



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72265

Entry Year 2023

Acreage: 1,721

County Crawford

Management Area: Camp Grayling

Revision Date: 2021-03-24

Stand Examiner: Scott McClarren

Legal Description:

T28N, R02W, Sections 25, 26 and 27

Identified Planning Goals:

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

Soil and topography:

Soils are mainly Graycalm sand with some Klacking sand on the east side of the compartment. The terrain is gently rolling throughout most of the compartment. There are several steeper slopes near KP Lake.

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

The majority of the compartment is state ownership leased to the Department of Military Affairs for training purposes under L-1479 or is owned by the Department of Military Affairs. There are several private inholdings within the compartment. Some are being used as year round residences and others are being used seasonally.

Unique Natural Features:

High-quality bog, dry northern forest, northern fen and rich conifer swamp to S, pine barrens and intermittent wetland are found to the west and poor fen is located to the north. Rough fescue is found in the SW 1/4 of section 17, and Hill's thistle and Alleghany plum are in the vicinity. There is potential for dusted skipper, grizzled skipper, red-legged spittlebug, Henry's elfin, secretive locust, blazing star borer, pale agoseris, and Alleghany plum in barrens in the compartment. There is potential for red-shouldered hawk, goshawk, Kirtland's warbler, Blanding's turtle, and massasauga in the compartment. There is some potential for false violet and fleshy stichwort in hummocky pine or aspen stands.

Archeological, Historical, and Cultural Features:

There are occurrences of Archeological and Historical significance in the compartment.

Special Management Designations or Considerations:

The KP Lake Owners Association is located on the west side of the Compartment. Many year round residences and seasonal residences surround this lake.

Watershed and Fisheries Considerations:

The east shore of KP Lake lies within the compartment and is privately owned.

Wildlife Habitat Considerations:

Manage for forest health, productivity, sustainability, species diversity and structural diversity. Continue treatments to maintain habitat. Important wildlife species are deer, turkey and grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is located in the northwest of Section 27 and potential appears to be good. This is part of the State Military lease land. One Guelph (Niagaran) reef well was drilled in Section 26, and is the only well drilled in the township. There are no current leases in this compartment. The closest production is the Antrim Shale gas play three miles to the northeast.

Vehicle Access:

This compartment has excellent vehicle access. There are forest trail roads, recreational trails and the following county roads: Wakely Bridge, KP Lake Rd, Co Rd 612, Fruit Farm Rd, and Range Rd. Some of the county roads are seasonal due to military training restrictions.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Grayling-Lovells Snowmobile Trail #47 traverses through east part of the compartment. The area receives heavy hunting pressures, especially during grouse hunting season. There is a public access site on KP Lake, just to the west of the compartment.

Fire Protection:

The entire compartment consists of upland hardwoods and has rolling terrain. Access for fire suppression is good. There is access for a water source to KP Lake at the Public Access Site.

Additional Compartment Information:

The following reports from the Inventory are attached:

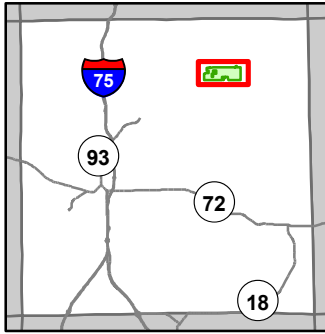
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

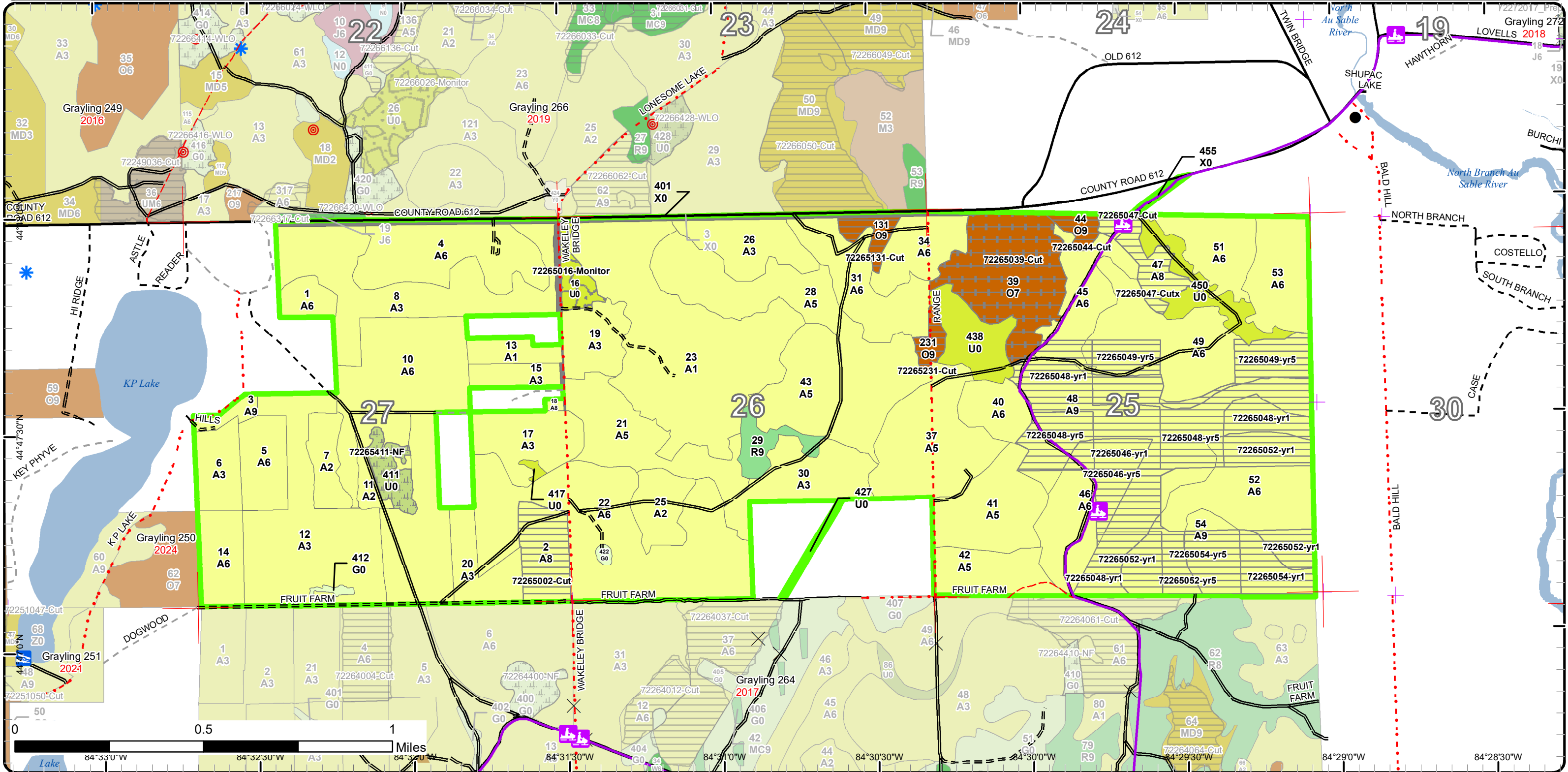
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 265
 T28N, R02W, Sec: 25-27
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2023
 Acres: 1721.3 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review

