



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32242

Entry Year 2024

Acreage: 1,585

County Marquette

Management Area: Chain Lakes Moraine

Stand Examiner: Rick Hill

Legal Description:

T45N R29W Sec 25, 26, 35, 36

Identified Planning Goals:

Vegetative management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses.

Soil and topography:

Ranges from level swamps and wetlands to rolling or only slightly hilly upland terrain. Major soils types include: Carbondale/Tawas, Greenwood/Dawson, Histosols and aquents, Rubicon sand, Rubicon-Keweenaw sand, Croswell sand and Karlin sandy loam.

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

Essentially surrounded by State lands with the exception of some relatively small inholdings of nonindustrial private land in the surrounding area. This private land is generally held for the recreational use of deer hunting with production of forest products as a secondary objective.

Unique Natural Features:

There are no known features in this compartment.

Archeological, Historical, and Cultural Features:

There are no known historical features in this area.

Special Management Designations or Considerations:

None other than cold water RMZ areas.

Watershed and Fisheries Considerations:

This compartment contains headwater regions of Schwartz Creek and Johnson Lake. Schwartz Creek is a designated Type 1 trout stream less than 50' width with a predicted mean July temperature of 59.9 °F (cold stream). A 300' buffer is recommended for Schwartz 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.

A 100' buffer is recommended for Johnson Lake to protect shoreland resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 242 is found within the Chain Lakes Moraine Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Compartment 242 Sections 23, 25-26, & 35-36, T45N-R29W, Marquette County

No known potential exists for commercial oil & gas production in this part of the state. No known active sand/gravel pits occur in the area, but there appears to be some potential for sand & gravel within the compartment on the uplands. Some iron ore exploration has occurred to the west, but there is no evidence from available aeromagnetic survey data that iron-

bearing formations underlie the compartment. There is no known potential for other metallic minerals beneath the compartment, but detailed geologic mapping is lacking, and no known ground-based exploration has occurred. Some parcels in the compartment have been leased multiple times in the past, some as recently as 2016, so there may still be some metallic mineral potential in the area.

Vehicle Access:

The Flat Rock Road and the Floodwood Road are the primary arteries of access with various lesser trail roads (two-track quality) branching from these into the interior of the compartment.

Survey Needs:

Any needed survey requests will be made after the compartment review.

Recreational Facilities and Opportunities:

The Porterfield Lake Motorcycle Trail winds extensively throughout the west half of the compartment. Other uses include hunting, fishing, and berry picking.

Fire Protection:

Moderate fire danger is present in this area with some flashy fuels and some aspen. Area is close to zone to the south. Access is good in some areas and difficult due to low ground in the north.

Additional Compartment Information:

The following reports from the Inventory are attached:

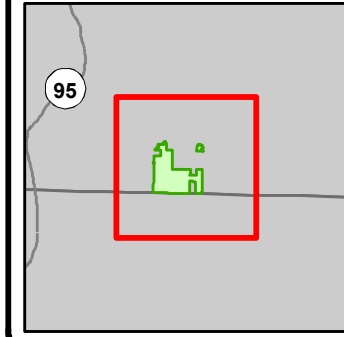
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

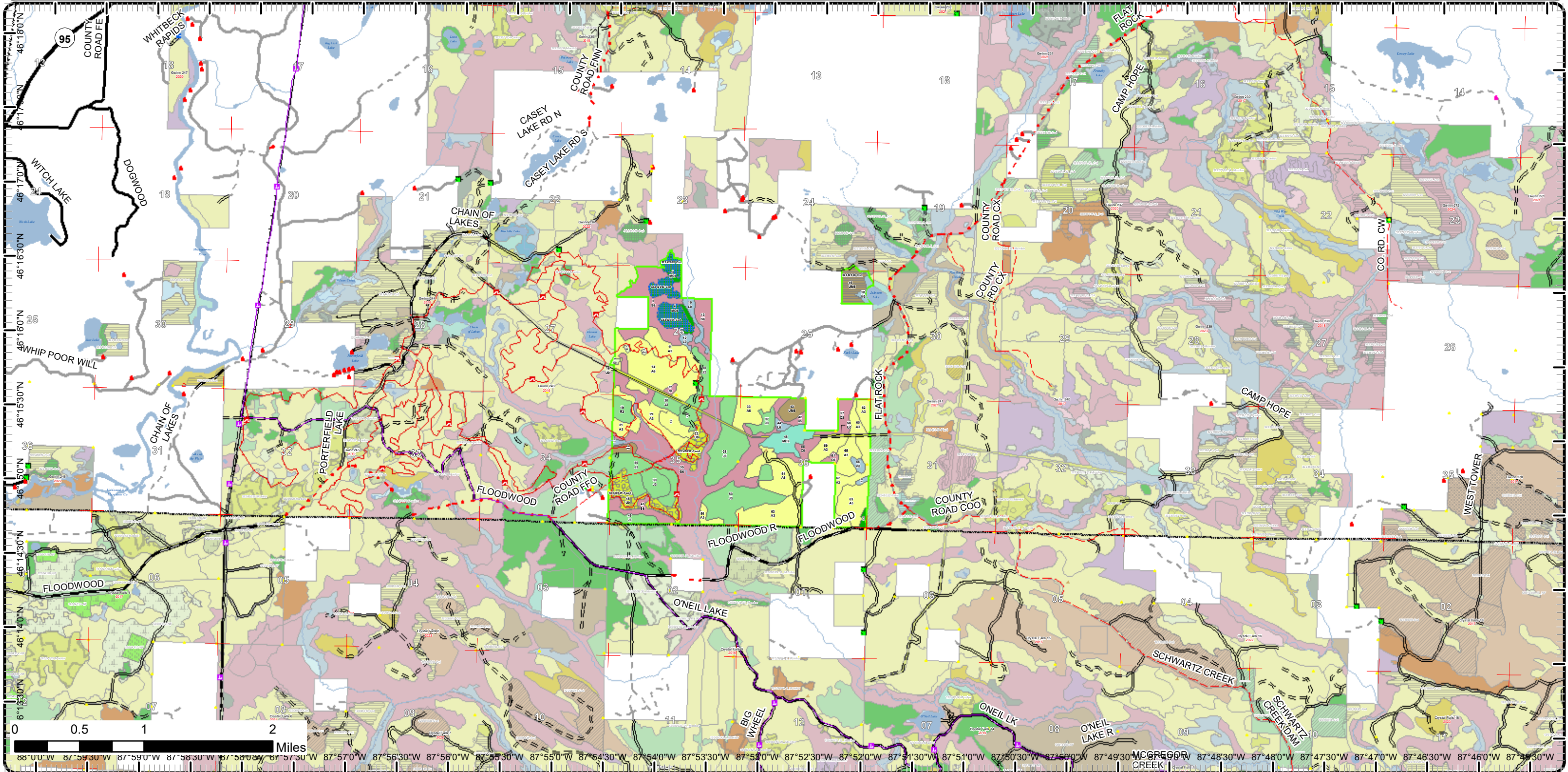
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Overview Map

