



Compartment Review Presentation

Gladwin Forest Management Unit

Compartment 73068

Entry Year 2019

Acreage: 3,787

County Gladwin

Management Area: Gladwin Lake Plain

Revision Date: 2017-05-26

Stand Examiner: Steve Nyhoff

Legal Description:

T19N R02E Section 32-35

T18N R02E Section 2-11

Identified Planning Goals:

Vegetation management in the Gladwin Lake Plain management area (MA) (Figure 4.32.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Rifle River, a designated natural river; the Lame Duck Foot Access Area, a high conservation value area; several wildlife area floodings; threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age-class distributions for aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunities. Expected trends in this 10-year planning period will be the continued need to address illegal off-road vehicle use, trash dumping and increased recreational pressure.

Soil and topography:

The terrain is generally flat with very little relief except along the Molasses River, Fish Creek, and the marsh system along the east side of the compartment. Much of the central portion of the compartment is hummocky.

The soils are made up of well drained Rubicon, Grayling, and Croswell Associations (40%). There is also somewhat poorly drained AuGres Associations (35%) and poorly drained Roscommon, Evert-Winterfield, and Iosco Associations (25%). Most of the well-drained soils are along the northeast and northwest sides of the compartment. The central portion is a mix of somewhat poorly drained and poorly drained soils.

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

The compartment is a contiguous block of State Ownership with a few inholdings along the south side. The private lands are mainly recreational properties. However, there is a sub-division on the west side in T19N, R2E, section 32. This area has seasonal and permanent residences.

Unique Natural Features:

There are MNFI hits in the compartment. The Molasses River has records of the Ellipse mussel. Also to the southeast of the compartment there is a record of a Bald Eagle. There are no other records and no species were found during the inventory process.

Archeological, Historical, and Cultural Features:

There is a HAL hit in the south west end of the compartment.

Special Management Designations or Considerations:

There are no special designations in the compartment.

Watershed and Fisheries Considerations:

The compartment's west boundary is the Molasses River. Also, the headwaters of Fish Creek are in the central portion of the compartment. Both waterways are warm water fisheries.

Wildlife Habitat Considerations:

Wildlife Habitat Considerations: Compartment #68. This compartment includes many wetland and lowland type systems associated with the Molasses River drainage. These wetlands are components of a larger wetland complex that drains through the Molasses River Flooding #3. The majority of this compartment is lowland systems. This wetland complex is a unique habitat type and is being considered for a special designation. Non-wetland stands are comprised mainly of Oak, Jack Pine and mixed lowland conifer, making it suitable for a number of wildlife species. Waterfowl and shore birds can be found using the many wetland areas in this compartment. Furbearers including beaver, mink, muskrat, black bear, bobcat,

and coyote use the wetlands and lowlands as corridors and year-round habitat. Game species likely to be present in this compartment include wood duck, mallard, wild turkey, ruffed grouse, snowshoe hare, and white-tailed deer. The compartment is easily accessible to hunters M-61.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 200 feet. Beneath the Glacial Drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw formation is used for clay/shale in other areas of the State. This compartment's main mineral potential is for sand and gravel, but the potential for development is considered limited. This area has had little oil and gas activity. North Buckeye Fields is located to the west. The field, discovered in 1936. Has produced over 21 MBO from the Devonian Dundee formation. There are no current State oil and gas leases in the compartment.

Vehicle Access:

M-61 makes up the southern boundary of the compartment, Center Fireline as well as the ORV Trail and route are in the eastern and northern portions of the compartment. Wildwood road and a portion of the closed ORV route is in the western portion of the compartment. There are portions of the closed route which can be driven from the north and south. Therefore, the edges have good access but the central portion of the compartment has poor access.

Survey Needs:

No surveys are needed at the current time.

Recreational Facilities and Opportunities:

The Gladwin ORV trail runs in the eastern portion of the compartment, the Gladwin ORV Route in the north end. The MCCCT trail is also in the east side of the compartment. Lastly the Midland to Mackinac BS trail is in the west side of the compartment.

Besides the established trails the area is also used heavily by hunters.

Also, the Molasses River and Fish Creek run through the compartment which yield limited fishing opportunities. The area is also used by dispersed camping and hunting.

Fire Protection:

The area has some urban interface but it is limited to mainly hunting cabins. There are areas of thick jack pine scattered in the compartment. Overall, the access is fair except for the central portion of the compartment. Fire would be carried mainly by blueberry and grasses. The overall, fire occurrence is low for this area.

Additional Compartment Information:

The following reports from the Inventory are attached:

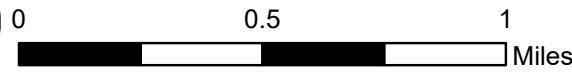
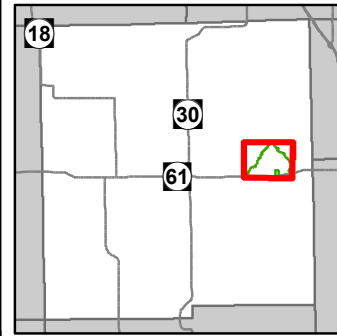
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

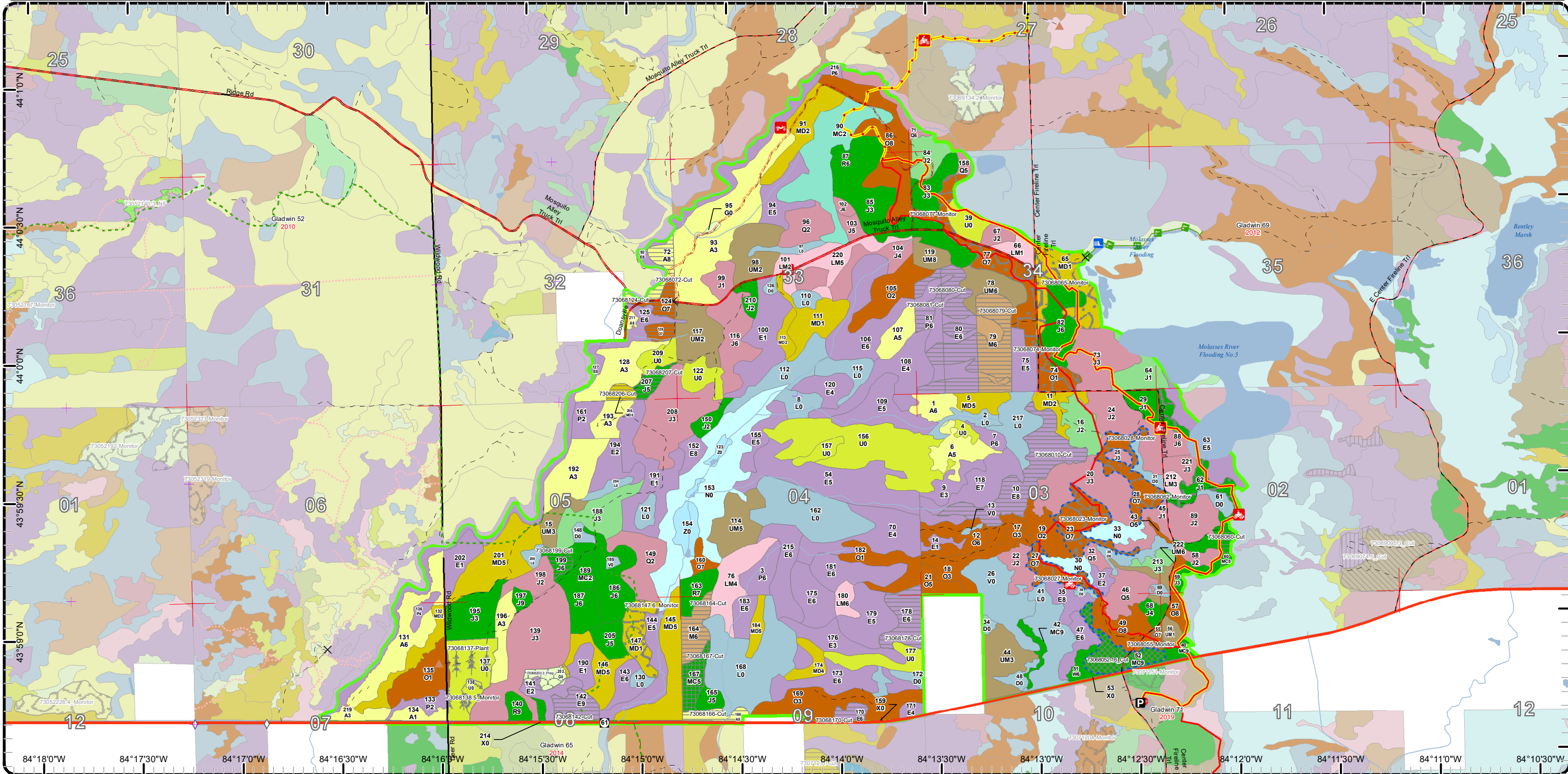
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 68
 T19N R 01E 12,13
 County: Gladwin
 Unit: Gladwin
 Mgmt Area: Gladwin Lake Plain
 YOE: 2019
 Acres: 3786.7 GIS Calculated
 Examiner: Steve Nyhoff
 Map Revised: 7/31/2017
 Map Phase: Post-Review

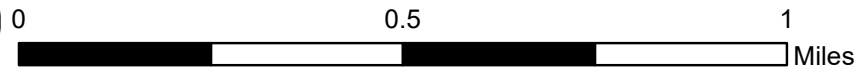
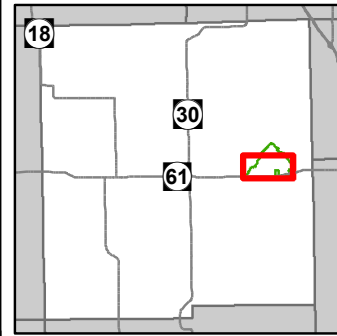


- Miris Corners
- + Remonumented Section Corners
- Counties
- X Gate
- B Berms
- D Dams
- P Parking Lot
- STOP Sign
- 🚲 MCCCT Trails
- 🚲 ORV Trails
- 🚲 ORV Routes
- 🚶 Designated Hunter Walking Trails
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- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Site Prep
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Planting (tree species)
- Regeneration Survey
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

