



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32066

Entry Year 2025

Acreage: 2,201

County Marquette

Management Area: Menominee-Marquette

Stand Examiner: Eric Brolin

Legal Description:

T43N-R25W Sections 4, 5, 6, 7, 8, 9, 16, 17, 18.

Identified Planning Goals:

Maintain and/or improve the health, productivity, diversity and sustainability of the various forest cover types while providing for a diverse range of wildlife, fisheries, environmental, and recreational values.

Soil and topography:

Terrain ranges from level swamps and wetland drainages to rolling or slightly rolling uplands. Major soil types are: Carbondale and Tawas soils, Emmet fine sandy loam, Rubicon sand, Kalkaska sand, Rousseau fine sand, Croswell sand, Greenwood and Dawson soils, Paquin sand, Croswell-Deford complex, Kalkaska-Waiska complex, Sundog-Rock outcrop complex, Paquin-Finch sands, Tawas-Deford mucks, and Au Gres-Deford complex.

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

State property borders the compartment to the south and east. The majority of the north side is adjacent to state ownership with a few small private parcels and camps. The west edge is adjacent to mainly private property and a smaller parcel of state land.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

NLMMU – John Bauman: This compartment contains Chynes Creek and the Little West Branch Escanaba River. Chynes Creek and the Little West Branch Escanaba River are designated Type 1 trout streams less than 50-foot wide with predicted mean July water temperatures that range from 63.3 to 66.2 °F (cold streams). 300-foot buffers are recommended for Chynes Creek and the Little West Branch Escanaba River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Menominee-Marquette 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 Menominee-Marquette Management Area: American Woodcock, Blackburnian Warbler, Cerulean Warbler, Golden-winged Warbler, Black-backed Woodpecker, Ruffed Grouse, Turkey, American Marten, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured till (drumlin area), glacial outwash sand and gravel and postglacial alluvium and minor peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien Group subgroups below the glacial drift, and could be used for stone. Gravel pits are located in this area and there is

potential especially the upland areas. Abandoned iron mines are located six miles to the northeast. Section 18, to the south, is leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road 557 (paved) bisects the compartment, north to south. Camp Sundown road (DNR) provides access to the west of 557. The Little West road (a portion is seasonal county road) provides access to the east of 557. Numerous DNR poor dirt roads and closed poor dirt roads enter many stands and provide vehicle and foot traffic access. Eventually a new connector road should be constructed in stand 44 to provide access that doesn't pass through the private parcel to the north. Camp Sundown road provides access to numerous camps located west of the compartment, and is usually plowed all winter by those camp owners.

Survey Needs:

Possible survey needs for this Compartment.

Recreational Facilities and Opportunities:

The snowmobile trail follows Little West road. A Hunter Walking Trail is situated within stand 7. Hunting opportunities are numerous in this compartment.

Fire Protection:

Wildfire frequency is low in this compartment. When fires occur they are usually low in intensity and are easily accessed.

Additional Compartment Information:

The following reports from the Inventory are attached:

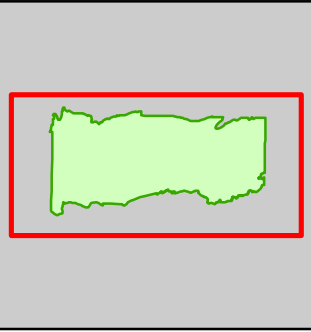
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