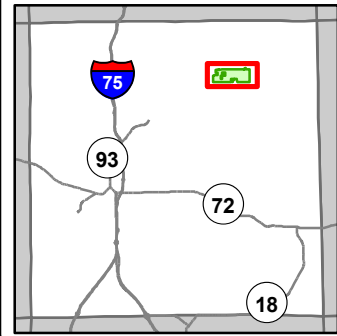


- Miris Corners
- ⊕ Remonumented Section Corners
- ⌚ Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🛷 Snowmobile Trails
- 🛷 Designated Snowmobile Trails
- 🚤 Boating Access Site
- City
- ⋯ Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🟩 Compartment Boundary
- 🟩 Other Treatment - See Comments
- 🟩 Clearcut (w/Reserves)
- 🟩 Harvest, Overstory Removal
- 🟩 Regeneration Survey
- 🟩 412 - Oak Types
- 🟩 413 - Aspen
- 🟩 421 - Planted Pines
- 🟩 122 - Roads/Parking Lot
- 🟩 310 - Herbaceous Openland
- 🟩 320 - Upland Shrub
- 🟩 330 - Low Density Trees
- 🌊 Camp Grayling Monitoring Wells
- 🎯 Camp Grayling Firing Point
- ✂ Camp Grayling Gates

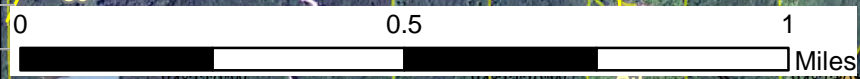
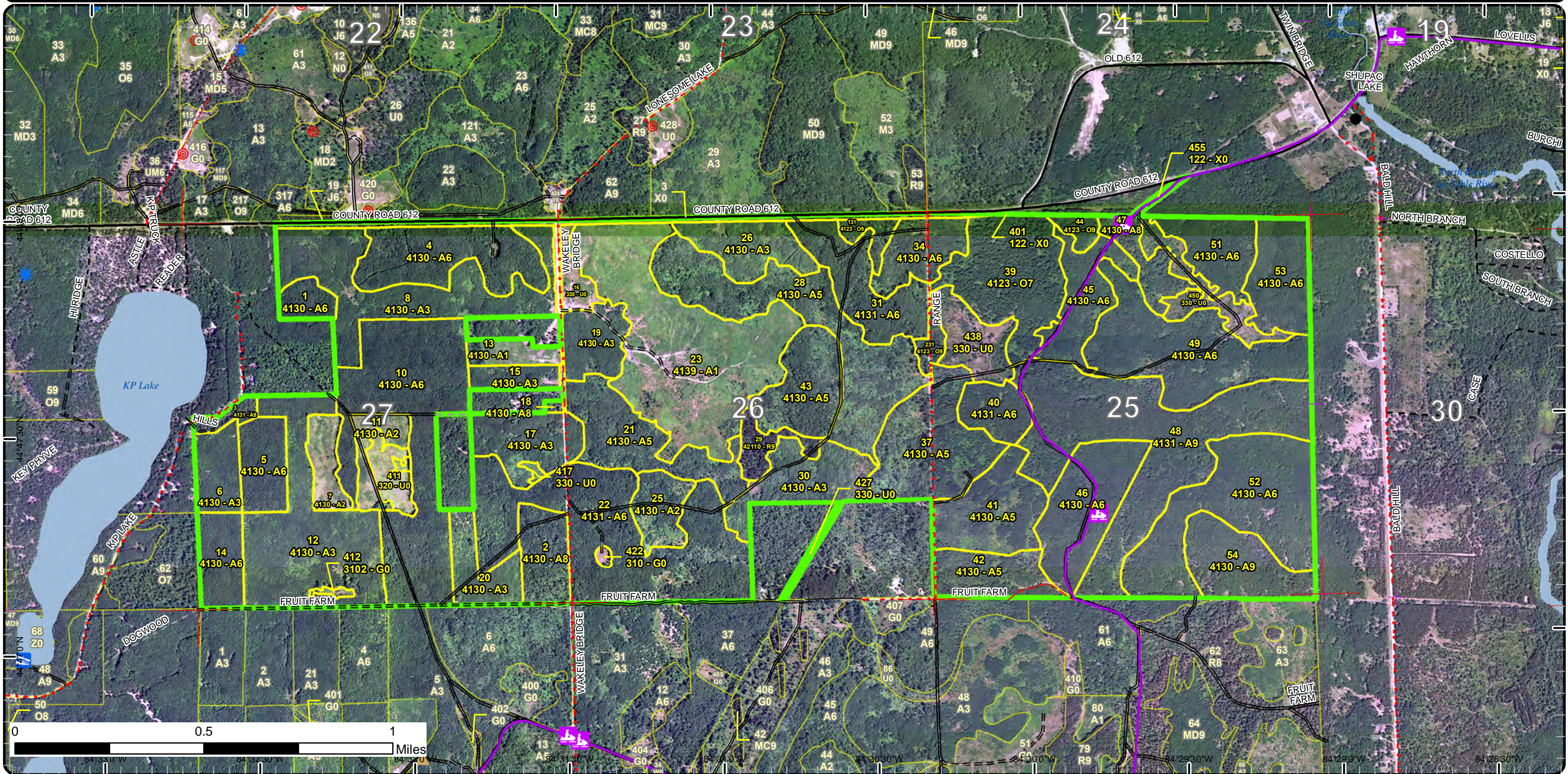


Stand Boundary Map

Compartment: 265
 T28N, R02W, Sec: 25-27
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2023
 Acres: 1721.3 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review



