



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72217

Entry Year 2023

Acreage: 1,299

County Crawford

Management Area: Grayling Ice Contact

Revision Date: 2021-03-24

Stand Examiner: Scott McClarren

Legal Description:

T27N R03W Section 19, 20, 21

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment. In addition, to provide an area that allows for National Guard training needs on short term lease lands within the compartment.

Soil and topography:

Croswell, Croswell-AuGres complex, Rubicon, Grayling, and AuGres sands. Leafriver muck and Tawas-Leafriver Complex in the lowland areas. The terrain is level to rolling hills.

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

The entire compartment is contiguous state ownership except for in section 21, which contains several private parcels. The compartment is bisected by I-75. A large portion of section 20 is part of Hartwick Pines State Park. State Park ownership is not included in compartment acreage. Section 19 and the portion of section 20 lying west of I-75 is under the 20-year lease agreement with the National Guard (DMA).

Unique Natural Features:

Per Michigan Natural Features Inventory there is limited potential for dusted skipper, grizzled skipper, red-legged spittlebug, Henry's elfin, and secretive locust, in barrens. This compartment shows some potential for red-shouldered hawk and Bald eagle.

Plant species that may occur are rough fescue, pale agoseris, Hill's thistle, and Alleghany plum in pine barrens/dry sand prairie. False violet may occur in hummocky pine, hardwood, or aspen stands.

Archeological, Historical, and Cultural Features:

None recorded to date.

Special Management Designations or Considerations:

The compartment's proximity to Hartwick Pines State Park increases the compartment's recreational potential. This compartment offers many educational and visual management opportunities.

Watershed and Fisheries Considerations:

One small stream which feeds into the North Branch of the AuSable River flows through section 20.

Wildlife Habitat Considerations:

Maintain the existing cover types and promote age class diversity where possible to improve habitat conditions for various species of wildlife. The compartment serves as a wintering area for deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Marshall Sandstone. The Marshall was used as a building stone in the past. The nearest gravel pit is in the center of Section 20 and potential is thought to be good in the upland areas. No wells have been drilled in this area and there are no current oil and gas leases in the compartment. Three miles to the north, the Antrim Shale has been developed. The Antrim Shale appears to have limited potential in this area, due to the thickness of overburden, and has not been developed.

Vehicle Access:

Access is obtained from M-93 (Hartwick Pines Road), Wilcox Bridge Road, and Lewiston Grade Road. The area west of I-75 contains numerous trail roads. These trails receive heavy use from the military and hunters. Recommended no existing

road be closed. All new roads created are to be closed upon completion of the prescription.

Survey Needs:

None needed at this time

Recreational Facilities and Opportunities:

Dispersed recreational opportunities occur throughout the compartment. The Lovells snowmobile trail, the South Frederic Snowmobile Trail Connector, and the Michigan Shore to Shore Riding-Hiking Trail run through this compartment. Evidence was seen of mountain bike use on trails through the compartment. The area receives heavy dispersed recreational use, particularly hunting. A paved bicycle/recreational pathway runs from Grayling along M-93 north to the entrance of Hartwick Pines State Park.

Fire Protection:

The current road system is adequate. No timber conversion needed.

Additional Compartment Information:

The following reports from the Inventory are attached:

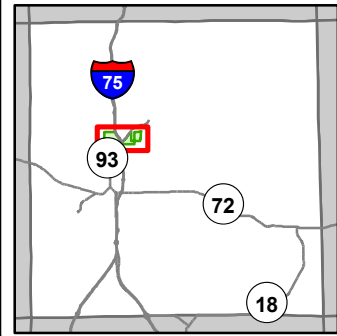
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

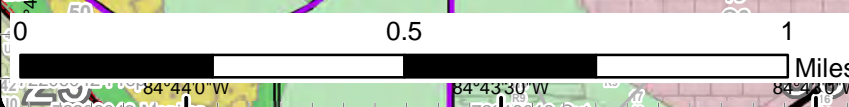
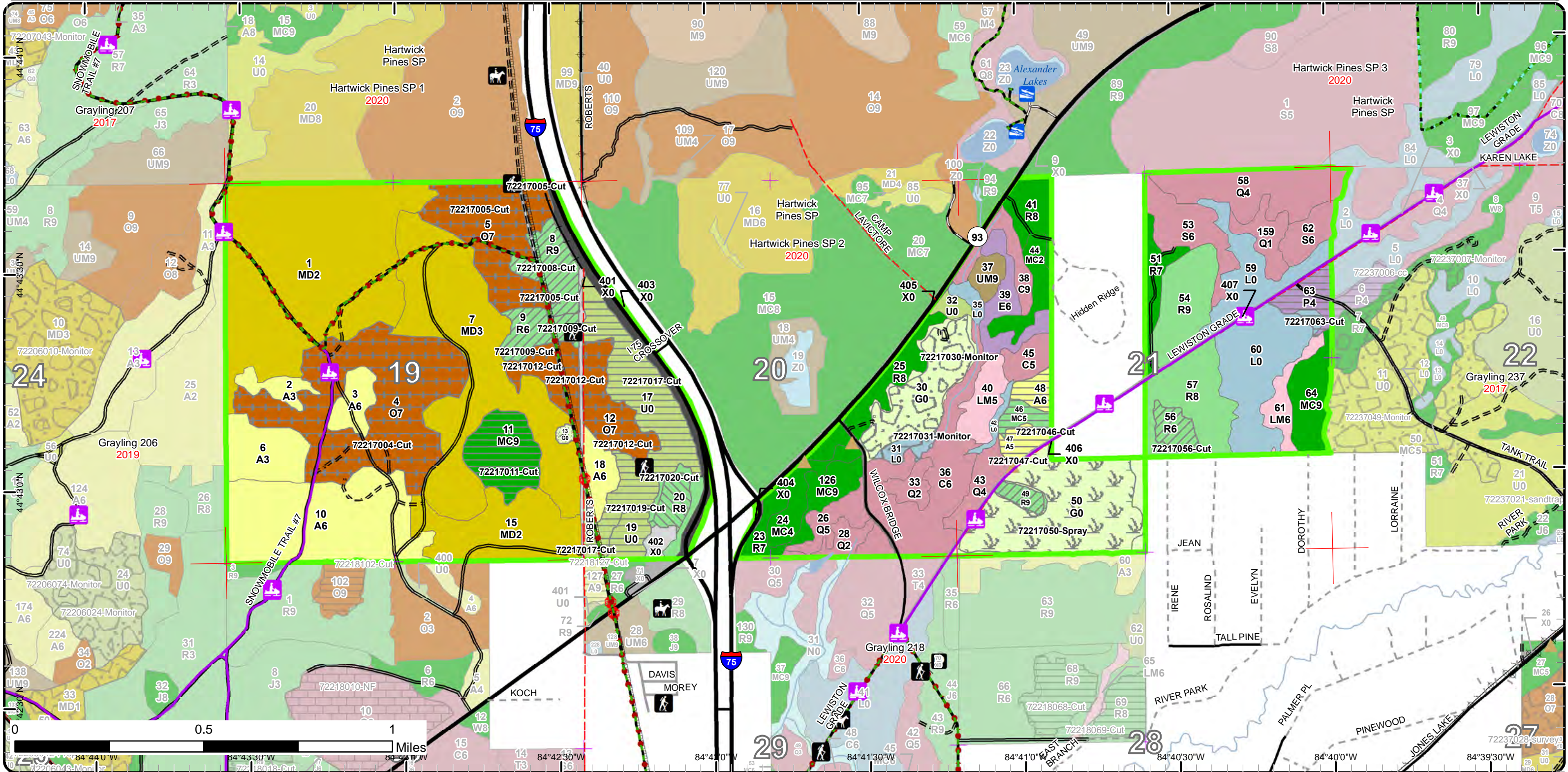
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 217
 T27N, R03W, Sec. 19-21
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2023
 Acres: 1298.9 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review

