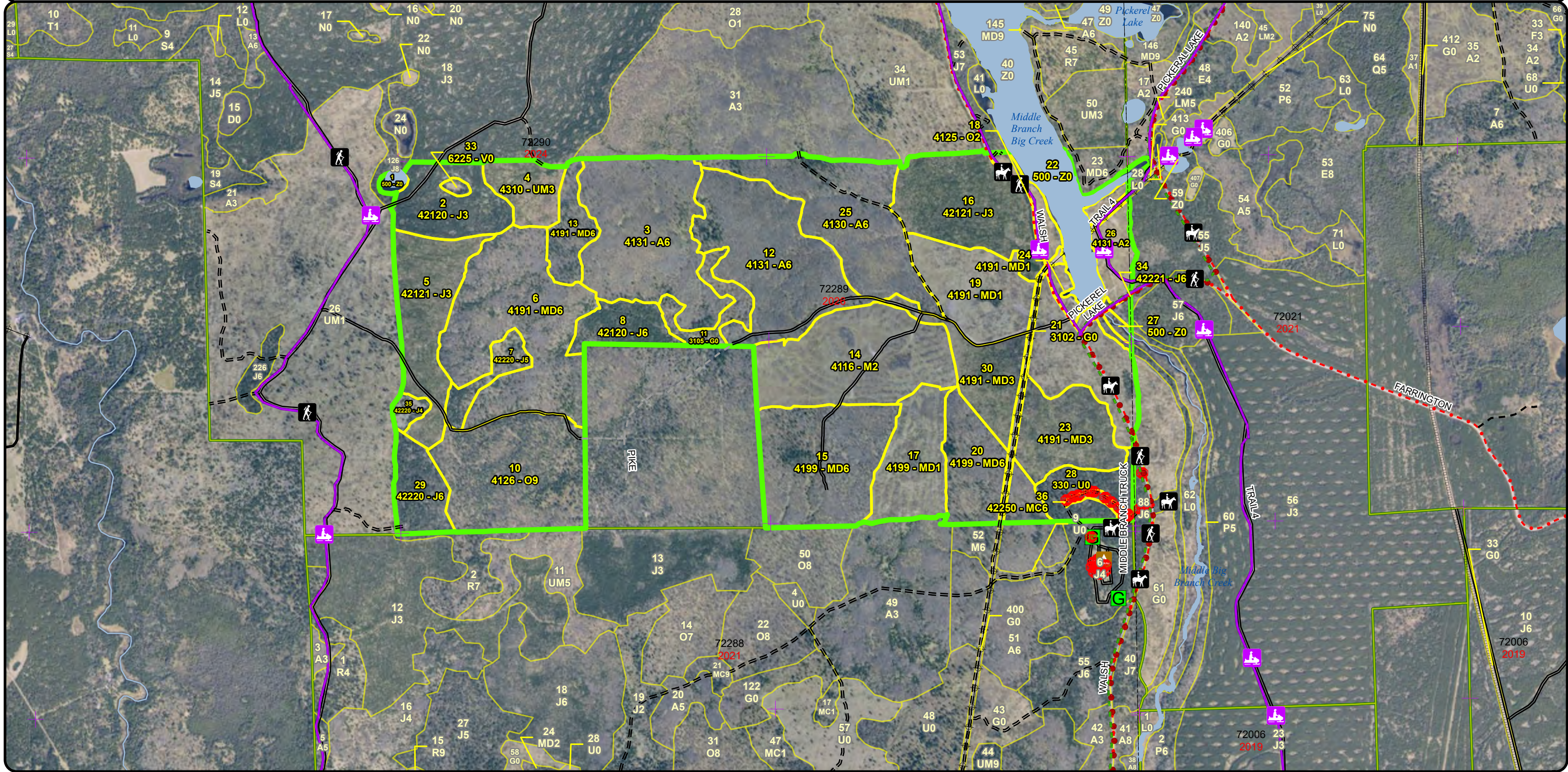
Stand Boundary Map



Compartment: 72289
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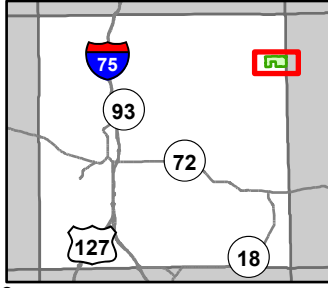