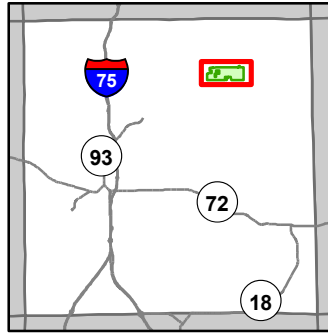
- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Boating Access Site
- City
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- Camp Grayling Firing Point
- Camp Grayling Gates
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- Camp Grayling Monitoring Wells



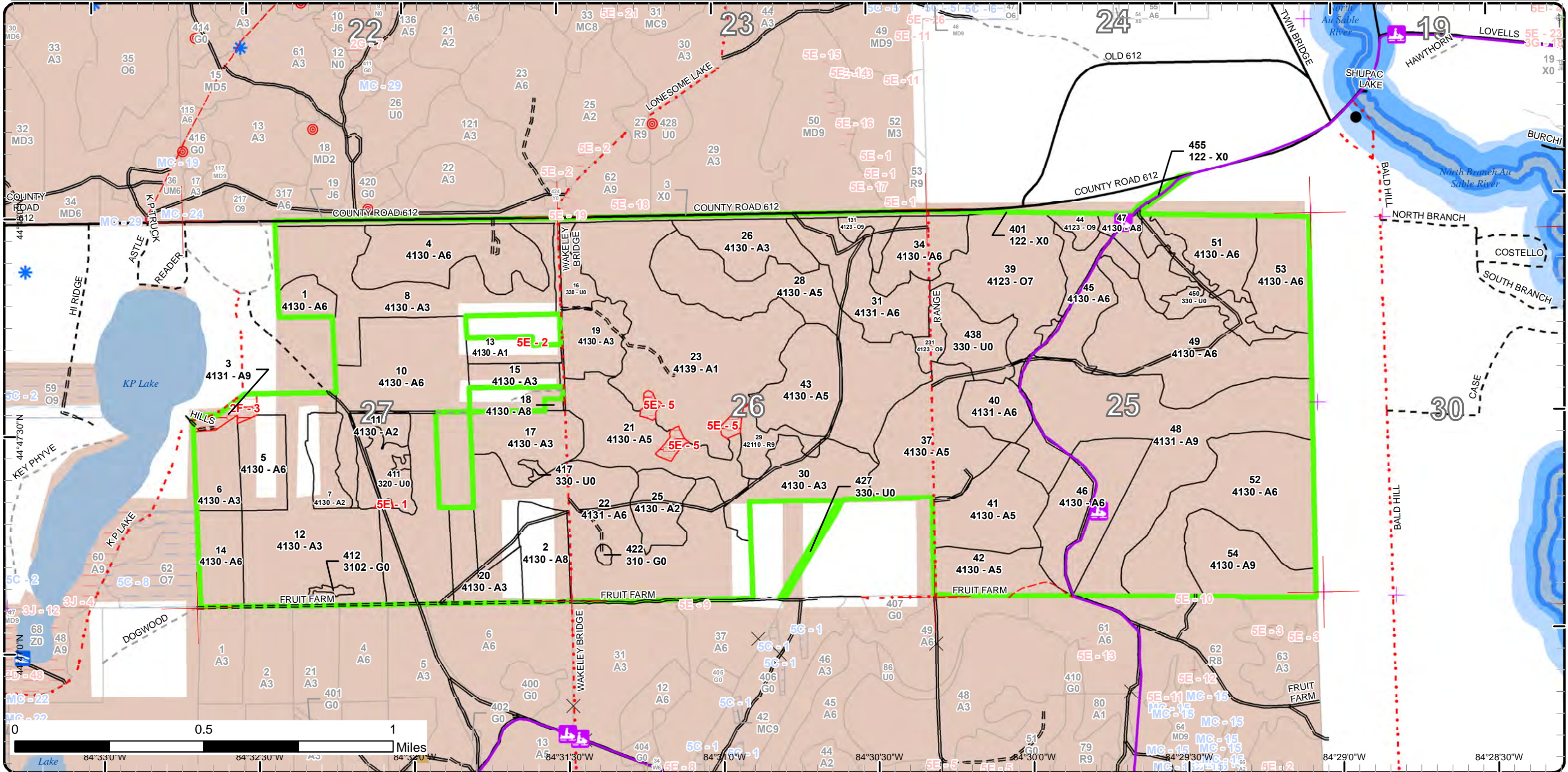
84°33'0" W 84°32'30" W 84°32'0" W 84°31'30" W 84°31'0" W 84°30'30" W 84°30'0" W 84°29'30" W 84°29'0" W

Special Conservation Areas

Compartment: 265
 T28N, R02W, Sec: 25-27
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2023
 Acres: 1721.3 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Boating Access Site
- City
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- * Camp Grayling Monitoring Wells
- Camp Grayling Firing Point
- × Camp Grayling Gates



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 265 Year of Entry 2023

Scott McClarren : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	152	307	233	667	0	36	158	0	0	0	0	0	0	0	0	0	0	1553
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Low-Density Trees	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Oak	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	71
Red Pine	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Upland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Total	87	152	307	233	667	0	36	158	11	71	0	0	0	0	0	0	0	0	1720



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 265

Total Compartment Acres: 1,721

Commercial Harvest - 334
 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	268	0	0	0	0	0	0	0	0	268
Oak	12	0	0	0	0	0	54	0	0	66
Total	280	0	0	0	0	0	54	0	0	335

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	335	0	0	0	0	0	8	0	11	353
Next Step	0	0	0	0	0	0	280	0	0	280
Total	335	0	0	0	0	0	289	0	11	634



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:

2	72265002-Cut	20.7	4130 - Aspen	Sawtimber Medium	51	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" at DBH. No retention to maximize aspen regeneration. Add drumming log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen is objective but will accept any mix of species. Expect the southeast and middle portions of stand to come back moderately stocked. <u>Regen:</u></p> <p><u>Other</u> Encourage purchaser to harvest in winter to maximize aspen sprouting and to reduce the risk of rutting. <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

16	72265016-Monitor	8.4	330 - Low-Density Trees	Nonstocked 2020			Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Stand failed to meet minimum stocking for aspen and associated species. Reassess stocking during 2033 inventory to see if heavy browsed trees recruit above 6 feet. If monitoring fails to meet minimum stocking, accept as poorly stocked. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any mix of aspen, cherry, maple, and oak. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