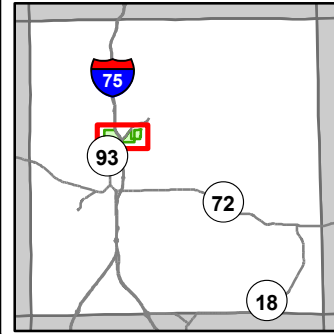


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Hiking Trails
- ▲ Horse Trails
- ▲ Snowmobile Trails
- - - Designated Hiking Trails
- ● Designated Equestrian Trails
- - - Designated Ski Trails
- - - Designated Multi-Use Trails
- - - Designated ORV Route
- - - Designated Snowmobile Trails
- ▲ Berms
- ▲ Boating Access Site
- P Parking Lot
- Sign
- - - Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Pesticide
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- Mowing
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- X Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail

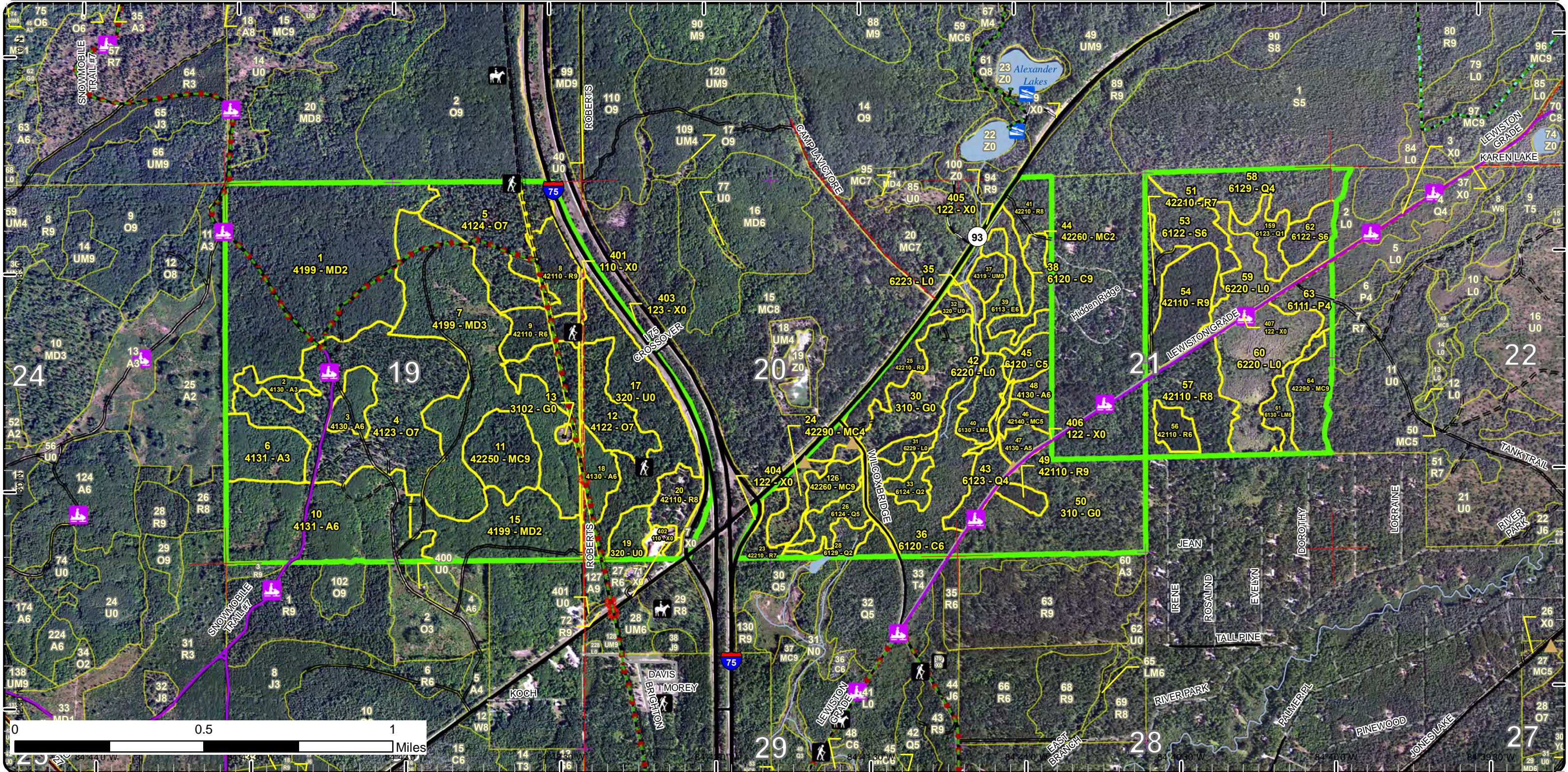


Stand Boundary Map

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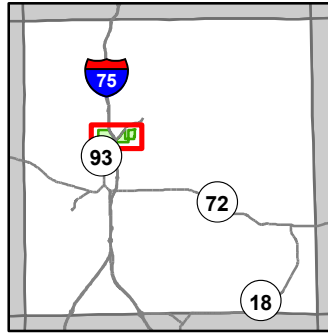


