



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32060

Entry Year 2024

Acreage: 1,762

County Marquette

Management Area: Ralph Ground Moraine

Stand Examiner: George Wilson

Legal Description:

T43N R26W, Sec 1-3, 10, 12, 15

Identified Planning Goals:

Planning will focus on timber, fisheries and wildlife habitat management. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable forest management treatments.

Soil and topography:

Terrain ranges from level swamps and tag alder drainages to rolling or somewhat hilly upland terrain. major soil series in this compartment are: Onaway fines sandy loam, Emmet-Escanaba complex, Carbondale and Tawas soils, Ensley-Solona complex, Emmet-Solona fine sandy loam, Escanaba loamy fine sand, Emmet fine sandy loam, Ensley muck, Paquin sand and Mashek fine sandy loam.

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

This compartment is comprised of three separate blocks of state lands. The northwest block is bordered by state land to the west and primarily small private parcels around the north and west sides. A larger block of timber company lands border this block on the south and southeast edges. The northeast block is bordered by state land to the east and timber company land to the other sides. Most small private parcels have camps located on them. Hunting is the primary recreational use of these small holdings, and the large industrial lands are intensively managed for timber.

Unique Natural Features:

Potential for rare plants. Consult MNFI records.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The southwestern portion of the compartment is designated as winter deer habitat.

Watershed and Fisheries Considerations:

This compartment consists of three regions including a northwest, eastern, and southwestern region.

The northwest region of this compartment contains Gleason Creek and headwater areas associated with Chynes Creek. Gleason Creek and Chynes Creek are both designated Type 1 trout streams less than 50' width with predicted mean July temperatures that range from 63.3 to 63.7 °F (cold streams). 300' buffers are recommended for Gleason Creek and Chynes Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

The southwest region of this compartment contains an unnamed stream that serves as a tributary to the Little West Branch Escanaba River. The unnamed tributary is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 63.0 °F (cold stream). A 300' buffer is recommended for the unnamed stream in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

The eastern region of this compartment does not contain any waterbodies.

Wildlife Habitat Considerations:

Compartment 060 is found within the Ralph Ground Moraine Management Area, on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in

the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris; and deer wintering complexes.

The following have been identified as featured species for the Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 60 Section 6, T43N-R25W and sections 1-3, 10, 12, & 15, T43N-R26W, Marquette County
No known potential exists for commercial oil & gas production in this part of the state. The nearest active sand/gravel pit is more than four miles away, but several former pits are documented in the area. There is good potential for sand and gravel within the compartment on the uplands. No past metallic mineral mining has occurred in this area, and the compartment is directly underlain by Paleozoic sediments. However, airborne geophysical data indicates that there may be potential for metallic minerals at depth. One known exploration drill hole about one mile southeast of the compartment did not penetrate below the Paleozoic section. State-owned mineral rights in the compartment and surrounding area were leased by Weyerhaeuser Company in 2019, and an exploration company is planning to conduct ground-based geophysical survey work on the leases this spring. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Public vehicle access to the northeast block is restricted by a gate on private lands. This gate access road connects to CR 557. The Ross Grade provides the main access route for the other two blocks of state land. Private land blocks public access to a developed DNR road network through the northwest block. The south block has two access roads open to the public, which are connected to Ross Grade. Most DNR roads have private gates once entering private property.

Survey Needs:

Recreational Facilities and Opportunities:

No recreational facilities exist, but there is opportunity for hunting and gathering.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

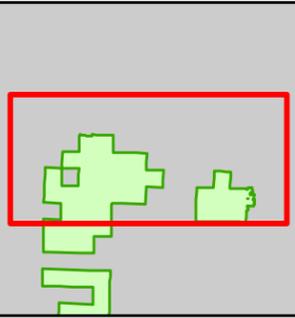
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

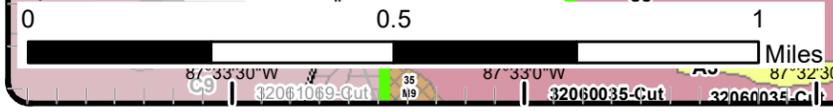
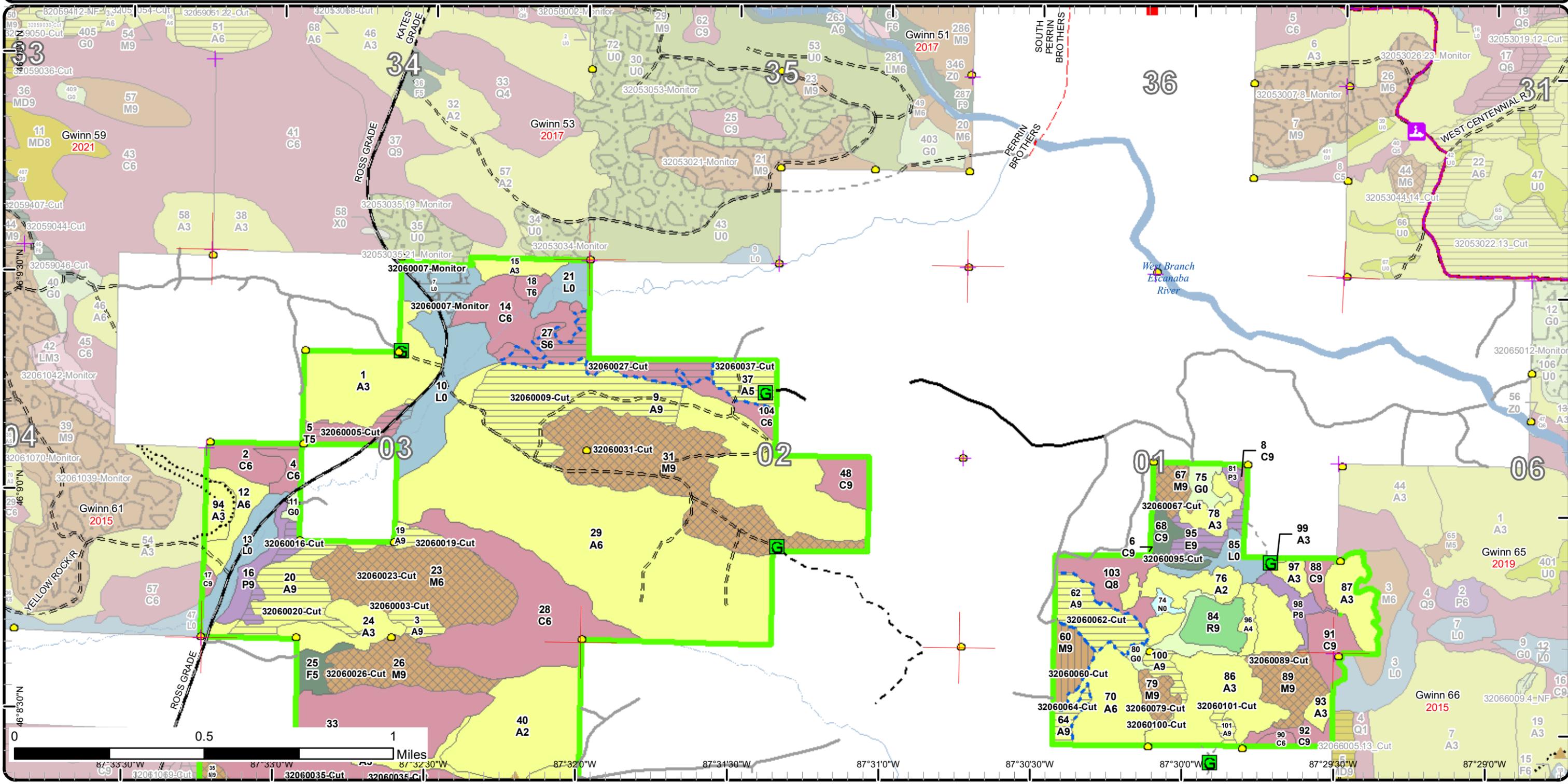
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 60
 T43N,R26W, Sec01-03, 10, 12,15
 T43N, R25W Sec. 6
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2024
 Acres: 1762.3 GIS Calculated
 Examiner: George Wilson
 Map Revised: 8/4/2022
 Map Phase: Web-Post