39	72265039-Cut	54.2	4123 - Red Oak	Sawtimber Poor	83	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all merch stems. Protect regen. Add oak wilt specs, military specs, and snowmobile specs. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Maple, oak, and aspen are already established in understory. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											



Stand

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
44	72265044-Cut	5.2	4123 - Red Oak	Sawtimber Well	83	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2". Oak wilt specs. Military specs. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Mixed deciduous with 30% oak is desired. Any combination of oak, aspen, or maple will be accepted. <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>											
46	72265046-yr1	7.0	4130 - Aspen	Poletimber Well	34	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming <u>Specs:</u> log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, will accept any mixture of species. <u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>											
46	72265046-yr5	10.3	4130 - Aspen	Poletimber Well	34	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming <u>Specs:</u> log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, any combination of species will be accepted. <u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes. <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2027</p>											
47	72265047-Cut	2.3	4130 - Aspen	Sawtimber Medium	50	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut piece west of snowmobile trail with stand 44. Steep fill where snowmobile trail/railroad grade divides stand. Leave all red pine. Add <u>Specs:</u> military specs and snowmobile trail specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Expect poorly stocked aspen as there are only a couple patches of aspen and this piece of stand is very open now. Any combination of <u>Regen:</u> species will be acceptable</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
47 72265047-Cutx	12.4	4130 - Aspen	Sawtimber Medium	50	1-50	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut no retention. Leave all red pine. Boundary can be backed off trail 50-100 feet since its just a few scattered red pine with oak saps</p> <p><u>Specs:</u> below. Treatment has been drawn in to reflect where boundary should go. Add grouse drumming log spec, shrub protection spec, military specs, and snowmobile trail specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderately stocked aspen goal, but accept any species combination is acceptable.</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>										
48 72265048-yr1	56.7	4131 - Aspen, Oak	Sawtimber Well	65	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming</p> <p><u>Specs:</u> log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, will accept any mixture of species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
48 72265048-yr5	63.3	4131 - Aspen, Oak	Sawtimber Well	65	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming</p> <p><u>Specs:</u> log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, any combination of species will be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
49 72265049-yr5	26.9	4130 - Aspen	Poletimber Well	35	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming</p> <p><u>Specs:</u> log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, any combination of species will be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</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
52 72265052-yr1	30.5	4130 - Aspen	Poletimber Well	36	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, will accept any mixture of species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
52 72265052-yr5	8.8	4130 - Aspen	Poletimber Well	36	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, any combination of species will be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</p>										
54 72265054-yr1	14.6	4130 - Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, will accept any mixture of species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
54 72265054-yr5	14.9	4130 - Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" DBH. Leave a few vigorous white oak near the trail if available for visual break up. Add grouse drumming log spec, shrub protection spec, snowmobile trail specs, and military specs.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective but, any combination of species will be accepted.</p> <p><u>Regen:</u></p> <p><u>Other</u> Staggered aspen treatments in new grouse blocks to break up age classes.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2027</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
131 72265131-Cut	6.7	4123 - Red Oak	Sawtimber Well	83	111-140	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems except leave all white oak. Add military specs and oak wilt spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed deciduous goal with 30% oak however, any combination of species is acceptable. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
231 72265231-Cut	5.2	4123 - Red Oak	Sawtimber Well	83	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2" except leave all white oak for future seed source. Add oak wilt and military specs. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed deciduous with a goal of 25% oak but, any combination of species will be accepted. <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
411 72265411-NF	10.5	320 - Upland Shrub	Nonstocked	2020		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. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 358.6