Compartment: 242
 T45N,R29W, Sec. 25, 26, 35, 36
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2024
 Acres: 1584.9 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/10/2022
 Map Phase: Web-Post

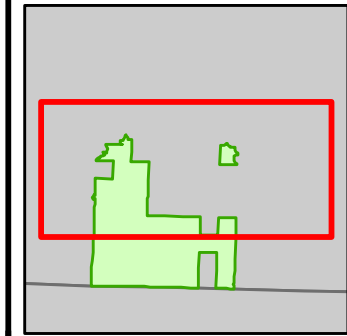


- | | | |
|---------------------------------------|------------------------------|---------------------------------|
| Miris Corners | Snowmobile Trails | Powerline |
| Remonumented Section Corners | ORV License & Trail Permit | Compartment Boundary |
| Survey Grade Corners | Designated Snowmobile Trails | Treatments with Site Conditions |
| Counties | Cabin | Clearcut (w/Reserves) |
| DNR - Primary Forest Road | Berms | Seed Tree (w/Reserves) |
| DNR - Secondary Forest Road | Gate | Seeding (tree species) |
| DNR - Forest Access Route | Bridges | 413 - Aspen |
| Federal / State / County - Paved Road | Culvert | 421 - Planted Pines |
| County - Dirt Road (Seasonal) | Trailhead | 422 - Natural Pines |
| Private - Paved Road | Intermittent Stream | 429 - Mixed Upland Conifers |
| Private - Dirt / Gravel Road | Island in Lake or River | 430 - Upland Mixed Forest |
| Active Railroads | Lake/Pond | 612 - Lowland Coniferous Forest |
| Motorcycle Trails (DNR License) | Perennial River | 310 - Herbaceous Openland |
| | Lakes and Rivers | 330 - Low Density Trees |
| | | 622 - Lowland Shrub |