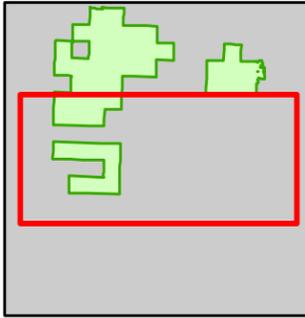


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Gate
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

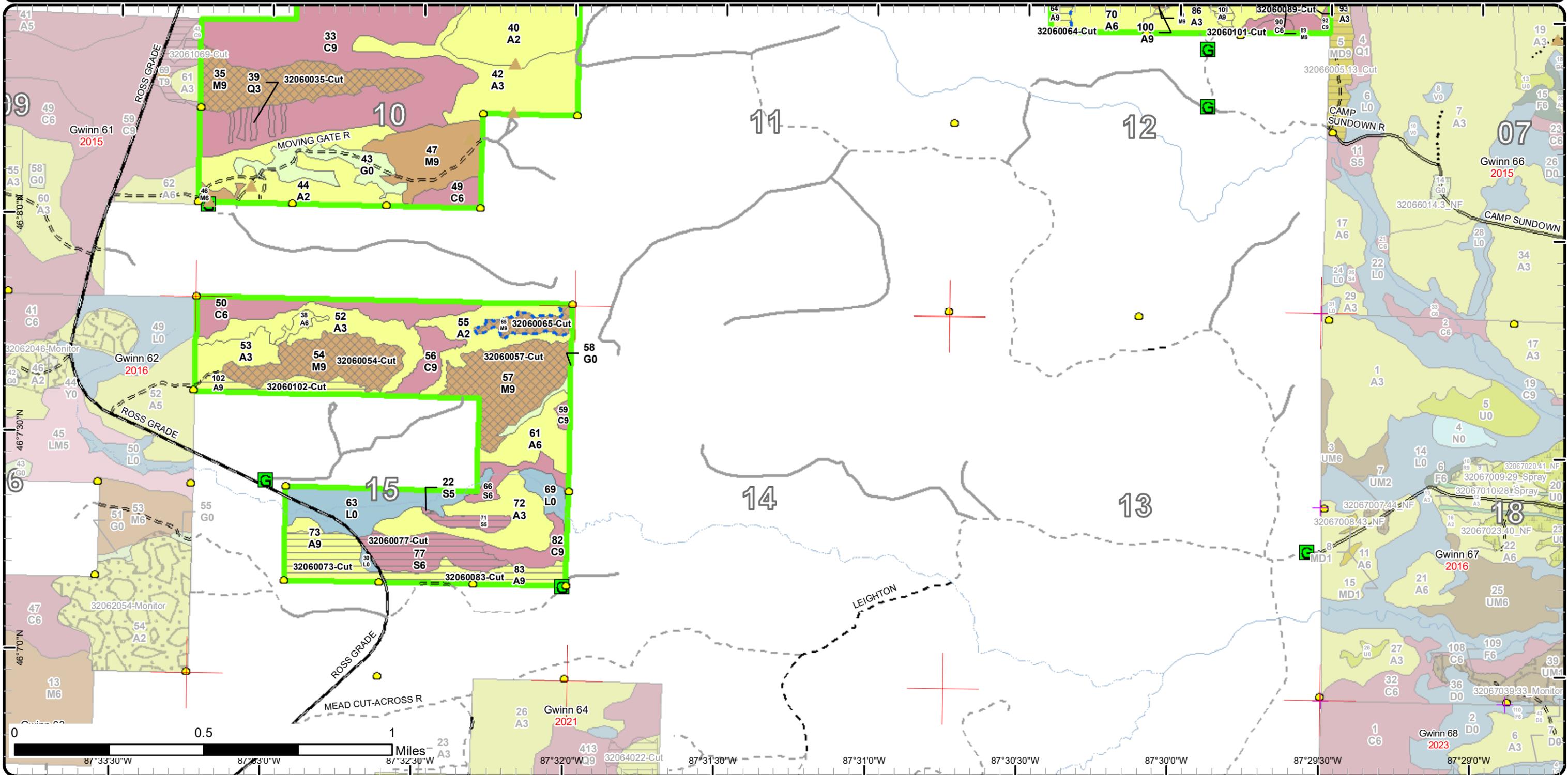


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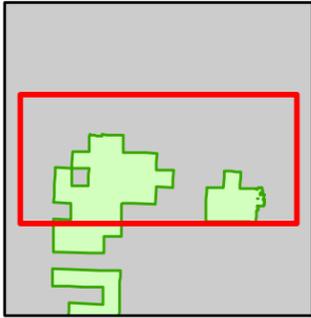
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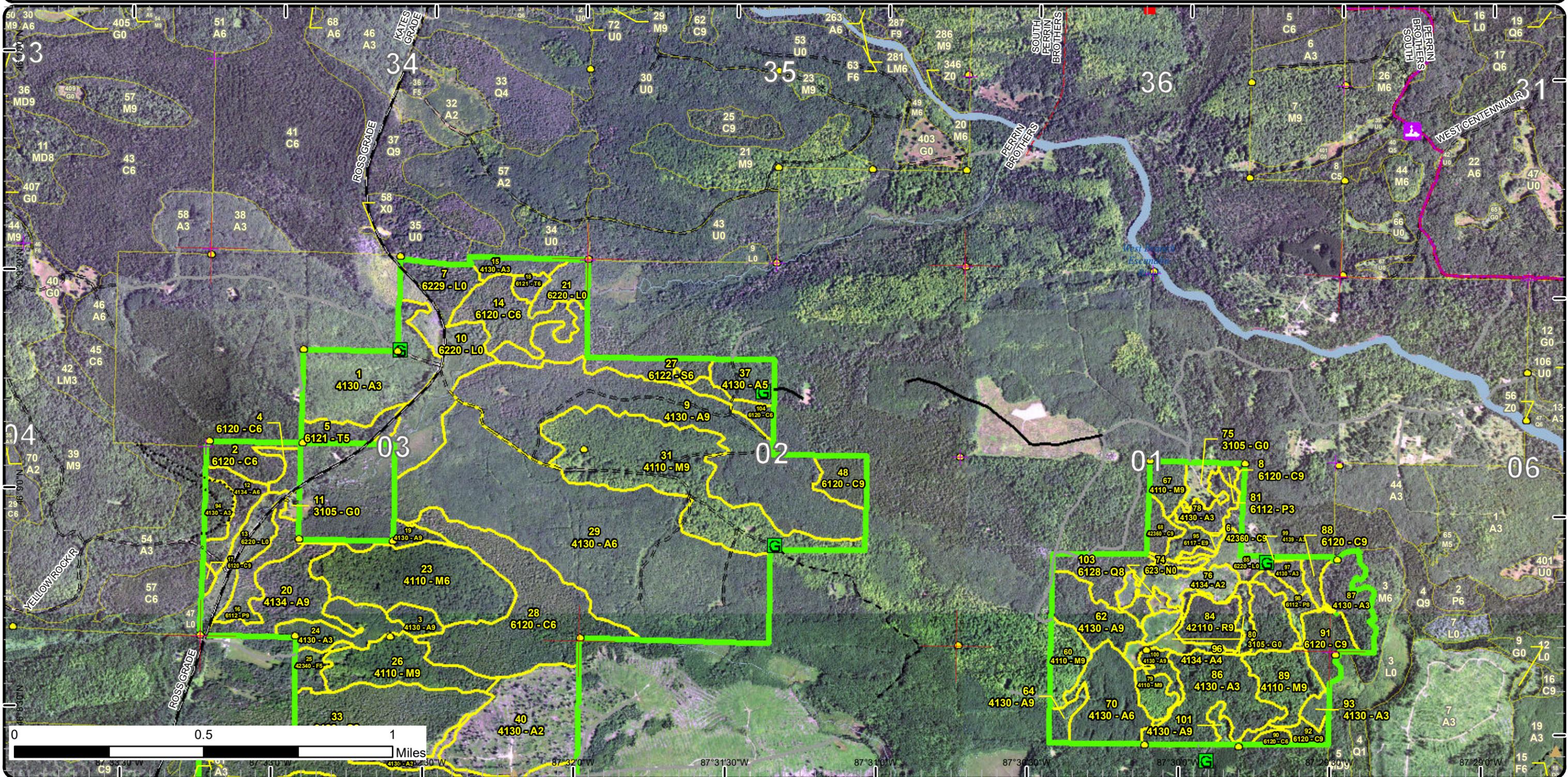
87°33'30"W 87°32'30"W 87°31'30"W 87°30'30"W 87°29'30"W

