



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72230

Entry Year 2026

Acreage: 1,308

County Crawford

Management Area: High Sand Plains

Stand Examiner: Jake Halabut

Legal Description:

T25N R3W Sections 3, 10, and 15
Beaver Creek 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 soils are Grayling and Graycalm sands. The area is flat to a few rolling hills in the southern portion of the compartment.

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

This compartment consists of contiguous state ownership except for a few private parcels located in sections 3 and 10. Most of the residential development is located along Five Mile Road in section 3. Penn Central Railroad bisects compartment in sections 3 and 10.

Unique Natural Features:

MNFI has record of a "Pine Barrens" natural community containing a threatened plant, rough fescue, (*Festuca scabrella*) along the Penn Central Railroad in sections 3 and 10 in this compartment. Also present is special concern Hill's thistle, and the grizzled skipper is a possibility. Two other animals of special concern known to be in this compartment are the Eastern Massasauga (*Sistrurus cantenatus*), last observed 1982 and Henry's Elfin (*Incisalia henrici*), last observed 1932 which is a butterfly.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

No watercourses or lakes are located within the boundaries of the compartment and Fisheries Division has no concerns.

Wildlife Habitat Considerations:

The primary focus of wildlife habitat management in the Ogemaw Hills management area will be to address the habitat requirements identified for the listed featured species. Based on the selected featured species, some of the most significant wildlife management issues in the management area the maintenance of young forest; large open grassland complexes and marsh/grassland complexes; the retention of large over-mature trees and snags; and the maintenance and expansion of hard mast and mesic conifer components. With its diverse mix of pine, oak and aspen cover types, this compartment supports a variety of featured wildlife species including hare, grouse, turkey, woodcock, beaver, black bear, and red-headed woodpecker to name a few.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The inactive, State-owned 7 Mile sand/gravel pit is just to the west, and an active private operation is less than one mile southeast of the compartment. There is good potential for additional sand and gravel within the compartment. The nearest oil & gas production, past or present, is several miles away. Only sparse oil & gas test drilling has occurred in and around the compartment, and no well permits have recently been issued in the area. Significant acreage of State-owned oil & gas rights just northwest of the compartment were leased in 2023, but leasing interest often does not portend permitting and drilling of wells. Potential for development of hydrocarbons beneath the compartment is considered low at this time. 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:

County roads include Cemetery Xing (section 10 & 15), and East Railroad Trail (section 3) (seasonally maintained), 5-Mile Road, 7- Mile Road and Beasley Ave. One State trail road/Power line functions solely as driveway for two seasonal cottages in section 10. The power line is located on private and not indicated on the compartment map. Most permanent residences are accessed mainly off, 5-Mile Road, 7- Mile Road and Beasley Ave.

Survey Needs:

Survey request submitted for 1/4 corner 11 of T25N R03W S03.

Recreational Facilities and Opportunities:

The compartment does contains one designated recreational trail called the Beaver Creek Trail, a Michigan Cross Country Cycle Trail (sections of trail run on county roads, requiring road licensing by Secretary of State) located in Section 15. The compartment does support dispersed recreation in the form of hunting, as evidenced by the number of tree stands located throughout the compartment.

Fire Protection:

Access throughout the compartment is adequate. 5-Mile Road, 7- Mile Road and Beasley Ave are county roads and maintained year round. Multiple 2-tracks provide good access throughout the rest of the compartment, and with the current cover, type fire protection should be adequate. There is no body of water which can be used to re-supply water tankers located in the compartment. The best source would be the Beaver Creek Fire Station located at the corner of Old 76 and 7-Mile Road.

Additional Compartment Information:**The following reports from the Inventory are attached:**

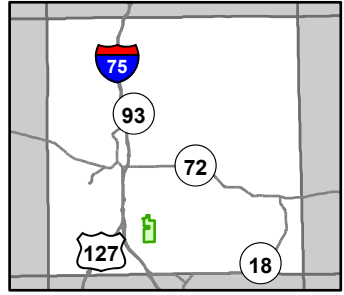
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

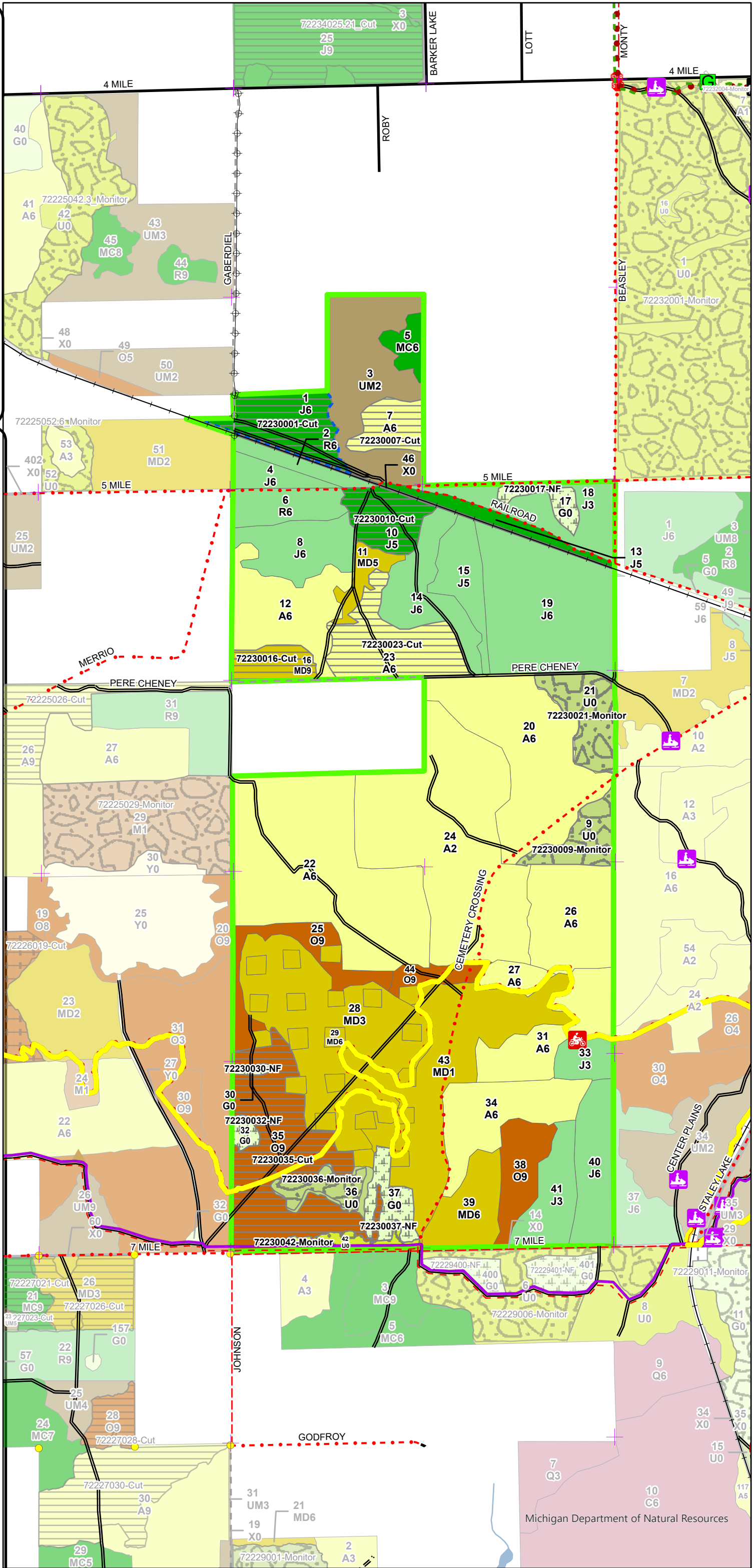
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 72230
 T25N, R3W, Sec: 3, 4, 10, 15
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2026
 Acres: 1307.5 GIS Calculated
 Examiner: Jake Halabut
 Map Revised: 07/11/2024
 Map Phase: Web-Post