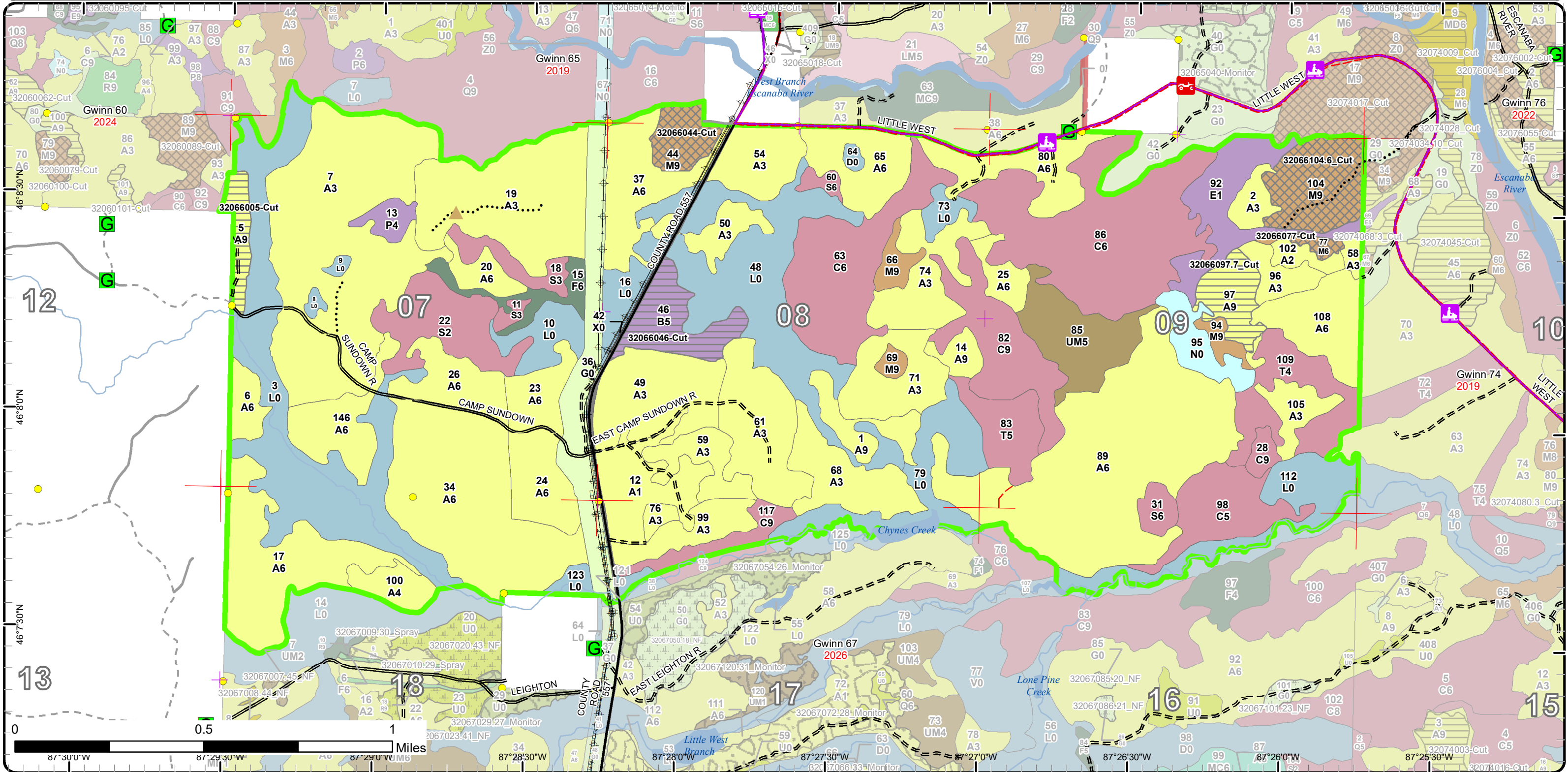
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 66
 T43N, R25W, Sec: 07, 08, 09
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Menominee-Marquette
 YOE: 2025
 Acres: 2200.8 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 8/18/2023
 Map Phase: Pre-Review

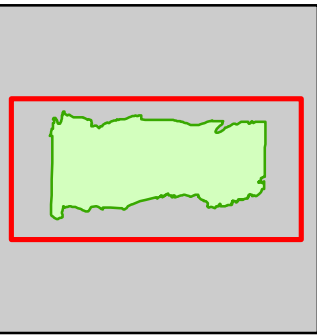


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland

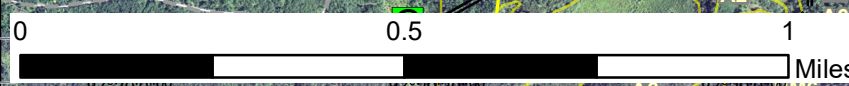
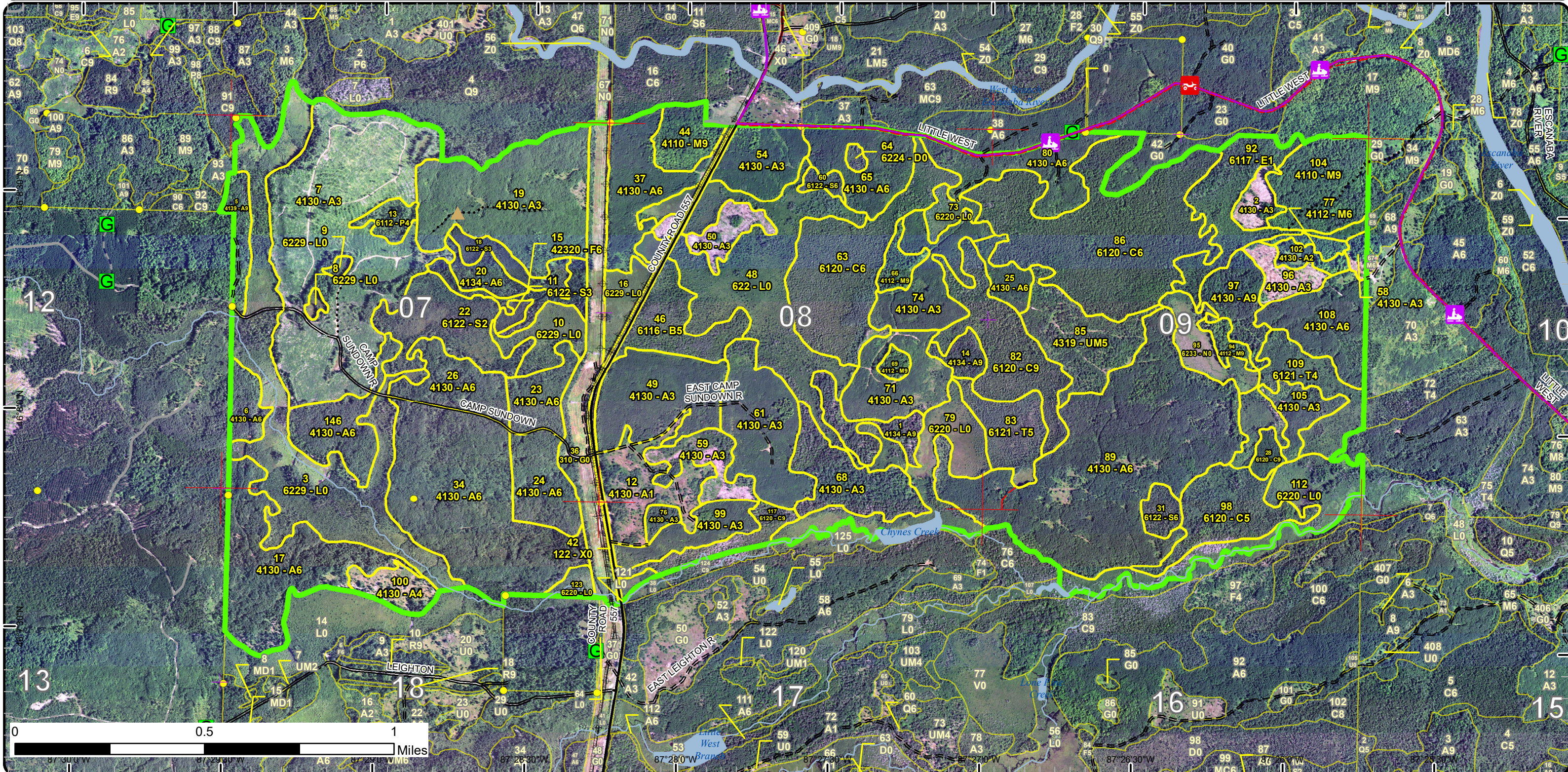