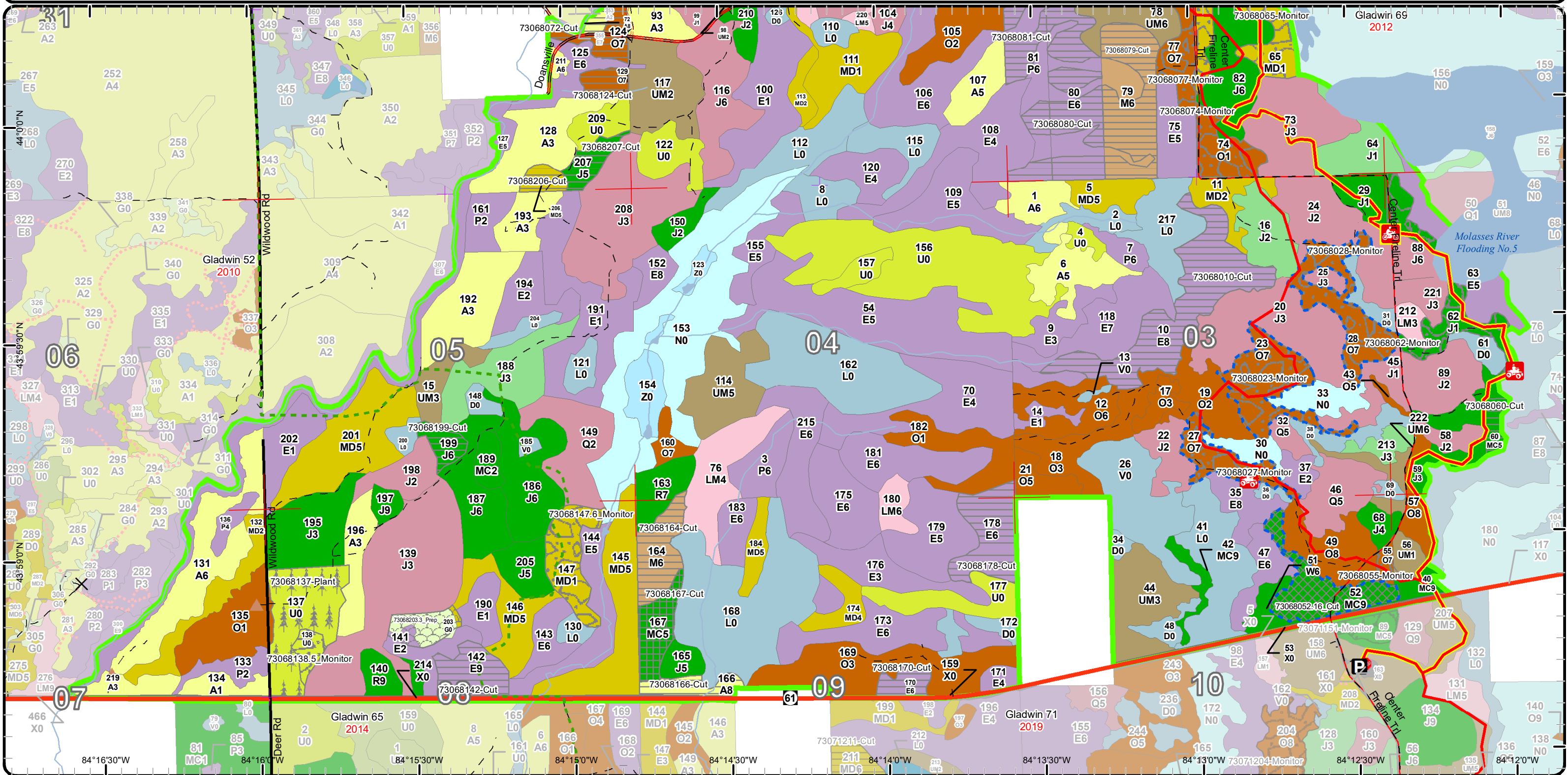


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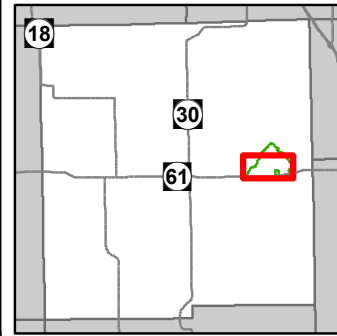
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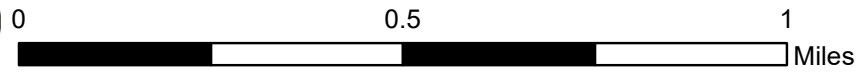
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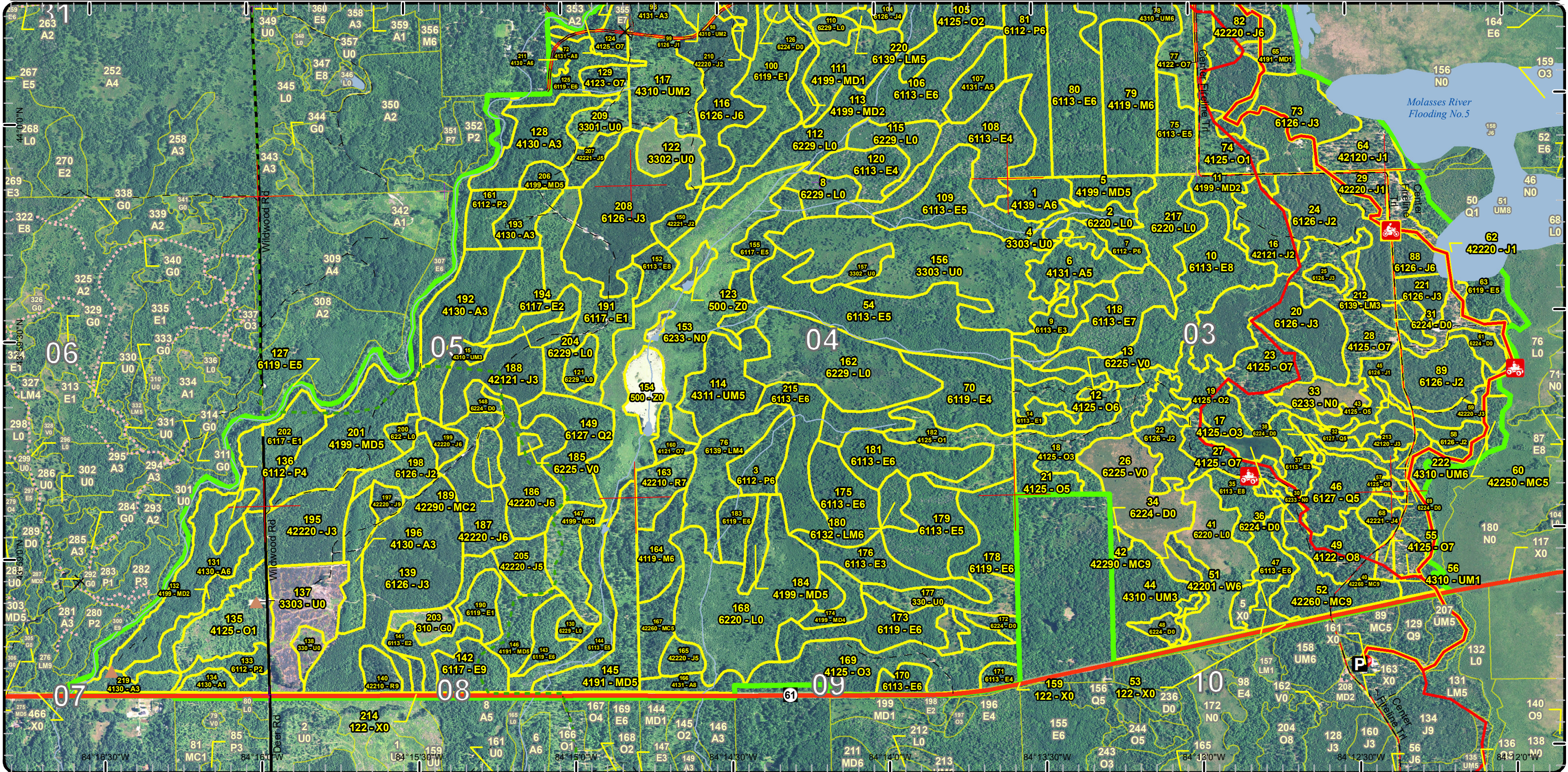
Stand Boundary Map



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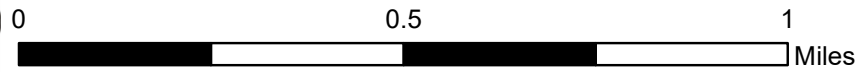
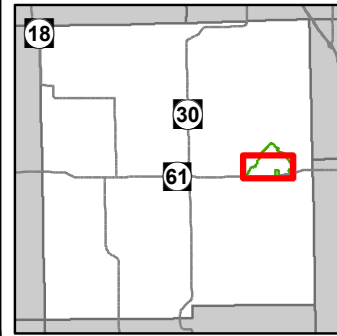


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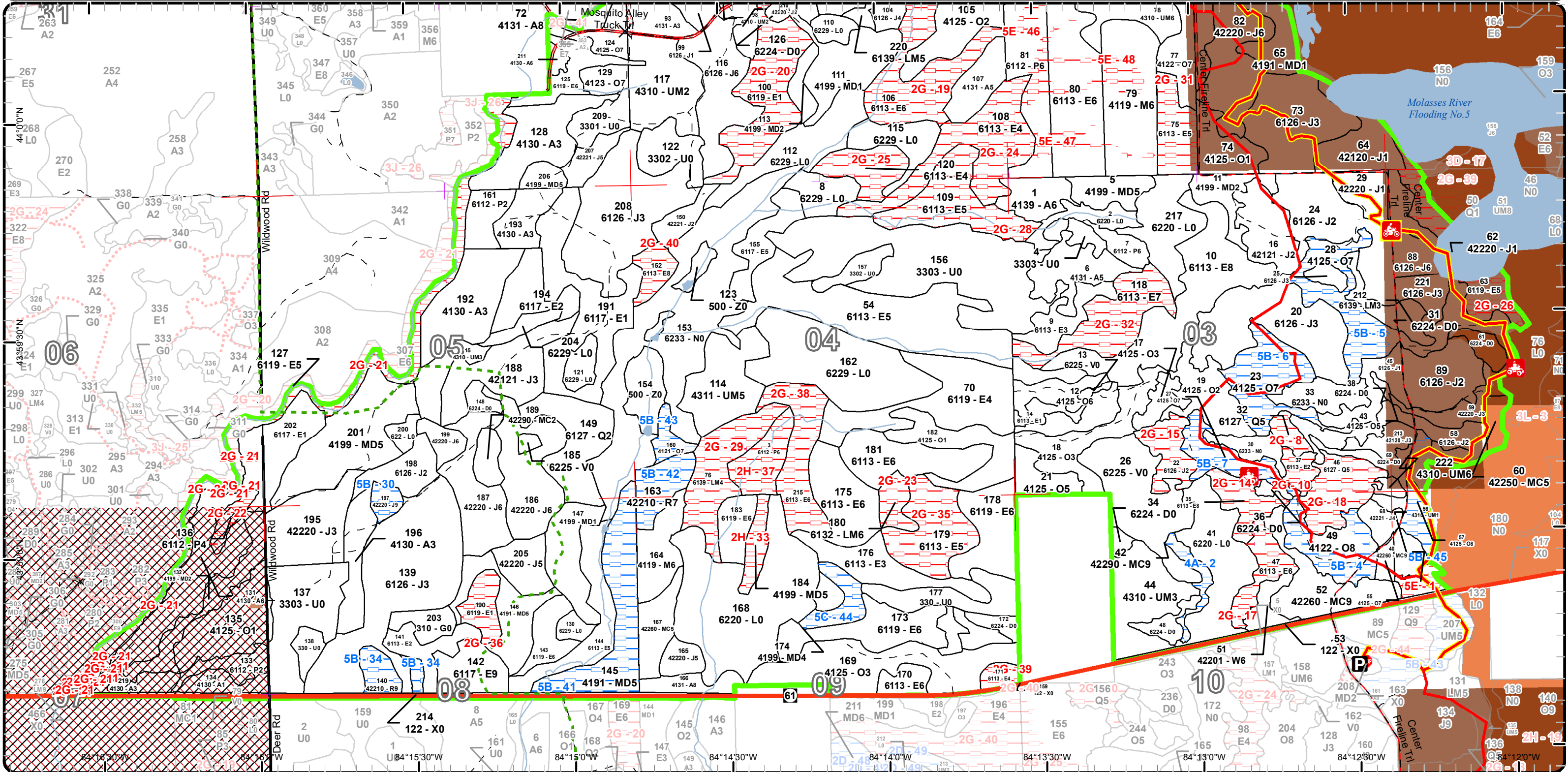


Special Conservation Areas & Site Conditions Map

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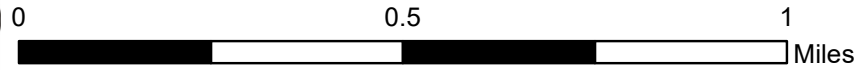


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- Available w/ Constraints
- - - Unavailable
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Wildlife Management Areas
- Other Habitat Area