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 265
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2F	5E
		With Condition	Not Available			
1553	1542	0	12	Aspen	5	7
2	2	0	0	Herbaceous Openland		
52	52	0	0	Low-Density Trees		
71	71	0	0	Oak		
11	11	0	0	Red Pine		
11	11	0	0	Upland Shrub		0
21	21	0	0	Urban		
1,721	1,710		12	Total Forested Acres	5	7
	99%		1%	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	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
1	4130 - Aspen	Poletimber Well	8.9	36	51-80	N/A	A few scattered aspen reaching saw size class. Stand is healthy. Old comment: Good quality aspen stand. All corners are in, no treatment at this time.																																																		
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2	4130 - Aspen	Sawtimber Medium	20.7	51	51-80	N/A	Private on the west side of Wakely was acquired later and merged into stand 22. Stand was split into stand 2 during 2023 inventory since it was older than stand 22. Inventoried as upland in the winter but, looks like one of those stands where rutting could be an issue if harvested. Lot of conks developing on aspen. Southeast and middle portions of stand have lower BA and are closer to 50% canopy closure. North has higher BA and is closer to 75-100% canopy closure.																																																		
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3	4131 - Aspen, Oak	Sawtimber Well	5.1	64	81-110	N/A	Changed age from 74 to 64 years old and went from oak to aspen/oak. Old comments-Sawlog sized stand separated from pole sized stand by deep ravine. North line is denoted by county road. About a 2 acre pocket of dying aspen, could be cut and is operable, but the rest is pretty steep and would need to be hand cut and possibly cabled.																																																		
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4	4130 - Aspen	Poletimber Well	44.7	36	81-110	N/A	Very close to being considered saw size stand on west side. Looks like quite a bit of 16-20 inch oak left along the 612 after previous harvest (either for visual or mast). Changed stand age from 15 to 36 from cutting records (SM).																																																		
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5	4130 - Aspen	Poletimber Well	19.6	34	1-50	N/A	Old aerial imagery confirms stand was clearcut around the same time as stand 10. Stand has a northern hardwood sapling component mixed into aspen in parts of sub-canopy. Old comment- Stand was cut 20+ years ago, decent regen. Some birch. Just getting to merchantable status, Wait ten years until going into this stand. Do nothing.																																																		
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6	4130 - Aspen	Sapling Well	16.9	13	Immature	N/A	Changed maple cover from 55%-5%. old comment- stand cut in 2007 sale 726470701 kp lake aspen 2. nice regen.																																																																								
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7	4130 - Aspen	Sapling Medium	13.0	4	Immature	N/A	Aspen regen looks good through most of stand. A couple acres on west side are poorly stocked with heavy browse on seedlings. Overall stand meets regen objective. Open areas will likely fill in a bit over the next 10 years. Old Stand Comment: Stand harvested in 2014 under Aspen Alley Mix contract # 72-639-13-01. TAB 7/21/16. Trace of beech and ash. Sparse stand with pockets of aspen broken by numerous bare pockets and large maple clumps. Could be a good aspen stand if cut to try and expand aspen regen. Coppice Regen?																																																																								
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8	4130 - Aspen	Sapling Well	66.1	15	1-50	N/A	Aspen transitions back and forth between big tooth and quaking. Oak and maple also come and go. Sugar maple mixed in with aspen towards the middle and in south finger. Merged stand 2 with stand 8 during 2023 inventory. Old comments- Aspen stand previously cut under sale #720120401 Fighter Plane Aspen completed in 2005. Good regeneration.																																																																								
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10	4130 - Aspen	Poletimber Well	98.4	34	51-80	N/A	Changed stand age from 27 back to 34 after looking at aerial photos. Also changed from M3 to A6 cover. Fairly consistent sugar maple growing under aspen through most of stand. North half of stand aspen looks a little qmd than south half. Old comments-Thick cover of aspen, red maple and various other species. Looks to have been cut recently, previous inventory says 1986. Not much of merchantable size yet. Do nothing at this time.																																																																								
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11	4130 - Aspen	Sapling Medium	13.2	4	Immature	N/A	Patchy regen came back following harvest. About half fully stocked and half non stocked. Heavy browse keeping scattered interior trees from recruiting. Non-stocked portion split off as stand 411. Stand was harvested in 2014 under Aspen Alley Mix contract # 72-639-13-01. TAB 7/21/16 Old Stand Comment: Mixed hardwoods stand. Some of it is struggling and nothing of great quality.																																																				
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12	4130 - Aspen	Sapling Well	76.7	13	Immature	N/A	Healthy aspen with a good sugar maple component through most of stand. Old comments-stand cut under sale 726470701 kp lake aspen 2. nice regen.																																																				
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13	4130 - Aspen	Sapling Poor	9.9	7	Immature	N/A	Stand regenerated to moderately stocked aspen. Landing and skid trails are poorly stocked and heavily browsed but, may fill in soon. Old Stand Comment: Stand harvested in 2014 under Aspen Alley Mix contract # 73-639-13-01. TAB 7/21/16. Aspen is looking pretty sad. Private boundaries on north side, all corners are in. Some decent red pine throughout stand.																																																				
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14	4130 - Aspen	Poletimber Well	18.9	35	51-80	N/A	Good oak component mixed in with aspen. old comment- Good aspen regen, no sign of disease or decline. Evaluate in ten years. Do nothing at this time.																																																				
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15	4130 - Aspen	Sapling Well	9.9	16	Immature	N/A	Still immature with a couple pockets of aspen getting merchantable. Old comment: final harvested in 2005, fighter plane aspen. Good aspen regen, do nothing at this time.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
16	330 - Low-Density Trees	Nonstocked	8.4	2020		4130 - Aspen	Sparse/patchy regen and heavy browse triggered a quantitative natural regen survey. 293 total tpa greater than 6' height. quaking aspen= 129 tpa, black cherry= 146 tpa, red oak=18 tpa. If trees less than 6' height are included it bumps the stocking up to 605 tpa. Stand was harvested during 2014 under Aspen Alley Mix, contract # 72-639-13-01. Stand has started to regenerate well, keeping monitoring treatment on just as a follow up. Stand should not have an issue meeting MO. TAB 7/21/16 Old Stand Comments: Aspen with some oak throughout. Stand has some rolling terrain, good access.			