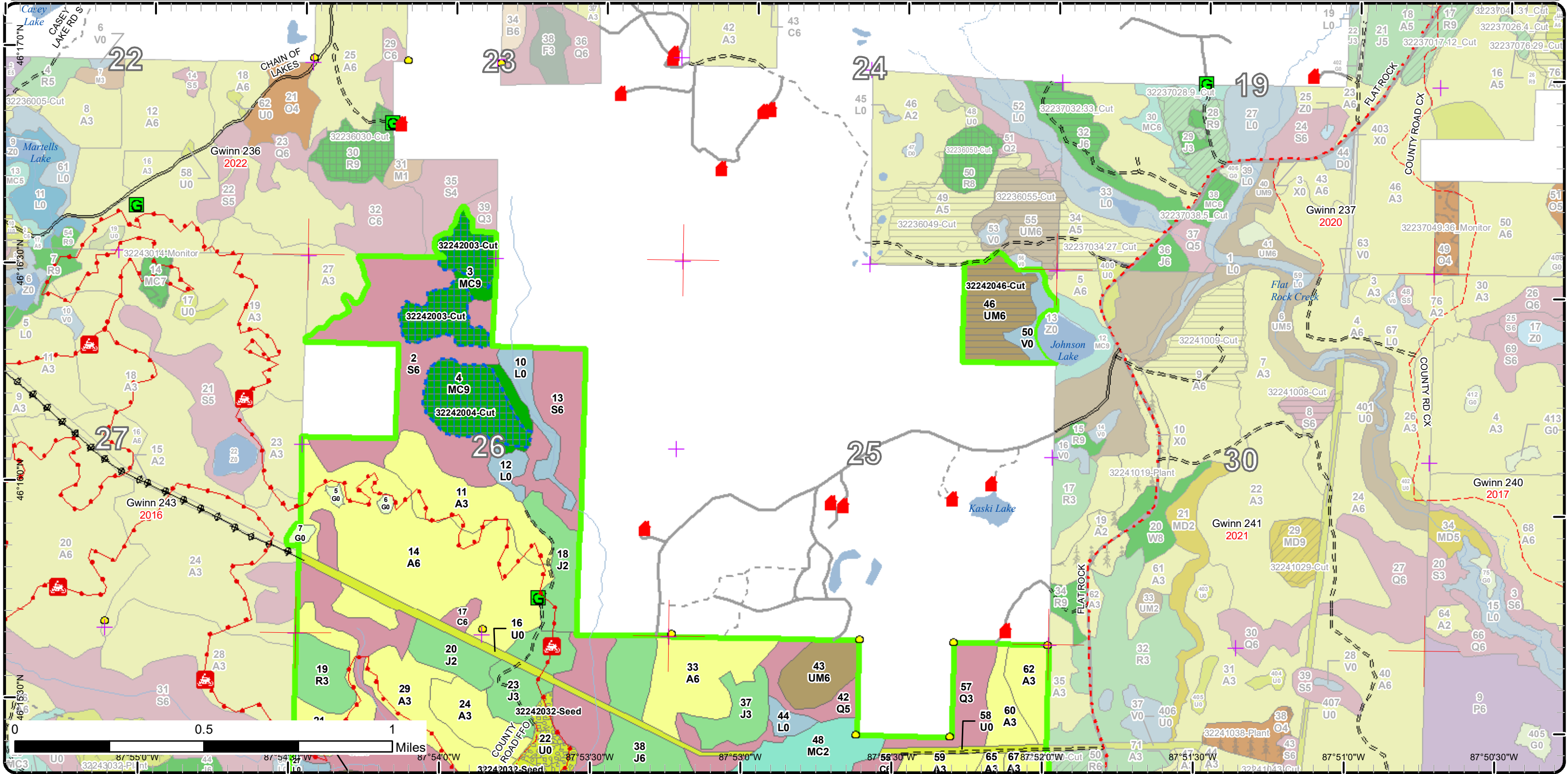


Cover Type & Treatments Map

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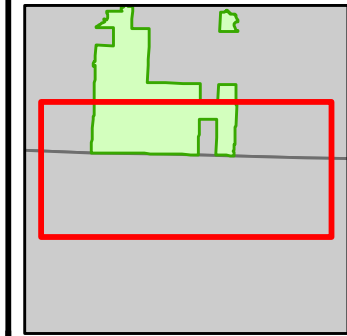


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- 🏍️ Motorcycle Trails (DNR License)
- 🚗 ORV License & Trail Permit
- 🏠 Cabin
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Seeding (tree species)
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

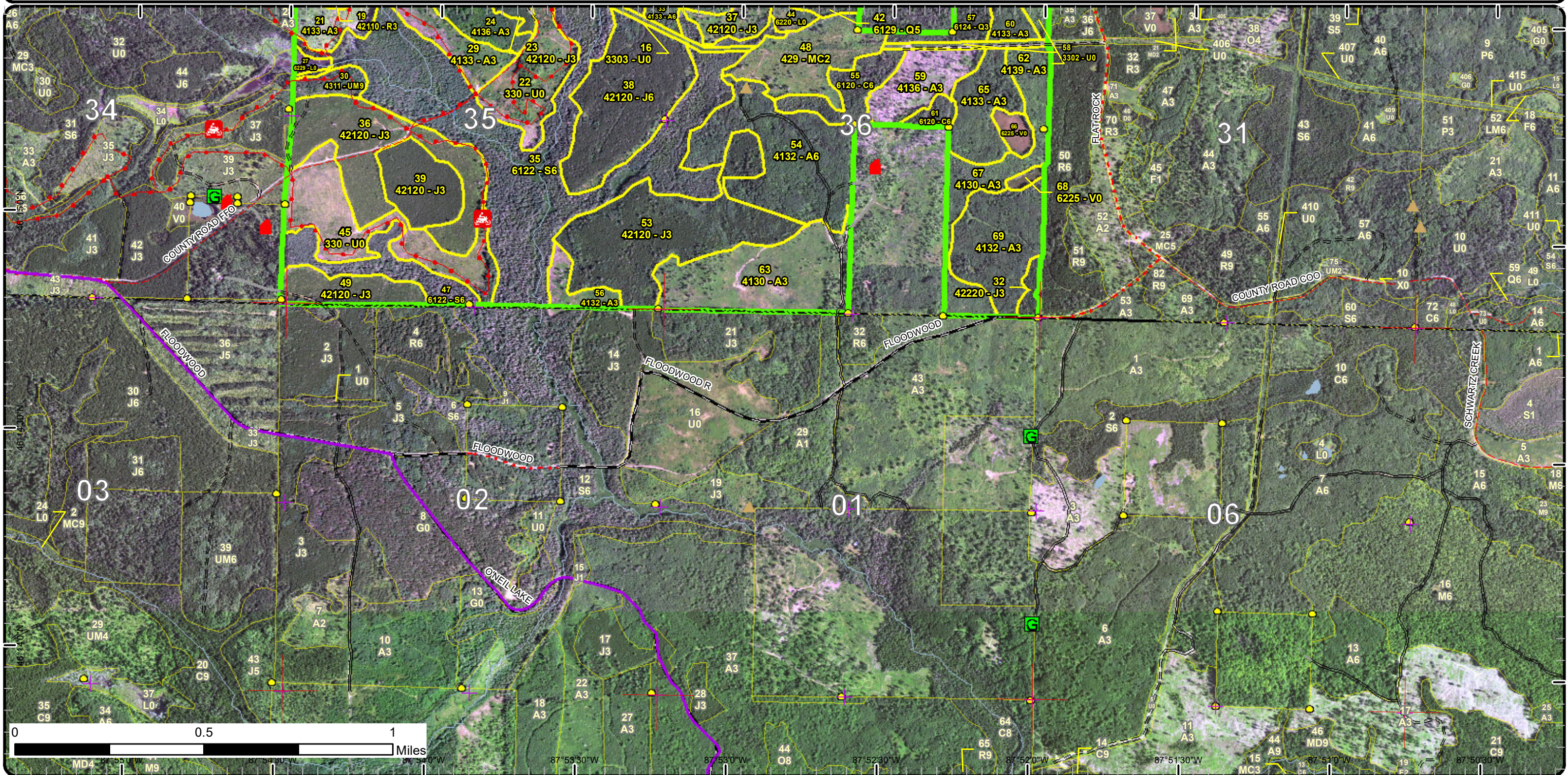


Stand Boundary Map

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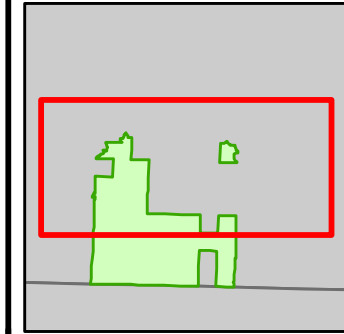