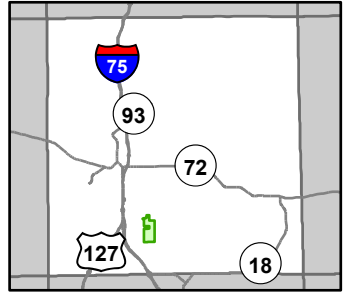


- Hiking Trails
- Horse Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Designated Equestrian Trails
- Designated ORV Routes
- Designated MCCCT Trails
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- Berms
- Gate
- Sign
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Regeneration Survey
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees

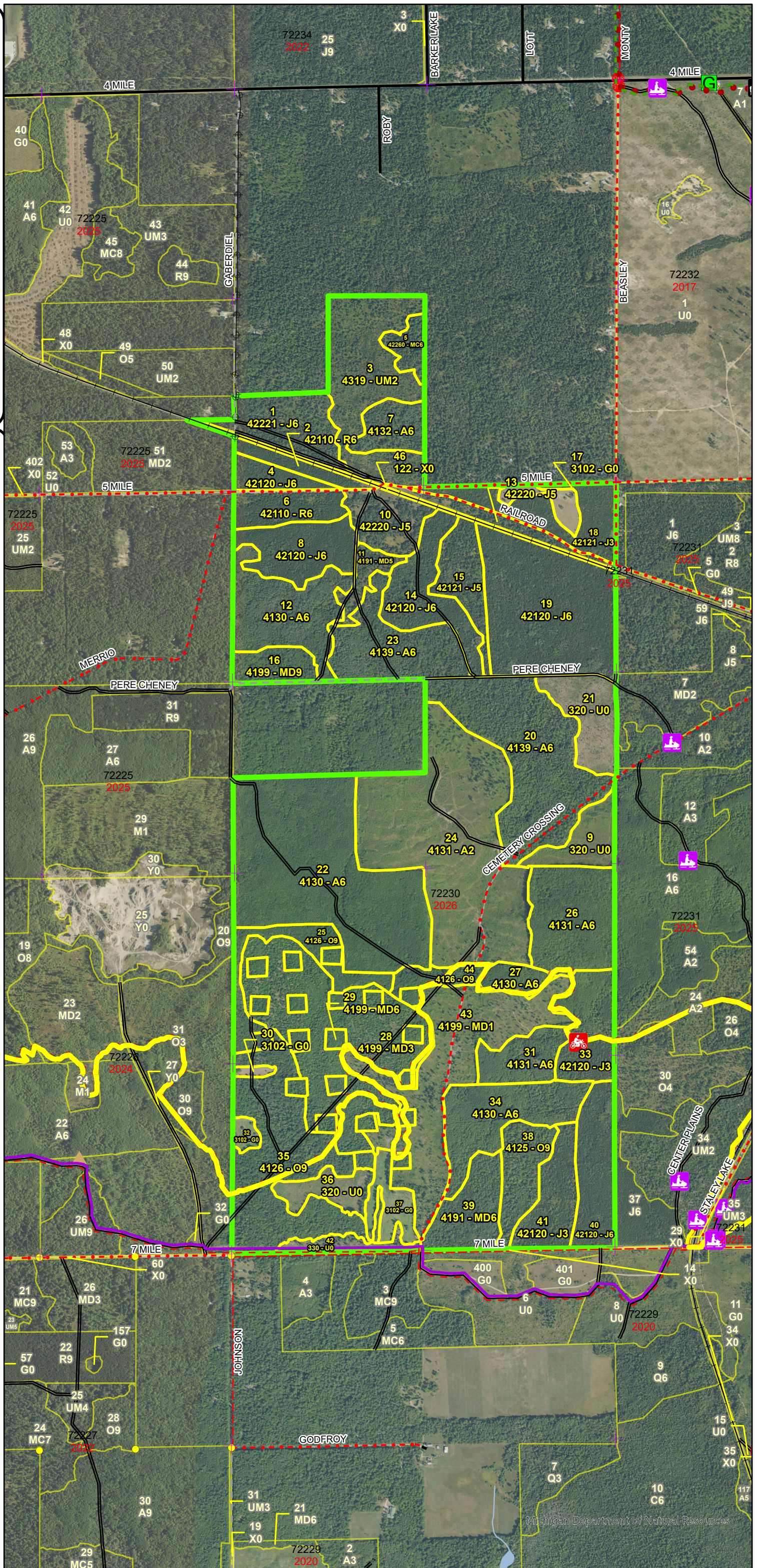


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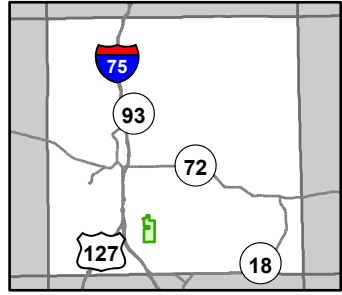


- Hiking Trails
- Horse Trails
- Motorcycle Trails (DNR License)
- Snowmobile Trails
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- 320 - Upland Shrub
- 330 - Low Density Trees
- State Forests