Stand Boundary Map

Compartment: 66
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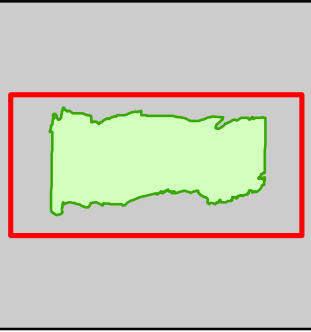


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- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
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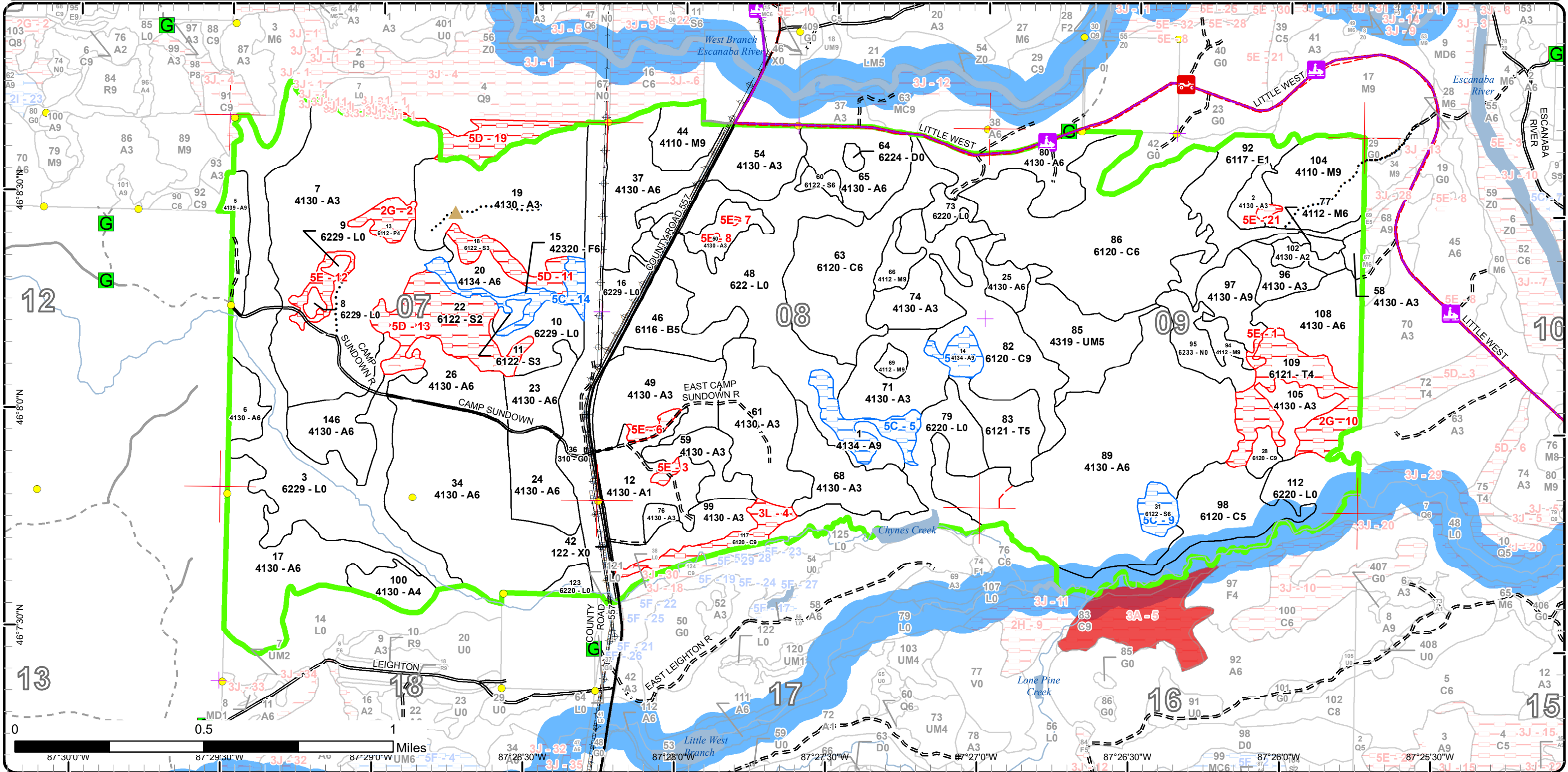