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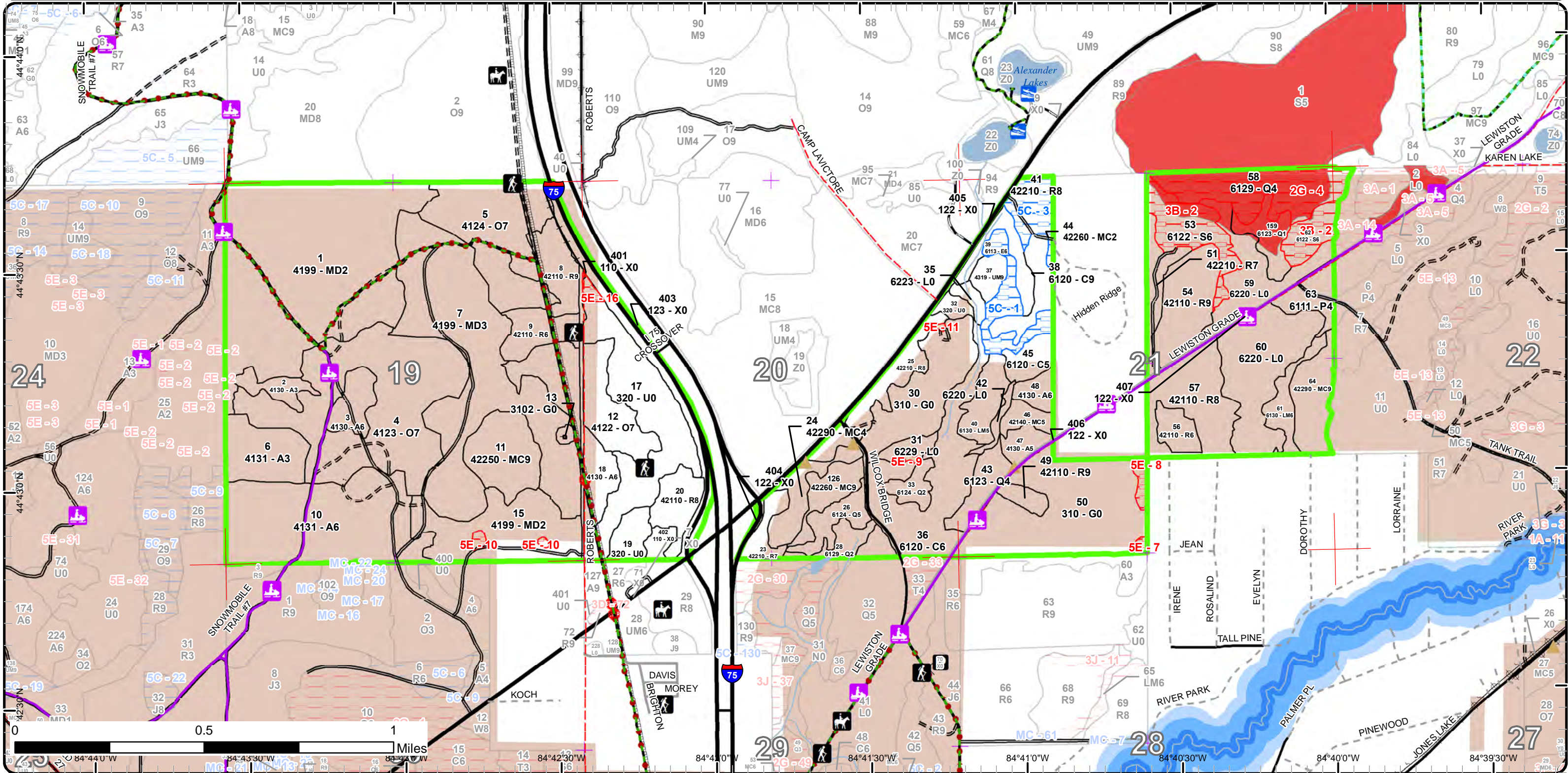


Special Conservation Areas

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- Private - Dirt / Gravel Road
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- Snowmobile Trails
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- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Boating Access Site
- Parking Lot
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Camp Grayling Gates
- Camp Grayling Fence
- Camp Grayling Tank Trail



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	0	0	37	81	11	0	0	0	0	0	0	0	0	0	0	0	0	129
Cedar	0	0	0	0	0	0	0	0	0	0	0	8	47	9	0	0	0	0	63
Herbaceous Openland	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	6	36	0	0	0	32	0	0	0	0	0	0	0	0	74
Lowland Deciduous	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	14
Lowland Mixed Forest	0	0	0	0	0	0	9	12	0	0	0	0	0	0	0	0	0	0	21
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	179	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	283
Natural Mixed Pines	0	0	11	12	0	0	0	27	0	0	0	0	22	0	0	0	0	0	71
Oak	0	0	0	0	0	0	0	0	0	0	0	168	0	0	0	0	0	0	168
Planted Mixed Pines	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	69	24	46	0	0	12	0	0	0	0	0	0	151
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Upland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Urban	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Total	277	179	11	153	87	52	78	63	70	60	0	194	69	9	0	0	0	0	1300



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 217

Total Compartment Acres: 1,299

Commercial Harvest - 319
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	11	0	0	0	0	0	0	0	0	11
Lowland Aspen/Balsam Poplar	11	0	0	0	0	0	0	0	0	11
Natural Mixed Pines	22	0	0	0	0	0	0	0	0	22
Oak	0	0	0	0	0	0	168	0	0	168
Planted Mixed Pines	5	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	39	0	0	7	46
Upland Shrub	56	0	0	0	0	0	0	0	0	56
Total	106	0	0	0	0	39	168	0	7	319

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	319	0	0	0	0	59	33	0	1	413
Next Step	0	157	138	0	59	222	320	22	0	918
Total	319	157	138	0	59	281	353	22	1	1330