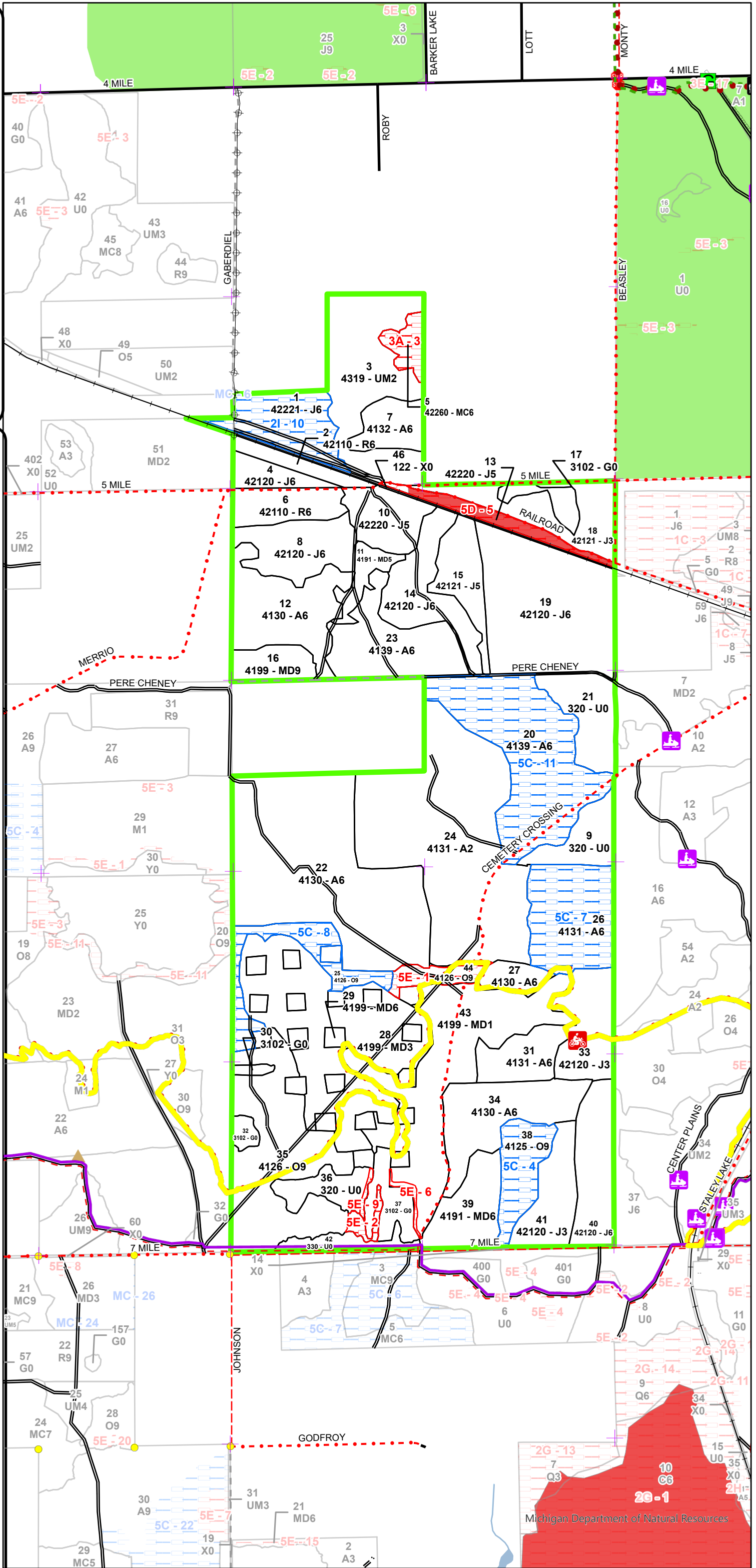


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- Private - Dirt / Gravel Road
- Active Railroads
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site
- 3A: Conservation Values incompatible with harvest at this time
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Kirtland Warbler Habitat
- Cold Water Streams



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	120	0	39	74	153	121	0	0	0	0	0	0	0	0	0	0	0	506
Herbaceous Openland	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Jack Pine	0	0	26	32	61	118	26	0	29	0	0	0	0	0	0	0	0	0	291
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	73	76	28	22	12	8	0	0	0	0	0	0	0	0	0	0	0	219
Natural Mixed Pines	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	47	0	69	0	0	0	0	0	0	116
Red Pine	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Upland Mixed Forest	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Shrub	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49
Urban	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	87	193	155	99	190	283	155	0	29	47	0	69	0	0	0	0	0	0	1305



Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 230

Year of Entry: 2026

Acres of Harvest

Total Compartment Acres: 1,308

Commercial Harvest - 149
 Harvests with Site Condition - 26
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Aspen	49	0	0	0	0	0	0	0	0	49
Jack Pine	45	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	12	0	0	0	0	0	0	0	0	12
Oak	69	0	0	0	0	0	0	0	0	69
Total	175	0	0	0	0	0	0	0	0	175

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	175	0	0	0	0	0	53	0	24	253
Next Step	0	45	90	0	0	10	325	0	45	514
Total	175	45	90	0	0	10	378	0	69	766



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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:

1	72230001-Cut	26.3	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	53	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No	
<p><u>Prescription</u> Clearcut without retention other than marking to leave some of the XL red pine for a seed source. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Monitoring, Herbicide Use; Planting, Initial Plant; Planting, Replant; NonForestMgt, Brush Cutting; Monitoring, <u>Treatments:</u> Artificial Regen(1yr); Monitoring, Artificial Regen(3yr) <u>Acceptable</u> A fully stocked red pine stand. <u>Regen:</u> <u>Other</u> Soft oak wilt spec <u>Comment:</u> Adjacent land owner to the east is a good contact. Gaberdale Road runs through his property. Rich: 586-899-2517 Add chipping spec Add low stump spec <u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2025</p>												
7	72230007-Cut	13.8	4132 - Aspen, Jack Pine	Poletimber Well	52	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No	
<p><u>Prescription</u> Clearcut without retention. Mark to leave some of the XL red pine for seed source. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A moderate to full stocking of a mix of aspen, mixed pine, oak, or maple would be acceptable. <u>Regen:</u> <u>Other</u> No chipping of tops, leave slash for reforestation <u>Comment:</u> Add drumming log spec <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2025</p>												
9	72230009-Monitor	15.3	320 - Upland Shrub	Nonstocked			Unspec ified	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Re-upping monitoring treatment to see if regeneration improves over time. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A moderate to full stocking of a mix of aspen, mixed pine, oak, or red maple would be acceptable regeneration. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2033</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
10 72230010-Cut	18.6	42220 - Natural Jack Pine	Poletimber Medium	72	Unspecified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention. Cut all species 2" and up, utilize chipping spec to ensure tops are chipped. Add low stump spec.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Monitoring, Herbicide Use; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, <u>Treatments:</u> Artificial Regen(3yr); NonForestMgt, Brush Cutting</p> <p><u>Acceptable Regen:</u> Fully stocked red pine.</p> <p><u>Other Comment:</u> This treatment encompasses an opening that I got approval from Tim Riley to convert to forested.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
16 72230016-Cut	12.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	45	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clearcut without retention. Cut all stems 2" and greater across all species. Mark to leave any wolfy or open grown oak and XL pine to retain as seed/mast source. Residual basal area should not exceed 5 sq ft per acre.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A moderate to full stocking of a mix of aspen, oak, mixed pine, and red maple will be acceptable regeneration.</p> <p><u>Other Comment:</u> No chipping of the tops for reforestation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
17 72230017-NF	6.7	3102 - Grass	Nonstocked		Immature	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub <u>Specs:</u> planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
23 72230023-Cut	35.3	4139 - Aspen, Mixed Deciduous	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> clearcut with retention. Cut all merchantable stems across all species. Mark to leave scattered open grown oak and XL red pine for <u>Specs:</u> seed/mast production as well as wildlife benefits. Retained BA should not exceed 5 sq ft per acre.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A moderate to full stocking of a mix of aspen, oak, mixed conifer, and maple will be acceptable regeneration.</p> <p><u>Other Comment:</u> No chipping of the tops/limbs for reforestation. Add drumming log spec</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
30 72230030-NF	1.7	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
32 72230032-NF	3.4	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
35 72230035-Cut	69.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	104	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Clearcut with retention. Utilize the area already drawn in on MIFI for long term retention placement guidance. Scattered large diameter pine and oak may be marked to leave for mast production, rooster trees, or future snags. Residual BA should not exceed 5 BA in total.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> A moderate to fully stocked stand of any mix of oak, aspen, pine, and maple may be acceptable regeneration.</p> <p><u>Other Comment:</u> Add trail specs (snowmobile and motorcycle) Add soft oak wilt spec No chipping of tops and limbs for reforestation.</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
37 72230037-NF	12.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Periodic opening maintenance, as needed, that may include disking, fertilizing, liming, food plot seeding, mowing, brushing, tree and shrub planting, herbicide application, and removal of invasive species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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 /2025</p>										
42 72230042-Monitor	7.9	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Intermediate)	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Planted RP MO was changed to natural regen by variance approved Nov 9, 2022. There is too much residual to plant this stand and the snowmobile trail reroute through it further reduced the treatment area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in a mix of pine residual and regen. A longer timeframe to achieve that natural regen is expected and accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Monitor for scotch pine seeding back in.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Approved Treatments:

21 72230021-Monitor	20.3	320 - Upland Shrub	Nonstocked	0	Unspec ified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; ; Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked red pine, if red pine planting fails then replant to jack pine.</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 /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
36 72230036-Monitor	9.5	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; ; ; Monitoring, Herbicide Use; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Well stocked red pine.</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 /2023</p>										

Total Treatment Acreage Proposed: **252.5**

Report 4 – Site Conditions

Grayling Mgt. Unit
Jake Halabut : Examiner

Compartment: 230
Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2I	5C	3A	5D	5E	
506	395	110	0	Aspen		110				0
24	24	0	0	Herbaceous Openland						0
293	256	26	10	Jack Pine	26				10	
8	8	0	0	Low-Density Trees						
220	218	0	1	Mixed Upland Deciduous						1
8	0	0	8	Natural Mixed Pines			8			
117	67	39	11	Oak		39				11
25	25	0	0	Red Pine						
53	53	0	0	Upland Mixed Forest					0	
49	49	0	1	Upland Shrub						1
5	5	0	0	Urban					0	
1,307	1,101	175	31	Total Forested Acres	26	149	8	10		13
	84%	13%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Natural white and red pine can be found in this small stand, recommending preserve it for now as we await new natural pine management guidance. Also a candidate for long term retention due to the small size of the stand.							

Report 4 – Site Conditions

Grayling Mgt. Unit
Jake Halabut : Examiner

Compartment: 230
Year of Entry: 2026

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Allow the aspen to become merchantable by next YOE and harvest.							
5	Unavailable	5D: Unproductive Forest Land	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Narrow strip of land between railroad and seasonal two track, leave as is and let nature take its course. Stand could have been easily included in the treatment that took place just to the north, it was not included for some reason.							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Jake Halabut : Examiner

Compartment: 230
Year of Entry: 2026

10	Available	2I: Survey needed	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Per compartment review and unit biologist Brian Piccolo's wishes, we split up the original stand and treatment to stagger age classes.							

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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Well	26.3	53	51-80	N/A	Stand is quite variable in terms of size and density. Log and pole sized stems of all species in varying degrees. Mortality is setting in for the major species of oak, aspen, and jack pine stems throughout. except for the fee areas more dominated by smaller oak stems (5-6"). Feel like the stand has reached a plateau. Old Comments: Jack pine stand with mixed species associated within the stand. Lower end of canopy closure. This stand has a good representation of diameters, dominate diameter is of the pole size category. Tree form not that great. This stand is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	8	Pole/Log	9	
Jack Pine	60	Pole/Log/Sap	8	53
Black/Red (Hybrid) Oak	25	Pole/Log	8	
Quaking Aspen	7	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Jack Pine	Medium	Variable	Sapling
Oak (spp.)	Medium	Variable	Sapling
Aspen (spp.)	Low	Variable	Sapling

2	42110 - Planted Red Pine	Poletimber Well	8.3	32	1-50	N/A	There are enough merchantable sized stems to classify as a pole stand. stand is looking good, not much for any regen in the understory outside of some limited cherry/oak. Old notes: Red pine plantation with oak and cherry scattered throughout stand. No ground cover was recorded due to snow. Clearcut in 1988 and planted in 1991 as per OI notes. This stand is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	2	Sapling/Pole	4	
Jack Pine	6	Pole/Sapling	5	
Red Pine	90	Pole/Sapling	5	32
Pin Cherry	2	Sapling	4	

3	4319 - Mixed Upland Forest	Sapling Medium	53.1	16	1-50	N/A	I'm calling this an overall sapling stand despite some residual stems leftover from the below mentioned TS. there's enough acreage of overall sapling to justify the classification. There is a lot of cherry regen relative to other desirable species. 9/5/07- TS-720160601 "5 and Tracks Jack" Scattered red pine and oak left. Everything 6" and up was taken. Stand is being classified as pole because of residual left from harvest. Regen is heavy to cherry with some jp seeding in as well as some oak and aspen. Snow depth made it difficult to see how much jack pine was present. This stand is PARVHa/PArVVb. Regen survey was conducted in this stand for Old OI 2, MO jack pine survey failed, passes on other species, heavy to cherry.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Pole/Log	8	48
Jack Pine	40	Sapling	3	16
Quaking Aspen	3	Pole	6	
Black/Red (Hybrid) Oak	8	Pole/Sapling	7	
Black Cherry	34	Sapling	3	16
Red Pine	5	Pole/Log/XLog	8	
White Pine	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	5 - 10 feet	Sapling
Oak (spp.)	Medium	< 5 feet	Sapling
Aspen (spp.)	Medium	< 5 feet	Sapling
Black Cherry	High	Variable	Sapling

4	42120 - Planted Jack Pine	Poletimber Well	9.3	32	1-50	N/A	Stand is progressing enough to be considered pole sized overall. Stand is looking good and progressing nicely. Jack pine plantation with red pine, oak and cherry scattered throughout stand. No ground cover was recorded due to snow. Clearcut in 1988 and planted in 1991 as per OI notes. This stand is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	2	Sapling	4	
Red Pine	15	Pole/Sapling	5	
Jack Pine	81	Pole/Sapling	5	32
Black Cherry	2	Sapling	4	

5	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	7.7	38	1-50	N/A	Southern portion of this stand is mixed deciduous (aspen and oak) and jack pine, with some residual l-xl sized red pine. The northern half of this stand is mixed natural white pine and jack pine, with lesser component of red pine. Drastically different from the rest of the stand. Aspen is primarily pole sized but is already exhibiting widespread top mortality and cankers. Overall poor quality stand outside of the nice natural pine in the northern half. Old notes: Small stand with jack pine and aspen. Stand also has red pine and small amount of oak. Understory was primarily cherry with other associated species. No ground cover recorded because of snow. This stand is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	20	Pole/Log	8	
Quaking Aspen	25	Pole	7	
Red Pine	15	Pole	7	
Black/Red (Hybrid) Oak	15	Pole	7	
Jack Pine	25	Pole	7	38