Stand Boundary Map

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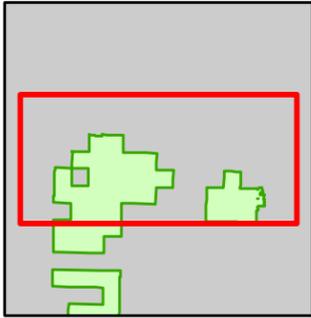
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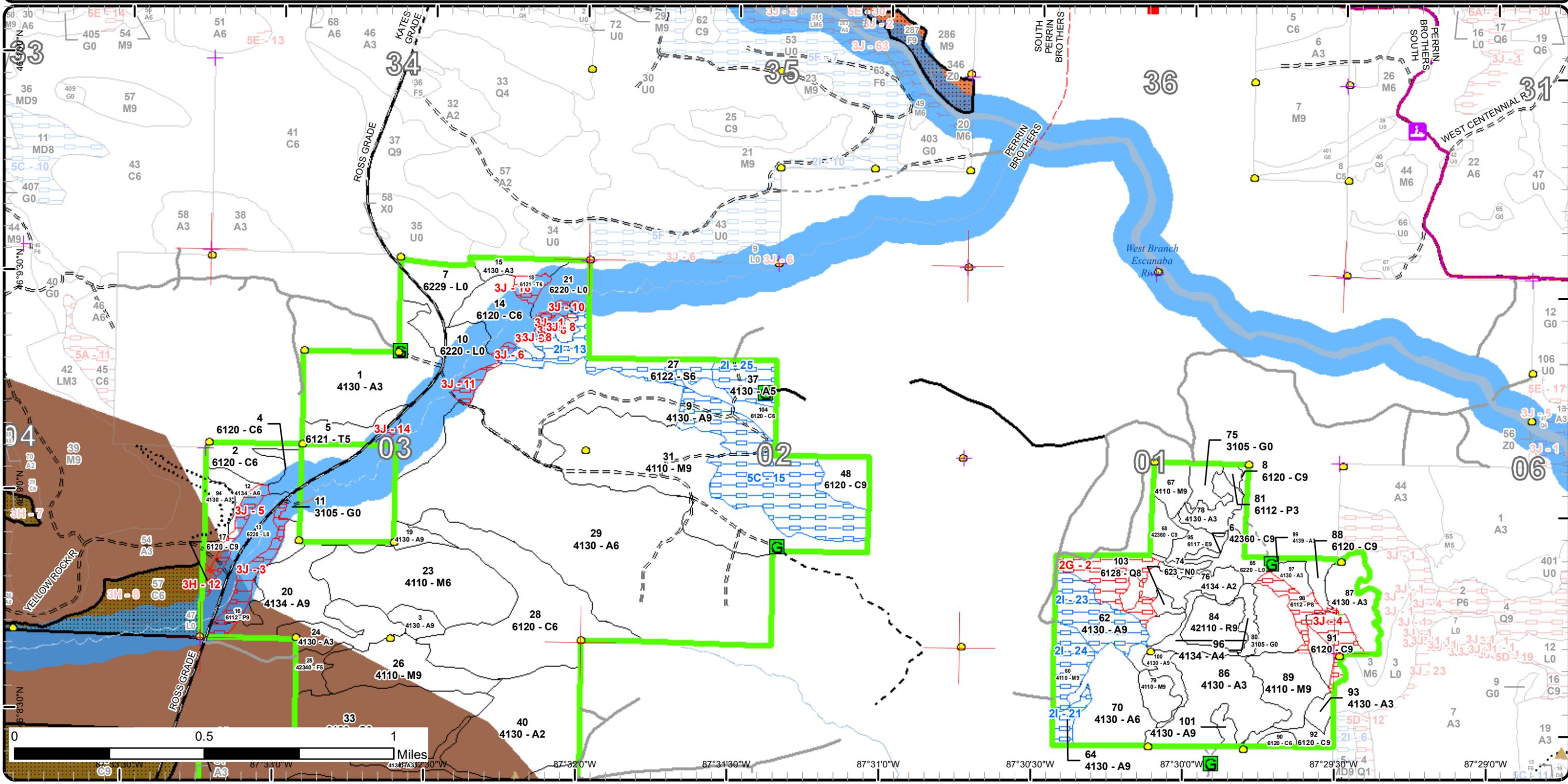
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Special Conservation Areas

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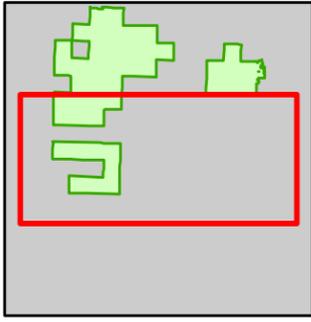


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- 🚪 Gate
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🚫 Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- ▭ Stand Boundaries
- ▨ SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Deer Winter Range
- Other Habitat Area
- 🟩 Possible Type 2 Old Growth