Special Conservation Areas

Compartment: 66
 T43N, R25W, Sec: 07, 08, 09
 County: Marquette
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- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	242	182	331	403	0	20	11	0	0	23	0	0	0	0	0	0	0	1210
Cedar	0	0	0	0	0	0	0	0	0	0	0	33	5	219	0	0	14	0	271
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Lowland Deciduous	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Shrub	332	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332
Lowland Spruce/Fir	0	0	0	0	0	0	0	4	7	0	53	0	0	0	0	0	0	0	63
Marsh	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Northern Hardwood	0	0	0	0	0	0	0	0	9	3	59	0	0	0	0	0	0	0	71
Paper Birch	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Tamarack	0	0	0	0	0	0	22	0	36	0	0	0	0	0	0	0	0	0	58
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Upland Spruce/Fir	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	409	242	182	331	440	0	78	62	52	3	135	33	5	219	0	0	14	0	2202



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 66
Total Compartment Acres: 2,201

Commercial Harvest - 111
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	30	0	0	0	0	0	0	0	0	30
Northern Hardwood	0	55	0	0	0	0	0	0	0	55
Paper Birch	26	0	0	0	0	0	0	0	0	26
Total	56	55	0	0	0	0	0	0	0	111

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	111	0	0	0	0	0	0	0	0	111
Next Step	0	0	0	0	0	111	0	0	0	111
Total	111	0	0	0	0	111	0	0	0	223



Stand Name	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:

5	32066005-Cut	11.4	4139 - Aspen, Mixed Deciduous	Sawtimber Well	65	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote aspen regeneration. Retention should include large diameter, forked crown aspen. Green tree some healthy</p> <p><u>Specs:</u> white spruce to leave. Leave cedar and hemlock.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Look for retention in far north tip where ground becomes a bit soft. Include with sale to the NW, start date is updated.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
44	32066044-Cut	15.8	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality by removing larger, poor quality trees. Create/improve canopy gaps to encourage regeneration. Remove all merchantable spruce/fir and aspen. Leave some large future snag trees for wildlife. Favor species diversity, especially basswood, while marking.</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> northern hardwood</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>											
46	32066046-Cut	26.3	6116 - Lowland Birch	Poletimber Medium	65	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote regeneration. Retention should include some larger, healthy paper birch. Leave cedar and hemlock.</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> lowland hardwood, conifer</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>											

Approved Treatments:

77	32066077-Cut	3.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	70	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality while maintaining target BA. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Favor species diversity while marking.</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> hardwood</p> <p><u>Regen:</u></p>											



Standard

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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<p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
97	32066097.7_C	18.3	4130 - Aspen	Sawtimber	58	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>ut</u></p> <p><u>Prescription</u> Harvest aspen, balsam poplar, fir, maple and white birch. Use patch exclusions to meet retention. Exclude patches of pure hardwood. Leave some spruce and cherry. Leave cedar, hemlock, white pine, oak and yellow birch.</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 Regen:</u> Aspen, maple, fir, spruce, cherry, birch, and balsam poplar.</p> <p><u>Other Comment:</u> The snowmobile trail won't be used during the snowmobile season for logging purposes (summer and/or Fall operations only). Old next step comments: Monitor regeneration as outlined in Work Instructions. Aspen, birch, balsam poplar, cherry, maple, fir and spruce are acceptable regeneration.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
104	32066104.6_C	35.9	4110 - Sugar Maple Association	Sawtimber	90	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>ut</u></p> <p><u>Prescription</u> Mark hardwoods to a residual BA of 80 to 90 sq. ft., using applicable guidelines. Create regeneration gaps where appropriate. Remove majority of aspen, leaving some scattered trees. Leave cedar, hemlock, spruce and white pine.</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 Regen:</u> Maple, basswood, black cherry, spruce, and aspen.</p> <p><u>Other Comment:</u> The snowmobile trail won't be used during the snowmobile season for logging purposes (summer and/or Fall operations only). Old next step comments: Monitor regeneration as outlined in Work Instructions. Acceptable regeneration includes a mix of hardwood species.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 111.3
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 66
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	2G	3A	3J	3L	5D	5E
1210	1173	23	14	Aspen	23			0		0	14
271	257	0	14	Cedar				0	14		
48	48	0	0	Herbaceous Openland							
7	0	0	7	Lowland Aspen/Balsam Poplar		7					
36	36	0	0	Lowland Deciduous							
332	331	0	0	Lowland Shrub			0				
63	7	7	49	Lowland Spruce/Fir	7					49	
17	17	0	0	Marsh							
72	72	0	0	Northern Hardwood							
26	26	0	0	Paper Birch							
58	22	0	36	Tamarack		36					
2	2	0	0	Treed Bog							
37	37	0	0	Upland Mixed Forest							
13	0	13	0	Upland Spruce/Fir	13						
10	10	0	0	Urban							
2,201	2,037	43	121	Total Forested Acres	43	43	0	0	14	49	14
	93%	2%	5%	Relative Percent							

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 97.								
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Saturated sparse ground excluded from past adjacent management.								