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|------------------------------|---------------------------------------|-------------------------|------------------------------|
| Gate | Designated Snowmobile Trails | Perennial River | 419 - Mixed Upland Deciduous |
| Campground | DNR - Secondary Forest Road | Pipeline | 421 - Planted Pines |
| Sign | DNR - Forest Access Route | Powerline | 422 - Natural Pines |
| Remonumented Section Corners | Federal / State / County - Paved Road | Lakes and Rivers | 430 - Upland Mixed Forest |
| Hiking Trails | Federal / State - Dirt / Gravel Road | Compartment Boundary | 310 - Herbaceous Openland |
| Horse Trails | County - Gravel Road | Stand Boundaries | 330 - Low Density Trees |
| Snowmobile Trails | Private - Dirt / Gravel Road | 411 - Northern Hardwood | 500 - Water |
| Designated Equestrian Trails | Intermittent Pond | 412 - Oak Types | 622 - Lowland Shrub |
| | Lake/Pond | 413 - Aspen Types | |



Special Conservation Areas & Site Conditions Map

Compartment: 72289
 T28N, R1W, Sec: 25, 26
 County: Crawford
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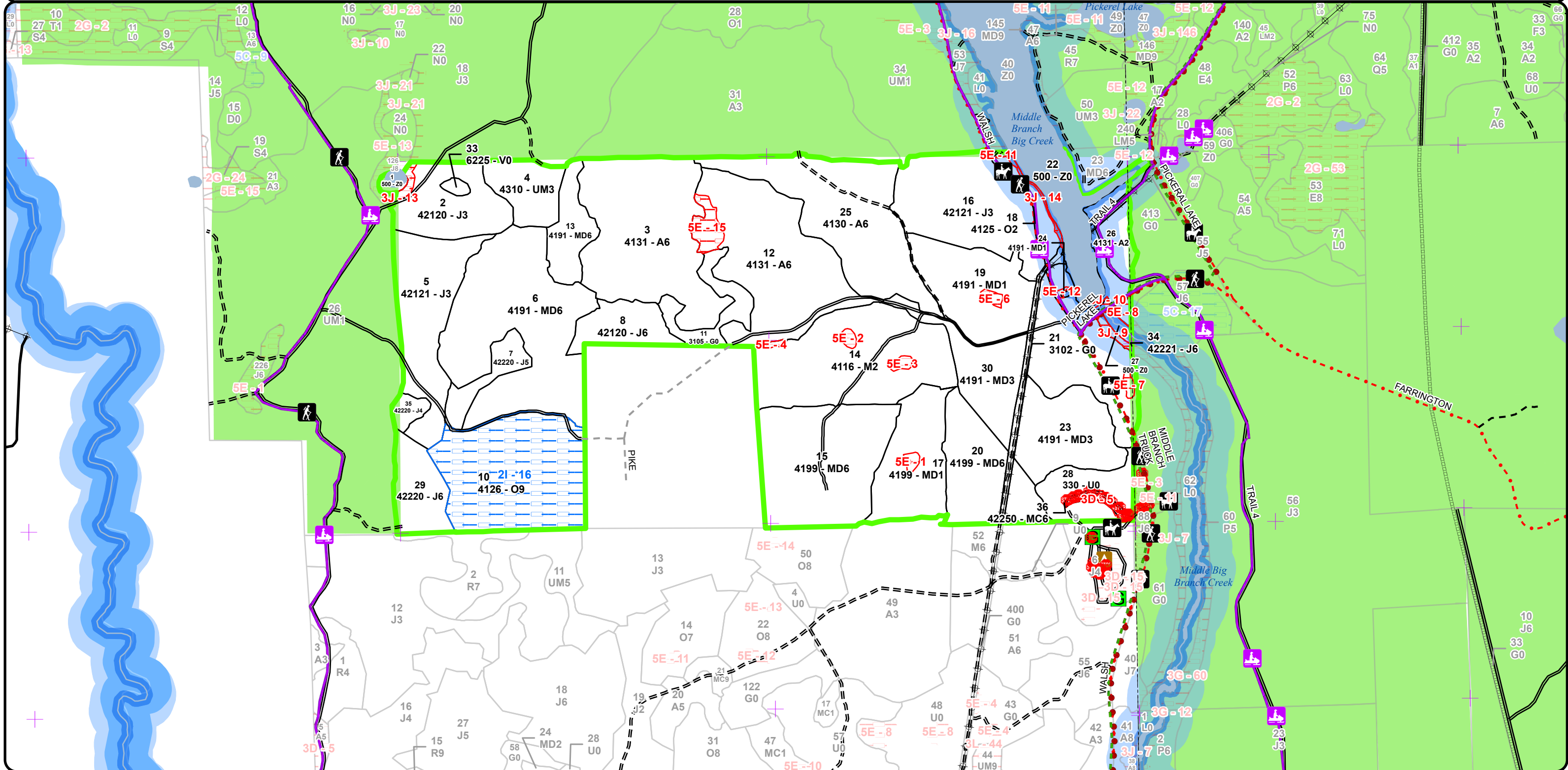
0 0.5 1 Miles