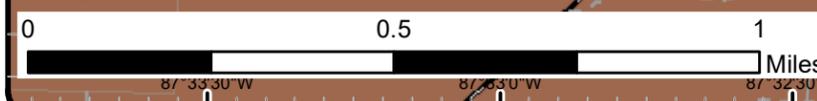
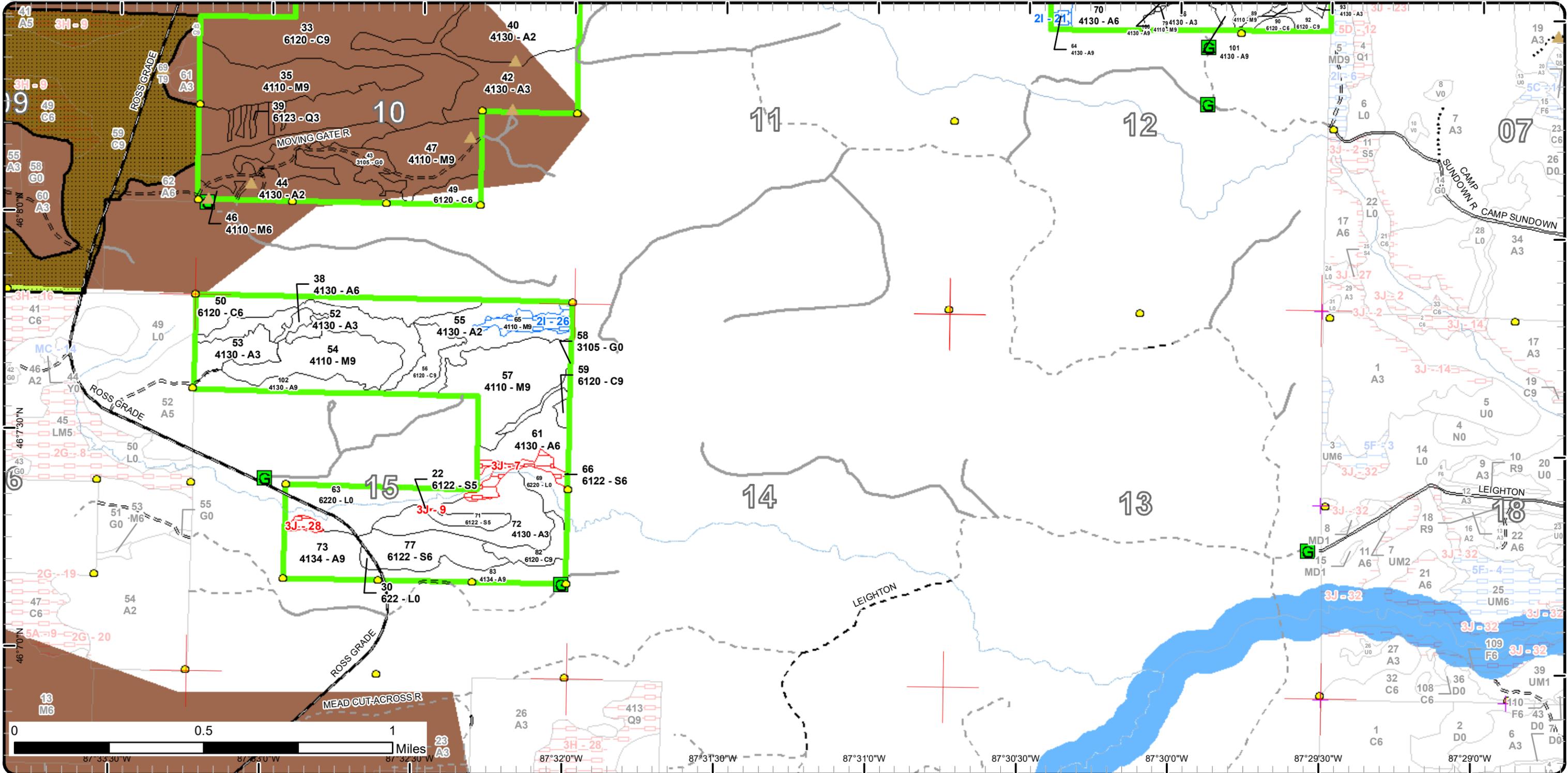


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Report 1 – Total Acres by Cover Type and Age Class



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	273	71	65	177	177	5	51	0	0	13	0	0	0	0	0	0	0	832
Cedar	0	0	0	0	0	0	0	0	0	0	29	23	0	268	0	5	1	0	326
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Lowland Aspen/Balsam Poplar	0	1	0	0	0	13	0	6	0	0	0	0	0	0	0	0	0	0	20
Lowland Conifers	0	0	0	0	0	4	0	0	0	0	0	16	0	0	0	0	0	0	20
Lowland Deciduous	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Shrub	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Lowland Spruce/Fir	0	0	0	0	0	0	0	5	26	22	0	0	0	0	0	0	0	0	53
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	34	103	74	0	0	0	0	0	115	325
Red Pine	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Tamarack	0	0	0	0	0	0	0	10	0	3	0	0	0	0	0	0	0	0	13
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Total	149	274	71	65	177	206	12	57	15	60	170	113	0	268	0	5	1	121	1763



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 60
Total Compartment Acres: 1,762

Commercial Harvest - 460
Harvests with Site Condition - 71
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	169	0	0	0	0	0	0	0	0	169
Lowland Aspen/Balsam Poplar	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	43	0	0	0	0	0	0	0	0	43
Northern Hardwood	0	286	0	0	11	0	0	0	0	297
Tamarack	10	0	0	0	0	0	0	0	0	10
Total	234	286	0	0	11	0	0	0	0	531

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	531	0	0	0	0	0	8	0	0	539
Next Step	0	0	0	8	0	0	531	0	0	539
Total	531	0	0	8	0	0	539	0	0	1079



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

3	32060003-Cut	5.6	4130 - Aspen	Sawtimber Well	60	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clearcut stand leaving all cedar and hemlock. Include large fork crowned bigtooth aspen and underrepresented species in the red line and retention patches.

Specs: Winter cut due to DWC.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, cherry, yellow birch, paper birch.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

5	32060005-Cut	10.2	6121 - Tamarack	Poletimber Medium	72	51-80	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
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Prescription Clearcut stand. Leave all cedar. Buffer to the east is a trout stream buffer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Tamarack and black spruce.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

9	32060009-Cut	50.5	4130 - Aspen	Sawtimber Well	43	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention, leave all cedar and hemlock. Retention patches should include large fork crowned bigtooth aspen and underrepresented species where possible.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, cherry, fir, spruce, cedar.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