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- ▲ Berms
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- Stand Boundaries
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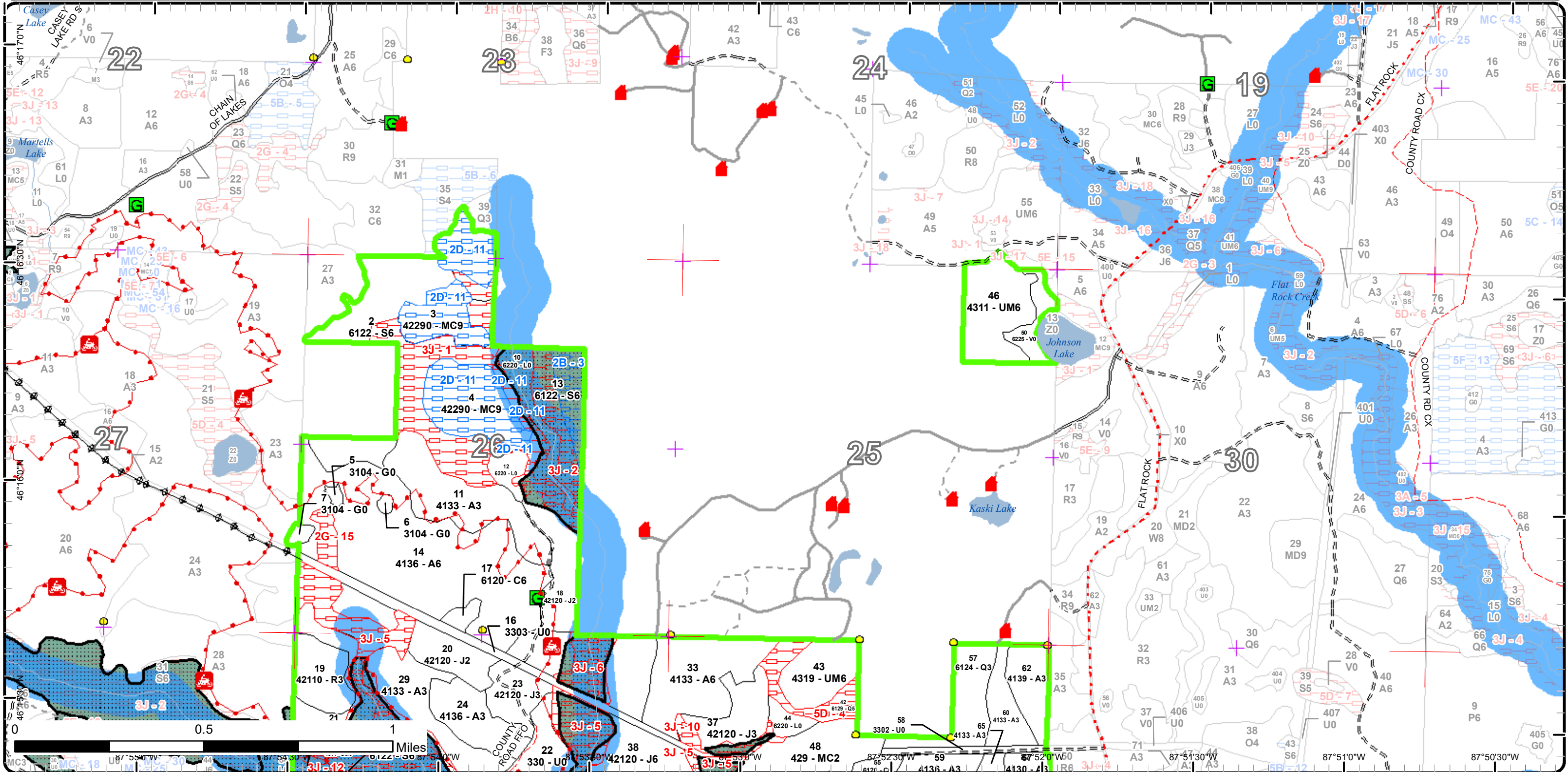


Special Conservation Areas

Compartment: 242
 T45N,R29W, Sec. 25, 26, 35, 36
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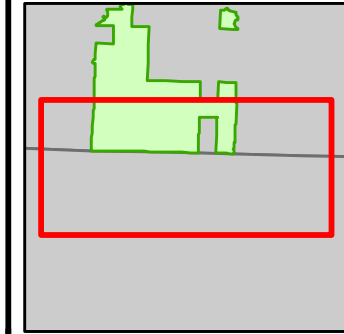


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- Survey Grade Corners
- Counties
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Cabin
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool

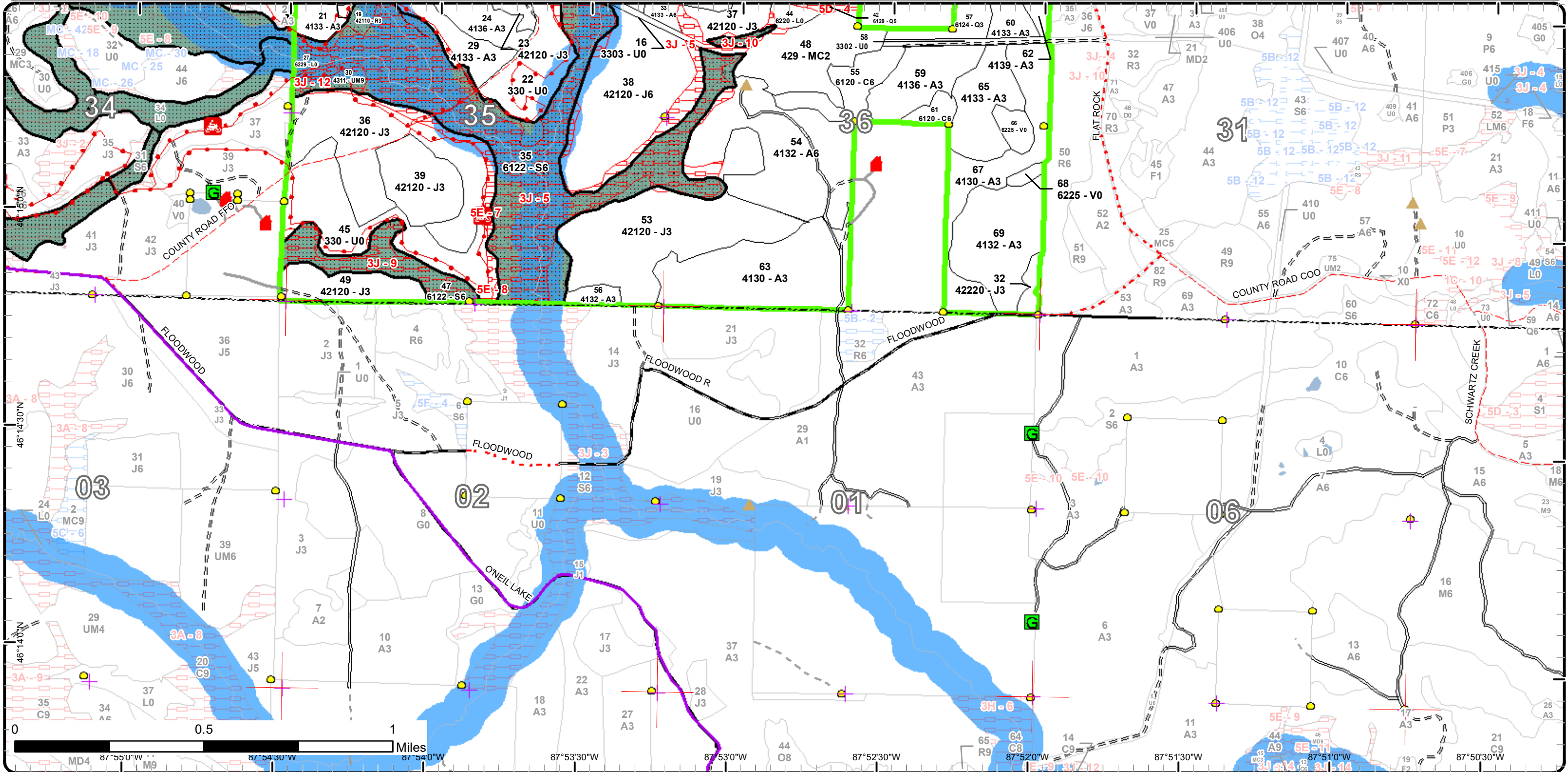


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- Designated Snowmobile Trails
- 🏠 Cabin
- ▲ Berms
- G Gate
- Culvert
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool



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	180	51	96	213	0	0	0	0	0	0	0	0	0	0	0	0	0	540
Bog	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Cedar	0	0	0	0	0	0	0	0	0	0	18	5	3	0	0	0	0	0	26
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Jack Pine	0	0	125	130	75	0	0	0	0	0	0	0	0	0	0	0	0	0	329
Low-Density Trees	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Lowland Conifers	0	0	0	20	0	0	0	0	0	0	0	0	12	0	0	0	0	0	32
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	268	0	0	0	0	0	0	74	342
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	64
Red Pine	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Upland Conifers	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	0	0	18	0	0	29	0	0	0	8	0	0	0	0	0	0	0	0	55
Total	146	180	229	262	288	29	0	0	0	8	350	5	15	0	0	0	0	74	1585



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 242
Total Compartment Acres: 1,585

Commercial Harvest - 28
Harvests with Site Condition - 57
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
Natural Mixed Pines	0	0	0	57	0	0	0	0	0	57
Upland Mixed Forest	29	0	0	0	0	0	0	0	0	29
Total	29	0	0	57	0	0	0	0	0	85

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	85	0	0	74	0	0	0	0	0	159
Next Step	0	0	0	57	0	0	159	0	0	216
Total	85	0	0	131	0	0	159	0	0	376



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:

3	32242003-Cut	29.5	42290 - Natural Mixed Pine	Sawtimber Well	92	111- 140	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Seed tree harvest, leave a residual basal area of 20-30 square feet of red and white pine, leave all trees over 25 inches DBH using a diameter limit. Green tree mark more to get to 20-30 SQ FT. Favor the marking of white pine over red to allow for more natural reproduction.</p> <p><u>Specs:</u> Area retention should be used to satisfy BMP and fisheries guidelines. Check regeneration 5 years after harvest if lacking seed jack pine and spruce using a snowmobile. Check regeneration 5 years after harvest if lacking seed jack pine and spruce using a snowmobile.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Seeding, Hand Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, jack pine, red pine, spruce, fir, aspen, maple, birch.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
4	32242004-Cut	27.3	42290 - Natural Mixed Pine	Sawtimber Well	95	111- 140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Seed tree harvest, leave a residual basal area of 20-30 square feet of red and white pine, leave all trees over 25 inches DBH using a diameter limit. Green tree mark more to get to 20-30 SQ FT. Favor the marking of white pine over red to allow for more natural reproduction.</p> <p><u>Specs:</u> Area retention should be used to satisfy BMP and fisheries guidelines. Check regeneration 5 years after harvest if lacking seed jack pine and spruce using a snowmobile.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine, jack pine, spruce, fir, maple, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
46	32242046-Cut	28.5	4311 - Pine, Aspen Mix	Poletimber Well	41	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees over 2 inches in diameter. leave all white pine, oak and red pine marked in green or over 24 inches in DBH (goal is to leave about 1-2 red pine per acre and not cut legacy trees.) area retention will be a buffer on Jonson Lake.</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, jack pine, maple, oak, red pine, white pine, spruce, fir.</p> <p><u>Regen:</u></p> <p><u>Other</u> cut with stands in 241.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2030</p>											

Approved Treatments:

30	32236030-Cut	16.9	42210 - Natural Red Pine	Sawtimber Well	121	51-80	Harvest	Seed Tree	42290 - Natural Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Seed tree harvest. Leave a residual basal area of 20-30 square feet throughout the stand.</p> <p><u>Specs:</u> WLD: Do not harvest any trees over 26" DBH.</p> <p><u>Next Step</u> Burn, Slash; SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, red pine, jack pine.</p> <p><u>Regen:</u></p>											



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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Other WLD: Do not use herbicide for site preparation. This stand was purchased with State Game Funds.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

22	32242032- Seed	29.6	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Seeding	Machine Seed	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
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Prescription seed

Specs:

Next Step ; ; Monitoring, Direct Seeding

Treatments:

Acceptable jack pine, maple, aspen, spruce, fir, pine.

Regen:

Other Percent to Treat =70%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

45	32242045- Seed	44.5	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Seeding	Machine Seed	42220 - Natural Jack Pine	Even-Aged	No
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Prescription Far west end may be regenerating to aspen skip this area if aspen if fully stocked

Specs:

Next Step ; Monitoring, Direct Seeding

Treatments:

Acceptable Mixed pine.