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 66
Year of Entry: 2025

3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Long term retention for stand 59.</p>							
4	Unavailable	3L: Other wildlife concerns	14	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Dense cedar stand.</p>							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Should have been part of adjacent harvest. Can not access now without new roads and damage to young trees. Available in the future.</p>							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Long term retention for stand 49.</p>							
7	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Mature patch of aspen.</p>							
8	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Mature aspen patch.</p>							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Can be managed and easily accessed next YOE when adjacent aspen is cut.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
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10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments: Flooded, stunted, sparse trees.							
11	Unavailable	5D: Unproductive Forest Land	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand may never grow into merchantable size trees.							
12	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 7.							
13	Unavailable	5D: Unproductive Forest Land	38	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Stand may never grow into merchantable size trees.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wait until next YOE when more spruce becomes merchantable and adjacent aspen stand may be harvested.							
19	Unavailable	5D: Unproductive Forest Land	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 66
Year of Entry: 2025

21	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 96.							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
1	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.6	90	81-110	N/A	Mature aspen with declining fir mix. Some low ground patches within. Areas from original stand that was not included with past harvest. Difficult to access now without new roads and/or causing damage to dense regen.																																																					
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2	4130 - Aspen	Sapling Well	8.6	6	Immature	N/A	Aspen sapling stand. Some areas of saturated, soft ground within.																																																					
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3	6229 - Mixed lowland shrub	Nonstocked	114.3			No	Web of flooded lowland area with alder and marsh grasses. Some sparse and stunted lowland conifer saplings in patches.																																																					
5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	11.4	65	111-140	N/A	Large diameter mixed aspen with some poor quality maple logs in areas. Larger merchantable fir is in good shape yet.																																																					
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6	4130 - Aspen	Poletimber Well	10.6	36	81-110	N/A	Aspen poles with some scattered larger diameter. Sapling understory dense in areas with hazel brush. Old roads no longer exist. Harvested under permit #012-85-01.																																																					
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7	4130 - Aspen	Sapling Well	152.6	8	Immature	N/A	Dense sapling stand of aspen with a heavy mix of hardwood in most areas. Long term retention patches located around lowland bogs in the center. Some areas along edges were excluded, could be managed in the future. Hunter Walking Trail passes through stand. Stand cut in 2015, under permit 32-008-14. Basswood and yellow birch are infrequent overstory associates. Excellent aspen sucker stocking. Wildlife erected gate in 2016 on hunter walking trail where an old berm had been positioned, and posted hunter walking trail sign. FTP # W32-811 initiated in 2014 to manage old hunter walking trail and associated openings.																																																					
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8	6229 - Mixed lowland shrub	Nonstocked	1.9	0		No	Small bog depression.																																													
9	6229 - Mixed lowland shrub	Nonstocked	1.6	0		No	Small bog depression.																																													
10	6229 - Mixed lowland shrub	Nonstocked	16.3			No	Flooded lowland area with alder and marsh grasses. Some sparse and stunted lowland conifer saplings in patches.																																													
11	6122 - Black Spruce	Sapling Well	3.0	92	1-50	N/A	Dense, solid black spruce stand. Overall larger sapling size with some merchantable poles speckled in. Some decline in black spruce. Can reevaluate next YOE but this stand may not grow into merchantable size.																																													
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12	4130 - Aspen	Sapling Poor	32.5	23	1-50	N/A	Old grown in opening with scattered individual and patches of trees. Noticed some surviving red oak but no bur oak from past planting. In 2015, a total of 80 red oak and 60 burr oak was planted in this stand and adjacent Comp 66, Std 56 by an MUCC / UP Whitetails volunteer event.																																													
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13	6112 - Lowland Aspen	Poletimber Poor	7.5	65	1-50	N/A	Sparse low patch with saturated ground that was excluded from past adjacent management.																																													
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15	42320 - Upland Spruce	Poletimber Well	12.8	60	81-110	N/A	Excellent black spruce quality and diameter for younger age. Pockets of larger diameter spruce within. Scattered mature aspen and birch within showing decline. Overall pole size but a lot of smaller diameter mixed in. Edges transition to lowland spruce flats with stunted, non-merchantable sized trees.																																															