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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
16	32060016-Cut	5.2	6112 - Lowland Aspen	Sawtimber Well	43	141-170	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave all cedar and hemlock. Western portion of the stand is a trout stream buffer 300 ft., so no other retention is needed.</p> <p><u>Specs:</u></p> <p>Winter harvest due to DWC.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, spruce, fir, ash.</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 /2023</p>											
19	32060019-Cut	6.0	4130 - Aspen	Sawtimber Well	43	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leaving all cedar, If possible, put red line on yellow or paper birch. Other retention is not needed due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, cherry, cedar, hemlock.</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 /2023</p>											
20	32060020-Cut	24.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	43	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave all cedar and hemlock. Look for opportunities to include large fork crowned aspen and underrepresented species in the red line and in the retention pockets.</p> <p><u>Specs:</u></p> <p>Winter harvest due to DWC.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, cherry, birch, ash.</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 /2023</p>											
23	32060023-Cut	52.0	4110 - Sugar Maple Association	Poletimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Harvest stand to 70-90 BA, leave all cedar and hemlock. Favor basswood and yellow birch when marking for retention and recruitment.</p> <p><u>Specs:</u></p> <p>Winter harvest due to DWC.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, yellow birch, basswood, white ash.</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 /2023</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26	32060026-Cut	26.0	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select cut stand down to 70-90 BA leave all cedar and hemlock. Favor retention of yellow birch, basswood and other underrepresented species when marking for biodiversity.</p> <p><u>Specs:</u> Winter harvest due to DWC.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, basswood, yellow birch.</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 /2023</p>											
27	32060027-Cut	19.4	6122 - Black Spruce Poletimber	Well	92	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave all cedar within stand. Retention patches will be along the creek to the north (150 foot buffer).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, tamarack, cedar.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
31	32060031-Cut	74.0	4110 - Sugar Maple Association	Sawtimber Well	100	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70-90 BA. Leave all cedar and hemlock. Favor leaving white ash, basswood and yellow birch if found.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, Ash, Birch, Basswood.</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 /2023</p>											
35	32060035-Cut	33.6	4110 - Sugar Maple Association	Sawtimber Well	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to 70-90 BA, leave all cedar and hemlock. Favor leaving basswood, cherry and yellow birch for biodiversity.</p> <p><u>Specs:</u> Winter cut due to DWC.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, birch, basswood, cherry.</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 /2023</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37 32060037-Cut	11.0	4130 - Aspen	Poletimber Medium	43	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention leaving all cedar and hemlock. Favor leaving larger aspen for retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, Maple, Birch, Basswood <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>										
54 32060054-Cut	27.4	4110 - Sugar Maple Association	Sawtimber Well	80	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Thin the stand to 70-90 BA. Leave all cedar and hemlock. Maintain or enhance species diversity, favoring retention and recruitment of <u>Specs:</u> basswood, black cherry, yellow birch and other underrepresented species.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Northern hardwood species regeneration. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
57 32060057-Cut	35.3	4110 - Sugar Maple Association	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Thin stand to 70-90 BA. Leave all cedar and hemlock. Maintain or enhance species diversity, favoring retention of yellow birch, white ash, <u>Specs:</u> basswood and other underrepresented species.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, red maple, yellow birch, black cherry. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
60 32060060-Cut	10.8	4110 - Sugar Maple Association	Sawtimber Well	80	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Perform a shelter wood harvest leaving 40-60 basal area. Maintain or enhance species diversity, favoring retention of basswood and other <u>Specs:</u> underrepresented species to increase biodiversity within stand. No other retention needed due to small size.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, red maple, yellow birch, basswood. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed <u>Proposed Start Date:</u> 10/1 /2023</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62 32060062-Cut	18.0	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand down to 2 inch specifications, leaving all hemlock and cedar. Look for opportunities to include large fork crowned big tooth aspen, cherry and yellow birch in the red line and retention patches.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Bigtooth and quaking aspen, cherry, birch.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
64 32060064-Cut	4.6	4130 - Aspen	Sawtimber Well	59	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand using 2 inch specification. No other retention needed due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, birch, spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
65 32060065-Cut	7.4	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70-90 BA. Leave all cedar and hemlock. Maintain or enhance species diversity, favoring retention of yellow birch, basswood, white ash and other underrepresented species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, red maple, yellow birch, ash, black cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
67 32060067-Cut	7.4	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70-90 BA leaving all cedar and hemlock. Maintain or enhance species diversity, favoring retention of yellow birch, basswood and other underrepresented species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, yellow birch, basswood.</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 /2023</p>										

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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
71	32060071-Cut	4.5	6122 - Black Spruce	Poletimber Medium	78	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut the stand, leave all cedar.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, tamarack, cedar</p> <p><u>Regen:</u></p> <p><u>Other</u> Northwest corner of the stand is long term retention and boundary due to trout stream being within 100 foot boundary.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
73	32060073-Cut	17.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	67	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Leave all cedar and hemlock. Include large fork crowned bigtooth aspen, yellow birch and paper birch in red line and retention areas where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, conifers</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 /2023</p>											
77	32060077-Cut	18.6	6122 - Black Spruce	Poletimber Well	85	141-170	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all except cedar, hemlock.</p> <p><u>Specs:</u> Leave 3-10% retention in patches representative of the current stand composition.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species currently in overstory.</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 /2023</p>											
79	32060079-Cut	6.3	4110 - Sugar Maple Association	Sawtimber Well	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 70-90 Basal Area. Leave cedar and hemlock if found. Favor retention of lesser occurring species to increase biodiversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, red maple, yellow birch, basswood, paper birch</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 /2023</p>											

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
83	32060083-Cut	13.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	98	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave all cedar and hemlock. Look for opportunities to include white spruce, yellow birch and other underrepresented species in the red line and retention areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce, maple, fir</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 /2023</p>											
89	32060089-Cut	16.6	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin the stand to 70-90 basal area. Favor leaving basswood and paper birch for biodiversity. Leave cedar and hemlock if found.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Sugar maple, red maple, yellow birch, and other northern hardwood species.</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 /2023</p>											
95	32060095-Cut	7.1	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	55	141-170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention, leave all cedar and hemlock. Look for opportunities to include black ash and underrepresented species in the red line and retention areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Ash, cedar, red maple, sugar maple.</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 /2023</p>											
100	32060100-Cut	4.9	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut using 2 inch specification. Look for opportunities to include large fork crowned bigtooth aspen in the red line. No other retention needed due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, birch, maple.</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 /2023</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
101 32060101-Cut	2.9	4130 - Aspen	Sawtimber Well	65	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut stand leaving cedar and yellow birch. No other retention needed due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, maple, spruce, yellow birch.</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 /2023</p>										
102 32060102-Cut	10.2	4130 - Aspen	Sawtimber Well	47	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. Look for opportunities to include large fork crowned bigtooth aspen and under represented species in the red line. No other retention needed due to small size.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen regeneration with some conifer components.</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 /2023</p>										
69 32061069-Cut	8.5	6121 - Tamarack	Sawtimber Well	72	Unspecified	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Clearcut stand using 2 inch spec. Leave all cedar and hemlock if present within stand. Look for opportunity to include older tamarack in the red line and/or retention areas.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Tamarack, black spruce, cedar.</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 /2014</p>										

Approved Treatments:

7 32060007-Monitor	8.4	6229 - Mixed lowland shrub	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	6124 - Lowland Spruce-Fir	Even-Aged	No
<p><u>Prescription</u> Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Spruce, fir, tamarack, cedar, hemlock, pine, birch, red maple and aspen are acceptable regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Seeding, Hand Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, fir, tamarack, cedar, hemlock, pine, birch, red maple and aspen are acceptable regeneration.</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> 2 /20/2027</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
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Total Treatment Acreage Proposed: 547.8

Report 4 – Site Conditions

Gwinn Mgt. Unit
George Wilson : Examiner

Compartment: 60
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				2I	5C	2G	3H	3J	ed	
831	733	87		11	Aspen	34	53				11	0
327	315	0		11	Cedar					1	10	
33	33	0		0	Herbaceous Openland							
21	7	0		14	Lowland Aspen/Balsam Poplar						14	
19	3	0		16	Lowland Conifers			16				
7	7	0		0	Lowland Deciduous							
113	113	0		0	Lowland Shrub							
52	23	19		10	Lowland Spruce/Fir	19					10	
2	2	0		0	Marsh							
326	308	18		0	Northern Hardwood	18						
12	12	0		0	Red Pine							
13	9	0		4	Tamarack						4	
6	6	0		0	Upland Spruce/Fir							
1,763	1,572	124		66	Total Forested Acres	71	53	16	1		49	0
	89%	7%		4%	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	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 foot trout stream buffer.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: 2022: Very wet, poorly drained ground. Very sparse declining lowland conifer stand.							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 60