- Gate
- Campground
- Sign
- Remonumented Section Corners
- Hiking Trails
- Horse Trails
- Snowmobile Trails
- Designated Equestrian Trails

- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Pond
- Lake/Pond

- Perennial River
- Pipeline
- Powerline
- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed

- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



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	18	0	0	0	222	0	0	0	0	0	0	0	0	0	0	0	0	240
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	100	0	43	37	0	8	0	0	0	0	0	0	0	0	0	0	188
Low-Density Trees	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed Upland Deciduous	0	120	62	0	192	0	16	0	0	0	0	0	0	0	0	0	0	0	390
Natural Mixed Pines	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
Oak	0	9	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	79
Upland Mixed Forest	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Total	77	218	180	0	235	259	16	8	3	70	0	0	0	0	0	0	0	0	1065



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 289

Total Compartment Acres: 1,066

Commercial Harvest - 85
 Harvests with Site Condition - 70
 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	72	0	0	0	0	0	0	0	0	72
Herbaceous Openland	14	0	0	0	0	0	0	0	0	14
Oak	0	0	0	0	0	0	70	0	0	70
Total	85	0	0	0	0	0	70	0	0	156

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Pruning	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	156	71	0	0	80	0	19	0	0	325
Next Step	0	71	162	0	0	71	312	0	85	701
Total	156	143	162	0	80	71	330	0	85	1027



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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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Proposed Treatments:

10	72289010-Cut	70.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	80	51-80	Harvest	Overstory Removal	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Overstory removal: species removal of all merchantable oak, leave all pine, in order to release the advanced red pine regen and recruited pine in the midstory.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to well stocked stand of mixed pine, oak, aspen, and maple (in order of desirability).</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect regen spec</p> <p><u>Comment:</u> Roundwood only harvest Add Oak wilt spec Add trail spec for haul route.</p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
11	72289011-Cut	13.8	3105 - Mixed Upland Herbaceous	Nonstocked		Unspecified	Harvest	Clearcut with Retention	310 - Herbaceous Openland		No
<p><u>Prescription</u> Clearcut with retention with retention only including leave trees to be determined by wildlife. Cut all species 2" and greater at DBH. Harvest treatment is being used on this due to the size and nature of encroaching woody vegetation.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any regen will be acceptable and then maintained by WLD through general opening maintenance.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add shrub protection</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
12	72289012-Cut	71.5	4131 - Aspen, Oak	Poletimber Well	46	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut with standard retention. Cut all species 2" in diameter and greater except for red and white pine. Focus area retention in one of the areas where oak stems are higher density.</p> <p><u>Specs:</u> - Mark to leave at ~5 BA of oak as residual retention, with a focus on white oak.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A moderate stocking of aspen, mixed oak, maple, and pine will be acceptable regen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Add drumming log spec.</p> <p><u>Comment:</u> Retention location already drawn in on MIFI</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
14 72289014-Prep	71.4	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	5	Immature	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Covertypes conversion to planted red pine due to undesirable existing regeneration due to browse.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use; SitePrep, Roller Chopping; NonForestMgt, Brush Cutting; Planting, Initial Plant; Planting, Replant;</p> <p><u>Treatments:</u> Pesticide, Skidder - Site Prep</p> <p><u>Acceptable</u> Fully stocked planted red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Roller chopping may be necessary if we can't get in and spray it soon.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

19 72289019-6-New	79.5	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	5	Immature	Burn	Opening	310 - Herbaceous Openland		No
<p><u>Prescription</u> Burn periodically in order to promote dry sand prairie and pine barrens species and set back woody plant succession.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Dry sand prairie and pine barrens natural communities.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
28 72289028-Monitor	18.9	330 - Low-Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Uneven-Aged	No
<p><u>Prescription</u> regen survey</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Re-Inventory); Planting, Underplant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Let stand regenerate naturally. Hand plant red pine throughout stand.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 325.3

Report 4 – Site Conditions

Grayling Mgt. Unit
 Jake Halabut: Examiner

Compartment: 289
 Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2I	3D	3J	5E
241	235	0	5	Aspen			0	5
2	2	0	0	Bog				
22	22	0	0	Herbaceous Openland				
188	183	0	5	Jack Pine			4	2
19	19	0	0	Low-Density Trees		0		
390	387	0	3	Mixed Upland Deciduous			0	3
3	0	0	2	Natural Mixed Pines		2		
71	69	0	3	Northern Hardwood				3
79	7	70	2	Oak	70		1	0
18	18	0	0	Upland Mixed Forest				
33	33	0	0	Water				
1,066	975	70	21	Total Forested Acres	70	3	5	13
	91%	7%	2%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Grayling Mgt. Unit
Jake Halabut: Examiner