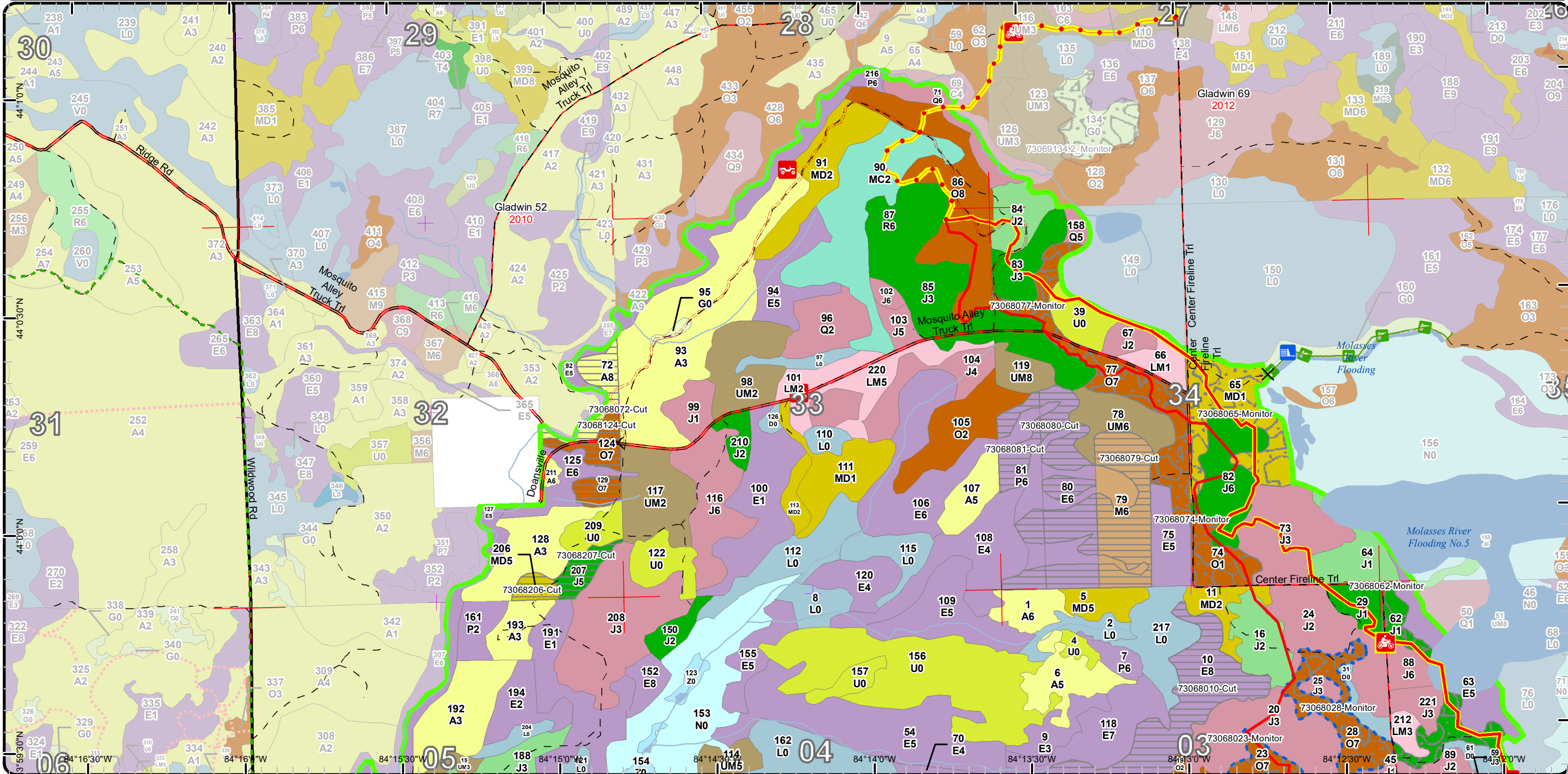


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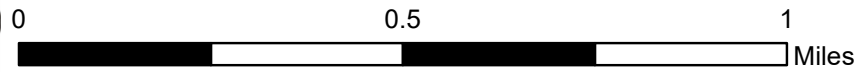
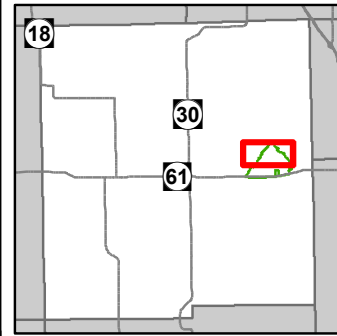


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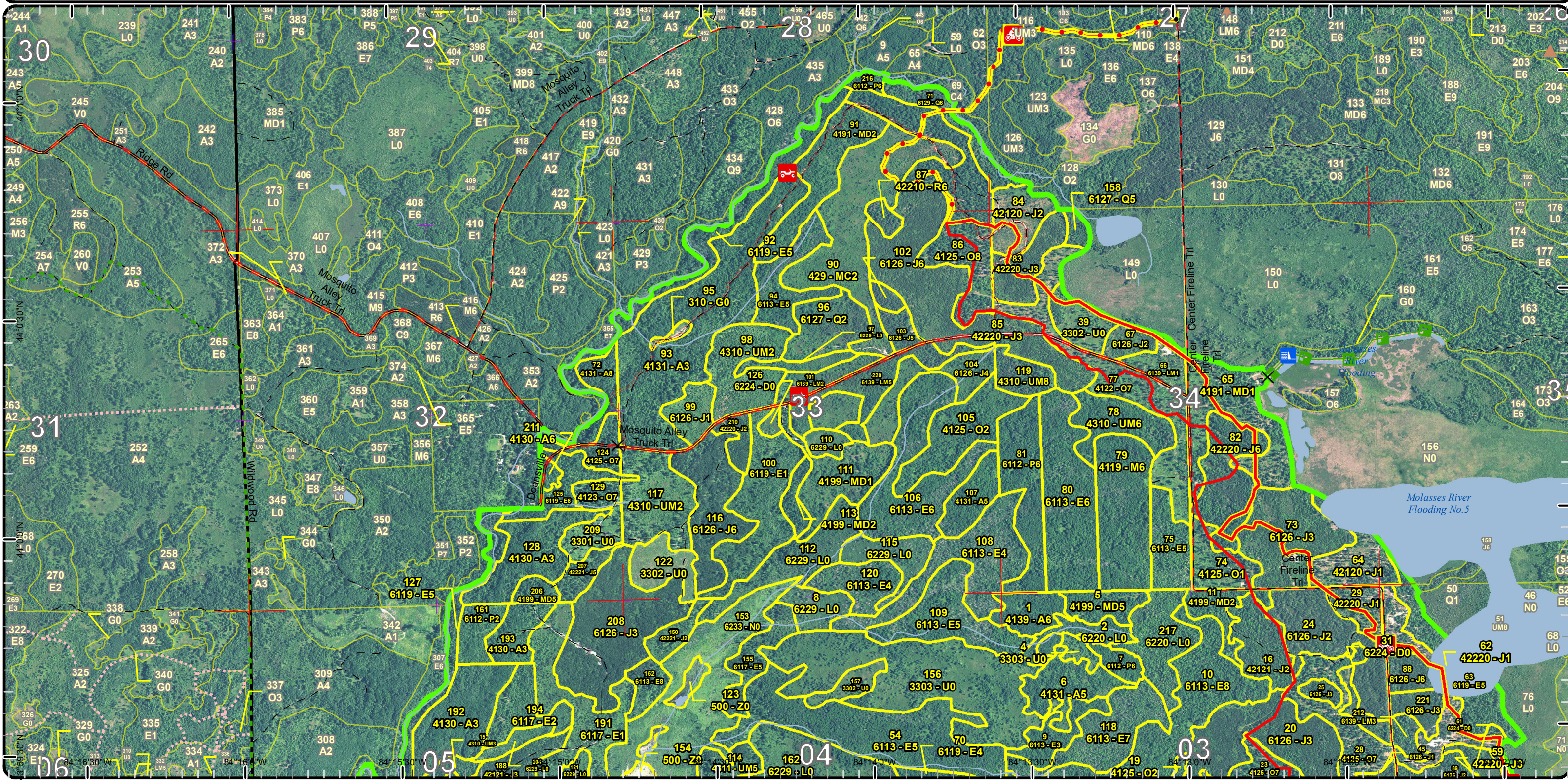


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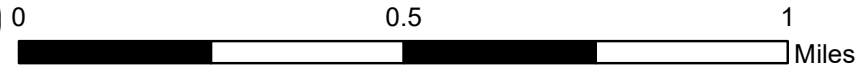


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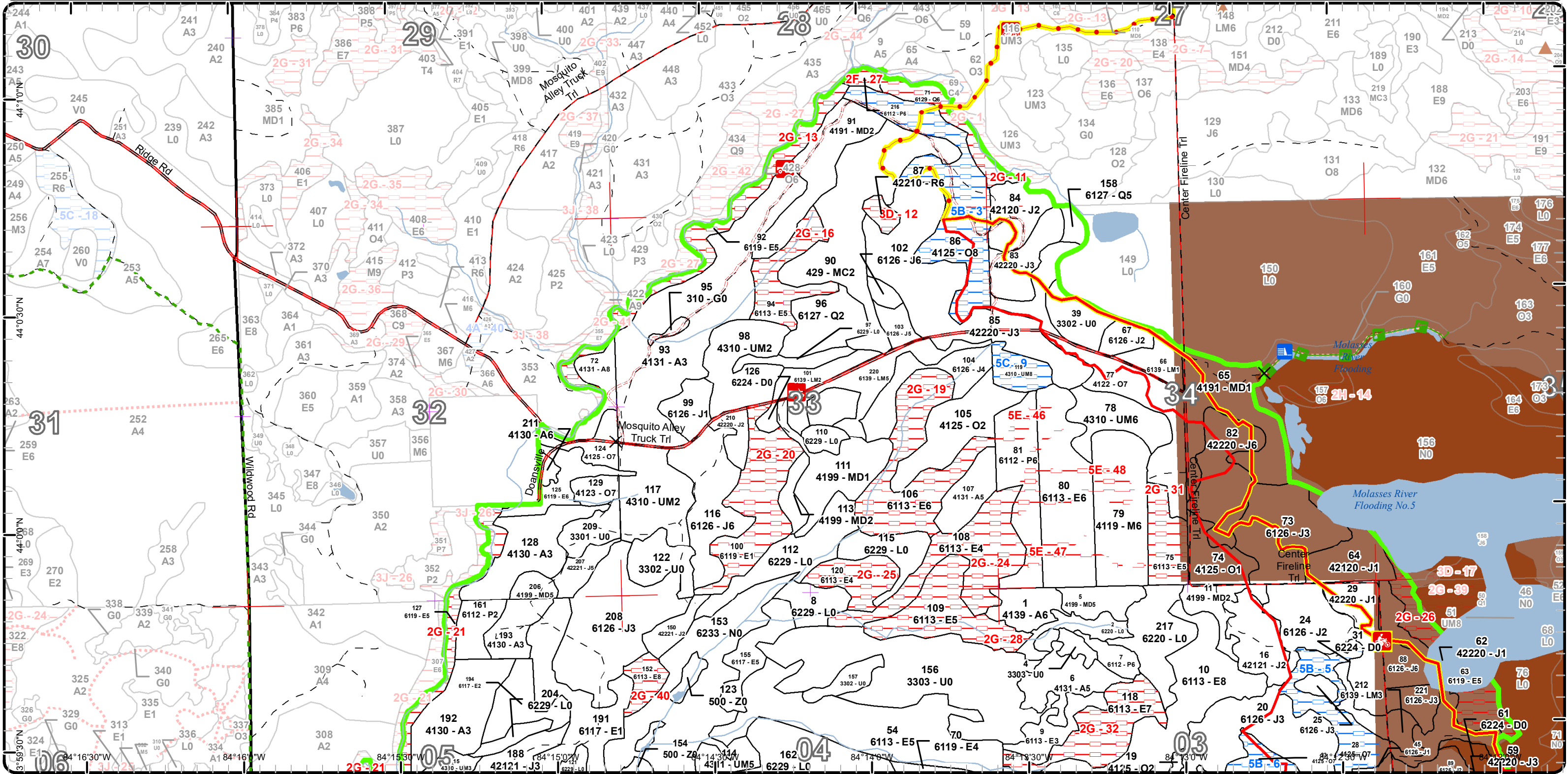