George Wilson: Examiner

Year of Entry: 2024

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer</p>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 300' trout stream buffer for stand 12</p>							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Needs survey corners throughout edge of stand.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Stand contains patches of aspen and other aspen scattered within. A 300' trout stream buffer consumes this entire stand.</p>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 2021: 150 foot trout stream buffer</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 60

George Wilson : Examiner

Year of Entry: 2024

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: Needs survey corners throughout edge of stand.</p>							
11	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: 300 foot trout stream buffer.</p>							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
13	Available	2I: Survey needed	19	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: 2022: 150 foot trout stream buffer.</p>							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: WLD asked to have half the stand left for age class diversity.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
George Wilson : Examiner

Compartment: 60
Year of Entry: 2024

18	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is within 150 feet of a trout stream. The northwest portion is far enough away but not large enough (Less than half an acre).							
21	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for north south line.							
22	Unspecified	Unspecified	0				
Comments:							
23	Available	2I: Survey needed	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed for north/south line on western side of stand.							
24	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Needs corner survey for private blue line.							
26	Available	2I: Survey needed	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand needs a survey corner.							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: 2022: Part of stand 73, Long term retention due to trout stream being within 300 feet.							

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	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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
1	4130 - Aspen	Sapling Well	42.3	16	Immature	N/A	Aspen is 12 to 14 tall. Good stocking of aspen stems. Occasional white spruce and ironwood poles. Not seeing beaked hazel. Stand borders private property and Ross Grade.																																																			
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2	6120 - Lowland Cedar	Poletimber Well	11.3	122	201+	N/A	2022: High quality cedar stand. Cedar trunks have good form. Cedar crowns are healthy. Sporadic white birch and trembling aspen poles.																																																			
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3	4130 - Aspen	Sawtimber Well	5.6	60	111-140	N/A	2022: Bigtooth aspen stand with some hardwoods. Surrounded by northern hardwoods from north and south.																																																			
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4	6120 - Lowland Cedar	Poletimber Well	4.9	122		N/A	2022: Pretty nice tamarack. Stand is wet and has a lot of tag alder present. Cedar dominates half of stand.																																																			
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5	6121 - Tamarack	Poletimber Medium	9.7	72	51-80	N/A	2022: Nice tamarack and spruce quality. Scattered basal area in patches. Strip of higher ba runs along road. 2 and 3 stick tamarack. Cedar mainly found east of Ross Grade. Cedar crowns somewhat sparse. Stand adjacent to Ross Grade and private property.																																																			
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6	42360 - Upland Cedar	Sawtimber Well	2.6	127	171-200	N/A	2022: Cedar stand with some tip over from wind damage.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
7	6229 - Mixed lowland shrub	Nonstocked	12.0	0	Immature	612 - Lowland Coniferous Forest	<p>2022: Moderate to low regeneration, check regeneration in a few years in order to determine regeneration goals. Scattered larger trees left from previous harvest.</p> <p>Stand was harvested in December, 2018. A retention strip was left to buffer the stream across the center of this stand. South half if nearly clear except along the road edge, north half has some small cedar pockets and paper birch scattered within.</p> <p>Took additional plot with BA of 110 sq ft. 2 to 5 stick black spruce. 5 stick white spruce. Small patches of cedar. Some balsam poplar poles.</p>																																															
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8	6120 - Lowland Cedar	Sawtimber Well	1.1	122	141-170	N/A	Wet cedar swamp.																																															
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9	4130 - Aspen	Sawtimber Well	106.9	43	Unspecified	N/A	Higher quality aspen stand. Mostly logs/poles. Leave 45 acres to the east of the stand for another 10 years for age and habitat diversity.																																															
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10	6220 - Alder/willow	Nonstocked	35.0			No	Scattered small patches of tamarack poles. Flooded tag alder/willow swamp. Some spruce and tamarack with very low basal area mixed within the stand.																																															
11	3105 - Mixed Upland Herbaceous	Nonstocked	1.8			No	<p>2021: Opening is still 80 percent open. Some smaller patches of aspen about 3 inches dba. Scattered white spruce of the edges of the field combined with scattered fir saplings.</p> <p>Old opening is still around 80 percent open. White spruce poles, trembling aspen poles, white spruce saplings, trembling aspen saplings and balsam poplar saplings are present.</p>																																															