Compartment: 289
Year of Entry: 2026



4	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3D: Recreational / Scenic values	3	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:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Jake Halabut: Examiner

Compartment: 289
Year of Entry: 2026



11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ around pond.							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2I: Survey needed	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	500 - Water	Nonstocked	2.2			No																																																
2	42120 - Planted Jack Pine	Sapling Well	31.5	38		N/A	Previous inventory indicates this stand was planted 1986. JP is growing very well, tall and bushy at this point. Diameter is not very large for the age of the stand, but it is slowly approaching merchantability.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>90</td> <td>Sapling/Pole</td> <td>4</td> <td>38</td> </tr> <tr> <td>Northern Pin Oak</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	90	Sapling/Pole	4	38	Northern Pin Oak	10	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern Pin Oak	Low	Variable	Sapling	Jack Pine	Low	Variable	Sapling	White Oak	Low	Variable	Sapling	Black Cherry	Low	Variable	Sapling																
Canopy Species	% Cover	Size Class	DBH	Age																																																		
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Jack Pine	Low	Variable	Sapling																																																			
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3	4131 - Aspen, Oak	Poletimber Well	79.1	46	51-80	N/A	This stand is primarily pole but with some sapling and log sized stems scattered throughout. This stand was all one large stand before with Stands 12, 13, and 25 all being one large clearcut back in the 70s. Delineated the stands after talking with Piccolo to break up age classes and stagger them, while still keeping stands large enough to mitigate elk browse potential in the area. Varying size of stems throughout the stand. Hypoxylon canker is present on some of the larger diameter quaking aspen where it is present. Old notes from Adjacent Compt. Was cut merch up by 1976 under timbersale permits 10-73A & 48-74A. The bulk of the permit area was in comp 289 to the south. Stand almost through transitioning into the pole class, with larger pole/small saw residual from the cut. BTA with oak & RM associates. Oak is the real stand out in terms of growth & vigor; some of the sprout-origin stems are into the small saw class. Stand has a small opening in the middle & a line of mature trees along the recent harvest boundary to the N.																																															
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4	4310 - Pine, Oak Mix	Sapling Well	17.9	12	Immature	N/A	Stand is filling in nicely with a good diversity of species. There is a considerable amount of oak regen attempting to be recruited in the understory but is pretty evident that browse is a huge factor here Old comments: Timbersale #035-06-01 Too late Jack. January 2008. Jack Pine planted May, 2010 per C72-586. Heavy browse on the oak due to elk being in the area. JP has not reached the 3' mark yet. Oak is filling in nicely when not browsed. Previous treatment provided good natural regen, FTP 72-586 is being disregarded and no planting will be taking place. Decision was agreed upon at compt. review. JC update: JP was re-planted in 2012. Passed Year 3 regen survey with a mix of planted JP and naturally established oak & RM regen.																																															
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5	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	46.0	14	Immature	N/A	Stand is doing well. The jack pine has mostly taken over the regeneration of the oak, although oak is still a prevalent component within the stand. Those oak stems from stump sprouting are still out competing the jack pine at this time. There are some white oak stems in the understory, and red maple is not very prominent from my observation. Also, there are residual scattered log sized red pine can be found loosely scattered throughout the stand. Old comments: Timbersale #035-06-01 Too Late Jack, January 2008. Jack Pine planted May, 2010 per C72-586. Stand also has some decent oak regeneration. Extremely heavy browse on the oak in this stand. There were also a fair amount of elk tracks in this stand as well as browse fairly high up on the regen.																																																				
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6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	90.2	35	1-50	N/A	This is a true mud stand. Mixed oak permeates throughout the stand with pin oak being the dominant oak species in the canopy while the white oak is approaching intermediate status. Jack pine is consistent scattered throughout the stand while red pine pockets do exist, which these may be residual from the harvest due to their size. Red maple stump sprouts fill in pockets of this stand where oak and aspen are not overtaking it. I was hard pressed to label this as a Pole stand due to the high percentage of stems that are still non merchantable. However, this stand will squarely be pole sized timber come next inventory cycle. Old comments: There are elk tracks in this stand. Elk browse along all of the trails. Oak regen is decent, but getting browsed pretty heavily in spots. Stand has some rolling terrain, but is relatively well stocked. Just approaching pole sized.																																																				