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Sapling
Red Pine	Low	< 5 feet	Sapling
Cherry (spp.)	Medium	< 5 feet	Sapling
Oak (spp.)	Low	< 5 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
6	42110 - Planted Red Pine	Poletimber Well	16.6	31	Immature	N/A	Stand is looking good and progressing enough to be considered pole sized. Some of the open grown red pine stems along the edge are slightly larger in diameter (~7); however, the vast majority is just graduating into merchantability. Stand harvested in 1988 and replanted in 1991. Stand is primarily Red Pine with a strip of planted Jack Pine of about 2 acres. Initial planting was in 1991, red pine was replanted in 1992 because of heavy mortality. Scattered associated species found throughout the stand. No ground cover was recorded due to snow conditions. This stand is PArVHa/PArVVb.																																																						
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7	4132 - Aspen, Jack Pine	Poletimber Well	13.8	52	1-50	N/A	Stand of older aspen and jack pine, with mortality being exhibited in both dominate species. i would likely recommend treating the stand now. Due to the natural self-thinning of the stand, there is a fairly significant amount of aspen regen occurring in the understory. Old notes: Stand of pole sized aspen with jack pine and other associated species. Stand was not treated when surrounding stand was harvested. This stand is PArVHa/PArVVb.																																																						
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8	42120 - Planted Jack Pine	Poletimber Well	25.5	32	Immature	N/A	Stand is progressing really well, with a good majority of stems graduating into pole sized. Old notes: Cut in 1988 and planted in 1991. Jack pine plantation with good density, some oak is scattered throughout the stand. No understory to report and ground vegetation was covered by snow. East half of stand is PArVHa/PArVVb and West half is PArVVb.																																																						
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9	320 - Upland Shrub	Nonstocked	15.3		Unspecified	4199 - Other Mixed Upland Deciduous	Regen throughout the stand is inconsistent and the oak has been heavily browsed, stunting any growth. The red maple has made some progress but overall the stand is lacking regeneration. There are couple of aspen pockets that are doing well but account for only half an acre of viable regeneration (north end).																																																						
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10	42220 - Natural Jack Pine	Poletimber Medium	18.6	72	Unspecified	N/A	Stand of predominately pole sized jack pine with some poor quality saw log sized stems mixed in. Stand is holding up nicely so far but that could change by next inventory cycle. Open stand of pole sized jack pine surrounding an open area, form of jack pine is typical of open grown pine bushy short and of poor form. This stand is PVCd.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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11 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 8.4 52 1-50 N/A Heavy cherry and jack pine component, with lesser amounts of aspen and oak. Overall stocking and quality are of poorer quality.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	30	Pole/Sapling	7	
White Pine	5	Pole	6	
Jack Pine	30	Pole	7	52
Quaking Aspen	20	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Cherry (spp.)	Low	Variable	Sapling
Oak (spp.)	Low	Variable	Sapling

Old notes: Open grown stand of mixed upland species dominated by jack pine with strong component of cherry and aspen. No ground cover due to snow depth.

12 4130 - Aspen Poletimber Well 38.3 35 1-50 N/A Aspen is doing pretty well mostly pole sized , but there are pockets of sapling sized aspen , with a few saw log stem scattered throughout. In some areas oak advanced regen into the midstory is high.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/XLog	13	
Red Maple	5	Pole/Sapling	6	
Quaking Aspen	75	Pole/Sapling	6	35
Red Pine	3	XLog/Log	18	
Black Cherry	2	Pole/Sapling	6	
Black/Red (Hybrid) Oak	10	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Oak (spp.)	Medium	Variable	Sapling
Cherry (spp.)	Medium	Variable	Sapling
White Pine	Low	Variable	Sapling
Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Aspen (spp.)	Medium	< 5 feet	Sapling
Red Maple	Low	Variable	Sapling

Old notes: Nice young aspen stand with scattered log/Xlog red pine. Stand was harvested in 1988. Stand is primarily PARVVb with a couple of areas that are PARVHa/PARVVb.

13 42220 - Natural Jack Pine Poletimber Medium 9.9 72 Unspecified N/A Sparse pine and oak strip, old notes suggested this may have been old retention left along rail road tracks.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	Log/Pole	10	
Jack Pine	60	Pole/Log	8	72
Black/Red (Hybrid) Oak	25	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	Variable	Sapling
Black Cherry	Low	Variable	Sapling
Oak (spp.)	Medium	5 - 10 feet	Sapling

Old notes: Narrow strip between railroad tracks and two track, previous OI listed stand as non-forested. There is enough tree cover to classify as forested, this could have been left as retention for Old Stand 18 harvested in 2007. Stand also has a history of burning. Stand is primarily PVCd with small areas of PARVHa/PARVVb.

14 42120 - Planted Jack Pine Poletimber Well 27.7 43 1-50 N/A Planted Jack Pine with some lesser components of mixed oak (pin/white) and black cherry scattered throughout. There are a few pockets of aspen clones easily picked out in aerial imagery. Stand is overall progressing well.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	3	Pole	6	
Red Pine	5	XLog/Log	18	
Jack Pine	80	Pole	6	43
Quaking Aspen	10	Pole/Sapling	6	
Pin Cherry	2	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Oak (spp.)	Low	< 5 feet	Sapling
Cherry (spp.)	Low	< 5 feet	Sapling

Old notes: Jack pine plantation with an area of XLog Red Pine, stand is denser then the adjacent Jack Pine with smaller DBH. Stand was harvested 1975 and replanted in 1980. Northern tip is PVCd, middle portion is PARVHa/PARVVb and the bottom is PARVVb.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Medium 18.1 42 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	25	Pole/Log	8	
Black Cherry	3	Pole	5	
Jack Pine	60	Pole/Log	8	42
Black/Red (Hybrid) Oak	7	Pole	7	
Red Pine	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	Variable	Sapling
Cherry (spp.)	Medium	Variable	Sapling
Oak (spp.)	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
White Oak	Low	Variable	Sapling

Stand is quite variable in terms of BA and diameters. Diameters are larger than adjacent stands despite being planted at the same time due to planting failures (per notes below). Some evidence of natural regen of jack pine within the stand and aspen has been advantageous of this fact with the presence of several clones within the stand. Wildlife seems to be making use of this patchwork of a stand.

Old notes: Jack pine stand at lower end of canopy closure then the stands on either side, diameter is a little larger too. Stand also has areas of little to no jack pine as well as small pockets of quaking aspen. Stand cut in 1975 and plated in 1980, poor survival per old OI notes. Stand is primarily PARVHa/PARVVb.

16 4199 - Other Mixed Upland Deciduous Sawtimber Well 12.0 45 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Log/Pole	10	
White Oak	15	Log/Pole	10	
Red Maple	37	Log/Pole	10	45
Quaking Aspen	13	Log/Pole	11	
Black/Red (Hybrid) Oak	20	Log/Pole	10	87
Red Pine	10	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	Variable	Tall Shrub
Hawthorn (spp.)	Medium	Variable	Tall Shrub
Cherry (spp.)	Medium	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling
Oak (spp.)	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Red Maple	Medium	>20 feet	Pole

It appears as though some of the older aspen and oak have been dying off, and per old inventory notes mortality was already occurring then. This mortality has allowed red maple to be highly opportunistic in sort of changing over the stand to predominantly maple. This raises concerns if final harvest is conducted. How much oak we would get back at this point. That said there appears to be ample Aspen seedlings in the understory suggesting aspen should come back fairly well.

old notes: Mixed stand of log/pole sized hardwoods. Good number of standing and down dead oak, remaining oak is of poor quality. White pine regen in the east end with a few large red pine. Three BA swings were taken with a stand average of 94. Site index averaged 53. West half of stand is PARVHa/PARVVb and East half is PARVVb.