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12	4134 - Aspen, Spruce/Fir	Poletimber Well	10.9	45	51-80	N/A	2022: Average dbh 6. Scattered spruce and fir.																																																						
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Balsam Fir	19	Sapling/Pole	4																																																										
Quaking Aspen	70	Pole/Sapling	6	45																																																									
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Red Maple	Low	10 - 20 feet	Sapling																																																										
13	6220 - Alder/willow	Nonstocked	15.5			No	2021: Dominated by tag alder and willow. spruce, balm, and tamarack in areas with low BA. Tag alder predominates. Some sporadic spruce and balsam poplar poles/saplings west of road, Infrequent cedar and tamarack poles.																																																						
14	6120 - Lowland Cedar	Poletimber Well	22.0	92	171-200	N/A	2022: Healthy cedar swamp with a component of fir and spruce.																																																						
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16	6112 - Lowland Aspen	Sawtimber Well	13.3	43	141-170	N/A	2022: Variable stocking throughout stand. Many different lowland species in stand, Isolated, small clumps of cedar. Variable stocking with some low stocking. Tamarack and black spruce poles present to south. Scarce white birch saplings and red maple poles.																																																						
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19	4130 - Aspen	Sawtimber Well	6.0	43	111-140	N/A	2022: Stand is ready for harvest. Due to lower quality adjacent stands would be best to harvest rather than let sit for another 10 years.																																								
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20	4134 - Aspen, Spruce/Fir	Sawtimber Well	25.9	43	51-80	N/A	2022: Stand was cut in approximately 1980, inconclusive cutting record.																																								
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21	6220 - Alder/willow	Nonstocked	8.9		Unspecified	No																																									
22	6122 - Black Spruce	Poletimber Medium	0.2	78	81-110	N/A	Younger spruce stand with components of balsam and tamarack. DBH is primarily 6-8 inches with alot of smaller trees.																																								
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23	4110 - Sugar Maple Association	Poletimber Well	52.0	90	81-110	N/A	2022: Good quality hardwoods. Maple regen in spots with white ash saplings in canopy gaps.																																								
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25	42340 - Upland Spruce/Fir	Poletimber Medium	6.4	30	Immature	N/A	2022: Area is about 30 percent open, aspen, spruce, balsam fir mixed stand. Appears to have been an old opening.																																																						
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26	4110 - Sugar Maple Association	Sawtimber Well	26.0	90	111-140	N/A	2021: High quality hardwoods. Basal area 110 to 130. Stand contains a fair amount of basswood and has great regeneration from previous harvest. Western and eastern portions of the stand contain pockets of red maple. Good to excellent quality sugar maple boles. Illegal box blinds in stand. Illegal ATV trail exits stand to provide access to another illegal box blind further to east.																																																						
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27	6122 - Black Spruce	Poletimber Well	22.2	92	141-170	N/A	2022: Spruce stand with cedar mixed in on eastern side. Tag alder understory. Stocking is low in some areas. Many black saplings in overstory. Sporadic yellow birch poles. Areas of low stocking.																																																						
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28	6120 - Lowland Cedar	Poletimber Well	66.5	127	201+	N/A	Some narrow, long upland ridges. 3 foot wide stream flowing E-W through stand. Some tamarack poles.																																																						
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30	622 - Lowland Shrub	Nonstocked	1.2	0	Unspecified	No	12/2021: Aspen is dying back from old age. spruce and fir have slight budworm damage. Needs to be cut. 6/2019: Ponderosa Road Sale #006-15 closed w/o cutting. 2014: Starting to see pockets of aspen mortality. Heavier stocking of fir along north edge. Sporadic white pine poles. Small lowland inclusion.																																															
31	4110 - Sugar Maple Association	Sawtimber Well	74.0	100	81-110	N/A	2022: High quality hardwoods. Basal area is around 100-120Good timber quality northern hardwood stand. Infrequent ironwood, aspen and balsam poplar poles.																																															
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33	6120 - Lowland Cedar	Sawtimber Well	122.9	127	201+	N/A	2021: healthy cedar stand with a high basal area. Small component of fir and spruce. Cedar boles have good form. Cedar canopy healthy.																																															
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35	4110 - Sugar Maple Association	Sawtimber Well	33.6	90	81-110	N/A	2021: Northern hardwood stand dominated by sugar maple. size varies greatly with some very large trees. very good maple regeneration in spots. Far eastern tip of stand has a low basal area but still contains hardwoods of the same age and size class. Pocket of M3 at northwest corner. Good representation of larger maple size classes. Scattered large diameter basswood. Yellow birch, white birch and fir poles present. Illegal box blind along north edge of stand.																																															
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37	4130 - Aspen	Poletimber Medium	11.0	43	81-110	N/A	2022: Aspen 7-9 inches. Aspen snags frequent in stand. Lower quality Aspen stand. Many aspen snags. Aspen Dbh range from 6 to 8 inches. Areas where aspen density is inadequate due to health problems. These areas will continue to enlarge as many boles showing signs of decline.																																															
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39	6123 - Lowland Fir	Sapling Well	3.5	42		N/A	2021: Medium density tag alder with fir and birch component. Poor cedar regeneration from the strip cuts. low density spruce and tamarack mix in areas, but predominantly tag alder																																												
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40	4130 - Aspen	Sapling Medium	49.0	6	Immature	N/A	2022: Regenerating to aspen and cherry. Cut in summer of 2015, Between Ross and 557 mix 32-020-13-01 by St John Fp.																																												
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42	4130 - Aspen	Sapling Well	37.3	6	Immature	N/A	2021: Aspen regeneration is spotty. Some areas have good regeneration while others are poor.																																												
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43	3105 - Mixed Upland Herbaceous	Nonstocked	15.7			No	Stand remains fairly open in certain areas. White spruce, cherry, and balsam present in a few areas.																																												
44	4130 - Aspen	Sapling Medium	37.4	3	Immature	N/A	Poor stocking of aspen in areas, while other areas are pretty thick. Aspen is about 4-6 feet tall and 1-2 inches in diameter. Poorer quality aspen stand but appears that it will regenerate fully.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
46	4110 - Sugar Maple Association	Poletimber Well	2.4	85	81-110	N/A	2022: Decent hardwood stand dominated by sugar maple.																																					
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47	4110 - Sugar Maple Association	Sawtimber Well	26.3	90	81-110	N/A	Fair amount of defect, disease, and spacing issues. Cut in summer of 2015 by St John FP. Ironwood regeneration is the majority with some maple but is being out competed.																																					
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48	6120 - Lowland Cedar	Sawtimber Well	9.9	127	201+	N/A	Cedar boles have very poor form due to sweep and lean. Cedar foliage full and healthy. Some 16 to 18 inch Dbh cedar. Infrequent white birch and balsam poplar poles found.																																					
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49	6120 - Lowland Cedar	Poletimber Well	6.8	127	201+	N/A	Healthy cedar tops. Thick basal area over 200 in spots.																																					
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50	6120 - Lowland Cedar	Poletimber Well	23.3	102	Unspecified	N/A	2022: Cedar swamp that varies from healthy to poor in the western corner portion. Western side of swamp is poorly drained dead cedar. There is scattered spruce and tamarack within western side. Moderate to low quality cedar boles. Canopy healthy. Patches of lower cedar density.																																					
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52	4130 - Aspen	Sapling Well	23.1	7	Immature	N/A	2021: Good regeneration of primarily quaking aspen.																																					
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53	4130 - Aspen	Sapling Well	11.1	7	Immature	N/A	Aspen clear-cut in 2015 in rough riders sale. 6 year old clear-cut. Good aspen regeneration with spruce and fir component.																																					
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54	4110 - Sugar Maple Association	Sawtimber Well	27.4	80	81-110	N/A	Moderate quality hardwood stand. Occasional white spruce and trembling aspen poles. Heavy sedge. Gaps have cherry in them and alongside the road.																																																		
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55	4130 - Aspen	Sapling Medium	19.3	5	Immature	N/A	2021: Decent regeneration of aspen and cherry. Some patches have very good regen. Diameter varies from 1-3 inches. Stand is 15-20 feet tall. Scarce overstory balsam poplar and cedar found. Stand has been prepared for a treatment - Rough Riders timber sale, #32-013-11-01. No cutting has occurred at this time. Sale contract expires 5/31/2015. Yellow birch, hemlock, oak, cedar, white pine and elm are being left on site. Cut by Lafleur FP in winter of 2015, under 32-014-11-01 Rough Riders																																																		