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7	42220 - Natural Jack Pine	Poletimber Medium	11.4	34	1-50	N/A	Stand consists primarily of pole sized jack pine with a decent component of red pine. Minor components consist of oak and bigtooth aspen. Oak is fairly prevalent in the understory. However due to deer browse it is variable in terms of advanced regen. Also, previous comments indicate elk sign present in this and adjacent stands. While I have not seen any and this immediate stand I have seen some elk sign within this compartment. 1998 imagery suggests this stand was cut at same time as S6. old: Jack Pine regen, I don't believe that it is a plantation, hard to tell with all the deep snow, I couldn't really distinguish rows, and didn't find any info indicating such. It looks like it may have been a landing at one time, very dense regen. Growing well. Some oak mixed in, had elk tracks in the stand.																																																				
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8	42120 - Planted Jack Pine	Poletimber Well	17.3	45	51-80	N/A	Pole sized jack pine stand that actually appears to be of decent quality and holding up fairly well. As expected, there is some mortality as the stand self thins; however, it is progressing nicely. There appear to be some residual red pine that are log to XL in size which are exhibiting some mortality. However this mortality may be attributed to porcupine damage. As I witnessed two porcupine on one of these red pine, where the top was thinning considerably.																																																				
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10	4126 - White, Black, N. Pin Oak	Sawtimber Well	70.2	80	51-80	N/A	Stand is rather diverse with a ton of mixed pine in the understory, between red and white pine. Decent amount of oak regen as well found throughout the stand. Wondering if the stand itself could benefit from having the top taken off and allowing the suppressed oak and pine be released. 9 plots were recorded for an average of 51 sq ft per acre. TS# 720480601 Thundermug Oak that was finished fall 2009. Old comments: A wild fire entered a portion of the stand off the private land. Red pine was left from the previous harvest. Minimal regen from the shelterwood. Lots of snow, so any regen could be beneath snow if it is not tall enough. What regen is tall enough has signs of browse from Elk. I saw elk tracks while out doing inventory, and I also came across some cow elk walking down one of the trails. Cored several Red Pine, got mixed numbers. Took an average.																																																					
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11	3105 - Mixed Upland Herbaceous	Nonstocked	13.8		Unspecified	No	Stand is borderline forested/non forested. Was listed as a U type and a G type last time. Trees are scattered and open grown. Lots of deer tracks in the area. Wildlife is using this stand.																																																					
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12	4131 - Aspen, Oak	Poletimber Well	76.9	46	51-80	N/A	This stand is primarily pole but with some sapling and log sized stems scattered throughout. This stand was all one large stand before with Stands 3, 13, and 25 all being one large clearcut back in the 70s. Delineated the stands after talking with Piccolo to break up age classes and stagger them, while still keeping stands large enough to mitigate elk browse potential in the area. Varying size of stems throughout the stand. Hypoxylon canker is present on some of the larger diameter quaking aspen where it is present. Old notes from Adjacent Compt. Was cut merch up by 1976 under timbersale permits 10-73A & 48-74A. The bulk of the permit area was in comp 289 to the south. Stand almost through transitioning into the pole class, with larger pole/small saw residual from the cut. BTA with oak & RM associates. Oak is the real stand out in terms of growth & vigor; some of the sprout-origin stems are into the small saw class. Stand has a small opening in the middle & a line of mature trees along the recent harvest boundary to the N.																																																					
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13	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	16.4	55	1-50	N/A	Stand was part of a larger complex that included stands 3, 12, and also 25 and was clearcut back in the 70's. Delineated this out due to the higher amounts of pine in the overstory. Not quite ready yet to harvest. Notes from Adjacent Compt. Was cut merch up by 1976 under timbersale permits 10-73A & 48-74A. The bulk of the permit area was in comp 289 to the south. Stand almost through transitioning into the pole class, with larger pole/small saw residual from the cut. BTA with oak & RM associates. Oak is the real stand out in terms of growth & vigor; some of the sprout-origin stems are into the small saw class. Stand has a small opening in the middle & a line of mature trees along the recent harvest boundary to the N.																																																					