Regen:

Other Percent to Treat = 60%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 176.3
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 242
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	2D	2G	3J	5D	5E
539	539	0	0	Aspen				0		
16	16	0	0	Bog						
26	26	0	0	Cedar						
4	4	0	0	Herbaceous Openland						
329	329	0	0	Jack Pine				0		
101	98	0	3	Low-Density Trees				0		3
32	20	0	12	Lowland Conifers					12	
26	25	0	0	Lowland Shrub				0		
319	37	11	271	Lowland Spruce/Fir	11		5	267		0
64	0	57	7	Natural Mixed Pines		57		7		
16	16	0	0	Red Pine						
35	35	0	0	Upland Conifers						
55	47	0	8	Upland Mixed Forest				8		
1,563	1,192	68	302	Total Forested Acres	11	57	5	282	12	3
	76%	4%	19%	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)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 242
Year of Entry: 2024

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5D: Unproductive Forest Land	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	189	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 242
Year of Entry: 2024

10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
Comments: Let stand convert to conifers for long-term beaver control.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Some of the stand edges may be harvestable.							

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	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																																																																	
2	6122 - Black Spruce	Poletimber Well	74.0	116	81-110	N/A	Jack pine present along edges; pure cedar in places. Ground cover of lab tea, grasses, sphagnum all noted.																																																																	
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3	42290 - Natural Mixed Pine	Sawtimber Well	32.1	92	111-140	N/A	With scattered low pockets containing lab tea, leatherleaf. Stand was select cut 1970-72 under t. sale #35-70																																																																	
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4	42290 - Natural Mixed Pine	Sawtimber Well	32.2	95	111-140	N/A	Stand had E-W strip cuts from 1958 (#11-58A) and 1970 (#30-69A), where JP, BS and marked red pine were removed. Understory is heavy to S/F, although some RP is regenerating.																																																																	
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11	4133 - Aspen, Mixed Pine	Sapling Well	34.5	6	Immature	N/A	Cut under permit #11-58A in 1958-60. Cut in the summer of 2015 by Triest FP under 32-110-14-01 Sweet Fern Mix.																																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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14 4136 - Aspen, Mixed Conifer Poletimber Well 112.3 36 N/A

"Floodwood Block" sale #012-84 - cut 1985. Some open areas within stand. Oak marked as leave trees. Newer ORV route established through stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Sapling	6		White Pine	Medium	Variable	Sapling
Jack Pine	2	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Oak	2	Log	14		Red Pine	Low	Variable	Sapling
Black Cherry	2	Sapling	3		Jack Pine	Low	10 - 20 feet	Sapling
Quaking Aspen	63	Pole	6	36	Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
Bigtooth Aspen	2	Pole/Log	10		Cherry (spp.)	Medium	10 - 20 feet	Sapling
Balsam Fir	10	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	2	Pole	8					
White Spruce	2	Pole/Log	10					
White Pine	5	Pole/Log	10					

16 3303 - Mixed Low Density Trees Nonstocked 16.6 No

Old ELF R.O.W.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low		Sapling
Quaking Aspen	Low		Sapling
Balsam Fir	Trace		Seeding
Balsam Poplar	Low		Sapling
Black Cherry	Trace		Sapling
Tag Alder	High		Tall Shrub

17 6120 - Lowland Cedar Poletimber Well 3.2 110 Unspecified N/A

Small patch of cedar/spruce with little regeneration. Ground cover of sphagnum, lab tea.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	10		Black Spruce	Medium	>20 feet	Sapling
Northern White Cedar	58	Pole/Log	8	110	Balsam Fir	Low	Variable	Sapling
Black Spruce	40	Pole	8					

18 42120 - Planted Jack Pine Sapling Medium 18.8 13 N/A

"Hermit Lake Road ELF Sale" #110-04 - cut June, 2004. Left any oak, birch, RP, WP and spruce <8" stump diameter. FTP C32-666: disk trench and seed completed 6/24/2008 (no herbicide used). Stand has passed regen check and the FTP can be closed.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	12		Red Pine	Low	< 5 feet	Seeding
Jack Pine	90	Sapling	1	13	Balsam Fir	Low	< 5 feet	Seeding
White Pine	2	Pole/Log	10					
Black Spruce	2	Pole	7					
Jack Pine	2	Pole	6					
Paper Birch	2	Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
19	42110 - Planted Red Pine	Sapling Well	16.4	24	1-50	N/A	"Snowflea-ORV Trail Block" #003-94 - cut 1996. FTP C31-360: disk trench/plant RP (herbicide 5/1997? Velpar L). Trace residual aspen pole/logs, pine, clumps of red maple. Ground cover noted includes: blackberry, sweet fern, bracken and blueberry. Rocky site.																																																																	
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21	4133 - Aspen, Mixed Pine	Sapling Well	21.7	6	Immature	N/A	ORV trail runs through most of stand, rocky site. Cut in the summer of 2015 by Triest FP under 32-110-14-01 Sweet Fern Mix.																																																																	
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22	330 - Low-Density Trees	Nonstocked	31.6	0	Unspecified	4212 - Planted Jack Pine	Cut in the summer of 2015 by Triest FP under 32-110-14-01 Sweet Fern Mix. Site has some pin cherry present and some jack pine seedlings but not sufficient to cover regen site																																																																	
23	42120 - Planted Jack Pine	Sapling Well	23.2	24	Unspecified	N/A	"Schwartz Creek JP Sale" #002-95 - cut April/May, 1996. FTP C31-355: disk trench and seed 1997.																																																																	
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24	4136 - Aspen, Mixed Conifer	Sapling Well	19.0	25	Unspecified	N/A	"Snowflea-ORV Trail Sale" #003-94 - cut Su, 1996. Left any oak, RP, WP, fir and PB seed trees. Ground cover of blueberry, bracken fern.																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 6229 - Mixed lowland shrub Nonstocked 2.7 Unspecified No beaver flooding