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- Available w/ Constraints
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- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3D: Recreational / Scenic values
- 5E: Long-Term Retention
- Stand Boundaries
- Wildlife Management Areas
- Other Habitat Area
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality



Report 1 – Total Acres by Cover Type and Age Class

Gladwin Mgt. Unit

Compartment 68

Year of Entry 2019

Steve Nyhoff : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	7	35	132	81	0	0	0	7	11	0	0	0	0	0	0	0	0	273
Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	53	159	323	168	27	7	0	0	10	0	0	0	0	0	0	0	0	746
Low-Density Trees	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
Lowland Aspen/Balsam Poplar	0	0	0	17	14	41	0	0	0	0	0	0	0	0	0	0	0	0	71
Lowland Conifers	0	0	0	25	23	19	0	0	0	3	0	0	0	12	0	0	0	0	82
Lowland Deciduous	0	0	59	64	30	191	48	0	36	185	0	11	0	0	0	0	0	262	885
Lowland Mixed Forest	0	9	0	5	29	26	0	0	0	7	0	0	0	0	0	0	0	0	76
Lowland Shrub	253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	253
Marsh	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102
Mixed Upland Deciduous	0	36	25	29	112	0	0	0	0	49	0	0	0	0	0	0	0	5	255
Natural Mixed Pines	0	0	6	0	0	12	0	0	5	5	0	27	0	0	0	0	0	0	55
Northern Hardwood	0	0	0	0	0	52	0	0	0	0	0	0	0	0	0	0	0	0	52
Oak	0	58	40	29	70	0	0	0	0	110	85	3	0	0	0	0	0	6	400
Red Pine	0	0	0	0	0	0	0	0	0	21	0	0	4	0	0	0	0	0	25
Treed Bog	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Upland Conifers	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Upland Mixed Forest	0	5	53	37	7	26	18	0	0	9	0	0	0	0	0	0	0	0	155
Urban	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
White Pine	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	656	168	430	661	534	400	73	0	48	410	85	41	4	12	0	0	0	273	3790



Report 2 – Treatment Summary

Gladwin Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 68

Total Compartment Acres: 3,787

Commercial Harvest - 248
 Harvests with Site Condition - 21
 Next Step Harvest - 133
 Habitat Cut - 133

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	18	0	0	0	0	0	0	0	0	18
Jack Pine	13	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	17	0	0	0	0	0	0	0	0	17
Lowland Deciduous	121	0	0	0	0	0	0	0	0	121
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Natural Mixed Pines	5	21	0	12	0	0	0	0	0	38
Northern Hardwood	45	0	0	0	0	0	0	0	0	45
Oak	14	0	0	0	0	0	0	0	0	14
Total	236	21	0	12	0	0	0	0	0	269

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	269	9	30	0	0	224	0	0	0	532
Next Step	133	204	162	21	0	7	733	0	0	1259
Total	401	213	192	21	0	7	957	0	0	1791



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10	73068010-Cut	48.8	6113 - Lowland Maple	Sawtimber Medium	86	51-80	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Harvest the stand as a clearcut with retention. The retention should be marked in patches and concentrated around the areas that are too wet to harvest.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable mix of lowland hardwoods.
Regen:

Other The stands BA is too low to support a selection harvest without having wind throw problems. Also, because of the low wet ground the treated acres will be significantly less than the inventory acres.
Comment:

Proposed Start Date: 10/01/2018

23	73068023-Monitor	25.6	4125 - Black, N. Pin Oak	Sawtimber Poor	93	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition: Shelterwood/Seed Source

Prescription Check the stand in 2023 POW. If the regeneration is established and the overstory is commercially viable for harvest, then move the stand to the appropriate next step treatment.
Specs:

Next Step Harvest, Clearcut with Retention; Harvest, Clearcut with Retention; SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Oak mixed with aspen and pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2022

27	73068027-Monitor	13.4	4125 - Black, N. Pin Oak	Sawtimber Poor	99	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition: Shelterwood/Seed Source

Prescription Check the stand in 2023 to see if the oak regeneration is established. Currently, the regeneration is less than 4' tall and heavily browsed.
Specs:

Next Step Harvest, Clearcut
Treatments:

Acceptable oak mixed with red, white, and jack pine.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2022

28	73068028-Monitor	24.1	4125 - Black, N. Pin Oak	Sawtimber Poor	94	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition: Shelterwood/Seed Source

Prescription Check the stand in 2023 POW. If the regeneration is established and the overstory is commercially viable for harvest, then move the stand to the appropriate next step treatment.
Specs:

Next Step Harvest, Clearcut with Retention; Harvest, Clearcut with Retention; SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable Oak mainly mixed with pine, aspen and maple
Regen:

Other
Comment:

Proposed Start Date: 10/01/2022



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	Approval Status
29	73068029-Monitor	9.9	42220 - Natural Jack Pine	Sapling Poor	9	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Check the stand in 2023 POW. If the regeneration is established and the overstory is commercially viable for harvest, then move the stand to the appropriate next step treatment.
Specs:

Next Step Harvest, Clearcut with Retention; Harvest, Clearcut with Retention; SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr);
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable mainly oak mixed with some pine, maple and aspen.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2022

52	73068052.16_Cut	20.6	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	102	81-110	Harvest	Single Tree Selection	42260 - Natural Pine, Mixed Deciduous	Uneven-Aged	Field Boundary
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Habitat Cut: No **Site Condition:** Shelterwood/Seed Source

Prescription Single tree selection: In clumps of large red and white pine, individual tree mark red and white pine (heavy to red) with orange paint to reduce red pine BA in pine clumps to 50 (overall red pine BA in stand is 32; residual will be 20). Do not cut any other species (trace of black spruce, paper birch, jack pine, tamarack and white oak). These species and residual pine will serve as retention.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other MO is mixed, uneven aged stand with current spp, moving toward being heavier to white pine. Scattered vernal ponds. Old overstory with about 60
Comment: BA red and white pine, with heavy white pine sap/seed understorey. Stand very slightly hummocky and wet in places. LOW windthrow concern, but it is a concern.

Proposed Start Date: 10/01/2012

55	73068055-Monitor	2.3	4125 - Black, N. Pin Oak	Sawtimber Poor	100	51-80	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription
Specs:

Next Step
Treatments:

Acceptable A oak and mixed pine will be acceptable.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 10/02/2017

60	73068060-Cut	4.6	42250 - Pine, Oak	Poletimber Medium	79	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Harvest the stand as a clearcut with retention. The retention should be individually marked trees, favor the oversized oak and pine and trees having
Specs: cavities for wildlife.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable mixture of pine, oak, aspen and maple
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
62	73068062-Monitor	23.0	42220 - Natural Jack Pine	Sapling Poor	18	1-50	Monitoring	Natural Regen (Re-Inventory)	4125 - Black, N. Pin Oak	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Monitor oak for natural regeneration.											
<u>Specs:</u>											
<u>Next Step</u> ; Planting, Interplant											
<u>Treatments:</u>											
<u>Acceptable</u> Oak Mixed with jack pine											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 07/24/2017											
65	73068065-Monitor	35.5	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	6	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Check the stand in 2020 to see if the regeneration is established and is of a moderate or better stocking level. If the stand is poorly stocked in 2020											
<u>Specs:</u> move the treatment to the next step.											
<u>Next Step</u> SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> mainly oak with some pine, maple and aspen											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2019											
72	73068072-Cut	10.7	4131 - Aspen, Oak	Sawtimber Medium	88	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be individually marked larger oak, pine, and cavity trees for wildlife. The ORV											
<u>Specs:</u> Route goes through the stand so when setting up the sale include the appropriate trail spec in the sale.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mainly aspen mix with some pine, oak and maple											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
74	73068074-Monitor	13.5	4125 - Black, N. Pin Oak	Sapling Poor	6	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Check the stand in 2020 to see if the regeneration is established and is of a moderate or better stocking level. If the stand is poorly stocked in 2020											
<u>Specs:</u> move the treatment to the next step.											
<u>Next Step</u> SitePrep, Trenching; Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Oak mainly mixed with pine, maple and aspen											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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	Approval Status
77	73068077-Monitor	38.2	4122 - Oak, Pine	Sawtimber Poor	81	1-50	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Two-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Check the stand in 2020 to see if the regeneration is established and is of a moderate or better stocking level. If the stand is poorly stocked in 2020
Specs: move the treatment to the next step.

Next Step SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)
Treatments:

Acceptable oak mixed with pine, maple, and aspen
Regen:

Other
Comment:

Proposed Start Date: 10/01/2019

79	73068079-Cut	29.7	4119 - Mixed Northern Hardwoods	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a clearcut with retention. There are portions of the stand that are too wet to harvest that should be painted out. These areas will
Specs: act as retention. Harvesting some of the prescribed acreage will require the used of crane mats and/or corduroy to minimize rutting problems.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable mixture of aspen, maple, oak and pine
Regen:

Other Because of the areas that are too wet to harvest the harvest acres may be significantly less than inventory acres.
Comment:

Proposed Start Date: 10/01/2018

80	73068080-Cut	31.0	6113 - Lowland Maple	Poletimber Well	53	1-50	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a clearcut with retention. There are portions of the stand that are too wet to harvest that should be painted out. These areas will
Specs: act as retention. Harvesting some of the prescribed acreage will require the used of crane mats and/or corduroy to minimize rutting problems.

Next Step ; Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable red maple mixed with oak, pine, cedar, and aspen
Regen:

Other Because of the areas that are too wet to harvest the harvest acres may be significantly less than inventory acres.
Comment:

Proposed Start Date: 10/01/2018

81	73068081-Cut	16.7	6112 - Lowland Aspen	Poletimber Well	43	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a clearcut with retention. There are portions of the stand that are too wet to harvest that should be painted out. These areas will
Specs: act as retention. Harvesting some of the prescribed acreage will require the used of crane mats and/or corduroy to minimize rutting problems.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen mixed with maple and oak
Regen:

Other Because of the areas that are too wet to harvest the harvest acres may be significantly less than inventory acres.
Comment:

Proposed Start Date: 10/01/2018



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	Approval Status
124	73068124-Cut	13.8	4125 - Black, N. Pin Oak	Sawtimber Poor	81	1-50	Harvest	Clearcut with Retention	412 - Oak Types	Two-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest the stand as a clearcut with retention. The retention should be individually marked trees in groups or singularly. They should not exceed 2											
<u>Specs:</u> trees/acre on average. Favor the retention of white oak and conifers. The ORV Route goes through the stand so when setting up the sale include the appropriate trail spec in the sale.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial											
<u>Treatments:</u> Regen(3yr)											
<u>Acceptable</u> Oak mixed with some aspen, conifer, and maple.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
137	73068137- Plant	30.0	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Hand plant red pine.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
138	73068138.5_M onitor	4.7	330 - Low-Density Trees	Nonstocked		Unspec ified	Monitoring	Natural Regen (Intermediate)	4138 - Aspen (OI)	Even-Aged	Completed - Pending Edits
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Check regeneration at TCR plus 4 years.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Medium to fully stocked stand is acceptable.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 09/12/2018											
142	73068142-Cut	13.8	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Harvest the stand as a clear cut with retention. Retain some marked oaks and red pines. However, do not exceed 5% by BA. The marked trees											
<u>Specs:</u> should be far enough back so they will not fall into M-61. There are some very wet areas in the stand that may need to be painted out. The Midland to Mackinac hiking trail goes through the stand so include the appropriate cutting spec. to protect the trail and marker.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> mainly red maple mixed with some oak, birch, and pine.											
<u>Regen:</u>											
<u>Other</u> There are areas in the stand that are too wet to harvest. Because of this the harvest acres will be significantly less than the inventory acres.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
147	73068147.6_Monitor	17.9	4199 - Other Mixed Upland Deciduous	Sapling Poor	20	Immature	Monitoring	Natural Regen (Intermediate)	4131 - Aspen, Oak	Even-Aged	Completed - Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Check regeneration in the stand at TCR plus 4 years.