17	4130 - Aspen	Sapling Well	26.9	16	Immature	N/A	East side of Wakely was PU 3 of ZZ Top Aspen cut in 2005 #72-040-03. West side of road cut in 2005, Fighter Plane Aspen #72-012-04. Old comments-Decent regen in this stand. Not a whole lot of oak.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	10	Sapling	3		Black Cherry	High	Variable	Sapling
		Red Oak	3	Sapling	3		Red Maple	Medium	< 5 feet	Sapling
		Bigtooth Aspen	60	Sapling	3	16	Witch Hazel	High	5 - 10 feet	Tall Shrub
		Quaking Aspen	25	Sapling	3		White Oak	Low	< 5 feet	Sapling
		White Oak	2	Sapling	3					
18	4130 - Aspen	Sawtimber Medium	1.0	64	51-80	N/A	A small stand that was recently acquired. Has a cabin on it that appears to still being used. Do nothing at this time.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Bigtooth Aspen	90	Log	14	65	Quaking Aspen	Low	5 - 10 feet	Sapling
		White Pine	5	Pole	8		Red Maple	Low	Variable	Sapling
		Red Pine	5	Log	12	65	Ironwood	Medium	5 - 10 feet	Sapling
							Witch Hazel	High	5 - 10 feet	Tall Shrub
							Black Cherry	High	Variable	Sapling
19	4130 - Aspen	Sapling Well	19.7	15	1-50	N/A	Stand is starting to develop scattered pole sized aspen. Small open area on south boundary with a lot of serviceberry, hawthorn, and blackberry.Old comment: cut in 2005, ZZ Top Aspen. High density aspen regen.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	5	Sapling	3		Red Maple	High	Variable	Sapling
		Red Oak	3	Sapling	3		Black Cherry	Medium	< 5 feet	Sapling
		Bigtooth Aspen	40	Sapling/Pole	4		White Oak	Low	< 5 feet	Sapling
		Quaking Aspen	50	Sapling/Pole	4	16	Serviceberry (Juneberry)	Trace	>20 feet	Sapling
		Black Cherry	2	Sapling	3		Hawthorn (spp.)	Full	5 - 10 feet	Tall Shrub
20	4130 - Aspen	Sapling Well	18.9	13	Immature	N/A	Healthy A3 with oak component through parts of stand. Northern portion came back red maple and oak (60/40). Heavy browse on oak but, is starting to recruit nicely in between the maple and oak stump origin trees in that northern portion. Southeast is almost 100% quaking aspen.Old comment- stand cut in 2007 under sale 726470701 kp lake aspen 2. nice regen. not much oak coming back.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Oak	8	Sapling	3		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
		Quaking Aspen	48	Sapling	3	14	White Oak	Medium	Variable	Sapling
		Red Maple	15	Sapling	3		Red Maple	Medium	Variable	Sapling
		Bigtooth Aspen	20	Sapling	3		Ironwood	Low	5 - 10 feet	Sapling
		White Oak	5	Sapling	1		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
		Sugar Maple	2	Sapling	3		Red Oak	Medium	Variable	Sapling
		Black Cherry	2	Sapling	3		Sugar Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
21	4130 - Aspen	Poletimber Medium	40.6	26	Immature	N/A	Overall is pole size but, contains large areas of immature aspen and maple. Very heavy browse in this area, likely caused a delay in recruitment much like the recent adjacent cut in stand 23. Lot of w/ shrubs in stand. Clearcut in 1994. High density aspen regen. no treatment.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		3	Pole/Sapling	5		Red Maple		
Bigtooth Aspen		12	Pole	7		Serviceberry (Juneberry)		
Black Cherry		10	Pole/Sapling	5		Black Cherry		
Quaking Aspen		75	Pole/Sapling	6	27	Hawthorn (spp.)		
22	4131 - Aspen, Oak	Poletimber Well	107.0	34	51-80	N/A	East side of Wakely was cut in 1986 along with part of stand 27. West side of stand cut in 85. Small piece of private on the west side of Wakely was acquired later and merged into stand than split into stand 2 during 2023 inventory. Stand 27 was treated along with stand 22 and was merged with stand 22 during 2023 inventory. Old comments- Stand is approaching merchantable size. Look at it again in ten years. Oak is struggling, aspen looks good. Some steep terrain, has a well site in stand. Do nothign at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Pole/Sapling	6		Black Cherry		
Red Oak		20	Pole	7		White Oak		
Bigtooth Aspen		30	Pole	7	35	Red Maple		
Quaking Aspen		20	Pole	7		Witch Hazel		
23	4139 - Aspen, Mixed Deciduous	Sapling Poor	116.2	5	Immature	N/A	Meets standards for moderately stocked aspen. Stand is a mosaic of dense aspen with heavily browsed maple, cherry, and oak. Oak is heavily browsed and may recruit in openings over next 10 years. Merged stand 24 with 23 following 2023 inventory. Stand 24 old comments: Stand was harvested in 2014 under Aspen Alley Mix contract # 72-639-13-01. Stand is regenerating keeping monitor treatment on for followup. TAB 7/21/16 Old Stand Comment: Stand has large pockets of decent quality aspen throughout. Also has some spotty open areas and some areas with hypox. Stand 23 old comments: harvested in 2014 under Aspen Alley Mix contract # 72-639-13-01. Stand is regenerating leaving monitoring treatment on just as a followup. TAB 7/21/16 Old Stand Comment: mixed stand. Large aspen and oak. Aspen is starting to decline in areas. Diameter decreases to north of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		20	Sapling	1		Black Cherry		
Red Oak		5	Sapling	1		White Oak		
Bigtooth Aspen		5	Sapling	1		Red Maple		
Quaking Aspen		40	Sapling	1	6	Witch Hazel		
25	4130 - Aspen	Sapling Medium	16.4	15	Immature	N/A	Open areas have stump sprouted maple, cherry, and oak that have recruited above browse height but, still very open in these areas. Big tooth aspen looks good and healthy where it came back. Heavily browsed openings with patchy aspen is typical for this area. Old comments- Stand was cut in 2005, ZZ Top Aspen. Spotty regen, lots of open areas within stand. Do nothing.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		18	Sapling	3		White Oak		
Red Oak		7	Sapling	3		Red Oak		
Bigtooth Aspen		65	Sapling	3	16	Witch Hazel		
Quaking Aspen		10	Sapling	3		Black Cherry		
26	4130 - Aspen	Sapling Well	24.3	15	Immature	N/A	Old comments- Stand cut in 2005. ZZ Top Aspen. Thick aspen regen, 10-12 foot tall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		5	Sapling	3		Black Cherry		
Quaking Aspen		95	Sapling	3	16	Hawthorn (spp.)		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	4130 - Aspen	Poletimber Medium	75.4	26	1-50	N/A	Aspen can be considered pole size now. Dense areas of aspen mixed with sparsely scattered trees and shrubs in openings as result of heavy browse following harvest. Southeast half of stand is has lower ba and more open (25-50% in most places). Typical for aspen cuts in area. Sub canopy transitions from medium cherry to full red maple in places. Old comments- Dense aspen with an some pine and cherry scattered through understory. Stand was clearcut in 1994.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	56	Pole/Sapling	5	27	Hawthorn (spp.)	Low		5 - 10 feet	Tall Shrub
Black Cherry	10	Sapling/Pole	4		Serviceberry (Juneberry)	Low		Variable	Sapling
Red Maple	12	Sapling/Pole	4		Red Maple	High		Variable	Sapling