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

4	72217004-Cut	89.1	4123 - Red Oak	Sawtimber Poor	106	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Follow standard retention guidelines. Protect advanced regen. Pathway protection spec needed for <u>Specs:</u> snowmobile trail, horse trail, and hauling across the bicycle path adjacent to M-93. Add composite mat spec for bicycle path protection.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous regen has already been established following previous harvest. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
5	72217005-Cut	44.7	4124 - Red with White Oak	Sawtimber Poor	106	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Remove all merchantable stems. Follow standard retention guidelines. Protect advanced regen. Pathway protection spec needed for horse <u>Specs:</u> trail and hauling across the bicycle path adjacent to M-93. Add composite mat spec for bicycle path protection. Hard oak wilt spec but, allows hauling given brushing is done prior.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed upland deciduous regen has already been established following previous harvest. <u>Regen:</u></p> <p><u>Other</u> Consider green marking all oak and pine greater than 26" if time to do so since there's a lot between 20-25". Either coordinate with MDOT to <u>Comment:</u> remove trees in I-75 row or leave retention island to reduce windthrow. Previous sale paperwork said pink lady slipper was found in south part of stand near old landing. Protect through retention if found during layout.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
9	72217009-Cut	12.1	42110 - Planted Red Pine	Poletimber Well	56	201+	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to 120 ba. Pathway protection spec needed for horse trail and hauling across the bicycle path adjacent to M-93. Add composite <u>Specs:</u> mat spec for bicycle path protection.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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11	72217011-Cut	22.2	42250 - Pine, Oak	Sawtimber Well	112	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Harvest all stems greater than 2" dbh. Follow standard retention guidelines. Include chipping and low stump specs. Add pathway protection
Specs: spec for hauling on snowmobile trail, horse trail, and hauling across the bicycle path adjacent to M-93. Add composite mat spec for bicycle path protection.

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Hand

Acceptable Fully stocked red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

12	72217012-Cut	34.4	4122 - Oak, Pine	Sawtimber Poor	102	1-50	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Remove all merchantable stems. Follow standard retention guidelines. Be aware of green up and visual concerns from I-75 when marking in
Specs: retention. Protect advanced regen. Pathway protection spec needed for horse trail and hauling across the bicycle path adjacent to M-93. Add composite mat spec for bicycle path protection.

Next Step
Treatments:

Acceptable Mixed upland deciduous regen has already been established following previous harvest.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

13	72217013-NF	1.3	3102 - Grass	Nonstocked		Unspec NonForestMgt ified		Mowing	3102 - Grass		No
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Prescription Grayling fire weather station. Mow outside fence and herbicide inside as needed.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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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
31 72217031-Monitor	4.3	6229 - Mixed lowland shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Check regen. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any combination of conifer or hardwoods is acceptable. Accept a poorly stocked. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2032</p>										
46 72217046-Cut	5.3	42140 - Planted Mixed Pine	Poletimber Medium	47	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2", no retention due to size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Will accept poorly stocked mix of maple, cherry, aspen, oak, and conifer. Open conditions will benefit EMR. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
47 72217047-Cut	5.7	4130 - Aspen	Poletimber Medium	49	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2", no retention due to size. Add drumming log spec. Add snowmobile trail protection specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Poor to moderate stocking of aspen and cherry brush expected and acceptable. Any other combination of species will also be accepted. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
48 72217048-Cut	5.3	4130 - Aspen	Poletimber Well	49	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2", no retention due to size and to maximize aspen regen. Add grouse drumming log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen objective. Maple, oak, cherry and conifer will be acceptable species as well. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</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
49 72217049-Cut	3.9	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Free thin red pine down to 120. A few additional rows of red pine will need to be removed to open skid trails wider to allow for equipment to operate. Add snowmobile trail specs.</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 /2022</p>										
56 72217056-Cut	7.1	42110 - Planted Red Pine	Poletimber Well	54	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin. Take 2 leave 4 for spacing. Add snowmobile trail specs.</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 /2022</p>										

Approved Treatments:

8 72217008-Cut	15.7	42110 - Planted Red Pine	Sawtimber Well	56	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Do an individual marking to a residual of 70-120 BA. Do a mix of leave quality trees (120 BA) Crop tree release-(residual 70 BA)</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> Retain blue painted or marked trees designating horse trail and protect trail. Apply visual management along trail.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /1 /2019</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
17 72217017-Cut	48.6	320 - Upland Shrub	Nonstocked		Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest and replant red pine. Red pine plantation planted around the residual oak. Lots of oak in the ground cover. Plenty of red maple stump sprouts, heavier red pine cover in the south and west part of the stand. Stand was set-up in 1993 and completed in 1995 of a mostly species removal. Focus visual management around I-75 and trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> fully stocked stand of red pine</p> <p><u>Other Comment:</u> Final harvest stand mark some residual oak trees < 1 BA, and leave a little heavier next to I-75. Mark one retention island north end along power line and I-75.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /1 /2019</p>										
19 72217019-Cut	7.6	320 - Upland Shrub	Nonstocked		Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest with no retention because of small acreage. Herbicided and then plant red pine. If we do not herbicide the red maple which is a aggressive competitor then the current composition and condition of the stand will be strongly influence by that management decision. This Kotar site has the capability to support stands of high quality timber of a number of important species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Planting, Initial Plant; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; SitePrep, Roller Chopping; SitePrep, Trenching;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> Fully stocked stand of red pine</p> <p><u>Other Comment:</u> Red maple strump sprouts, stand appears to have been final harvested in the early 40's leaving some oak, then red pine was planted. Red pine and red maple only a few years different in age. Kotar: PARVVB--</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 9 /1 /2019</p>										
20 72217020-Cut	6.9	42110 - Planted Red Pine	Sawtimber Medium	76	51-80	Harvest	Other - Specify	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark all red pine within 20 feet of the roads in the bone yard. Do no mark any trees outside of the outer road between the bone yard and I-75 off ramp to help keep a visual barrier. Add to the adjacent sale.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This is to widen the roads so semi trailers and equipment can operate more easily in the bone yard.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 7 /1 /2019</p>										
30 72217030-Monitor	28.5	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(1yr)	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; ; Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Planted red pine at densities to have a well stocked stand.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
50 72217050-Spray	59.1	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Pesticide	ERROR	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> spray to control deciduous competition</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Burn, Slash; Planting, Initial Plant Treatments:</p> <p><u>Acceptable</u> 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 /2021</p>										
63 72217063-Cut	10.8	6111 - Lowland Balsam Poplar	Poletimber Poor	75	1-50	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest and allow natural regen, stand is a mix of Quaking Aspen and Balsam Poplar. High water table but no standing water and the</p> <p><u>Specs:</u> ground was not spongy.</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> Protect snowmobile trail and signs</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2012</p>										