Specs:

Next Step
Treatments:

Acceptable Medium stocked stand is acceptable. The harvest was a 4" clear cut with retention. It is already regenerating.

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 09/12/2018

164	73068164-Cut	15.2	4119 - Mixed Northern Hardwoods	Poletimber Well	40	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a clearcut with retention. The retention should be kept in patches protecting the sensitive ground and wetter areas.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of maple and pines.

Regen:

Other There are areas in the stand that are too wet to harvest. These areas will need to be painted out. Therefore, the treatment acres will be significantly less than the inventory acres.

Comment:

Proposed Start Date: 10/01/2018

166	73068166-Cut	7.2	4131 - Aspen, Oak	Sawtimber Medium	78	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a clear cut with retention. The retention should be marked oaks and red pines. These trees should be far enough back from M-61 so they do not fall into the highway. In addition, the retained BA should not exceed 5% of the total BA.

Specs:

Next Step Planting, Initial Plant; Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching

Treatments:

Acceptable Aspen mixed with maple, oak, and pines

Regen:

Other The aspen in the stand is overmature. Therefore, the harvest will need to be done during the dormancy period to maximize regeneration. If the stand does not regenerate, seed or interplant with pines.

Comment:

Proposed Start Date: 10/01/2018

167	73068167-Cut	12.3	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	40	1-50	Harvest	Seed Tree	4221 - Natural Red Pine	Two-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Harvest the stand as a seed tree harvest. Cut all the aspen and jack pine and retain 10-20 BA of red pines and swamp hardwoods that are wind firm. These should be kept in patches. In addition, all the branch material should be left on site to increase the seed source to regenerate the stand. If the stand does not regenerate to a moderate or better stocking. Then interplant the stand with pine.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine mixed with oak, aspen, and maple

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



Stand Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
170 73068170-Cut	5.8	6113 - Lowland Maple	Poletimber Well	85	51-80	Harvest	Clearcut with Retention	6113 - Lowland Maple	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:								
<u>Prescription</u>		The harvest should be done as a clearcut with retention instead of a selection harvest. The retentions should be marked hardwoods and conifers that are wind firm and will not fall into M-61. The harvest will also have to be done during dry or frozen conditions.								
<u>Specs:</u>										
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>										
<u>Acceptable Regen:</u>		red maple mixed with oak and pine								
<u>Other Comment:</u>										
<u>Proposed Start Date:</u>		10/01/2018								
177 73068177-Monitor	16.3	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Natural Regen (Intermediate)	412 - Oak Types	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:								
<u>Prescription</u>		Check the natural regeneration in 2020. If the regeneration is not adequate interplant with red pine.								
<u>Specs:</u>										
<u>Next Step</u>		SitePrep, Trenching; Monitoring, Artificial Regen(1yr); Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>										
<u>Acceptable Regen:</u>		medium stocking of oak mixed with some pine and maple								
<u>Other Comment:</u>										
<u>Proposed Start Date:</u>		10/01/2019								
178 73068178-Cut	21.1	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6113 - Lowland Maple	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:								
<u>Prescription</u>		Harvest the stand as a clearcut with retention. The retention should be in patches and be closer to 10% of the area. The patches can be placed around areas of thick advanced regeneration or wetter areas to minimize soil damage. The stand will need to be harvested during dry or frozen conditions and rutting could be a problem.								
<u>Specs:</u>										
<u>Next Step</u>		Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed								
<u>Treatments:</u>										
<u>Acceptable Regen:</u>		Maple mixed with oak, birch, pine, and ash.								
<u>Other Comment:</u>		If the stand does not regenerate, then seed the stand with jack pine during winter.								
<u>Proposed Start Date:</u>		10/01/2018								
199 73068199-Cut	5.8	42220 - Natural Jack Pine	Poletimber Well	86	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:								
<u>Prescription</u>		Harvest the stand as a clear cut with retention. The retention should be red pines and some marked jack pines not to exceed 5% of the total BA.								
<u>Specs:</u>										
<u>Next Step</u>		Monitoring, Natural Regen (Re-Inventory)								
<u>Treatments:</u>										
<u>Acceptable Regen:</u>		Mixture of jack pine, red pine with some oak and aspen								
<u>Other Comment:</u>										
<u>Proposed Start Date:</u>		10/01/2018								



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
146	73068203.3_P rep	9.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	33	1-50	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription C73-870

Specs:Next Step ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Treatments:Acceptable Planted red pine fully stocked is acceptable regeneration.Regen:Other Percent to Treat = 100%Comment:

Proposed Start Date: 02/02/2015

206	73068206-Cut	4.6	4199 - Other Mixed Upland Deciduous	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Harvest the stand as a clearcut with retention. The retention should be individually marked trees in groups or singularly. They should not exceed 2 trees/acre on average. Favor the retention of white oak and conifers.Specs:Next Step Monitoring, Natural Regen (Re-Inventry)Treatments:Acceptable a mix of upland deciduous tree heavy to oak and maple with some conifers.Regen:Other There are several low wet areas in the stand, so restrict the harvest to dry or frozen conditions.Comment:

Proposed Start Date: 10/01/2018

207	73068207-Cut	7.0	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	55	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Harvest the stand as a clearcut with retention. The retention should be in patches and not exceed 5% of the area. In addition, the branch material should be left to supply seed for regeneration. The stand is wet so it must be harvested during dry or frozen conditions.Specs:Next Step Monitoring, Natural Regen (Re-Inventry)Treatments:Acceptable jack pine mixed with other conifer and oakRegen:OtherComment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 532.1**

Report 4 – Site Conditions

Gladwin Mgt. Unit
Steve Nyhoff : Examiner

Compartment: 68
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
273	273	0	0

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions								
						4A	5B	5C	2F	2G	2H	3D	5E	
273	273	0	0	0	Aspen					0				
38	38	0	0	0	Bog									
9	9	0	0	0	Herbaceous Openland									
747	730	4	12	12	Jack Pine		4			12				
172	172	0	0	0	Low-Density Trees									
72	40	0	31	31	Lowland Aspen/Balsam Poplar				3	5	13		10	
81	47	0	35	35	Lowland Conifers					35				
884	478	0	407	407	Lowland Deciduous					397			10	
75	42	0	32	32	Lowland Mixed Forest					32				
253	253	0	0	0	Lowland Shrub									
101	101	0	0	0	Marsh									
255	206	42	7	7	Mixed Upland Deciduous		33	9			7			
55	45	5	5	5	Natural Mixed Pines	5								5
52	45	0	7	7	Northern Hardwood									7
398	253	144	0	0	Oak		144			0				
24	0	21	4	4	Red Pine		21					4		
43	43	0	0	0	Treed Bog									
53	53	0	0	0	Upland Conifers									
156	146	9	0	0	Upland Mixed Forest			9						
22	22	0	0	0	Urban									
17	17	0	0	0	Water									
6	6	0	0	0	White Pine									
3,786	3,022	225	539	539	Total Forested Acres	5	202	18	3	481	20	4	32	
	80%	6%	14%	14%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: maintain factor limit until regeneration is checked in 2023.							
7	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational / Scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							

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14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	2F: Too steep	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2F: Too steep	3	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Available	5B: Maintain for regeneration purposes	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5B: Maintain for regeneration purposes	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Available	5B: Maintain for regeneration purposes	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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46	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	5E: Long-Term Retention	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Mgt. Unit

Compartment:

Year of Entry



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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.1	30	81-110	The northeastern portion of the stand is heavy to oak. It has inclusions of low wet ground. The ash that was in the stand is dead and coming down. The stand is in two parts that are separated by a broad base drain. The stand has an extensive white pine stump field.
3	6112 - Lowland Aspen	Poletimber Well	13.3	41	81-110	The stand is mainly lowland with some upland knobs. There are pockets of aspen clones in a matrix of swamp hardwoods. There is a surface drainage that flows through the stand but it has no defined bed or bank. It is part of the head waters of Fish Creek.
5	4199 - Other Mixed Upland Deciduous	Poletimber Medium	10.2	30	1-50	The stand is hummocky to undulating. It looks like when it was harvested the oak less than 4" DBH were retained. The east side of the stand has a lower crown closure than the west side. There are clones of aspen mixed with the oak.
6	4131 - Aspen, Oak	Poletimber Medium	17.5	30	1-50	The stand is undulating. Therefore, the stand is a mix of upland ridges and knobs with lowland swales and depressions. There are scattered clones of dense aspen. The overstory is a mix of about 50% aspen and 50% oak. The ground cover is heavy to blueberry with areas of lowland shrubs. The aspen appears to have a low SI. Therefore, the aspen is short and has a poor form for its age.
7	6112 - Lowland Aspen	Poletimber Well	5.7	30	1-50	The stand is low and wet for the most part. The ash is dead and starting to come down.
9	6113 - Lowland Maple	Sapling Well	15.9	30	1-50	The stand has a supercanopy of red maple that makes up 5-10% of the canopy. It has a dry ridge along the west side which is heavy to oak and jack pine. The rest of the stand is wet. The ash that was present is dead and starting to come down.
10	6113 - Lowland Maple	Sawtimber Medium	48.8	86	51-80	The stand is treatable. There are inclusions that are too wet to harvest. These areas will need to be painted out.
11	4199 - Other Mixed Upland Deciduous	Sapling Medium	10.5	28	1-50	The terrain is hummocky it is slightly higher than stand 16. It still has some areas that are wetter, especially in the south end and along stand 10.
12	4125 - Black, N. Pin Oak	Poletimber Well	18.7	33	1-50	The stand has some residual sawlog oak. The density of the sawlogs is around 10 BA. The crown closure of the whole stand is around 75%. The stand was harvested in 1983
14	6113 - Lowland Maple	Sapling Poor	3.9	33	1-50	The stand is low and wet. The terrain is very hummocky. The crown closure is only a little higher than 25%. The trees are small for their age so it appears that the site index is low. The stand was harvested in 1983.
15	4310 - Pine, Oak Mix	Sapling Well	10.4	23	Immature	The stand is a mixture of jack pine, aspen and some red pine and oak. There are numerous depressions scattered throughout the stand. The depressions are moderately stocked with jack pine with a ground cover of blueberry and leather leaf. The uplands are well stocked jack pine with a ground cover of bracken fern and blueberry. The stand was harvested in 1993. The terrain is hummocky. The white pine is heavily weevilled.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	17.3	28	1-50	The stand is seasonally wet. The terrain is hummocky. The jack pine is heavily galled.
17	4125 - Black, N. Pin Oak	Sapling Well	6.2	21	1-50	The stand is on a ridge. The crown closure is close to 100%. The aspen is in the eastern portion of the stand.
18	4125 - Black, N. Pin Oak	Sapling Well	21.1	22	Immature	The stand is on a ridge. The density is variable going from well stocked to poorly stocked. The crown closure is around 75%. It is lower at the west end then at the east end. The stand was harvested in 1994.
19	4125 - Black, N. Pin Oak	Sapling Medium	17.4	31	1-50	There are scattered low pockets in the stand. There is a lot of young oak and pine in it.
20	6126 - Lowland Jack Pine	Sapling Well	42.0	21	1-50	The stand was harvested in 1993 in Center-61 Jack Pine. The stand is mainly jack pine with some scattered oak and aspen. The ground cover is heavy to leather leaf. The crown closure is around 80% with some larger openings. The Gladwin ORV trail runs through the stand bisecting it. The jack pine is heavily galled.
21	4125 - Black, N. Pin Oak	Poletimber Medium	8.9	30	1-50	The terrain is slightly hummocky. There are a couple of leatherleaf depressions. Overall, the stand is just entering the pole size class.
22	6126 - Lowland Jack Pine	Sapling Medium	12.0	29	51-80	The jack pine and oak are just starting to move into the poles size class. The terrain is generally wet and hummocky. The site index looks to be low. The areas of highest density are on the drier ground. However, these areas are more like slightly upland islands surrounded by a wet leatherleaf bog.
23	4125 - Black, N. Pin Oak	Sawtimber Poor	25.6	93	1-50	The stand was shelterwood harvested in 2008. The regeneration is coming in. However, the oak is not over 4' in height. Therefore, it is not established. The overstory oaks are showing some decline. Factor limit: hold for regeneration. Check the stand in 2023 and if the oak regeneration is established harvest the overstory as a clearcut with retention retaining 2 trees per acre. ORV trail runs through the stand.
24	6126 - Lowland Jack Pine	Sapling Medium	31.7	28	1-50	The stand is heavy to jack pine with some oak and red maple. Overall, the stand has a 75% crown closure with pockets of bogs and treed bogs. The ground cover is heavy to leatherleaf, sheep laurel, and blueberry. The jack pine in the stand has a moderate level of gall rust.
25	6126 - Lowland Jack Pine	Sapling Well	3.3	21	1-50	The stand was planted in a slight depression. It is a mix of uplands and lowlands with the lowlands being around 60%. The jack pine has a heavy level of gall rust.
27	4125 - Black, N. Pin Oak	Sawtimber Poor	13.4	99	1-50	The ORV trail goes through the stand. It was shelterwood harvested in 2008. The regeneration is starting to come in. However, much of the oak regeneration is < 4' in height so, it is not considered established. Check the stand in 2023 and if the oak regeneration is established then harvest the overstory as a clearcut with retention retaining 2 trees per acre.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	4125 - Black, N. Pin Oak	Sawtimber Poor	24.1	94	1-50	The stand was shelterwood harvested in 2008. The regeneration is coming in at a moderate stocking level. The oak regeneration though heavy in places is not > 4' in height. So, it is not considered established. There is significant browse on the oak regeneration. The terrain is rolling. Check the stand in 2023 and if the oak regeneration is established harvest the overstory as a clearcut with retention retaining 2 trees per acre.
29	42220 - Natural Jack Pine	Sapling Poor	9.9	9	1-50	North East corner degraded by ORV and Vehicles that use the area for parking and disperse camping. The stand was seed tree harvested in 2007 retaining around 20 BA. The area outside of the degraded area is in the process of regenerating. The overall stocking of oak and jack pine is good. However, the oak regeneration is < 4' tall. So, it is not considered established. Check the stand in 2023 and if the oak regeneration is established harvest the overstory as a clearcut with retention retaining 2 trees per acre.
32	6127 - Lowland Pine	Poletimber Medium	4.6	31	1-50	The terrain is hummocky. The stand is wet overall. There are some upland areas especially along stand 30.
35	6113 - Lowland Maple	Sawtimber Medium	11.4	102	1-50	The stand has some supercanopy log sized trees. However, much of the stand is not very dense and it has sparse regeneration. The stand has some operable ground that is seasonally wet with cinnamon fern ground cover. Only a few of these operable areas are dense enough to harvest. This makes up around 30% of the stand. The south end is wetter with more swamp grass. However, overall the stand is too wet to harvest.
37	6113 - Lowland Maple	Sapling Medium	5.1	51	1-50	The stand is low and wet with a few upland areas. The terrain is wet and hummocky.
40	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	4.6	102	81-110	This was a portion of stand 52 that was left out of the treatment. It was left out because it was in compartment 69 before it was merged into compartment 68. The stand is generally flat with some hummocky ground. The ORV trail runs through the stand. Leave the stand untreated for now, for visual concerns. In addition, the stand makes a good retention area for stand 52.
42	42290 - Natural Mixed Pine	Sawtimber Well	5.2	86	111-140	The stand is an inaccessible ridge. It may be able to harvest it when stand 44 is ready. The pine on the ridge will hold. The stand also has a thick understory of white pine and maple in areas. When stand 44 is ready to harvest a large tube will be needed to cross M-61 ROW.
43	4125 - Black, N. Pin Oak	Poletimber Medium	1.6	29	Immature	This stand is a narrow ridge. The oak is more common near Center Fireline and jack pine is more common further west.
44	4310 - Pine, Oak Mix	Sapling Well	26.6	22	Immature	There are some residual logs that were left when it was harvested in 1994. The stand does have some lowland pockets that make up around 10% of the area.
45	6126 - Lowland Jack Pine	Sapling Poor	11.9	29	1-50	The stand is mainly jack pine over leatherleaf. The terrain is very hummocky.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6127 - Lowland Pine	Poletimber Medium	18.6	41	51-80	The terrain is hummocky. The hardwoods are more common in the north end and conifer are more common in the south end. The stand is about 20-30% uplands and a large part of the lowlands is seasonably wet. However, there are areas that are too wet to harvest.
47	6113 - Lowland Maple	Poletimber Well	11.5	42	1-50	The stand is too wet to harvest in general. The uplands make up 10-15%. These upland areas are heavy to aspen.
49	4122 - Oak, Pine	Sawtimber Medium	20.8	99	51-80	The stand had a heavy white pine understory that was released by the harvest in 2007. The residual oak in the stand is around 40 BA. There is also good oak regeneration in areas where the stand is more open. It is moving toward being a white pine/oak stand. The overstory should be kept to avoid damaging the white pine and to keep it shaded. This will help the white pine to self-prune better and to minimize weevil damage.
51	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	6.0	42	81-110	The stand's supercanopy of white pine makes up about 20% of the crown closure. Also, the stand does have some oversized red maple and oak. Much of the maple understory is stump sprout origin. The terrain is hummocky. The stand could be treated in the future during dry or frozen conditions. Wait until the understory gets to be of merchantable size before treating.
52	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	22.3	102	81-110	The stand is under contract; Bear Track Mix, sale number 73-018-13-01. The stand had a residual BA cruise of 41 sq. ft. The total harvest BA is 63 sq. ft. The harvest was also a 4" DBH spec harvest. The stand is slightly hummocky and it is wet in places. The windthrow concern is low.
54	6113 - Lowland Maple	Poletimber Medium	59.6	41	81-110	The stand has surface drainage through it. However, the drainage has no defined bed or bank. These drainages are part of the headwaters of Fish Creek. In the drainage, there is a lot of maple branches. The stand has a lot of wind throw in it, most of it is aspen but some maple and dead ash
55	4125 - Black, N. Pin Oak	Sawtimber Poor	3.1	100	51-80	The stand was harvested around 2013. There is a lot of slash. There is some regeneration of oaks and some pines.
56	4310 - Pine, Oak Mix	Sapling Poor	5.4	9	Immature	The planted jack pine has a moderate survival. It appears to have about 20% mortality. However, there is abundant natural jack pine and oak regeneration, especially in the northern 2/3 of the stand. Overall, this stand would be classified as a fully stocked stand of mainly jack pine and oak. The crown closure is around 25%. Survey on regeneration done. The result shows there are around 2600 stems/ac.
57	4125 - Black, N. Pin Oak	Sawtimber Medium	8.6	82	1-50	The stand was harvested as a shelterwood/seed tree harvest in 2008. The stand is starting to regenerate with jack, white, and red pines, as well as, some oak and maple. The oak is < 4' in height so it is not established.
58	6126 - Lowland Jack Pine	Sapling Medium	5.9	30	Immature	This stand is a treed bog. It was harvested in the past when it dried out. The dominate age was updated in 2015. The crown closure is variable. It goes from well stocked to poorly stocked. The terrain is very hummocky.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	42220 - Natural Jack Pine	Sapling Well	15.5	22	Immature	The dominate age was updated in 2015. The stand is an upland ridge. The ORV trail runs through it.
60	42250 - Pine, Oak	Poletimber Medium	4.6	79	81-110	The stand was private land that was acquired. The trees are overmature. The terrain is rolling.
62	42220 - Natural Jack Pine	Sapling Poor	23.0	18	1-50	The dominate age was updated in 2015. The stand was partially harvested in the summer of 2016. Currently, the sawlog oak have been removed, but the pulp wood is still on site and standing. The stand is a well-defined ridge, which slope steeply going to the east cutting off stand 63.
63	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	24.0	67	81-110	The dominate age was updated in 2015. The density is variable going from 10 to 100 BA. There are areas of sapling trees without an overstory, and there are areas of mature trees without an understory. There are also inclusions of leatherleaf and lowland shrub and areas of upland ridges and knobs. The north end of the stand is mostly upland ridges around lowland pockets. This upland area is blocked by a steep ridge that makes up stand 62.