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16	6229 - Mixed lowland shrub	Nonstocked	20.0			No	Flooded alder lowland with some scattered conifer saplings.																																															
17	4130 - Aspen	Poletimber Well	62.6	36	81-110	N/A	Aspen poles with some scattered larger diameter. Sapling understory dense in areas with hazel brush. Old roads no longer exist. Some low patches along the west edge. Some areas in the east/central may have been left from past harvest. Harvested under permit #012-85-01.																																															
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18	6122 - Black Spruce	Sapling Well	11.5	92	1-50	N/A	Dense, solid black spruce stand. Overall larger sapling size with some merchantable poles speckled in. Some decline in black spruce. Can reevaluate next YOE but this stand may not grow into merchantable size.																																															
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19	4130 - Aspen	Sapling Well	78.2	17	Immature	N/A	Dese aspen saplings with some fir in the understory. Some open cherry patches scattered within. Harvested under permit #007-05-01 in 2005-2006.																																															
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20	4134 - Aspen, Spruce/Fir	Poletimber Well	9.7	36	51-80	N/A	Aspen pole stand. Center portion has dense maple sapling understory. Outer edges transition to conifer, mostly declining fir, and eventually black spruce. Far outer edges contain more mature black spruce that could be included in future management.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
22	6122 - Black Spruce	Sapling Medium	37.8	95	1-50	N/A	Sparsely stocked and stunted lowland conifer with alder areas.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce		75	Sapling/Pole	3	95	Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		10	Pole	8					
Tamarack		15	Pole/Sapling	5					
23	4130 - Aspen	Poletimber Well	17.3	28	1-50	N/A	Dense aspen saplings transitioning to pole sized trees. Some larger spruce/fir mixed in. Areas along S/SE border and southcentral interior contain lower ground pockets. Lower ground was excluded in the past along S/SE edges.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		15	Sapling/Pole	4		Balsam Fir	Low	Variable	Sapling
White Spruce		5	Pole	8		Ironwood	Low	Variable	Sapling
Balsam Fir		5	Pole	8		White Spruce	Low	Variable	Sapling
Quaking Aspen		70	Pole/Sapling	5	28	Red Maple	Low	Variable	Sapling
Red Maple		5	Pole/Sapling	6					
24	4130 - Aspen	Poletimber Well	24.4	36	1-50	N/A	Dense aspen poles with some saplings still. Some larger spruce/fir mixed in. Cut in 1987.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Pole/Sapling	6	36	Red Maple	Low	Variable	Sapling
Bigtooth Aspen		15	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole	8		Ironwood	Low	Variable	Sapling
Red Maple		5	Pole/Sapling	6		White Spruce	Low	Variable	Sapling
White Spruce		5	Pole	8					
25	4130 - Aspen	Poletimber Well	9.5	33	1-50	N/A	Aspen stand transitioning to pole sized trees. Red maple saplings filling in any gaps and abundant in the understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		3	Pole/Sapling	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		79	Pole/Sapling	6	33	Red Maple	High	Variable	Sapling
Balsam Fir		3	Pole/Sapling	5		Black Cherry	Low	Variable	Sapling
Red Maple		10	Sapling	3					
Paper Birch		5	Sapling/Pole	4					
26	4130 - Aspen	Poletimber Well	23.8	36	1-50	N/A	Dense aspen poles with some saplings mixed in. Some larger spruce/fir mixed in. Areas with lower ground central interior.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Bigtooth Aspen		15	Pole/Sapling	7		White Spruce	Low	Variable	Sapling
White Spruce		5	Pole	8		Red Maple	Low	Variable	Sapling
Balsam Fir		5	Pole	8		Ironwood	Low	Variable	Sapling
Quaking Aspen		70	Pole/Sapling	6	36				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
28	6120 - Lowland Cedar	Sawtimber Well	5.0	115	111-140	N/A																																																		
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31	6122 - Black Spruce	Poletimber Well	7.4	78		N/A	Nice black spruce and tamarack patch. Small areas within are a bit sparser.																																																	
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34	4130 - Aspen	Poletimber Well	104.0	28	1-50	N/A	Dense aspen saplings transitioning to pole sized trees. Some larger spruce/fir mixed in. Areas along S/SE border and southcentral interior contain lower ground pockets. Lower ground was excluded in the past along S/SE edges.																																																	
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36	310 - Herbaceous Openland	Nonstocked	47.5			Managed Opening	Utilities ROW.																																																	
37	4130 - Aspen	Poletimber Well	36.0	27	1-50	N/A	Good quality aspen transitioning to pole sized trees. Some fir sapling in the understory in areas. Harvetsed under permit #021-95-01.																																																	
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42	122 - Road/Parking Lot	Nonstocked	9.8		Unspecified	Managed Opening																																																		
44	4110 - Sugar Maple Association	Sawtimber Well	15.8	91	111-140	N/A	Fairly good quality hardwoods with some larger defect trees within. Open under story except for some scattered ironwood saplings. 130 140 110 Average of 125 BA.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
46	6116 - Lowland Birch	Poletimber Medium	26.3	65	51-80	N/A	Medium pole sized paper birch showing decline. Patches of mature black spruce in the center and south. Stand is a slight elevation rise from adjacent lowland but still wet ground with alder and cattails. A bit lower ground with even sparser trees across the center.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		65	Pole/Log	8	65	Balsam Fir	Medium	Variable	Sapling
Red Maple		2	Pole/Log	9		Black Spruce	Low	Variable	Sapling
Black Spruce		30	Pole/Sapling	7		Cattail spp.	Medium	Unspecified	Non-Wood
Balsam Poplar		3	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