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56	6120 - Lowland Cedar	Sawtimber Well	9.0	127	201+	N/A	Fairly good quality cedar boles. Small pockets of blowdown and sweep. Cedar crowns healthy. Patches of heavier tag alder. White spruce and balsam poplar in overstory.																																																		
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57	4110 - Sugar Maple Association	Sawtimber Well	35.3	85	111-140	N/A	2021: Stand predominantly sugar maple. Stocking varies as well as dbh in spots. Nice pockets of sugar maple saplings in understory. Also pockets of moderate to high density white ash saplings in center of stand. Moderate quality sugar maple boles. Stocking levels variable. Areas with nice quality, multi-trunked white ash sawtimber. One white ash trunk measured 22 inches Dbh.																																																		
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58	3105 - Mixed Upland Herbaceous	Nonstocked	2.4			No	Narrow grassy opening																																																		
59	6120 - Lowland Cedar	Sawtimber Well	1.5	127		N/A	Moderate quality cedar swamp.																																																		
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61	4130 - Aspen	Poletimber Well	15.3	26	Immature	N/A	Scattered cedar poles.																																															
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62	4130 - Aspen	Sawtimber Well	18.0	65	111-140	N/A	Some sugar maple and spruce/ fir in sub canopy.																																															
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63	6220 - Alder/willow	Nonstocked	26.2			No	Tag alder widespread with small patches of tamarack saplings. Uncommon white birch poles. Sapling ash and some larger balm that is alongside the road. Pretty wet stand.																																															
64	4130 - Aspen	Sawtimber Well	4.6	59	81-110	N/A	2022: Decent aspen stand that is slowly declining. There is a small spruce component mixed in.																																															
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66	6122 - Black Spruce	Poletimber Well	6.9	82	141-170	N/A	Check age of stand dbh ranges from 4 to 8. some closer to 9																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	4110 - Sugar Maple Association	Sawtimber Well	7.4	80	111-140	N/A	2022: Nice hardwood stand. Basal area is from 110 to 140.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		88	Log	10	80	Ironwood	
Yellow Birch		2	Pole/Log	9		Low	
Basswood		10	Log	10		< 5 feet	
						Sapling	
68	42360 - Upland Cedar	Sawtimber Well	5.5	127	171-200	N/A	2022: Wet cedar swamp with yellow birch and spruce mixed in stand.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		88	Log/Pole	12	127	Balsam Fir	
Black Ash		2	Log/Pole	12		Low	
Yellow Birch		4	Pole/Log	8		10 - 20 feet	
Paper Birch		2	Pole	8		Sapling	
Black Spruce		4	Pole	8		Tag Alder	
						Medium	
						5 - 10 feet	
						Tall Shrub	
69	6220 - Alder/willow	Nonstocked	6.0		Immature	No	2021: Alder/ willow bog. Pretty wet and scattered lowland trees.
70	4130 - Aspen	Poletimber Well	25.8	26	81-110	N/A	2021: Good aspen stand with high quality sapling/ poles Aspen ranges from 28 to 32 feet tall. Variable stocking, but overall levels will be adequate for timber production. Higher densities to west. No full sticks yet. Aspen is healthy.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		100	Pole/Sapling	5	26	White Spruce	
						Low	
						5 - 10 feet	
						Sapling	
						Balsam Fir	
						Low	
						5 - 10 feet	
						Sapling	
71	6122 - Black Spruce	Poletimber Medium	4.5	78	81-110	N/A	Younger spruce stand with components of balsam and tamarack. DBH is primarily 6-8 inches with alot of smaller trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole/Sapling	5		Balsam Fir	
Balsam Poplar		2	Pole	8		Low	
Tamarack		10	Pole	6		5 - 10 feet	
Black Spruce		70	Pole	6	78	Sapling	
Paper Birch		8	Sapling/Pole	4		Black Spruce	
						Low	
						5 - 10 feet	
						Sapling	
72	4130 - Aspen	Sapling Well	25.6	15		N/A	Aspen ranges from 15-20 feet tall. Variable stocking with some pockets that are poorly stocked. High ridge runs through stand. Conifers regenerating nicely along edge. Tamarack is about 10 feet tall and spotty.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Tamarack		2	Sapling	1		Balsam Fir	
Quaking Aspen		86	Sapling	1	15	Low	
White Spruce		2	Log	14		< 5 feet	
Balsam Fir		4	Sapling	2		Sapling	
Red Maple		2	Pole	9		White Spruce	
Black Spruce		4	Sapling	1		Low	
						< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
73	4134 - Aspen, Spruce/Fir	Sawtimber Well	19.4	67	111-140	N/A	12/2021: Aspen is dying back from old age. spruce and fir have slight budworm damage. Needs to be cut.6/2019: Ponderosa Road Sale #006-15 closed w/o cutting.2014: Starting to see pockets of aspen mortality. Heavier stocking of fir along north edge. Sporadic white pine poles. Small lowland inclusion.																																						
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74	623 - Emergent Wetland	Nonstocked	1.9		Unspecified	No																																							
75	3105 - Mixed Upland Herbaceous	Nonstocked	5.5		Unspecified	No	2022: Stand is about 70 percent open with spruce and aspen mixed in on the edges of the grassy opening.																																						
76	4134 - Aspen, Spruce/Fir	Sapling Medium	17.1	8	Immature	N/A	Any yellow birch, hemlock, oak, cedar, white pine and elm left on site from harvest.																																						
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77	6122 - Black Spruce	Poletimber Well	18.6	85	141-170	N/A	Spruce is dying off in spots due to old age most likely. High basal area.																																						
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78	4130 - Aspen	Sapling Well	8.0	8	Immature	N/A	2022: Aspen stand is regenerating very well. There is a component of conifers and red maple to a small percent. Aspen is about 15 feet tall. Stand was cut in 2013.																																						
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79	4110 - Sugar Maple Association	Sawtimber Well	6.3	80	111-140	N/A	2021: Moderate quality stand. pretty open understory.Moderate quality timber.																																						
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80	3105 - Mixed Upland Herbaceous	Nonstocked	7.4		Unspecified	No	Old managed opening with areas of high quality forage. Fir, spruce, aspen and cherry are filling in certain areas. Stand still about 95% open.																																										
81	6112 - Lowland Aspen	Sapling Well	1.4	8	141-170	N/A	2022: Regenerating primarily to aspen.																																										
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82	6120 - Lowland Cedar	Sawtimber Well	7.4	127	201+	N/A	Cedar crowns healthy. Moderate quality form to cedar boles. Very sparse underbrush. Infrequent white birch poles. Some cedar regeneration.																																										
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83	4134 - Aspen, Spruce/Fir	Sawtimber Well	13.4	98	111-140	N/A	2021: aspen, cedar and fir mix. Budworm is present and some of the aspen is dying back. 6/2019: Ponderosa Road Sale #006-15 closed w/o cutting. 2014: Some aspen up to 16 inches Dbh. Fir is declining. Pockets of blowdown. Occasional red maple and yellow birch poles.																																										
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84	42110 - Planted Red Pine	Sawtimber Well	11.9	44	141-170	N/A	2021: Decent plantation. Some wind damage in middle of stand. Stand was third row thinned in 2015. Moderate to good form and condition to most red pine stems.																																										
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85	6220 - Alder/willow	Nonstocked	8.6		Unspecified	No	Tag alder/ willow swamp. Too wet and no trees harvestable.																																										
86	4130 - Aspen	Sapling Well	44.8	7	Immature	N/A	Regenerating nicely to aspen. Scattered spruce and ironwood. Scattered residual hardwoods.																																										
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88	6120 - Lowland Cedar	Sawtimber Well	4.0	127	141-170	N/A	2022: Cedar stand with component of other swamp hardwoods such as ash and yellow birch.																																													
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89	4110 - Sugar Maple Association	Sawtimber Well	16.6	91	111-140	N/A	2021: Moderate quality sugar maple stand. Sub canopy dominated by ironwood. Average ba 130. Thin 70-90. Moderate quality sugar maple boles. Some nice 16 foot sugar maple logs developing. Fair amount of sugar maple borer damage. Largest diameter maples are 14 inches Dbh. Patches of dense ironwood regeneration.																																													
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91	6120 - Lowland Cedar	Sawtimber Well	12.2	127	111-140	N/A	Frequent sweep to cedar boles. Descend short steep slope from west to reach stand. Stocking declines as you head east. Crown vigor and average diameter also decline the further east you proceed.																																													
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92	6120 - Lowland Cedar	Sawtimber Well	5.2	140	111-140	N/A	Dense to cedar, low wet drainage.																																																				
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93	4130 - Aspen	Sapling Well	3.2	13	Immature	N/A	2021: Dense aspen stocking. Maple on edges. Aspen range from 12 to 14 feet tall. Some small patches of maple poles present.																																																				
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94	4130 - Aspen	Sapling Well	6.9	4	141-170	N/A	2022: Good regeneration of aspen. Some small cherry and fir mixed in. TCR 7/9/2018: Yellow Rock East Sale #003-15. 2015: Overstory fir becoming overmature. Some 5 stick aspen present. Ironwood poles and black cherry poles are uncommon overstory associates. High quality, healthy boles. Some aspen snags.																																																				
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96	4134 - Aspen, Spruce/Fir	Poletimber Poor	4.2	40	1-50	N/A	2022: This is an old opening that is transitioning to aspen and spruce. The stand is still about 50 percent open. Average size is 5 inches and the basal area is very low.																																																				
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