Total Treatment 412.6
Acres Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 217
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3B	5E
129	129	0	0	Aspen				
64	63	0	1	Cedar				1
99	95	0	4	Herbaceous Openland				4
10	10	0	0	Lowland Aspen/Balsam Poplar				
74	42	0	32	Lowland Conifers		32		
14	0	14	0	Lowland Deciduous	14			
21	21	0	0	Lowland Mixed Forest				
72	72	0	0	Lowland Shrub				0
28	0	0	28	Lowland Spruce/Fir			28	
283	282	0	1	Mixed Upland Deciduous				1
72	72	0	0	Natural Mixed Pines				
168	168	0	0	Oak				
5	5	0	0	Planted Mixed Pines				
150	138	12	0	Red Pine	12			
6	6	0	0	Upland Mixed Forest				
61	61	0	0	Upland Shrub				
43	43	0	0	Urban				0
1,299	1,207	26	66	Total Forested Acres	26	32	28	6
	93%	2%	5%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 217
Year of Entry: 2023

2	Unavailable	3B: Threatened, endangered, and special concern species	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treatments were removed from stands due to MNFI concerns during 2013 yoe.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand notes.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boundary-excluded retention left when stand 31 was cut (#017-13). Was merged with stand 36 post-harvest.							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 217
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11	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	2	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
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
1	4199 - Other Mixed Upland Deciduous	Sapling Medium	138.4	3	1-50	N/A	Stand has regenerated to fully stocked mixed upland deciduous with oak component. Oak % will likely go up once more gets above browse height.																																																												
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2	4130 - Aspen	Sapling Well	6.8	24	Immature	N/A	Changed stand from lowland to upland.. Stand set up in 1993, but harvested 1997.																																																												
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3	4130 - Aspen	Poletimber Well	9.8	37	51-80	N/A	In 1984 all trees which would yield one or more 100" pulpwood stick was cut by Champion International corporation.																																																												
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4	4123 - Red Oak	Sawtimber Poor	89.1	106	1-50	N/A	Mortality pocket in residual oak in south side of stand. Northeast has good pine component in understory.																																																												
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5	4124 - Red with White Oak	Sawtimber Poor	44.8	106	1-50	N/A	Large diameter oak with mixed upland deciduous in understory. Pockets of oak recruitment present but, it seems to be a pretty even split between oak,, maple,, and aspen across the stand. Hartwick Pines State Park adjacent to north.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
6	4131 - Aspen, Oak	Sapling Well	20.5	24	1-50	N/A	Rolling aspen with oak heavier oak component towards middle of stand. Stand harvested 1997, Summer Fawn Sale #72-052-93.																																																								
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7	4199 - Other Mixed Upland Deciduous	Sapling Well	104.0	26	Immature	N/A	Stand was harvested at different times. Southwest in 1994, southeast in 1995, and north in 1997 under Summer Fawn Sale #72-052-93, and Interstate Block #72-046-93. Mostly immature with a few pockets of pole size timber. Old comment- Good regeneration																																																								
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8	42110 - Planted Red Pine	Sawtimber Well	15.2	56	111-140	N/A	Stand thinned fall of 2020 under About Time Red Pine #72-044-19. Rx had residual target of 70-120 but, looks like most of stand was thinned down to 120. Changed age from 82 to 56 after coring a few trees. Stand is same age as stand 9. Ploce size in places but log size overall. A few x log oaks near perimeter not included in canopy data. Stand third Row thinned 2007.																																																								
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9	42110 - Planted Red Pine	Poletimber Well	12.1	56	201+	N/A	Stand has been row thinned. High BA red pine with a heavy maple understory. Scattered x-log size red pine and oaks that were planted around. Stand is same age as stand 8 to the north but was not included in previous treatment. Road/horse trail split stand.																																																								
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10	4131 - Aspen, Oak	Poletimber Well	71.5	37	1-50	N/A	Aspen stand transitions to oak and/or maple dominated areas. Shrubby open areas in valley bottoms. Trail 7 splits stand. East road is blow sand. Old comments- In 1984 all trees which would yield one or more 100" pulpwood stick was cut by Champion International corporation. Oak stump sprout right up there with the aspen and red maple good sign for stand #16.																																																								
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11	42250 - Pine, Oak	Sawtimber Well	22.2	112	111-140	N/A	Stand may have been thinned in 1994 but all oak was not removed (see old comments). Old comments- 1994 cut all oak and red maple and some red & white pine tree marked with orange paint. Pockets of dense white pine regen and a few areas of dense red pine along the west edge.																																																														
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12	4122 - Oak, Pine	Sawtimber Poor	34.4	102	1-50	N/A	Regen is good most places. Small sliver of stand in south between road and pipeline has not been treated and was merged in with stand 12. Old comments- Stand shelterwood harvested 2004, Field office Oak. Good regen of all species, lots of oak in the ground cover not yet 3' tall need more time. A few scattered JP & RP trees																																																														
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13	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	Grayling's weather station.																																																														
15	4199 - Other Mixed Upland Deciduous	Sapling Medium	40.8	4	Immature	N/A	Good response to harvest. Stand came back to fully stocked mixed upland deciduous with oak. Stand may have higher oak % in future if more recruits above browse height. Old comments- Was final harvested in 2017 (#012-13), cutting stems 2"+ DBH except island retention. Previous comments: Stand final harvested middle 30's. There is some regen of oak and aspen but mostly red maple. Kotar Habitat type (PVCd/PArVHA). Large red oak stems are present from stump sprout , and although oak seedlings are present in the understory it is not assured that they will be recruited into the canopy. Without intervention, red maple and white pine will largely displace the less shade tolerant red pine, aspen, and oak.																																																														
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17	320 - Upland Shrub	Nonstocked	50.7		Immature	4212 - Planted Jack Pine	Stand was final harvested fall of 2020, About Time Red Pine #72-044-19.Old comments- Red pine plantation planted around the residual oak. Lots of oak in the ground cover. Plenty of red maple stump sprouts, heavier red pine cover in the south and west part of the stand. Stand was set-up in 1993 and completed in 1995 of a mostly species																																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