Bigtooth Aspen	20	Pole/Sapling	5		Black Cherry	Medium		Variable	Sapling
Red Oak	2	Pole/Sapling	5						
29	42110 - Planted Red Pine	Sawtimber Well	10.6	76	81-110	N/A	Changed stand from natural mixed pines to planted red pine. Appears to be ccc era red pine. Red pine still healthy.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	7	Pole/Log	8		Red Oak	Medium		Variable	Sapling
Red Pine	85	Log	14	76	White Oak	Medium		Variable	Sapling
Jack Pine	2	Log	10		Black Cherry	Medium		Variable	Sapling
Red Maple	6	Log/Pole	10						
30	4130 - Aspen	Sapling Well	31.8	15	Immature	N/A	Opening on east side of stand merged into stand 30. A few red and white pine scattered throughout. Old comments- Stand was cut in 2005 ZZ Top Aspen. Decent aspen regeneration, large openings in west end. Do nothing at this time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	25	Sapling	2		Red Maple	High		Variable	Sapling
Bigtooth Aspen	67	Sapling	3	16	Red Oak	Low		< 5 feet	Sapling
Red Maple	5	Sapling	3		Black Cherry	Medium		Variable	Sapling
Jack Pine	3	Sapling	3						
31	4131 - Aspen, Oak	Poletimber Well	35.1	37	81-110	N/A	Stand is mostly pole sized but, contains pockets of saw sized aspen. Split pocket of mature oak between stands 31 and 34 into stand 131. Also split southeast tip into separate oak stand 231. Old comments- Some merchantable sized throughout. Quality is decent, still very dense. Evaluate in ten years. Good access to stand, flat terrain. Some hypox throughout, larger aspen in Northeast corner.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Pole/Sapling	6		Red Oak	Low		5 - 10 feet	Sapling
Red Oak	20	Pole	7		Witch Hazel	Medium		5 - 10 feet	Tall Shrub
Bigtooth Aspen	65	Pole/Log	8	37	Red Maple	Medium		Variable	Sapling
					White Oak	Low		< 5 feet	Sapling
					Hawthorn (spp.)	Trace	5 - 10 feet	Tall Shrub	
					Black Cherry	Medium	Variable	Sapling	
34	4130 - Aspen	Poletimber Well	21.9	26	1-50	N/A	Most of larger oak is around perimeter and was split into new stand (131) or merged into adjacent stand (39). Strip of jack pine, red pine, and scotch pine along 612 looks like it was left for visuals. Old comment- Stand clearcut in 1995. Dense aspen regen on west side of stand. gets less dense as you go east. all similar sized, some larger oak throughout. Do nothing.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	25	Sapling/Pole	4		Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Quaking Aspen	60	Pole	6	26	Red Maple	Medium		Variable	Sapling
Black Cherry	8	Pole/Sapling	5		Black Cherry	Medium		Variable	Sapling
Red Oak	7	Log	14		Serviceberry (Juneberry)	Medium		Variable	Sapling
					White Oak	Low	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
37	4130 - Aspen	Poletimber Medium	51.0	35	51-80	N/A	Southwest portion of stand is much more open with cherry, oak, quaking aspen, and open grown jack/white pine. Some pockets of saw timber in spots. Old comment-Lots of aspen regen with a fair amount of pine mixed in. Stand has some rolling terrain. Similar to stand 31 but more evident pine component. Do nothing at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		50	Pole	7	36	Black Cherry		
Black/Red (Hybrid) Oak		10	Pole/Sapling	5		Red Maple		
Jack Pine		5	Pole	6				
Quaking Aspen		29	Pole	7				
White Pine		2	Pole	8				
Red Pine		2	Log	12				
White Oak		2	Sapling/Pole	4				
39	4123 - Red Oak	Sawtimber Poor	54.2	83	51-80	N/A	Records indicate a couple of Gypsy Moth Impact Study plots in south east portion of stand. Impact study area (close to 5 acres) left untreated. No QD plots landed in this portion. Records show stand was shelterwooded to a residual BA of 38 and left a little heavier along 612. Old comments- Stand was thinned in 2006 under 612 and range road oak. Scattered aspen with some oak pine mix. Quality is poor, size is small. Some hypox, do nothing at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		92	Log	14	83	Red Maple		
White Oak		8	Log/Pole	10		Red Oak		
						Witch Hazel		
						White Oak		
						Bigtooth Aspen		
40	4131 - Aspen, Oak	Poletimber Well	15.8	36	81-110	N/A	Aspen has steady oak component throughout with oak dominating in a couple spots. Old comments- Smaller diameter dense aspen regen. Has an oak and maple component. It is approaching merchantable size.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		7	Pole/Sapling	6		Red Maple		
Red Oak		20	Pole	7		Witch Hazel		
Bigtooth Aspen		73	Pole	7	36	Serviceberry (Juneberry)		
41	4130 - Aspen	Poletimber Medium	36.6	25	1-50	N/A	Stand has dense areas of big tooth aspen mixed with some more open areas of quaking aspen. Mostly red maple and cherry understory mixed with shrubs. Old comments- Stand was final harvested in 1995. High density small diameter aspen with some oak and red maple mixed in. Do nothing at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		10	Sapling/Pole	4		Red Maple		
Red Oak		3	Pole/Sapling	5		Black Cherry		
Bigtooth Aspen		37	Pole/Sapling	5		Witch Hazel		
Quaking Aspen		45	Pole/Sapling	5	26			
Black Cherry		5	Sapling/Pole	4				
42	4130 - Aspen	Poletimber Medium	23.7	34	51-80	N/A	Changed stand age from 15 to 34 from cutting records. Portions of big tooth aspen are usually 75-100% canopy closure but, some large areas of quaking aspen that are closer to 50%. Old comments-Small diameter high density aspen with some occasional oak scattered throughout. Do nothing at this time.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		15	Pole	7		Red Oak		
Bigtooth Aspen		50	Pole	8	35	Black Cherry		
Red Maple		5	Pole/Sapling	5		Red Maple		
Quaking Aspen		30	Pole	7		White Oak		
						Witch Hazel		
						Serviceberry (Juneberry)		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
43	4130 - Aspen	Poletimber Medium	31.5	34	1-50	N/A	New stand split from stand 28 using 98 IR photo and cutting records. Pole aspen with pockets of open cherry brush and patchy immature quaking aspen.																																														
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44	4123 - Red Oak	Sawtimber Well	5.2	83	111-140	N/A	Terrain is rolling but operable. Wedge of private between 612 and stand break up visual. See old comments. Old comments: Lots of smaller log stock. Evaluate in ten years. Steep terrain in this stand and highly visible from CR-612.																																														
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45	4130 - Aspen	Poletimber Well	28.5	26	1-50	N/A	Oak in southwest corner of stand split and merged into stand 39. Old comments: Stand was clearcut in 1995. Dense aspen regen with a small amount of cherry and maple throughout. No treatment.																																														
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46	4130 - Aspen	Poletimber Well	42.8	34	81-110	N/A	Changed stand age from 26 to 34 from cutting records. Old comment- Dense aspen with an oak understory, snowmobile trail goes through stand.																																														