64	42120 - Planted Jack Pine	Sapling Poor	18.8	3	1-50	The overstory oak is declining and it was harvested in 2010 as a seed tree harvest retaining approximately 20 BA. This stand has some illegal ORV trails and two-tracks in it causing parts of the stand to be degraded. There has been an attempt to curtail the illegal activity by trenching and planting jack pine through the illegal trails and two-tracks. This was done with FTP C73-886 in 2013. This has had some success but it is limited. There is some natural regeneration as well. Overall, the stand is regenerating as a mix of oak and natural and planted jack pine. This mixture is acceptable.
65	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	35.5	6	1-50	The stand was harvested in 2010. The retention is a mix of oak and pine and is between 10 and 40 BA. The retention was kept somewhat variable and averaged 15 BA. The stand is starting to regenerate. It is coming in naturally as a mixture of oak and pine. There are some areas where the regeneration is sparse and other areas that are dense. The terrain goes from hummocky flats to undulating ridges. The access to the Molasses River Flooding #5 dike is in the northeast corner of the stand.
66	6139 - Mixed Lowland Forest	Sapling Poor	8.7	7	1-50	The stand was harvested in 2010 retaining 20 BA of red pine sawlogs. The red pine sawlogs are too large for utility poles. The red pine was left for both a seed source and for visual. The stand is starting to regenerate naturally to a mixed stand of oak and pine. The current stocking level is moderate.
67	6126 - Lowland Jack Pine	Sapling Medium	6.5	18	Immature	The stand was harvested in 1999 as part of Molasses 5 Jack Pine, sale # 73-004-98-01. Currently the stand is a light J3 with some oak. The stand has some problems with weevils and galls.
68	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Poor	5.3	31	1-50	The stand is a mix of uplands and lowlands. The uplands make up the majority of the stand. The lowlands are in depressions that are heavy to leatherleaf.
70	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	37.5	22	1-50	The stand is variable. The oak is heavier in the eastern portion of the stand and maple is heavier in the western portion. There are inclusions of lowland shrubs. The terrain is hummocky.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.7	122	141-170	The stand was harvested in 1999 as part of Molasses 5 Jack Pine, sale # 73-004-98-01. Currently the stand is a light J3 with some oak. The stand has some problems with weevils and galls.
72	4131 - Aspen, Oak	Sawtimber Medium	10.7	88	51-80	The stand needs to be harvested as a clear cut with retention. The retentions should be marked Oak and den trees. There is a red line in place but it is fading.
73	6126 - Lowland Jack Pine	Sapling Well	34.1	17	Immature	The stand was harvested as part of the Molasses 5 Jack Pine, sale # 73-004-98-01. The stand is fully stocked and is a mix of jack pine and oak. Overall, the crown closure is a little over 75%. It is a mix of jack pine and oak. The regeneration is doing well with a low to moderate occurrence of galls. The terrain is hummocky. There are also a couple pockets of leatherleaf.
74	4125 - Black, N. Pin Oak	Sapling Poor	13.5	6	1-50	The stand was overmature and it was harvested in 2010 as a shelterwood-seed tree harvest retaining 20-30 BA. The retention was made up of marked oaks and pines. In addition, the oak that was < 4" DBH were also retained. This left the stand with a variable retention from both the advance regeneration and green marked oak and pine. The stand is starting to regenerate naturally as a patchy mix of oak/ pine. In this stand the ORV trail runs through it.
75	6113 - Lowland Maple	Poletimber Medium	15.2	79	51-80	This stand is low and wet and it is on Roscommon Soils. It is a mix of swamp hardwoods with pockets of white cedar scattered in it. The ground cover is heavy to sensitive fern, cinnamon fern, tag alder and Michigan holly. The dead ash is coming down leading to the stand having canopy gaps. These are filling in with maple and tag alder. There are areas of lowland shrubs with some overstory maple and dead ash.
76	6139 - Mixed Lowland Forest	Poletimber Poor	25.6	41	1-50	The stand is too wet to harvest. It is mainly a tag alder swamp with scattered trees. The trees are mainly quaking aspen and maple. The ash in the stand is dead and coming down.
77	4122 - Oak, Pine	Sawtimber Poor	38.2	81	1-50	The stand runs along Ridge Rd and Center Fireline. It is undulating and there are some frost pockets. The stand was harvested as a shelterwood-seed tree leaving some oak and pine in June of 2010. The residual BA is around 20. The stand is starting to regenerate naturally as a mix oak/pine stand. Currently, the stocking level is moderate. The ORV trail runs through much of the stand.
78	4310 - Pine, Oak Mix	Poletimber Well	18.1	53	81-110	The stand boundary is close to the soil type boundary. It has a high percentage of oak and jack pine with larger diameters. Also along the east edge there are pockets of wetter ground having leather leaf and blueberry. These pockets are small and not extensive.
79	4119 - Mixed Northern Hardwoods	Poletimber Well	37.1	43	51-80	The stand is about 55% uplands and 45% lowlands. There are a couple of drainages that cross it. There is also a closed old logging trail that goes through the stand starting from Center Fireline. The trail had a culvert installed to cross the southern drain. The south end and a portion of the north central area of the stand are wet and they are heavy to maple, ash and cedar. The ash is dead, for the most part, and it is starting to come down. The stand has areas of standing water in it and the terrain is very hummocky.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	6113 - Lowland Maple	Poletimber Well	42.5	53	1-50	The stand is very hummocky and wet. There are several broad base drainages that cross the stand. The stand is more lowlands then uplands and it is heavy to swamp hardwoods. However, there are upland portions of the stand that are heavy to aspen.
81	6112 - Lowland Aspen	Poletimber Well	27.7	43	51-80	This stand is variable with a lot of areas of standing water. The ground is generally hummocky. The stand is more lowlands then uplands and the upland areas are heavy to aspen. There are several drainages crossing the stand. The ash in the stand is dead. The low areas may be too wet to harvest.
82	42220 - Natural Jack Pine	Poletimber Well	26.7	41	81-110	The stand is mainly jack pine. There is an area that is heavy to white pine at the south end of the stand. It is moving well in to poles. The Gladwin ORV Trail runs through the stand in 2 places. Hold the stand 10 years and cut at rotation age. The Stand has inclusions of leather leaf. The terrain is hummocky.
83	42220 - Natural Jack Pine	Sapling Well	15.2	18	Immature	This stand was harvested in 1999 as part of the Molasses 5 Jack Pine, sale 73-004-98-01. The stand has regenerated well to a J3/O2. It has some depressions so there are some frost and cold air drainage problems. The Gladwin ORV trail runs through a portion of the stand.
84	42120 - Planted Jack Pine	Sapling Medium	14.3	9	Immature	The terrain is rolling. It was harvested and planted to jack pine. The stand is mixed with oak. The oak is concentrated on the hills. The valleys have very little oak because of cold air drainage leading to frost pocket problems. The Gladwin ORV trail runs through the stand.
85	42220 - Natural Jack Pine	Sapling Well	60.3	18	Immature	The stand has regenerated well. The jack pine should be a pole stand in 10 years. In the south west end of the stand it is heavy to leatherleaf with an overstory of jack pine. However, going away from that area the leatherleaf becomes less predominate and the jack pine is often mixed with oak. The ground cover is a mixture of sheep laurel, blueberry, and leatherleaf.
86	4125 - Black, N. Pin Oak	Sawtimber Medium	48.5	80	51-80	The terrain is undulating to rolling. The ridge has a PVCd to PARVHa habitat type. The stand was shelterwood harvested in 2001. In addition, the Gladwin ORV trail runs through the stand.
87	42210 - Natural Red Pine	Poletimber Well	3.7	113	81-110	This stand is a small pocket of red pine/jack pine. It has a high visual value being between two large clear cuts. The north end is heavy to red pine sawlogs and the south end is heavy to jack pine pulpwood.
88	6126 - Lowland Jack Pine	Poletimber Well	8.2	26	51-80	The dominate age was updated in 2015. The terrain is hummocky. The stand has significant gall rust.
89	6126 - Lowland Jack Pine	Sapling Medium	20.4	31	51-80	The dominate age was updated in 2015. The terrain is hummocky. There are areas of upland in the stand. However, much of the stand is lowland.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
90	429 - Mixed Upland Conifers	Sapling Medium	53.2	16	Immature	The stand was an oak clear cut in 2004. It was interplanted with jack pine around 2005. The regeneration and survival of the planting was poor so it was replanted in 2008, with FTP C73-775. Currently the overall stocking is moderate to well. The terrain is hummocky with it being mostly uplands. The stand has some inclusions of lowlands. There is some seeding in of red and white pines. The white and red pine seedlings are more common in the northern portion of the stand. The stocking is lowest in the leather leaf inclusions. The jack pines in the stand are often heavily galled.
91	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	25.4	16	Immature	The stand was harvested in 2001. The harvest retained oak and pine less than 4 inches DBH. It has regenerated to an O2. Other species present are white pine, choke cherry, jack pine, and aspen. The white pine regeneration has a low level of weevil damage at the current time. The density is highest along the trail but decreases going away from it. The open areas have oak, maple, and pine regeneration but it is less than 5' tall. The stand should be fully stocked in 10 years.
92	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	24.5	89	51-80	This stand is the flood plain of the Molasses River. The flood plain is bordered by steep banks, which are tiered. The aspen in the stand is way over mature. In addition, along the river there are several areas of alluvial shrubs.
93	4131 - Aspen, Oak	Sapling Well	78.1	24	Immature	The species distribution is patchy. There are areas at the north west and south east ends that are heavy to oak, while much of the rest is heavy to aspen. There are also some low wet drainages that run through portions of the stand. In these areas, the stand is heavier to red maple, paper birch and trembling aspen. When the stand was harvested in 1994 some sawlog oaks were left.
94	6113 - Lowland Maple	Poletimber Medium	18.2	79	51-80	The stand is wet overall, with some small areas of dry ground at the south end. The drainage runs through the stand at both the north and south ends. The soil under the drainages is Roscommon and these have inclusions of L-Type. There is also a dry knob in the south-central part of the stand. The knob is too small to delineate as a separate stand
96	6127 - Lowland Pine	Sapling Medium	18.3	37	1-50	The stand is similar to stand 101 but the diameters of the trees are greater. The overstory is patchy with areas of dense J3 as well as open areas of leatherleaf and sheep laurel. Along the south side there is an upland ridge that is an O2, with blueberry and bracken fern. The north edge of the stand has regenerated to white pine. The white pine in the stand has some weevil problems but it is not extensive.
98	4310 - Pine, Oak Mix	Sapling Medium	25.9	16	Immature	The stand was an oak clear cut in 2004. It was interplanted with jack pine around 2005. The regeneration and survival of the planting was poor so it was replanted in 2008, with FTP C73-775. Overall, the stand's stocking density is moderate to well. Oak is scattered throughout the stand but it is heaviest in the north ½ of the stand. The other species that are seeding into the stand are white pine, jack pine, and red pine. The jack pines in the stand are often heavily galled.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	6126 - Lowland Jack Pine	Sapling Poor	9.6	9	Immature	The stand was an oak clear cut in 2004. It was interplanted with jack pine around 2005. The regeneration and survival of the planting was poor so it was replanted in 2008, with FTP C73-775. The overall stocking is moderate to poor because of soil conditions. The stand is lower and wetter than stand 98. The natural oak regeneration is lower than stand 98 but it is still moderate. The ground cover is a mixture of tag alder, blueberry, sheep laurel, and leatherleaf.
100	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	33.8	27	1-50	The stand is low and wet. The east side is more of an L-type. There are knobs of marginal uplands through the center of the stand. The terrain is hummocky.
101	6139 - Mixed Lowland Forest	Sapling Medium	8.7	33	1-50	The stand has some overstory oak with an understory of white pine, red pine, jack pine, and oak. The overall stocking of the regeneration is moderate. The terrain is hummocky and it shows signs of having a high-water table. The ground cover is sheep laurel, blueberry, and leatherleaf.
102	6126 - Lowland Jack Pine	Poletimber Well	3.0	37	81-110	This stand is a mix of uplands and lowlands with the lowlands being around 55%.
103	6126 - Lowland Jack Pine	Poletimber Medium	5.4	37	1-50	The stand is wet with the ground cover of sheep laurel, leatherleaf, and blueberry.
104	6126 - Lowland Jack Pine	Poletimber Poor	23.9	31	1-50	The east end of the stand is a mixture of jack pine, trembling aspen, and oak with a heavy component of lowland shrub. The overall stocking is poor. This area was part of a rotational burn in the past. The terrain is hummocky and the ground cover goes from bracken fern/blueberry to sheep laurel/blueberry/leatherleaf. In addition, the regeneration is patchy and goes from medium stocked to non-stocked and from aspen to jack pine. Some jack pine, oak, and white pine is seeding in where the stand is open. The crown closure is around 25%. The Terrain is hummocky.