18	4130 - Aspen	Poletimber Well	9.4	27	1-50	N/A	Stand is borderline pole size this yoe.Old comments- Stand harvested 1994, great oak regen staying up with the aspen.																																																						
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19	320 - Upland Shrub	Nonstocked	7.7		Immature	4211 - Planted Red Pine	Stand was harvested fall 2020 About Time Red Pine #72-044-19.Red maple strump sprouts, stand appears to have been final harvested in the early 40's leaving some oak, then red pine was planted. Red pine and red maple only a few years different in age. Kotar: PARVVB--																																																						
20	42110 - Planted Red Pine	Sawtimber Medium	12.2	76	51-80	N/A	Grayling field office bone yard. Stand thinned fall 2020 under About Time Red Pine #72-044-19. East and south sides along exit ramp and Hartwick Pines Rd were left untreated.																																																						
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23	42210 - Natural Red Pine	Sawtimber Poor	6.9	70	1-50	N/A	Open red pine with some white pine and fir in understory and openings in most places. Pocket of aspen and jack pine in north. Ground gets a little wet in the south.Old comments- Stand was treated 93-94, everything taken but the red pine. Stand was harvested back in the 1940's, current stand is the residual red pine trees that were left. Open grown and very branchy.																																																						
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24	42290 - Natural Mixed Pine	Poletimber Poor	12.1	28	1-50	N/A	Open grown weeviled out white pine and cherry. Old borrow pit of some sort in east side of stand.Old comments- Stand final harvest 1993, but the residual trees meet the requirement of a forested stand.																																																						
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25	42210 - Natural Red Pine	Sawtimber Medium	16.4	70	81-110	N/A	Healthy red pine stand with ba around 100 in most places. Stand has a shrubby understory. Merged stand east of Wilcox (27) with west stand (25) due to similar composition and age. Ba gets higher in a couple spots east of Wilcox but in that 80-110 range in most places. Old comments- Stand is adjacent to M-93 which is the main road leading to Hartwick Pines State Park.																																																													
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26	6124 - Lowland Spruce-Fir	Poletimber Medium	9.7	45	81-110	N/A	Split upland north half of stand into separate stand (126). Changed from log size to pole size. Saturated soil through most of stand. Legacy white pine in the north where its a little dryer but, most of stand is pole sized fir/spruce with open alder pockets. Old comments- Stand changes a lot, it switches from White pine, balsam, spruce to Aspen white pine with scattered red pine with jack pine mixed in. Wilcox Bride Roadk an a old grade created a small wet site with tag alder along the east side.																																																													
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28	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	6.3	30	Immature	N/A	Changed stand type from open water to forested. Multiple springs in north converge into a network of creeks through stand. Mostly sapling size tamarack, cedar, spruce with occasional pole. Cedar regen is recruiting above browse height in places. Looks like stand may have been beaver pond at some point.																																																													
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30	310 - Herbaceous Openland	Nonstocked	32.1	0	Unspecified	4211 - Planted Red Pine	Patchy RP saw cover scattered across an upland shrub opening was clearcut in 2017 (#017-13), leaving boundary-excluded retention. C72-838 submitted for planting RP. Cultivation work was delayed while MNFI survey was conducted; work has been cleared to proceed. Site was roller-chopped in 2019. Site-prep sprayed by FRD skidder Sept 2020. FRD trenched Nov 2020. Planted 900 TPA PRT RP April 2021.																																																													
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31	6229 - Mixed lowland shrub	Nonstocked	4.4	0	Immature	612 - Lowland Coniferous Forest	<p>Black spruce, red maple, white pine, fir, tamarack, and red pine all present. Red maple is heavily browsed but starting to reach 6'. Conifers are about 1-2' now and can't be counted as acceptable regen yet. Looks like there's enough where it may recruit to moderately stocked lowland conifer. Some open patches that look like they were sparsely forested prior to cut.</p> <p>RP & black spruce growing on intermediate to low ground was clearcut by May 2017 (#017-13), with boundary-excluded retention on the south edge (now part of stand 36). C72-838 submitted for planting RP. Cultivation work was delayed while MNFI survey was conducted; work has been cleared to proceed. Site was checked Nov 2018 for next step cultivation needs. Most of the original stand will be unsuitable for cultivation work due to the seasonal high water table. The drier portion was merged with stand 30. Current cover is sparse, with RM stump sprouts that are being browsed and scattered residual NWC. Low shrub groundcover that could be seen above the snow was mainly sheep laurel & Labrador tea; other groundcover estimates are rough.</p>																																																															
32	320 - Upland Shrub	Nonstocked	3.1			No	Shrubby opening full of cherry brush and hawthorn. Some scattered open grown jack pine, fir, white pine, and red pine present as well.																																																															
33	6124 - Lowland Spruce-Fir	Sapling Medium	6.0	40	1-50	N/A	Forested spruce/fir swamp with open pockets of alder. Old comments- Made remote call to correct covertime to lowland; was coded Low-Density Tree, which is an exclusively-upland covertime. Original June 2011 Potter comments: In 1983 approximately 38 cords of cedar were cut plus 6 cords or paper birch for the department's use. The stand is mainly Tag alder with areas of heavy black spruce and red maple sapling. The stand has some scattered residual Black spruce, Red maple, cedar and Tamarack but it does not meet the current requirement for a forested stand.																																																															
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35	6223 - Inundated Shrub Swamp	Nonstocked	3.1			No	<p>Grass, cattails, and alder. Dead standing cedar and pine. A few scattered live tamarack, fir, and cedar saplings.</p> <p>Old comments- Old beaver dam which has been abandoned but is in place and is backing up the water.</p>																																																															
36	6120 - Lowland Cedar	Poletimber Well	46.5	112	141-170	N/A	<p>Cedar swamp that narrows along a stream in the north. Very wet and mucky. Pockets of dense fir and blow down make some parts difficult to traverse while others have a dense canopy of cedar with no understory. Old comments- Standing water, Tamarack located mostly on the edge and Wilcox bridge road. More tag alder around stand 29. There is a over-flow drainage from Bright & Glory Lake with defined banks, but Wilcox bridge road created a sort of dam which cause the water to back up and spread out.</p>																																																															
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37	4319 - Mixed Upland Forest	Sawtimber Well	5.5	107	81-110	N/A	<p>Changed from lowland to upland with lowland. Species composition indicate stand to be upland. Old comments- Interesting stand it appears the red maple other hardwoods were removed at one time, no records.</p>																																																																