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47	4130 - Aspen	Sawtimber Medium	15.4	50	1-50	N/A	Changed stand age from 27 to 50 after coring multiple aspen. Younger more vigorous aspen was around 44 years old and larger ones too rotten at core to get accurate age. Not sure why previous inventory said stand cut in 1993. Patchy aspen with small natural red pine component in stand. Heavy maple throughout understory except for piece just south east of trail has a lot of oak underneath. Old comments- mixed stand with railroad grade snowmobile trail passing through it. No treatment, stand is just approaching merchantable size. Some steep terrain in this area as well. Stand was cut in 1993.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
48	4131 - Aspen, Oak	Sawtimber Well	119.2	65	111-140	N/A	Cored aspen and oak, oak was 80 years old and the aspen ring count appeared to be around 65. Ba ranges from 110 at low end to 200 at high end but, is around 140 most places. Some aspen are getting to be over 18 inches dbh and developing conks. Scattered mortality. MIMS plots located in this stand. Sent an email to Roger Mech to see if they are still active. Snowmobile runs through part of this stand. Sawlog sized mixed oak and aspen. Good access to stand. Stand becomes less dense on south end.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	20	Pole/Log	8		Red Oak	Low		< 5 feet	Sapling
Red Oak	22	Log	14		Serviceberry (Juneberry)	Low		5 - 10 feet	Sapling
White Oak	3	Pole/Log	9		Red Maple	Medium		< 5 feet	Sapling
Bigtooth Aspen	55	Log	14	65	Black Cherry	Medium		< 5 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub	
49	4130 - Aspen	Poletimber Well	69.5	35	51-80	N/A	About 2 acres of O9 left from previous harvest along snowmobile trail in north west corner however, scattered large diameter oaks through rest of stand as indicated in previous comments only observed along 2 track. A couple openings with quaking aspen and cherry brush off 2 track and in south east. Old comments- Dense aspen regen as a result of previous species removal. Some of the aspen is approaching merchantable size. Oak was left, so there are scattered large diameter oak left throughout stand. No treatment at this time.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	10	Pole/Log	8		Red Maple	High		Variable	Sapling
Bigtooth Aspen	71	Pole/Log	8	35	Black Cherry	Low		< 5 feet	Sapling
Red Maple	10	Pole/Sapling	6		Witch Hazel	Medium		5 - 10 feet	Tall Shrub
Black Cherry	2	Sapling	4		Serviceberry (Juneberry)	Low		5 - 10 feet	Sapling
Quaking Aspen	5	Pole	7						
White Oak	2	Sapling/Pole	4						
51	4130 - Aspen	Poletimber Well	24.1	35	51-80	N/A	Old comment- Dense aspen with a light oak component in the understory.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	80	Pole	8	35	Red Maple	High		>20 feet	Sapling
Quaking Aspen	15	Pole	7		Witch Hazel	Low		5 - 10 feet	Tall Shrub
Red Oak	2	Pole	8		Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Red Maple	3	Pole/Sapling	6						
52	4130 - Aspen	Poletimber Well	76.0	36	51-80	N/A	Pockets of immature aspen but, pole size in most places. Old comments- Dense aspen regen with oak and maple component.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Sapling	5		Witch Hazel	High		5 - 10 feet	Tall Shrub
Red Oak	12	Pole	6		Red Maple	High		10 - 20 feet	Sapling
Bigtooth Aspen	75	Pole/Sapling	6	36	White Oak	Trace		Variable	Sapling
White Oak	2	Sapling/Pole	4		Black Cherry	Medium		Variable	Sapling
Red Pine	1	Log	10						
53	4130 - Aspen	Poletimber Well	29.2	26	1-50	N/A	Rolling topography. Healthy aspen with a pretty shrubby understory. Old comment- Clearcut in 1995. Very dense aspen regen with scattered oak and red maple throughout.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Black Cherry	Medium		< 5 feet	Sapling
Red Oak	3	Pole/Sapling	5		Serviceberry (Juneberry)	Medium		Variable	Sapling
Bigtooth Aspen	72	Pole/Sapling	5	26	Witch Hazel	High		5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole/Sapling	5		Red Maple	Medium	< 5 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
54	4130 - Aspen	Sawtimber Well	33.0	60	111-140	N/A	Conks developing on aspen and starting to see scattered mortality.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Old comment: Mixed stand with oak aspen red maple and white oak.
	Red Maple	10	Pole	7		Red Oak	Low	< 5 feet	Sapling	
	Red Oak	15	Log	12		Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling	
	White Oak	2	Pole	8		White Oak	Low	< 5 feet	Sapling	
	Bigtooth Aspen	73	Log	13	60	Red Maple	Medium	Variable	Sapling	
						Witch Hazel	Low	5 - 10 feet	Tall Shrub	
131	4123 - Red Oak	Sawtimber Well	6.7	83	111-140	N/A	Mature stand of oak split from parent stand 31.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	12	Pole	7		Red Oak	Low	< 5 feet	Sapling	
	Red Oak	80	Log/XLog	15	83	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	
	Bigtooth Aspen	5	Log	12		Red Maple	Medium	>20 feet	Sapling	
	White Oak	3	Log	11		Ironwood	Low	Variable	Sapling	
231	4123 - Red Oak	Sawtimber Well	5.2	83	81-110	N/A	Mature oak along Range Rd large enough to be separate forested stand split from parent stand 31.			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
	Red Maple	13	Pole	7		Red Oak	Low	< 5 feet	Sapling	
	Red Oak	85	Log/XLog	15	83	Witch Hazel	Medium	5 - 10 feet	Tall Shrub	
	White Oak	2	Log	11		Red Maple	Medium	Variable	Sapling	
						Black Cherry	Low	Variable	Sapling	
401	122 - Road/Parking Lot	Nonstocked	19.2	2020		No	Roads and road right-of-ways			
411	320 - Upland Shrub	Nonstocked	10.5	2020		Managed Opening	Split from stand 11 after failing to meet forested objective following harvest in 2016, Aspen Alley Mix contract # 72-639-13-01. TAB 7/21/16 Old Stand Comment: Mixed hardwoods stand. Some of it is struggling and nothing of great quality.			
412	3102 - Grass	Nonstocked	1.3	2020		No	Opening associated with cabin (see notes). Scattered mature oaks and a couple strips of planted red pine on south edge.			
417	330 - Low-Density Trees	Nonstocked	1.2	2020		No	West side of road cut in 2005, Fighter Plane Aspen #72-012-04. Old comments-Decent regen in this stand. Not a whole lot of oak.			
422	310 - Herbaceous Openland	Nonstocked	1.2	2020		No	Old well pad, dry hole plugged in 1973. No lease obligations, management is left to MU. Split from parent stand 22 during boundary verification. Opening used to be its own stand and was merged sometime after last harvest.			
427	330 - Low-Density Trees	Nonstocked	2.1	0	Unspecified	No	Old railroad grade right of way purchased in 1946 runs through private. A few trees growing along the edges of grade.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
438	330 - Low-Density Trees	Nonstocked	21.3		Unspecified	No	Changed stand number from 38 to 438. Old comments- Opening with cherry brush scattered throughout. Open grown oaks with isolated islands of oak regen are peppered through stand as well.
450	330 - Low-Density Trees	Nonstocked	19.2		Immature	No	Changed stand from A1 to non-forested after merging some of the aspen in with adjacent stands. Changed stand number from 50 to 450. Old comments- Upland shrub with a lot of cherry. Scattered aspen pockets, no treatment.
455	122 - Road/Parking Lot	Nonstocked	1.3		Unspecified	No	Segment of former railroad grade acquired in 1946. Snowmobile trail #47 runs down it.