17 3102 - Grass Nonstocked 6.7 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Trace		Pole
Pin Oak (Southern)	Trace		Pole
Jack Pine	Trace		Pole
Rye (annual)	High	Unspecified	Non-Wood
Red Pine	Low	>20 feet	Log

old notes below indicate opening was planted to Rye starting in 2016, with some residual pole/logged size pine and oak residual.

As per old OI notes building evidence either old homestead or railroad building. Too much snow to see any traces of building during field visit. Stand is primarily PVCd. JC update: Wildlife opening was planted to rye in 2016 (W72-787).

18 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 26.4 15 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	15	Sapling	2	17
Jack Pine	80	Sapling	3	15
Pin Cherry	5	Sapling	2	

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

stand is looking good. Majority of stand is 2-3" in diameter and approaching 20' tall. Stand will be approaching pole sized by next inventory cycle. Good regeneration approximately 3-4 feet tall with oak, cherry and aspen scattered. There is a little portion of stand that runs along 5 Mile Rd that has pole sized trees, area less than a tenth of an acre. No ground cover recorded due to snow. Sale was harvested in 2006/07 under TS720160601 "5 and Tracks Jack". Planted Jack Pine May, 2008 per C72-567. Stand is primarily PVCd.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19	42120 - Planted Jack Pine	Poletimber Well	72.4	43	51-80	N/A	stand is doing fairly well, progressing nicely with limited mortality though some pockets do exist. Aspen has taken advantage of areas where jack pine plantings failed. Not much in the understory outside of black cherry shrubs at this time and some sparse oak that is in the midstory. old notes: Very dense jack pine plantation with no reportable sub canopy. Very little presence of other species within stand was well. No ground cover recorded due to snow. Harvested in 1975 and planted in 1980. North half of stand is PARVHa/PArVVb, Southern half is PARVVb.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Quaking Aspen	9	Pole	7	43		Oak (spp.)	Low	Variable	Sapling
	Red Maple	2	Pole/Sapling	5			Black Cherry	Medium	Variable	Sapling
	Black/Red (Hybrid) Oak	2	Sapling/Pole	4						
	Red Pine	2	Log	14						
	Jack Pine	83	Pole/Sapling	6	43					
	Black Cherry	2	Pole/Sapling	5						

20	4139 - Aspen, Mixed Deciduous	Poletimber Well	71.7	53	51-80	N/A	Stand is borderline log size class, with many of the aspen stems being right around 9". There is a vein of shrubby cherry and open grown oak through the middle of this stand. Not sure if is a product of lack of regen last treated or from the aspen self thinning/mortality over the years. Since mortality of the aspen is apparent throughout the stand. Consider splitting it up to treat, just to break up the size of cuts and diversify age classes. Old notes: Aspen stand with good mixture of associated species. Ten BA swings were taken with an average BA of 90 and average Site index was 56. Northwest portion of stand is PARVVb the remaining portion is PARVHa/PArVVb.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Jack Pine	5	Pole/Log	8			Oak (spp.)	Medium	Variable	Sapling
	Red Maple	15	Pole/Log	8			Red Maple	Medium	Variable	Sapling
	Quaking Aspen	55	Pole/Log	9	53		Hawthorn (spp.)	Low	Variable	Tall Shrub
	Black/Red (Hybrid) Oak	10	Log/Pole	12			Cherry (spp.)	Low	Variable	Pole
	White Pine	5	Log/Pole	11						
	White Oak	5	Log/Pole	11						
	Red Pine	5	Log/Pole	12						

21	320 - Upland Shrub	Nonstocked	21.5	0	Unspecified	4211 - Planted Red Pine	JP-MD stand was final harvested in 2019 (#007-16). FRD trenched May 2022 (C72-915). Contractor site prep sprayed June 2023. Re-inventory staff in 2024 noted that there was still some cherry and oak persisting on the site, and conducted the attached regen survey. 896 LTPA PRT RP planted in May 2024.
Sub-Canopy Species		Density	Avg. Height	Size			
	Oak (spp.)	Medium	< 5 feet	Sapling			
	Black Cherry	Medium	5 - 10 feet	Sapling			
	Red Pine	Trace	< 5 feet	Seeding			

22	4130 - Aspen	Poletimber Well	114.4	46	1-50	N/A	Stand is doing well but likely not quite ready yet for harvest despite the age. Reassess in another 10 years in hope of added diameter to stems. There are some aspen stems approaching log sized, but overall the oak and red maple are lagging behind in terms of diameter. old notes: Nice aspen stand just coming into the pole size class. Gentle to rolling terrain with a nice mixture of associated species. Good component of oak in this stand. Final Harvest in 1975. This stand is PARVHa/PArVVb.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Pine	5	XLog/Log	18			White Pine	Low	Variable	Sapling
	Paper Birch	2	Pole/Sapling	5			Oak (spp.)	Medium	< 5 feet	Sapling
	Red Maple	18	Pole	6			Red Maple	Low	< 5 feet	Sapling
	Quaking Aspen	65	Pole	7	46					
	Black/Red (Hybrid) Oak	10	Pole/Sap/Log	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23	4139 - Aspen, Mixed Deciduous	Poletimber Well	35.3	53	51-80	N/A	Stand is borderline log size class, with many of the aspen stems being right around 9". There is a vein of shrubby cherry and open grown oak through the middle of this stand. Not sure if is a product of lack of regen last treated or from the aspen self thinning/mortality over the years. Since mortality of the aspen is apparent throughout the stand. Consider splitting it up to treat, just to break up the size of cuts and diversify age classes. Old notes: Aspen stand with good mixture of associated species. Ten BA swings were taken with an average BA of 90 and average Site index was 56. Northwest portion of stand is PARVVb the remaining portion is PARVHa/PARVVb.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		10	Log/Pole	12		Hawthorn (spp.)		Low	Variable	Tall Shrub	
Red Pine		5	Log/Pole	12		Cherry (spp.)		Low	Variable	Pole	
Jack Pine		5	Pole/Log	8		Oak (spp.)		Medium	Variable	Sapling	
Red Maple		15	Pole/Log	8		Red Maple		Medium	Variable	Sapling	
Quaking Aspen		55	Pole/Log	9	53						
White Oak		5	Log/Pole	11							
White Pine		5	Log/Pole	11							

24	4131 - Aspen, Oak	Sapling Medium	120.4	5	Immature	N/A	Harvested under timber sale number 72-007-16 (Comp 230 North Mix). Harvesting was completed in summer of 2019. Stand is looking OK, areas where aspen clones are present look considerably better than areas where they aren't. Red maple appears to be overtaking oak for the most part in those areas. Old Comments: Stand is a mixture of oak and associated species, In areas prior treatments have removed aspen, red maple and some oak, leaving stands of pure oak with a very heavy understory of aspen and maple with little to no oak. Other portions of stand have aspen and maple as a component of the overstory with mixed pine. Stand BA averaged 108 from the 10 BA swings, Oak is had the highest average at 75, maple was 15, aspen 10 and mixed conifer made up the rest. Oak was white oak and what looks like hybrid red and black oak. Rolling to somewhat steep terrain. Site index averaged 56. This stand is PARVHa/PARVVb.				
Canopy Species		% Cover	Size Class	DBH	Age						
Bigtooth Aspen		40	Sapling	1	5						
Red Maple		25	Sapling	1							
White Oak		5	Sapling	1							
White Pine		5	Pole/Log	8							
Black Cherry		5	Sapling	1							
Black/Red (Hybrid) Oak		20	Sapling	1							