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38	6120 - Lowland Cedar	Sawtimber Well	9.4	120	141-170	N/A	<p>Portion of stand adjacent to M93 has a creek that runs adjacent to road. Stand has some areas where cedar ba is greater than 200. Dense fir understory in eastern portion. Close to an acre in south tip contains natural white and red pine mixed in with cedar on some upland/lowland transitional ground. Old comment- A narrow band of cedar</p>																																																																
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39	6113 - Lowland Maple	Poletimber Well	13.9	78	51-80	N/A	<p>Changed from lowland to lowland with upland. Stand looks like it would be operable most times of year. A lot of it looks like transitional ground between lowland (stand 38) and upland (stand 37). Mostly pole size maple with fir understory.</p> <p>High water table, scattered large mature red and white pine throughout the stand. Only found couple of live paper brich</p>																																																																
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40	6130 - Fir, Aspen, Maple	Poletimber Medium	11.7	65	1-50	N/A	<p>Stand was final harvested in 1995 except leave all cedar, 5-Shot Hare Block #72-020-93. According to records east drainage was not harvested due to it being too wet. Stand has some areas that appear more upland. Fingers of residual pine and fir left unharvested. Looks like most of the fir was left and got a jump on the hardwoods. Changed canopy and age to reflect fir as dominant species. Open alder, cattail, and seasonal standing water pocket on east edge split from stand.</p> <p>Old comments- A few residual trees, but red maple is from the regen.</p>																																																																
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41	42210 - Natural Red Pine	Sawtimber Medium	11.9	107	81-110	N/A	<p>Large diameter natural pine. Most trees have reached x-log size class. Some of the red pine is showing signs of stress. High to full white pine regen in understory.</p> <p>Stand was thinned in 1996, Private Line Sale #72-058-93. Trees marked with orange paint were to be cut in addition to all red maple.</p>																																																																
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42	6220 - Alder/willow	Nonstocked	2.6	0		No	Split this non-forested drainage from surrounding stands. I'm not sure if this is seasonal or holds water all year. Water looked to be about knee deep when I looked at it in April. Alder and cattail mostly.																																																											
43	6123 - Lowland Fir	Poletimber Poor	10.1	49	1-50	N/A	WL has created horizontal cover for snowshoe hare in stand through dozer work and hinge cutting in 2019. Variable stand depending on water table. Pocket of mature cedar and maple on west edge. Old comments- Stand was treated back in 72 when the aspen stand across the road was treated. Some of the Black spruce is residual and a little older.																																																											
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44	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	10.5	17	1-50	N/A	Changed stand from MC7 to MC 2 with super canopy pine (around 10% of canopy). Surprising about of natural red pine regen following harvest. Wet drainage runs through South side of stand up into stand 38. Old comments- Stand thinned in 1996, Private Line Sale #72-058-93. Stand was final harvested in 2003-2004, Nostalgic Red Pine #72-008-03, All white pine was left in addition red pine trees were leave marked for visual management purpose. There was very good advance white pine regen along the private boundary. Currently there is nice red pine regen.																																																											
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45	6120 - Lowland Cedar	Poletimber Medium	7.7	102	81-110	N/A	Standing water with alder through most of stand. Cedar with fir sub-canopy on mounds above water table. Stand has higher ba along edges where its a little drier and cedar is bigger. A few legacy pines mixed in. Small pocket of cedar with black spruce mixed in.																																																											
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46	42140 - Planted Mixed Pine	Poletimber Medium	5.3	47	51-80	N/A	Changed age from 36 to 47 years old and made scotch pine the dominant species. Scotch pine is is very sweepy. Previous inventory calls this planted but, rows are not apparent on the ground. Old comments- Small stand of mostly planted jack with some scotch pine mixed in. What I can not tell or have record for is was this jack & scotch pine put in after or was left after the 1972 harvest, because the pine mix extend onto the adjacent private. Checking the photos no plantation on the 78's. but you can see it on the 88.																																																											
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47	4130 - Aspen	Poletimber Medium	5.7	49	51-80	N/A	Small aspen considering age. Pockets of immature aspen mixed with pockets of 7-8" poles. Heavy cherry component in sub canopy.																																																													
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48	4130 - Aspen	Poletimber Well	5.3	49	51-80	N/A	Stand is very similar to stand 47. Aspen seems a bit small for its age. Small oak component in understory in the north.																																																													
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49	42110 - Planted Red Pine	Sawtimber Well	4.3	55	141-170	N/A	Stand total ba is around 170, red pine ba is 162. BA is somewhat variable ranging from 90 to 270. Row spacing is tight in most places.																																																													
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50	310 - Herbaceous Openland	Nonstocked	65.6	0	Unspecified	4211 - Planted Red Pine	Poor quality aspen stand was clearcut with retention by August 2017 (#017-13), leaving scattered xlog WO, BRO & RP, and two ret islands on the east edge. C72-838 submitted for planting RP. Cultivation work was delayed while MNFI survey was conducted; work has been cleared to proceed. A-O regen was masticated by contractor in Jan 2021. Site was trenched in April 2021.																																																													
51	42210 - Natural Red Pine	Sawtimber Poor	10.3	70	51-80	N/A	Natural red pine with a couple larger pine getting that legacy look to them. Changed age from 75 to 70. Red pine and red oak were protected and stand was thinned down to 50 BA. Not much coming up in understory in south after previous thinning. High density red maple regen in north but called it medium over whole stand. Stand also transitions from red pine to more white pine in north finger. Old comment- All jack pine and red maple harvested last YOE 2007.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
53	6122 - Black Spruce	Poletimber Well	19.0	86	81-110	N/A	Spongy ground, pretty wet in April as expected. Good looking spruce and white pine. Merged stand 55 with 53 due to similar attributes. Small pocket of legacy white pine in north east visible from aerial photos. Previous comment- Treatment dropped through approved variance on 12-23-2016. Prescription dropped due to overlap with ERA to the north. Old comment- High water table but dry enough to be harvested in the winter or a dry summer. Trees average 3-7 sticks			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		86	Pole/Log	8	86	Black Spruce		Low	Variable	Sapling