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14	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	71.4	5	Immature	N/A	<p>Stand was final harvested in 2019 (72-041-16). Objective was to regenerate oak after a previous species removal of aspen and red maple. At this time, it appears as though red maple, and pockets of aspen, are greatly out competing the majority of oak regen occurring in this stand. The only instances of FTG oak are in areas where red maple and aspen aren't growing. This, coupled with deer and elk browse, makes it hard to foresee oak reliably coming back outside of being a minor component. There is a larger clone of aspen along private to the east, this was initially a separate stand (S13) but for the sake of management, merged them together.</p> <p>This stand was cut two entries ago. It appears as if all aspen was removed at the time. Aspen has regenerated well, but is now showing signs of Hypox. Oak is still hanging in there pretty well, soils are PARVHA/PARVVB. There are a handful of large RP mixed throughout the stand. Terrain is gently rolling hills.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Cherry		10	Sapling	1	5	Black Cherry		Medium	< 5 feet	Sapling	
Red Maple		60	Sapling	1	5	Red Maple		High	< 5 feet	Sapling	
Bigtooth Aspen		20	Sapling	1	5	Northern Pin Oak		Medium	< 5 feet	Sapling	
Northern Pin Oak		7	Sapling	1	5						
White Oak		3	Sapling	1	5						
15	4199 - Other Mixed Upland Deciduous	Poletimber Well	65.0	36	1-50	N/A	<p>Stand is progressing well. The oak and aspen have graduated into the pole sized class while the red maple is lagging behind. Minor conifer component of jack and white pine, which are in concentrated areas. Trace white oak seemingly along edges of the stand. Evidence of high deer activity as well as older elk sign are present in this stand.</p> <p>old. Stand was cut in 1988. Has regenerated nicely. Dense stand with oak and aspen mixed in. Quality is decent.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		5	Pole	7		Red Maple		Medium	>20 feet	Sapling	
Red Maple		15	Sapling/Pole	3		Northern Pin Oak		Medium	Variable	Sapling	
Northern Pin Oak		50	Pole/Sapling	5	36	White Oak		Medium	Variable	Sapling	
Jack Pine		2	Sapling	2							
Quaking Aspen		28	Pole/Sapling	5							
16	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	53.8	16	Immature	N/A	<p>Stand is progressing well Lots of deer sign present in the stand</p> <p>Old notes: Final harvested summer 2007 under contract 72-014-06-01 Impoundment Jack. FTP 72-570 filed and stand trenched late summer. Stand has not been planted (9-11-2007). Planted Jack Pine May, 2008 per C72-570.</p> <p>Stand has some pockets of aspen mixed in the stand. Oak is having pretty heavy browse.</p> <p>I saw a Rooster Pheasant in this stand along Walsh Road.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Pin Cherry		5	Sapling	2		Black Cherry		Low	Variable	Sapling	
Jack Pine		75	Sapling	2	16						
Northern Pin Oak		10	Sapling	2							
Quaking Aspen		10	Sapling	2							
17	4199 - Other Mixed Upland Deciduous	Sapling Poor	35.6	5	Immature	N/A	<p>There is a fair amount of mixed oak and red maple regen scattered throughout the stand. Though there are some scarce areas where regen is limited likely due to immense browse damage. The majority of the regen fails to exceed the 6 foot threshold to be above browse height and even then browse evidence above 6 foot suggests elk activity in the stand. I believe given time the stand will overcome deer and elk browse. Aspen region is severely lacking, except for a clone in the southern extent of the stand.</p> <p>Old comments: Stand was final harvested in 2019 (72-041-16). Objective is Oak, any combination of Oak, Aspen and pine is acceptable.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		5	Sapling	1	5						
Northern Pin Oak		45	Sapling	1	5						
Red Maple		33	Sapling	1	5						
Black Cherry		10	Sapling	1							
White Oak		5	Sapling	1	5						
Red Pine		2	Sapling	1	5						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
18	4125 - Black, N. Pin Oak	Sapling Medium	8.8	4	Immature	N/A	Stand is regenerating OK. Regen is somewhat sporadic, but the pin oak appears to be consistent throughout; white oak appears to be advancing above browse height well where it was found. There are pockets of aspen coming back; along with some mixed pine...though the pine is still on the small size < 3'. Overall majority of regen is still below 6' threshold; however, acceptable regen consisted of any natural oak, pine mix. Old Comments: Stand final harvested in 2019, Bear Track Jack(72-045-16). Management objective is natural regeneration of pine/oak. Parent stand: Stand is almost all very old jack pine. Has some oak mixed in the stand. JP is old and starting to drop stems throughout the stand. Mortality will likely increase over the next few years. It falls within the Riparian zone for Big Creek Impoundment so management will have to follow the restrictions.																																																								
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19	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	79.6	5	Immature	N/A	Regeneration of this stand is very sporadic and overall is less than desirable, except for pockets of aspen and jack pine that do appear to be establishing a foothold in areas. Old Comments: Stand harvested throughout 2019. Acceptable regeneration is any combination of oak/pine. Parent Stand: Old jack pine again. Some larger stems possibly log sized. Occasional large diameter RP mixed in as well. Similar to the stand directly to the south, but this stand has minimal aspen component. A few JP stems are starting to drop out of the canopy.																																																								