25	4126 - White, Black, N. Pin Oak	Sawtimber Well	19.9	83	81-110	N/A	Stand is looking good in terms of the overstory and development of the canopy. Still a lot to be desired in regards to the understory and any desirable regen. Stand could likely benefit from a reset. 8 plots were taken for an average BA of 101 sq ft per acre. Old comments: Small sawlog sized stand roughly 10" dbh, understory very park like. Adjacent stand was recently clearcut with good oak sprouting I would think this stand would respond in the same way. This stand is PARVHa/PARVVb.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		5	Pole/Log	9		Red Maple		Low	Variable	Sapling	
White Oak		23	Pole/Log	9		White Pine		Low	Variable	Sapling	
White Pine		2	Log/Pole	12		Oak (spp.)		Low	Variable	Sapling	
Black/Red (Hybrid) Oak		70	Log/Pole	11	83						

26	4131 - Aspen, Oak	Poletimber Well	38.5	48	51-80	N/A	stand is progressing well, with some areas being more aspen dominant, while others are more oak dominant. mixed oak regen seems fairly consistent throughout and is actually quite encouraging. Continue to monitor stand and see how it processes next inventory cycle. Nice pole sized aspen stand. Stand was cut in 1976. This stand is PARVHa/PARVVb.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		45	Pole	6	48	Red Maple		Medium	< 5 feet	Sapling	
Red Pine		2	Pole	7		Oak (spp.)		Medium	< 5 feet	Sapling	
Black/Red (Hybrid) Oak		30	Pole/Sapling	7		White Oak		Medium	Variable	Sapling	
Red Maple		5	Pole/Sapling	5		Jack Pine		Low	< 5 feet	Sapling	
White Oak		18	Pole	6		Witch Hazel		Low	5 - 10 feet	Tall Shrub	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
27	4130 - Aspen	Poletimber Well	7.6	26	1-50	N/A	Stand is doing pretty well. The ground gradually slopes up towards the East, and as you move up that slope you see more of a white oak component. Stand is exhibiting enough pole size stems to be reclassified as pole stand.																																																		
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28	4199 - Other Mixed Upland Deciduous	Sapling Well	75.5	15	Immature	N/A	Stand is doing well, and there is a good mix of oak coming up with the Aspen and maple. Predominately mixed oak except for areas of aspen clones, there you have a good mix of deciduous species. Was hoping you see more natural regen of pine with the residual white pine left from the harvest. Old notes: Stand has small one acre 5 spot cuts mixed within this stand, these are listed as stand 27. Heavy browse on all regen especially oak regeneration. Northern portion of stand has a higher density of all species regen. No ground cover do to snow. FINAL HARVEST 2008: TS720170601 "Scooter Oak". This stand is PARVHa/PArVVb. Regen survey was conducted for Old OI 138 and this stand passes the regen survey for the MO of oak.																																																		
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29	4199 - Other Mixed Upland Deciduous	Poletimber Well	28.1	27	1-50	N/A	patch cuts are progressing nicely. Encouraging to see predominately oak persisting in these over maple and aspen. Just reaching merchantability in the majority of stems in these cuts.																																																		
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30	3102 - Grass	Nonstocked	1.8		Unspecified	Managed Opening	Wildlife opening. This stand is PARVHa/PArVVb. JC update: Wildlife opening was planted to rye in 2016 (W72-787).																																																		
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31	4131 - Aspen, Oak	Poletimber Well	30.9	27	1-50	N/A	Predominately aspen stand with pockets of mixed oak, cherry inclusions. Red maple is scattered throughout the stand as a minor component. Stand is progressing well.																																																		
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Bigtooth Aspen	65	Pole/Sapling	5	27																																																					
Sub-Canopy Species	Density	Avg. Height	Size																																																						
Black Cherry	Medium	Variable	Sapling																																																						
Oak (spp.)	Medium	Variable	Sapling																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
32	3102 - Grass	Nonstocked	3.4		Unspecified	Managed Opening	Managed wildlife opening. This stand is PARVHa/PArVVb. JC update: Wildlife opening was planted to buckwheat & clover in 2016 (W72-787).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Pin Oak (Southern)	Low		Log	
								Clovers	High	Unspecified	Non-Wood	
Mixed Grasses	High	Unspecified	Non-Wood									
33	42120 - Planted Jack Pine	Sapling Well	10.4	23	Immature	N/A	Jack pine is looking good, very dense understory with a surprising amount of oak regen. Borderline with high oak (mostly white) regen. Existing oak already in the overstory is primarily pin oak. Stand is almost reaching merchantability as a whole but not quite there. Jack pine was hand planted by contractor in 2000 under FTP72-0397. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	7	Sapling/Pole	4	
								Red Maple	3	Sapling	3	
Jack Pine	90	Sapling/Pole	4	23								
Sub-Canopy Species	Density	Avg. Height	Size									
Oak (spp.)	Medium	Variable	Sapling									
34	4130 - Aspen	Poletimber Well	35.2	35	1-50	N/A	stand has stretches of pure aspen, with a couple inclusions of mixed oak and then one small jack pine clump. Including to the southern portion of the stand which is more oak dominant. Aspen is looking good with some larger diameter stems along the edges (8-9"). Old comments: Young aspen stand regenerating nicely. Stand harvested in 1988. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	5	Pole	6	
								Jack Pine	5	Pole	5	
								Quaking Aspen	75	Pole	6	35
								Northern Pin Oak	5	Pole	6	
Red Maple	10	Pole	5									
Sub-Canopy Species	Density	Avg. Height	Size									
Witch Hazel	Low	5 - 10 feet	Tall Shrub									
Red Maple	Medium	Variable	Sapling									
Black Cherry	Low	Variable	Sapling									
35	4126 - White, Black, N. Pin Oak	Sawtimber Well	69.4	104	81-110	N/A	Stand is somewhat variable in terms of density, with the south being more dense; in part due to an added mixed pine component. White oak dominant with some hybrid oak also present. 14 plots were recorded for an average of 103 sq ft per acre. Old Comments: Stand is not as dense as Stand 45, good advanced oak regeneration coming up in this stand. Areas of heavy Gypsy Moth egg masses. Southern portion of stand has the pine component and white oak has a good presence in this stand. There are pockets of regen from wind event that occurred in 93/94. Portion of Stand was last treated in 1995. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	22	Log/Pole	12	
								White Pine	7	Pole/Log/XLog	9	
								Red Maple	11	Pole/Log	9	
								White Oak	45	Log/Pole	12	104
								Red Pine	5	Log/Pole	12	
Bigtooth Aspen	10	Pole	8									
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Medium	Variable	Sapling									
Oak (spp.)	High	Variable	Sapling									
White Pine	Medium	Variable	Sapling									
36	320 - Upland Shrub	Nonstocked	12.5	0	Unspecified	4211 - Planted Red Pine	Mixed RP-WP-MD stand was final harvested in 2019 (#004-16). FRD trenched May 2022 (C72-884). Cherry brush was filling in. Contractor site prep sprayed June 2023. Spring 2024 re-inventory staff noted: stand is looking good, regen appears to be knocked down fairly well from spraying in 2023 aside from a small pockets of white pine and red maple advanced regen towards the west end. 900 LTPA PRT RP planted in May 2024.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	< 5 feet	Seeding	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
37	3102 - Grass	Nonstocked	12.5		Unspecified	Managed Opening	Could have been some kind of homestead as per old OI notes. Snow depth prohibited seeing any evidence of foundations. This stand is PARVHa/PArVVb. JC update: Wildlife opening was planted to buckwheat & clover in 2016 (W72-787).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Pin Oak (Southern)	Low		Log	
								Mixed Grasses	High	Unspecified	Non-Wood	
								White Pine	Low	>20 feet	Log	
Clovers	High	Unspecified	Non-Wood									
38	4125 - Black, N. Pin Oak	Sawtimber Well	19.1	81	51-80	N/A	Stand has a pocket of denser, larger diameter oak in the northern half. Otherwise, the stand is a decent amount of borderline merchantable aspen in it. 10 plots were recorded for an average of 39 sq ft per acre. Heavy to scotch pine in the southern portion of stand. All aspen was removed in 1996. Three BA swings were taken with a stand average of 75. Average site index was 54. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Oak	15	Log/Pole	10	
								Red Maple	35	Pole/Log	9	
								Black/Red (Hybrid) Oak	50	Log/Pole	10	81
								Sub-Canopy Species	Density	Avg. Height	Size	
								Scotch Pine	Medium	Variable	Sapling	
White Pine	Medium	Variable	Sapling									
Aspen (spp.)	High	Variable	Sapling									
Red Maple	Medium	Variable	Sapling									
Oak (spp.)	Medium	Variable	Sapling									
39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	22.3	35	1-50	N/A	Stand is a diverse mix of conifer and hardwoods that has just moved into pole size class. There are dense areas of scotch pine primarily along 7 mile road. Stand density varies throughout the stand. Old comments: Medium to heavy scotch pine along 7 mile rd. Stand harvested in 1988. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Sapling	4	
								Jack Pine	17	Pole/Sapling	6	
								Northern Pin Oak	30	Pole/Sapling	5	
								Scotch Pine	3	Pole/Sapling	5	
								White Pine	10	Pole/Sapling	7	
Sub-Canopy Species	Density	Avg. Height	Size									
Red Maple	Low	Variable	Sapling									
Scotch Pine	Medium	Variable	Sapling									
Oak (spp.)	Low	Variable	Sapling									
Pin Cherry	Low	Variable	Sapling									
40	42120 - Planted Jack Pine	Poletimber Well	26.6	32	1-50	N/A	Stand is looking good. There is an inclusion of quaking aspen in the north-eastern corner of the stand. Old comments: Stand was harvested in 1987 and planted in 1991. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	8	Sapling/Pole	4	
								Jack Pine	87	Pole/Sapling	5	32
								Black Cherry	2	Pole/Sapling	5	
Black/Red (Hybrid) Oak	3	Pole/Sapling	5									
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	Variable	Sapling									
Oak (spp.)	Low	< 5 feet	Seeding									
41	42120 - Planted Jack Pine	Sapling Well	21.4	23	Immature	N/A	Stand is looking good and progressing as expected. Jack pine was hand planted by contract crew in 2000 under FTP 72-0397. This stand is PARVHa/PArVVb.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black/Red (Hybrid) Oak	3	Sapling/Pole	4	
								Black Cherry	2	Sapling/Pole	4	
								Bigtooth Aspen	5	Sapling/Pole	4	
Jack Pine	90	Sapling/Pole	4	23								
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Low	Variable	Sapling									
Oak (spp.)	Medium	Variable	Sapling									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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42 330 - Low-Density Trees Nonstocked 7.9 0 Unspecified No Stand was harvested under timber sale number 72-004-16 (Comp 230 Mix) in 2019. Regeneration is overall lacking and some scotch pine is regenerating in, along with sparse maple and aspen.