29 4133 - Aspen, Mixed Pine Sapling Well 32.7 6 Immature N/A Cut in the summer of 2015 by Triest FP under 32-110-14-01 Sweet Fern Mix. Sufficient logging. Site is filling in with aspen and maple regen drops off some to the east but should seed in naturally.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	XLog/Log	18	
Quaking Aspen	70	Sapling	1	6
Red Pine	10	XLog/Log	18	
Red Maple	10	Sapling	1	

30 4311 - Pine, Aspen Mix Sawtimber Well 8.0 83 51-80 N/A Porterfield Lake Trail runs through stand. Ground cover of blueberry, bracken, sweet fern and wintergreen noted.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	20	Log/XLog/Pole	16		White Pine	Medium	Variable	Sapling
Jack Pine	20	Pole/Log	9		Red Pine	Low	5 - 10 feet	Sapling
Quaking Aspen	53	Pole/Log	10	83	Cherry (spp.)	Medium	10 - 20 feet	Sapling
White Pine	5	Log/XLog	18		Balsam Fir	Low	< 5 feet	Seeding
Balsam Fir	2	Pole	7					

32 42220 - Natural Jack Pine Sapling Well 4.3 26 Unspecified N/A "East End Floodwood Sale" #001-95 - cut Su, 1995. Left any oak, RP, WP, spruce and cherry; also left some PB along Floodwood Road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	7	Pole	8		Red Maple	Medium	< 5 feet	Seeding
White Spruce	2	Pole/Log	9		White Spruce	Low	< 5 feet	Seeding
White Pine	2	Log/XLog	16		White Pine	Low	5 - 10 feet	Sapling
Jack Pine	68	Sapling	2	26	Red Pine	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole/Log	8		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	15	Sapling	2	26				
Black Cherry	2	Pole	6					
Red Pine	2	Log/XLog	12					

33 4133 - Aspen, Mixed Pine Poletimber Well 36.5 33 Unspecified N/A "Seven Locks Block" #009-84 - cut 1987-88. Some open-grown areas with JP/S/F and little to no aspen. Cherry brush.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	3	Pole	9		Sweet Fern	High	< 5 feet	Tall Shrub
Balsam Fir	2	Pole	6		Hazelnut (Beaked)	High	< 5 feet	Tall Shrub
White Pine	10	Log/XLog	14		Red Pine	Low	< 5 feet	Seeding
Quaking Aspen	65	Pole	6	33	Jack Pine	Medium	10 - 20 feet	Sapling
Red Pine	5	Log	14		Balsam Fir	Low	< 5 feet	Seeding
Jack Pine	5	Sapling/Pole	4		White Pine	Medium	< 5 feet	Seeding
Red Maple	10	Pole/Sapling	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
35	6122 - Black Spruce	Poletimber Well	209.7	98	Unspecified	N/A	contains Schwartz Creek and tributaries. Ground cover of sphagnum, snowberry.																																																								
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36	42120 - Planted Jack Pine	Sapling Well	56.6	13		N/A	"Floodwood Jack Pine Sale" #111-04 - cut Sp, 2006. FTP C32-639: herbicide, disk trench and seed completed 6/17/08. Trace amount of residual jack pine. Regeneration appears to be successful - continue to monitor .Stand has passed regen cheek and the FTP can be closed.																																																								
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37	42120 - Planted Jack Pine	Sapling Well	16.1	17	Unspecified	N/A	"ELF West Softwood Sale" #112-04 - cut Su, 2004. FTP C31-465: disk trench and seed, herbicide, if needed. Planted Sp, 2012 w/ 2-0 JP - 688 t/ac (6" - 1' JP seedlings) - also "volunteers" present (heaviest on E. side of stand). Residual RP is mainly in clumps; edges with aspen regeneration. Scattered cherry, spruce "shrubs". 2015 regeneration results show 77% of stand above 500 TPA, and less then 15% under 50 percent stocking. Per TMS the FTP has been completed and closed.																																																								
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39	42120 - Planted Jack Pine	Sapling Well	24.3	24		N/A	"Schwartz Creek Jack Pine Sale" #002-95 - cut April/May, 1996. FTP C31-355: disk trench and seed. Trace amount of JP poles within.																																																								
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42	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	12.0	111	Unspecified	N/A	Ground cover of sphagnum, lab tea and grasses noted.																																																																					
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43	4319 - Mixed Upland Forest	Poletimber Well	18.1	17	1-50	N/A	"ELF West Softwood Sale" #112-04 - cut Su, 2004.																																																																					
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44	6220 - Alder/willow	Nonstocked	4.7		Unspecified	No																																																																						
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45	330 - Low-Density Trees	Nonstocked	47.5	0	Unspecified	4212 - Planted Jack Pine	Cut in 2015 by Triest Forest products under Sweet Fern Mix 32-110-14-01. Site was scarified in the fall of 2016 by DNR resources. Site failed walk though in fall of 2020 now coded for trench and seed. Scattered jack pine and cherry brush present will need treatment to meet minimum stocking.																																																																					
46	4311 - Pine, Aspen Mix	Poletimber Well	28.6	41	81-110	N/A	"Johnson Lake Sale" #003-76 - cut 1979 (with compartment 241).																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
47	6122 - Black Spruce	Poletimber Well	24.0	97	Unspecified	N/A	Low area between upland jack pine stands - wildlife corridor. Trace amount of jack pine poles.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		98	Pole/Sapling	5	97	Black Spruce	Medium	>20 feet	Sapling
Tamarack		2	Pole/Log	8					
48	429 - Mixed Upland Conifers	Sapling Medium	34.6	14	Immature	N/A	"ELF West Softwood Sale" #112-04 - cut Su, 2004. C31-465: herbicide 2006, trench/seed 9/11/07 and hand planted 5/15/2010 and Sp, 2012 (4/21/12: 2-0 JP @688 t/ac). Numerous "volunteers" of JP, BSpr, tamarack, aspen and BF present. 67% of stand is fully stocked, with an average stocking of 583jp per ac and 121 vol. per acre.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry		10	Sapling	1		Tamarack	Low	< 5 feet	Seeding
Quaking Aspen		4	Sapling	1		Jack Pine	High	< 5 feet	Seeding
Balsam Fir		15	Sapling	1					
White Spruce		2	Pole	8					
Jack Pine		55	Sapling	1	14				
Black Spruce		10	Sapling	1					
Paper Birch		2	Pole	10					
Red Pine		2	Log	16					
49	42120 - Planted Jack Pine	Sapling Well	19.2	13		N/A	"Floodwood Jack Pine Sale" #111-04 - cut Su, 2006. FTP C32-639: herbicide, disk trench and seed completed 6/17/08. Some natural "volunteers" within. Trace residual amounts of JP, BF and aspen. Continue to monitor for regeneration success. Stand has passed regen check and the FTP can be closed.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		2	Pole	8		Jack Pine	Full	< 5 feet	Seeding
Jack Pine		98	Sapling	1	13	Cherry (spp.)	Medium	5 - 10 feet	Sapling
50	6225 - Bog	Nonstocked	8.2			No	Lowland adjacent to Johnson Lake (with leatherleaf)		
Sub-Canopy Species		Density	Avg. Height	Size					
White Pine		Low		Seeding					
Jack Pine		Low		Sapling					
Red Pine		Trace		Seeding					
53	42120 - Planted Jack Pine	Sapling Well	77.8	23		N/A	"Scenic Overlook Jack Pine" #003-95 - cut 1995-97. FTP C31-367: herbicide w/Tordon 101 - 7/1998 and trench/seeded - 10/1998.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		2	Sapling	4		Sweet Fern	High	< 5 feet	Tall Shrub
Jack Pine		96	Sapling	2	23				
Red Maple		2	Sapling	4					
54	4132 - Aspen, Jack Pine	Poletimber Well	64.3	34		N/A	"Schwartz Creek Block" #014-84 - cut 1986. Jack pine scattered, in pockets. Aspen breakage - hypoxylon.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		5	Log	15		Jack Pine	Medium	10 - 20 feet	Sapling
Jack Pine		20	Sapling/Pole	4		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
White Pine		2	Log	12		Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub
Quaking Aspen		68	Pole	5	34	White Pine	Low	< 5 feet	Sapling
Balsam Fir		3	Pole	7		Red Pine	Low	< 5 feet	Sapling
Red Maple		2	Pole	7		Balsam Fir	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
55	6120 - Lowland Cedar	Poletimber Well	18.3	96	Unspecified	N/A	cedar/tamarack mix with sphagnum ground cover.																																																																					
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56	4132 - Aspen, Jack Pine	Sapling Well	9.5	7	Immature	N/A	Stand cut in spring of 2015 by Minerick FP under sale #32-113-14-01 Section 36 Mix. FTP # C32-831 for jack pine regen MO of aspen, jack pine. Scarification dropped by TMS after site visit due to topo and age should come back to a jack pine aspen mix naturally.																																																																					
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57	6124 - Lowland Spruce-Fir	Sapling Well	20.3	26		N/A	"East End Floodwood Sale" #001-95 - cut su, 1995. Left RP, WP and advanced S/F regeneration. Some JP, QA, WP and tamarack regeneration noted as well.																																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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59 4136 - Aspen, Mixed Conifer Sapling Well 22.9 7 81-110 N/A Stand harvested in 2015 by Menerick FP 32-113-14-01 Section 36 Mix