White Pine		10	Log/Pole/XLog	10		White Pine		Low	Variable	Sapling
Red Pine		2	Log/Pole	10		Michigan Holly		Medium	Variable	Tall Shrub
Tamarack		2	Pole	7		Nannyberry		Medium	Variable	Tall Shrub
						Serviceberry (Juneberry)		Medium	Variable	Tall Shrub
54	42110 - Planted Red Pine	Sawtimber Well	24.0	60	111-140	N/A	Not much sub canopy in south but, turns to dense maple in north.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		93	Log/Pole	10	60	Black Cherry		Low	Variable	Sapling
Jack Pine		4	Pole/Log	8		Red Maple		Medium	5 - 10 feet	Sapling
Black Cherry		2	Pole	7						
White Pine		1	Log/XLog	16						
56	42110 - Planted Red Pine	Poletimber Well	7.1	54	171-200	N/A	Red pine plantation never been thinned. High ba with no sub-canopy. Old paint on trees. Stand was laid out but never got cut, Potters Lowland Mix #72-019-13.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		97	Pole/Log	8	54	Black Cherry		Trace	5 - 10 feet	Sapling
Jack Pine		2	Pole/Log	8						
Quaking Aspen		1	Pole/Log	8						
57	42110 - Planted Red Pine	Sawtimber Medium	29.6	54	81-110	N/A	Unsure of past management in this stand prior to 2007 cut. Would have changed stand from natural even aged red pine to two aged planted red pine, but could not due to mifi parameters. Most of stand looks like pockets and fingers of planted red pine the same age as stand 56 around areas of 118 year old natural pine. There's also a few rows of 62 year old planted red pine that extend into private on the west finger. BA ranges from 50-140. Lowland piece in southeast maple aspen split from stand 61 and merged with 57. Old comments- Stand was thinned in 2007 and all red maple, aspen, and jack pine was removed. This is a nice natural stand of red pine with a couple of small red pine plantations these were also marked last YOE.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Oak		2	Log	14		Red Maple		Medium	>20 feet	Sapling
Paper Birch		2	Pole	8		Balsam Fir		Low	Variable	Sapling
Red Pine		84	Log/Pole/XLog	14	54	White Pine		Low	Variable	Sapling
Jack Pine		2	Pole/Log	8		Black Cherry		Medium	5 - 10 feet	Sapling
Quaking Aspen		5	Log/Pole	10						
Red Maple		2	Pole/Log	8						
White Pine		3	Log/Pole/XLog	15						
58	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	32.1	86	1-50	N/A	Stand changes from tamarack to cedar to fir/alder depending where you are. Large scattered legacy white pine found through most of stand. Standing water in most places. Previous inventory said white pine was 115 years old but I would guess most are over 130. Old comments- Scattered trees through out the stand some in clumps with strips of tag alder. The stand is mostly large white pine and tamarack with red maple and paper birch mixed in.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		5	Pole	8		Balsam Fir		Medium	Variable	Sapling
Paper Birch		2	Pole	8		Tag Alder		High	Variable	Tall Shrub
Tamarack		35	Pole	8	86	Nannyberry		High	Variable	Tall Shrub
White Pine		31	XLog	24	115	Black Spruce		Low	Variable	Sapling
Northern White Cedar		7	Log/Pole	10						
Balsam Fir		20	Sapling/Pole	4						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
59	6220 - Alder/willow	Nonstocked	22.3		Unspecified	No	Split northern forested piece (stand 159) from non forested alder. Some scattered trees mixed in.																																																												
60	6220 - Alder/willow	Nonstocked	39.6			No	Alder swamp with some open water due to beaver dams, edge call.																																																												
61	6130 - Fir, Aspen, Maple	Poletimber Well	9.0	51	81-110	N/A	Changed from upland to lowland with upland. Pocket of blowdown with fully stocked fir regen coming up. All jack pine 4 inches and larger was cut 1971, stand is a mix of stuff. Quaking Aspen, Balsam fir west side. Aspen impacted with black canker, Residual larger white pine also mix in.																																																												
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62	6122 - Black Spruce	Poletimber Well	9.4	86	81-110	N/A	Soft spongy ground dominated by spruce. Previous comments- Treatment dropped through approved variance on 12-23-2016. Prescription dropped due to overlap with ERA to the north.																																																												
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63	6111 - Lowland Balsam Poplar	Poletimber Poor	9.6	75	1-50	N/A	This stand was included in a timber sale that purchaser defaulted on contract. No work was completed. Very wet aspen stand. A lot of the stand is open tag alder with scattered balsam poplar and quaking aspen. Standing water through most of stand when I assessed it in April. Old comments- Aspen is dying off. Rot present throughout stand. Some areas are not as wet so better aspen with balsam fir regen. Ground cover is grasses, choke cherry, bracken fern in the drier areas.																																																												
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64	42290 - Natural Mixed Pine	Sawtimber Well	16.9	61	51-80	N/A	South is more open jack pine and fir mix. North has a few acres of log size natural red pine with full fir understory. Stand is operable but, could have some potential for rutting in areas (some hummacky areas). Changed age from 50 to 61 after coring. Looks lithe jack pine on site was the sub-merch stuff left after previous harvest. All jack pine 4 inches and larger was cut 1971. Stand is interesting mostly jack pine with white pine but there are a few small pockets of dog hair balsam fir. No record of harvesting balsam fir, but I am sure it was harvested with the jack pine.																																																												
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126	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	10.4	62	81-110	N/A	Stand 126 is the upland portion split from parent stand 26. Natural red pine stand with an aspen component. Stand age used to be 112 but, changed it to 62 after coring multiple red pine. There are a few scattered legacy looking trees that are in the 100-150 year age class but, the rest of the canopy is younger. Red pine grows very good in this stand. Old comments from parent stand 26- Stand changes a lot, it switches from White pine, balsam, spruce to Aspen white pine with scattered red pine with jack pine mixed in. Wilcox Bride Roadk an old grade created a small wet site with tag alder along the east side.																																																			
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159	6123 - Lowland Fir	Sapling Poor	9.7	46	1-50	N/A	Split forested piece (stand 159) from non forested alder (59). Standing water in a lot of places.																																																			
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401	110 - Low Intensity Urban	Nonstocked	8.5			No	Roberts Road, horse trail, powerline, and high pressure pipeline																																																			
402	110 - Low Intensity Urban	Nonstocked	3.5			No	Grayling's back parking lot and buildings																																																			
403	123 - Other High Intensity Urban	Nonstocked	21.7			No	South Boundary I-75 and MDOT right of way. Timber inside row.																																																			
404	122 - Road/Parking Lot	Nonstocked	1.3			No	Off ramp I-75																																																			
405	122 - Road/Parking Lot	Nonstocked	5.3			No	Wilcox Bridge road and Hartwick Pines Rd.																																																			
406	122 - Road/Parking Lot	Nonstocked	1.4			No	Lewiston Grade Road																																																			
407	122 - Road/Parking Lot	Nonstocked	1.8			No	Lewiston Grade Road																																																			