48	622 - Lowland Shrub	Nonstocked	87.8		Unspecified	No	Thick alder. patches of stunted trees and saplings, mainly along edges.		
49	4130 - Aspen	Sapling Well	45.1	25	1-50	N/A	Dense aspen saplings with some near pole sized trees.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		75	Sapling/Pole	4	25	Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen		20	Pole/Sapling	5	25	Red Maple	Medium	Variable	Sapling
Balsam Fir		5	Pole	6		Ironwood	Low	10 - 20 feet	Sapling
50	4130 - Aspen	Sapling Well	13.4	8	Immature	N/A	Dense aspen saplings. Some open patches along edges with no regen where there was more of a lowland type. These areas are showing a little bit of black spruce regen but not too much yet.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5	Sapling	3		Balsam Fir	Low	Variable	Sapling
Northern White Cedar		1	Pole	9		Black Spruce	Trace	< 5 feet	Sapling
Quaking Aspen		94	Sapling	2	8				
							Sale cut in early 2016, under permit #32-021-15-01.		
54	4130 - Aspen	Sapling Well	23.9	18	Immature	N/A	Dense aspen saplings. Some hardwood speckled in the NW corner of stand. NW corner had a shelterwood harvest, aspen in these few acres is 27 years old.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		5	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Quaking Aspen		85	Sapling	2	18	Sugar Maple	Low	Variable	Sapling
Balsam Fir		5	Sapling/Pole	4		Black Cherry	Low	Variable	Sapling
Paper Birch		5	Sapling	2		Ironwood	Low	10 - 20 feet	Sapling
58	4130 - Aspen	Sapling Well	3.4	6	Immature	N/A	Aspen sapling stand.		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		90	Sapling	2	6				
Balsam Fir		10	Sapling	3					
59	4130 - Aspen	Sapling Well	17.5	6	Immature	N/A	Dense sapling stand heavy to aspen. Scattered residual cherry poles within. Finger of long term retention in the west.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Sapling	2		Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Sapling/Pole	4		White Spruce	Low	Variable	Sapling
Black Cherry		10	Sapling	2					
Bigtooth Aspen		15	Sapling	2					
Quaking Aspen		65	Sapling	2	6				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	6122 - Black Spruce	Poletimber Well	3.7	60	81-110	N/A	Many one stick trees. White birch poletimber present.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		90	Pole/Sapling	7	60	Black Spruce	
Tamarack		10	Pole	8		Tag Alder	
						Labrador Tea	
						Density	Avg. Height
						Low	10 - 20 feet
						Low	5 - 10 feet
						Medium	< 5 feet
						Size	
						Sapling	Tall Shrub
						Tall Shrub	
61	4130 - Aspen	Sapling Well	43.6	17	Immature	N/A	Dense aspen saplings with some scattered conifer. Small maple patch in NE.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		5	Log/Pole	10		Red Maple	
Quaking Aspen		53	Sapling	2	17		
Bigtooth Aspen		25	Sapling	3	17		
Red Maple		10	Sapling	2			
Black Cherry		5	Sapling	2			
Balsam Fir		2	Pole	6			
						Density	Avg. Height
						Medium	Variable
							Sapling
63	6120 - Lowland Cedar	Poletimber Well	62.9	125	111-140	N/A	Dense cedar stand. North finger includes some lowland hardwood mix. A small patch dense to tamarack in the SE may be managed with adjacent stand in the future.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Paper Birch		3	Pole	5		Tag Alder	
Black Ash		3	Pole/Sapling	5			
Northern White Cedar		79	Log/Pole	12	125		
Black Spruce		5	Pole	8			
Tamarack		10	Log/Pole	12			
64	6224 - Treed Bog	Nonstocked	2.0		Unspecified	No	Lowland depression with some conifer.
65	4130 - Aspen	Poletimber Well	28.9	37	81-110	N/A	Aspen poles with dense fir understory. Lowland ground in the east half may need to be excluded from future management.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Balsam Fir		10	Pole	6		Balsam Fir	
Bigtooth Aspen		10	Pole	7		Black Cherry	
Black Ash		5	Sapling	4			
Quaking Aspen		68	Pole/Sapling	6	37		
Black Cherry		2	Pole/Sapling	5			
Paper Birch		5	Pole	5			
						Density	Avg. Height
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						Low	Variable
							Sapling
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66	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.1	90	81-110	N/A	Thinned in 1995. Lighter canopy stocking yet around 100 BA. Very dense and well established maple sapling understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		60	Log/Pole	12	90	Sugar Maple	
Red Maple		30	Log/Pole	12		Red Maple	
Yellow Birch		5	Log/Pole	12		Balsam Fir	
Basswood		5	Log	12			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
68	4130 - Aspen	Sapling Well	31.4	3	Immature	N/A	Dense aspen saplings with some black cherry and red maple mixed in. Scattered residual cherry poles standing within. NW area drops into some lower soft ground. (6-5-20 EB) Leighton East SBW #32-034-16. Clear-cut leaving H, WP, C, YB.																																														
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69	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.4	85	81-110	N/A	Poorer quality red maple log stand. Average under 100 BA.																																														
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71	4130 - Aspen	Sapling Well	30.1	15	Immature	N/A	Dense aspen sapling stand. Some patchy low areas in the SE portion.																																														
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73	6220 - Alder/willow	Nonstocked	6.9			No	Flooded alder/brush stand with seasonal flowing water from adjacent stands.																																														
74	4130 - Aspen	Sapling Well	31.9	24	Immature	N/A	Aspen saplings nearing pole sized trees. Some conifer along road edges includes white pine.																																														
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77	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.2	70	111-140	N/A	Hardwood pole stand. Poorer quality with some better quality mixed in. Good maple regen in patches and larger gaps.																																																														