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20	4199 - Other Mixed Upland Deciduous	Poletimber Well	36.7	36	1-50	N/A	Stand is still highly variable with areas of consistent pole size timber, and other areas still dominated by saplings. Intermittent clones of aspen filled in by denser pockets of combinations of red maple, mixed oak, and mixed pine. The majority of the pine appears to be residual from previous harvest as its mostly Pole, log sized. Evidence of elk browse and activity is present. Old notes: Stand was cut in 1988 according to previous inventory. It has regenerated nicely. Stand is very dense and approaching pole sized. Powerline corridor bisects the stand. Quality is decent.																																																								
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21	3102 - Grass	Nonstocked	8.6		Immature	No	powerline right of way with a two track runs along it.																																																								
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24	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4.5	5	Immature	N/A	Stand is regenerating adequately enough. The close proximity to the lake with higher foot traffic due to people fishing the impoundment is likely contributing to lower browse impacts. Old notes: Stand final harvested in 2019, Bear Track Jack(72-045-16). Management objective is natural regeneration of pine/oak. Parent Stand was almost all very old jack pine. Has some oak mixed in the stand. JP is old and starting to drop stems throughout the stand. Mortality will likely increase over the next few years. It falls within the Riparian zone for Big Creek Impoundment so management will have to follow the restrictions.																																																					
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25	4130 - Aspen	Poletimber Well	66.3	46	51-80	N/A	This stand is primarily pole but with some sapling and log sized stems scattered throughout. This stand was all one large stand before with Stands 3, 12, and 13 all being one large clearcut back in the 70s. Delineated the stands after talking with Piccolo to break up age classes and stagger them, while still keeping stands large enough to mitigate elk browse potential in the area. Varying size of stems throughout the stand. Notes from Adjacent Compt. Was cut merch up by 1976 under timbersale permits 10-73A & 48-74A. The bulk of the permit area was in comp 289 to the south. Stand almost through transitioning into the pole class, with larger pole/small saw residual from the cut. BTA with oak & RM associates. Oak is the real stand out in terms of growth & vigor; some of the sprout-origin stems are into the small saw class. Stand has a small opening in the middle & a line of mature trees along the recent harvest boundary to the N.																																																					
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26	4131 - Aspen, Oak	Sapling Medium	18.4	5	Immature	N/A	Stand final harvested in 2019, Bear Track Jack(72-045-16). The regeneration objective was a mix of oak, pine, and aspen, and overall the stand is doing pretty well. Most notably in the areas of the stand north of Farrington Rd Truck Trail, east of Big Creek Impoundment. North of the powerline is slightly more scarce but oak is starting to regenerate. South of Farrington Rd, there is also scarce regen with at least one small pocket of aspen right up against the road. There may be a case to expand the burn area south of here into this part of the stand. Old comments: Parent Stand: Stand is not quite as dense as the stand to the south, that's the only reason they are split. There are some larger diameter RP along the road edges and mixed throughout. Aspen is isolated to small pockets, decent mix of size classes. Ages varied quite a bit, I took several ages and used an average.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
27	500 - Water	Nonstocked	1.9		Unspecified	No	This has big creek running through the stand. It has tag alder growing along the edges and on the banks there are a few larger diameter aspen and jack pine growing along the creek bank edges. Pileated woodpecker was observed in the stand at time of field inspection.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Medium	5 - 10 feet	Tall Shrub	
								Quaking Aspen	Low	>20 feet	Pole	
								Jack Pine	Low	>20 feet	Sapling	
								Mixed Sedges/Grasses	High	Unspecified	Non-Wood	
Black Cherry	Low	5 - 10 feet	Sapling									
28	330 - Low-Density Trees	Nonstocked	19.2	0	Unspecified	4222 - Natural Jack Pine	It appears that this stand had some jack pine and red pine retained from the below mentioned sale. It appears as though the oak regen was attempted to be protected, the sale itself works around the Walsh road horse trail camp. See Garrett's notes below regarding the sale. There isn't enough regen due to the short amount of time that has passed since harvest to derive any conclusions from a regen survey; so I am leaving this treatment on for now as it has a proposed start date of 10/1/2025. Update Price April 2023: Sale harvested under contract 72-042-21 (2) Well Daisy If You Do Pine in Winter of 2022-2023. Some residual red pine were damaged during harvest operations. Sale was chipped. A considerable amount of standing dead was cut but was too far gone for logging equipment to remove from sale.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	Unspecified	Log	
								Jack Pine	Trace	Unspecified	Pole	