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	1	7
Black Spruce	5	Sapling	1	
Balsam Fir	5	Sapling	1	
Red Pine	3	Log	14	
Red Maple	10	Pole	7	47
Bigtooth Aspen	12	Sapling	1	
Jack Pine	10	Sapling	1	
White Pine	5	XLog/Log	20	

60 4133 - Aspen, Mixed Pine Sapling Well 12.0 25 N/A "Cranberry ELF Block" #004-94 - cut Su, 1996. Left PB seed trees, oak, WP and RP. Bushy, open-grown WP. Ground cover of sweet fern, bracken fern noted.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Log/Pole	16		Jack Pine	Low	>20 feet	Sapling
White Pine	10	Log/XLog	16		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole	9		Red Pine	Medium	5 - 10 feet	Sapling
Quaking Aspen	65	Sapling	3	25	White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	7					
Red Maple	5	Pole	7					

61 6120 - Lowland Cedar Poletimber Well 4.9 103 Unspecified N/A Small pocket of cedar/spruce mix - sphagnum ground cover.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	58	Log/Pole	12	103	Balsam Fir	Low	>20 feet	Sapling
Red Maple	5	Pole/Log	10		Black Spruce	Medium	>20 feet	Sapling
Black Spruce	25	Sapling/Pole	4	103				
Yellow Birch	2	Log	14					
Tamarack	5	Pole/Log	9					
Paper Birch	5	Pole	9					

62 4139 - Aspen, Mixed Deciduous Sapling Well 14.2 14 N/A "Floodwood ELF Aspen" #113-04 (Unit 1) - cut March, 2007. Left any oak, cherry, WP - marked RP to cut, and cut S/F >8" stump diameter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	6		Red Pine	Low	< 5 feet	Seeding
White Spruce	2	Pole/Log	9		Balsam Fir	Medium	< 5 feet	Seeding
White Pine	2	Pole/Log	10		Red Maple	High	5 - 10 feet	Sapling
Quaking Aspen	49	Sapling	1	14	White Pine	Low	< 5 feet	Seeding
Red Maple	30	Sapling/Pole	1	14	Jack Pine	Low	< 5 feet	Seeding
Red Pine	10	Log/Pole	10					
Red Oak	2	Pole/Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																					
63	4130 - Aspen	Sapling Well	58.4	7	Immature	N/A	Section 36 mix cut by Minerick FP in spring of 2015. now under FTP C32-831 for jack pine regen, mo of pine aspen mix. Scarified by DNR resources in 2016 no cost data available. regeneration should be checked during reinventory. Ground cover noted includes bracken fern, hazel, grasses.																																																																					
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65	4133 - Aspen, Mixed Pine	Sapling Well	25.0	24		N/A	"Cranberry ELF Block" #004-94 - cut Su, 1997. Left any oak, WP, RP and PB seed trees.																																																																					
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