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79	6220 - Alder/willow	Nonstocked	39.3			No	Web of flooded lowland with alder and marsh grass areas.																																																														
80	4130 - Aspen	Poletimber Well	30.4	36	81-110	N/A	Dense aspen, small pole sized trees. Very dense fir understory.																																																														
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82	6120 - Lowland Cedar	Sawtimber Well	43.9	125	141-170	N/A	Dense cedar stand.																																																														
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83	6121 - Tamarack	Poletimber Medium	22.4	53		N/A	Sparse, flooded lowland conifer. Scattered tamarack with black spruce in the center. Did not confirm age, stand is too sparse and wet to be managed.																																																														
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85	4319 - Mixed Upland Forest	Poletimber Medium	36.9	33	1-50	N/A	Evenly scattered conifers, heavy to fir. Any open patches are filling in with mainly cherry saplings. Poorer quality, well drained site. See draft treatment notes.																																																														
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89	4130 - Aspen	Poletimber Well	163.3	33	51-80	N/A	Aspen pole stand. Some areas have increased diameter from average, especially in the far west portion. Dense, well established, sugar maple saplings dominate the understory across a majority of the area. Small patch of cedar in the north may be excluded from future management. Small patchy areas interior are growing in with saplings and conifer.																																														
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92	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	36.2	55	1-50	N/A	Flooded drainage way with black ash and thick alder in areas.																																														
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94	4112 - Maple, Beech, Cherry Association	Sawtimber Well	5.2	75	81-110	N/A	EB, 2022 - Sparser red maple with open canopy gaps across much of stand. Patches of denser fir and scattered conifer within. White pine saplings increase in number to west. White pine sawtimber -sized trees found. White spruce in canopy. Some red pine saplings present.																																														
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95	6233 - Wet Meadow	Nonstocked	16.7			No	Flooded marsh.																																														
96	4130 - Aspen	Sapling Well	10.9	6	Immature	N/A	Aspen sapling stand. Some areas of saturated, soft ground within.																																														
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97	4130 - Aspen	Sawtimber Well	19.5	58	81-110	N/A	EB, 2022 - South bubble transitions to more fir with aspen and hardwoods speckled in. Pocket of hardwood along the east edge will be thinned with surrounding aspen clear-cut. Hardwood is poorer quality but has excellent maple sapling regen along the entire west edge of the pocket 20'+ tall.																																																
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Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub																																																				
Balsam Fir	Low	5 - 10 feet	Sapling																																																				
Ironwood	Medium	10 - 20 feet	Sapling																																																				
98	6120 - Lowland Cedar	Poletimber Medium	33.1	100	1-50	N/A	Very sparsely stocked lowland conifer with alder. Cedar becomes more dominant along the south edge.																																																
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99	4130 - Aspen	Sapling Well	18.6	23	1-50	N/A	Aspen sapling stand with small hardwood patch in the east half.																																																
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100	4130 - Aspen	Poletimber Poor	12.5	36	1-50	N/A	Poor edge call from adjacent stands. Looks to be sparse aspen patches with scattered conifer. Probably closer to 25% stocking. Managing with adjacent stand in the future could improve stocking. Difficult to access from the north with grown in roads.																																																
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102	4130 - Aspen	Sapling Medium	6.4	15	51-80	N/A	Patchy hardwood and aspen saplings growing in openings.																																																
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104	4110 - Sugar Maple Association	Sawtimber Well	35.9	90	111-140	N/A	EB, 2023. Prepped and never cut. 2022 was re-marked with green for thinning and included in Corner River timber sale.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
105	4130 - Aspen	Sapling Well	12.7	24	Immature	N/A	Aspen sapling stand.																																																	
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108	4130 - Aspen	Poletimber Well	31.9	24	1-50	N/A	Dense aspen sapling stand transitioning to pole sized trees. Multiple low patches within may need to be excluded from future management if not merchantable.																																																	
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109	6121 - Tamarack	Poletimber Poor	35.6	75	1-50	N/A	Dense flooded alder with patches of stunted trees. Stand barely makes the 25% canopy cover.																																																	
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112	6220 - Alder/willow	Nonstocked	36.8			No	Flooded lowland area with streams and drainages.																																																	
117	6120 - Lowland Cedar	Sawtimber Well	13.6	150	81-110	N/A	Dense cedar with some sparser alder patches within.																																																	
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146	4130 - Aspen	Poletimber Well	26.4	36	51-80	N/A	Small pole sized aspen stand. Scattered conifer, especially along the edges.																																																	
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