29	42220 - Natural Jack Pine	Poletimber Well	19.9	45	1-50	N/A	What appears to be a natural pine stand consisting of primarily Jack pine that is just graduating into pole size. There is a considerable pocket of almost pure red pine in the center of the stand, with scattered log/xl sized red pine scattered throughout with smaller components of mixed oak and trace aspen can also be found. Age estimates are based on aerial imagery. old: Doesnt appear to be a plantation. JP is just now reaching merchantability. Some of it has reached pole sized.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	62	Pole/Sapling	6	45
								Red Pine	25	Log/Pole/XLog	10	
								Bigtooth Aspen	3	Log/Pole	10	
								White Oak	5	Pole	7	
								Northern Pin Oak	5	Pole	7	
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Low	Variable	Sapling	
								Northern Pin Oak	Low	Variable	Sapling	
								White Oak	Low	Variable	Sapling	
30	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	27.5	16	Immature	N/A	Stand is actually progressing pretty well in comparison to some other adjacent stands (S19). Old comments: Stand harvested in Feb 2008 under contract 72-051-06-01 Powerline Jack. Jack Pine planted May, 2010 per C72-597. Stand has decent oak regen, some aspen pockets mixed in as well. Jack Pine has not reached 3' yet, but it is coming along. Management Objective was changed to Oak at compt review, and we are accepting natural regen from previous treatment. FTP 72-597 will be dropped and there will be no planting of JP as FTP previously stated. JC update: JP was re-planted in 2011. Passed Year 3 regen survey with a mix of planted JP and a significant deciduous component (O-BC-M). Canopy updates based on the treatment reports & past inventory data, not a site visit.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	40	Sapling	2	13
								Quaking Aspen	10	Sapling	2	
								Northern Pin Oak	40	Sapling	2	16
								Red Maple	10	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
33	6225 - Bog	Nonstocked	1.6	0		No	This is a lowland area located in the middle of a planted jack pine stand, including the residual retention left during the previous harvest for slope protection. No standing water was observed at the time of field inspection; however, aerial imagery suggests the likelihood of high water table due to the depth of the depression. Previous inventory indicates this stand was planted 1986. JP is growing very well, tall and bushy at this point. Diameter is not very large for the age of the stand, but it is slowly approaching merchantability.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Mixed Sedges/Grasses	Full	Unspecified	Non-Wood	
								Jack Pine	Medium	>20 feet	Pole	
								Red Pine	Low	>20 feet	Log	
Oak (spp.)	Medium	Variable	Sapling									
Sweet Fern	Medium	< 5 feet	Tall Shrub									
34	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	3.9	63	51-80	N/A	This is retention left as part of the below mentioned Timber Sale to protect Big Creek below the impoundment area. Age estimated from retention information in adjacent C72021 S88. Separated out into its own stand. Old comment: Stand final harvested in 2019, Bear Track Jack(72-045-16). Management objective is natural regeneration of oak/pine/aspens. Parent Stand:Stand is not quite as dense as the stand to the south, thats the only reason they are split. There are some larger diameter RP along the road edges and mixed throughout. Aspen is isolated to small pockets, decent mix of size classes. Ages varied quite a bit, I took several ages and used an average.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	60	Pole	8	63
								Quaking Aspen	20	Log/Pole	10	60
Northern Pin Oak	20	Log/Pole	10									
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	Variable	Sapling									
Oak (spp.)	Medium	Variable	Sapling									
35	42220 - Natural Jack Pine	Poletimber Poor	4.2	67	1-50	N/A	Looks like an area that may have been harvested in the 70's, 80's but wasn't planted and allowed to naturally fill in. Was omitted from the below timber sale; as this as initially lumped in with that stand. May have been previously left as retention. Old comments: Timber sale #035-06-01 Too Late Jack, January 2008. Jack Pine planted May, 2010 per C72-586. Stand also has some decent oak regeneration. Extremely heavy browse on the oak in this stand. There were also a fair amount of elk tracks in this stand as well as browse fairly high up on the regen.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	80	Pole	8	67
								Red Maple	5	Sapling	2	14
								Red Pine	5	Log	10	
Northern Pin Oak	10	Log/Pole	10									
Sub-Canopy Species	Density	Avg. Height	Size									
Jack Pine	Low	< 5 feet	Sapling									
Black Cherry	Low	Variable	Sapling									
White Oak	Low	Variable	Sapling									
36	42250 - Pine, Oak	Poletimber Well	2.5	74	1-50	N/A	This stand is retention left as part of the below mentioned timber sale. This retention left comprises the Walsh Road Horse Trail Camp. Update Price April 2023: Sale harvested under contract 72-042-21 (2) Well Daisy If You Do Pine in Winter of 2022-2023. Some residual red pine were damaged during harvest operations. Sale was chipped. A considerable amount of standing dead was cut but was too far gone for logging equipment to remove from sale.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	30	Log/Pole	11	
								Jack Pine	60	Pole	5	74
Red Pine	10	Log/Pole	10									
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