Old Comment:
Mixed stand of jack and scotch pine. This stand is PARVHa/PARVVb.

43 4199 - Other Mixed Upland Deciduous Sapling Poor 73.4 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	20	Sapling	1	5
White Pine	5	Pole/Sap/Log	7	
White Oak	10	Sapling	1	
Red Maple	25	Sapling	1	5
Red Pine	5	Log/Pole	10	
Northern Pin Oak	35	Sapling	1	5

Harvested under timber sale number 72-007-16 (Comp 230 North Mix). Harvesting was completed in summer of 2019. Stand is doing OK. it is apparent that browse in the area is suppressing the oak component moreso than the other species present. Aspen is doing well where clones are present, but in other areas red maple is somewhat out-competing the oak. Mostly due to the aforementioned browse. However, there appear to be enough stems/acre to eventually overcome this broad influence if given time. Regen is lower in the areas with higher pine retention (red and white pine residual retention from previous treatment).

Old Comments:
Stand is a mixture of oak and associated species, In areas prior treatments have removed aspen, red maple and some oak, leaving stands of pure oak with a very heavy understory of aspen and maple with little to no oak. Other portions of stand have aspen and maple as a component of the overstory with mixed pine. Stand BA averaged 108 from the 10 BA swings, Oak is had the highest average at 75, maple was 15, aspen 10 and mixed conifer made up the rest. Oak was white oak and what looks like hybrid red and black oak. Rolling to somewhat steep terrain. Site index averaged 56. This stand is PARVHa/PARVVb.

44 4126 - White, Black, N. Pin Oak Sawtimber Well 8.3 83 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Sap/Log	6	
Bigtooth Aspen	10	Pole/Sapling	5	
Red Pine	5	Log	14	
White Oak	30	Log/Pole	12	83
White Pine	10	Log	16	
Black/Red (Hybrid) Oak	30	Log/Pole	12	83

Long term retention from timber sale number 72-007-16 (Comp 230 North Mix). Harvesting was completed in summer of 2019.

Old Comments:
Stand is a mixture of oak and associated species, In areas prior treatments have removed aspen, red maple and some oak, leaving stands of pure oak with a very heavy understory of aspen and maple with little to no oak. Other portions of stand have aspen and maple as a component of the overstory with mixed pine. Stand BA averaged 108 from the 10 BA swings, Oak is had the highest average at 75, maple was 15, aspen 10 and mixed conifer made up the rest. Oak was white oak and what looks like hybrid red and black oak. Rolling to somewhat steep terrain. Site index averaged 56. This stand is PARVHa/PARVVb.

46 122 - Road/Parking Lot Nonstocked 5.2 No ROW for the railroad tracks

Sub-Canopy Species	Density	Avg. Height	Size
Sweet Fern	Low	5 - 10 feet	Tall Shrub
Spotted Knapweed	Medium	Unspecified	Non-Wood