105	4125 - Black, N. Pin Oak	Sapling Medium	24.7	35	1-50	The stand has many downed trees. The terrain is hummocky. The wettest parts of the stand are the center and north eastern portions. Stand density is variable. There is a significant drainage along the southern side of the stand.
106	6113 - Lowland Maple	Poletimber Well	41.0	89	81-110	The green ash in the stand is dead, for the most part. There are still a few trees that are hanging on. The red maple is in good shape. However, much of the stand is too wet to harvest. The Stand has 2 intermittent drainages running through it.
107	4131 - Aspen, Oak	Poletimber Medium	12.4	35	1-50	This ridge is hummocky in the center, even though it is dry overall. The edges of the stand are quite wet. The stand was habitat cut in 1990 with FTP W73-143. The stand is starting to move into poles. Some of the larger oak that were left when the stand was habitat cut have died and are starting to come down.
108	6113 - Lowland Maple	Poletimber Poor	35.9	61	1-50	The stand has a couple of dry knobs in the south half of the stand, but they are small. Overall, the stand is wet. The water smells stagnate and it has a low out flow. The ash in the stand is dead.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	6113 - Lowland Maple	Poletimber Medium	27.8	59	1-50	The stand is a mix of small knolls and wet swales. The site is very hummocky with many tip up mounds. The ash is dead and coming down in areas. Habitat types are a mix of PARVHa and PARVCo
111	4199 - Other Mixed Upland Deciduous	Sapling Poor	23.1	31	1-50	This stand was part of a rotational burn. The stand has a overstory of mature oak with an understory of oak and pine coming in. Currently the regeneration is at a moderate stocking level. Leave the stand uncut retaining the over story for diversity and continue seeding.
113	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.5	31	51-80	The stand is mainly uplands. There is a low-wet area in the central portion of the stand. The crown closure is variable. The terrain is hummocky
114	4311 - Pine, Aspen Mix	Poletimber Medium	25.8	41	51-80	The stand is mostly uplands. The jack pine in the stand is concentrated on the driest knobs. The tamarack in the stand is thickest along stand 153.
116	6126 - Lowland Jack Pine	Poletimber Well	29.3	33	81-110	The stand is quite dense overall. However, the size is variable going from seedlings to poles. There is some galling in the stand but most are located on side branches and not on the main bole. The jack pines in the stand have semi-serotinous to non-serotinous cones. Therefore, natural seeding is occurring. This area was part of a rotational burn in the 80s.
117	4310 - Pine, Oak Mix	Sapling Medium	26.9	14	Immature	This stand was harvested as a seed tree harvest in 2001 and a post-harvest burn was done to stimulate oak and jack pine regeneration. The burn did increase the amount of regeneration. It has taken the stand from poorly stocked to medium stocked. The oak regeneration is heaviest in the northern portion of the stand and jack pine is heaviest along the east and south sides. Much of the regeneration has been heavily browsed by deer. The residual oak that was left has some mortality, some of the mortality was caused by the control burn, but some is natural. In addition, as the trees die they are being cut up for firewood and removed by the public.
118	6113 - Lowland Maple	Sawtimber Poor	26.8	86	1-50	The stand is too wet to harvest. The ash in the stand is dead and coming down. The stand is now a mix of sapling, pole and sawlog maple. As the ash comes down there may be an increase in the maple that is being wind thrown.
119	4310 - Pine, Oak Mix	Sawtimber Medium	9.3	80	1-50	The stand was left out when stand 85 was harvested. It is sparse and it is a mix of jack pine and oak. The regeneration in the stand is O1J1. Hold stand for 10 years.
120	6113 - Lowland Maple	Poletimber Poor	14.3	53	51-80	The stand is wet with inclusions of lowland shrubs. It varies from a sparse pole stand to a medium stocked sawlog stand. The stand is inoperable being too wet and having poor access. It was part of a rotational burn in the 80s. The ash in the stand is dead. There is some natural regeneration in the understory but it is sparse.
124	4125 - Black, N. Pin Oak	Sawtimber Poor	8.2	81	1-50	The stand is a mixture of oak, pine, maple, and aspen. The stand has a red line around it but it was never sold. It needs to be cut as a seed tree retaining 10-20 BA. There are some areas of advance regeneration that will need to be protected when the stand is harvested.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
125	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	11.9	72	51-80	The stand is a swamp hardwood that has a trace of elm, hemlock, basswood, swamp white oak, white pine and birch. The stand is diverse.
127	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	36.6	89	51-80	This stand is the flood plain of the Molasses River. The flood plain is bordered by steep banks, which are tiered. The aspen in the stand is way over mature. In addition, along the river there are several areas of alluvial shrubs.
128	4130 - Aspen	Sapling Well	25.0	27	1-50	The stand is somewhat hummocky.
129	4123 - Red Oak	Sawtimber Poor	5.7	98	1-50	The stand was harvested in 1999 as a shelterwood. The residual BA is around 40 sq. ft. The stand has pockets of good regeneration. The understory is at a moderate stocking.
131	4130 - Aspen	Poletimber Well	38.3	32	81-110	There is more aspen in this stand than in stand 132. It is dissected by numerous small drains that flow into the Molasses River. The soils on the river side of the stand are wetter. The stand is a mix of uplands and lowlands with the lowland being around 25%.
132	4199 - Other Mixed Upland Deciduous	Sapling Medium	15.9	32	1-50	The stand is a mixture of uplands and lowlands with the lowlands being around 40%. There is a lower percentage of aspen, and the percentage of oak and conifer is higher than in stand 131. The stand is not uniform in its species mixture. The north end is heavier to oak. The central area is higher to pine. The south end is heavier to aspen. The crown closure is closer to 80%. There are pockets of conifer seedlings in the understory in places. The terrain is hummocky with some ridges.
133	6112 - Lowland Aspen	Sapling Medium	7.4	22	1-50	The stand has a drainage running along most of the south side. The ash in the stand is dead and this lowers the crown closure to below 75%. It was harvested as a clearcut in 1996. The terrain is hummocky.
134	4130 - Aspen	Sapling Poor	7.0	6	Immature	Much of the oak regeneration is still less than 4' tall and it is heavily browsed by deer. When the stand was cut in 2010 the trees less than 4" DBH were retained. These residual trees are what makes up most of the crown closure. The terrain is hummocky. The crown closure goes from < 25% at the west end and up to around 60% at the east end.
135	4125 - Black, N. Pin Oak	Sapling Poor	24.7	7	Immature	Much of the oak is less Than 4' Tall. The terrain is hummocky. when the stand was cut tree less than 4" DBH wore retained.
136	6112 - Lowland Aspen	Poletimber Poor	4.8	32	1-50	This area is very wet and it is a drainage. The ash in the stand is dead lowering the crown closure to around 25%.
139	6126 - Lowland Jack Pine	Sapling Well	66.0	24	Immature	The stand was harvested in 1993. The stand is well stocked but there are open areas in it. The terrain is hummocky. There are some open leatherleaf areas and open upland herbaceous areas. The crown closure is closer to 75%. The uplands to lowlands mix is about 50-50.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
140	42210 - Natural Red Pine	Sawtimber Well	8.6	85	111-140	The western portion of the stand had the hardwoods and jack pines removed leaving red pines for visual in 2003. The eastern stand has jack pine poles and logs mixed with red pine. The area could be treated. However, the stand across M-61 does not meet green up requirements.
141	6113 - Lowland Maple	Sapling Medium	10.6	18	Immature	The stand is a drainage without bed or bank. The overstory is gone.
142	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	13.8	89	81-110	The stand is a mixture of uplands and lowlands. The stand gets wetter going west and the pine density increases. Harvest the stand as a clear cut with retention. Retain some marked oaks and red pines. However, do not exceed 5% by BA. The marked trees should be far enough back so they will not fall into M-61. There are some very wet areas in the stand that may need to be painted out.
143	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.9	33	1-50	The stand is low and wet with pockets of E5/E2 and P5/P2. Currently, there are poles starting to show up in the stand.
144	6113 - Lowland Maple	Poletimber Medium	19.7	20	51-80	This stand is a part of the Fish Creek flood plain north of M-61. The tree species are a mixture of maple, oak and some aspen and white pine. The soil is Evart -Winterfield.
145	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	32.9	85	1-50	The stand was harvested in 2003. The oaks less than 4 inches DBH were retained. The aspen didn't regenerate well due to heavy deer browse. What aspen did regenerate is in scattered clones. There is also some oak regeneration but it is too small to be called established. Therefore, the stand is mainly made up of patches of trees with a lot of open area between them. When it was harvested, they used 3 tubes to get through the stand and up to stand 163. In the stand, there are areas which are very wet.
146	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	18.8	33	1-50	This stand is sparse but overall it has a medium stocking level. It is a mixture of oak, maple and aspen and it is just becoming a pole stand. There is some regeneration but it is not extensive. The terrain is hummocky with a lot of wet pockets.
147	4199 - Other Mixed Upland Deciduous	Sapling Poor	17.9	20	Immature	The stand was harvested in 2013. It is expected to regenerate to a mixture of oak and aspen. If the regeneration is not adequate, interplant red pine. The stand is made up of the residual at this time. Deer are using the area heavily. Browse on the visible sprouts is around 90%. Set up a treatment to check the regeneration in 2018.
149	6127 - Lowland Pine	Sapling Medium	25.0	23	Immature	The stand is a mixture of uplands and lowlands. Much of the stand is low and wet with maple and oak over tag alder. There are numerous knobs also in the stand. The overall stocking level is moderate. The stand becomes wetter going south. The density also decreases going south. The open areas in the stand are low and wet. They are either leather leaf or alder. They have scattered pines and hardwoods.
150	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	6.8	26	1-50	This stand was not replanted when stand 208 was. The stand has regenerated as a J2O2 with a moderate stocking level. The ground is very uneven full of mounds and pits. Habitat PARVCo.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
152	6113 - Lowland Maple	Sawtimber Medium	7.2	84	1-50	The stand is hummocky. The ash in the stand is now dead.
155	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	13.2	69	1-50	The stand is a matrix of uplands and lowlands with the lowlands being the majority. The uplands are mainly two islands of Jack pine. There are several wet drains that flow into Stand 153. None of them have defined beds and banks.
158	6127 - Lowland Pine	Poletimber Medium	3.4	81	1-50	This stand is fairly wet. It is a mixture of sawlog oak and pine over and understory of maple and white pine.
160	4121 - Oak, Aspen	Sawtimber Poor	5.1	88	1-50	This is a ridge that has oak sawlogs with some maple, birch, and quaking aspen. The southern end and along the edges is where most of the lowland sits.
161	6112 - Lowland Aspen	Sapling Medium	9.7	24	Immature	
163	42210 - Natural Red Pine	Sawtimber Poor	12.1	80	1-50	The stand has an area of thick red pine surrounded by red pine that is sparse. The habitat type is PARVCo. The stand was harvested in 2011 with the Fish Creek North sale, sale number 73-006-06-01. The regeneration varies from poor to fully stocked. The regeneration is heaviest at the northeast end. Since the harvest some of the residual oak and pines have come down.
164	4119 - Mixed Northern Hardwoods	Poletimber Well	15.2	40	81-110	The stand has pockets of jack pine at the north end and grades to swamp hardwoods going south. There are areas that may be too wet to harvest but there are portions that can be treated. The maple goes from saplings to logs.
165	42220 - Natural Jack Pine	Poletimber Medium	5.9	30	51-80	The stand has an area of jack pine through the center. It varies from seedlings around the main patch of jack pine to poles inside. Many of the trees are poles but have poor form only having one stick in them. The pine that is seeding into the open areas in the stand are heavy to jack pines but there are some red pines.
166	4131 - Aspen, Oak	Sawtimber Medium	7.2	78	51-80	The stand is small and along M-61. It was put up but not harvested in 2011 in the Fish Creek North sale; sale number 73-006-06-01. This unit was returned to the state. Harvest as a clear cut with retention. The retention should be marked oaks and red pines. The marked trees should be far enough back so they do not fall into M-61. In addition, the BA should not exceed 5% of the total BA.
167	42260 - Natural Pine, Mixed Deciduous	Poletimber Medium	12.3	40	1-50	The stand is filling in with red, white and jack pines. Most of the seedlings are less than 12 years old. The stand has some areas of swamp hardwoods toward the northern end. Portions of this area may be too wet to harvest but much of it could be. The pine is concentrated in the southern 1/2 of the stand. Harvest the stand as a seedtree. Cut all the aspen and jack pine and retaining 10-20 BA of red pines and swamp hardwoods that are wind firm. These should be kept in patches. In addition, all the branch material should be left on site to increase the seed source to naturally regenerate the stand. If the stand does not regenerate interplant with pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
169	4125 - Black, N. Pin Oak	Sapling Well	39.8	19	Immature	The stand is a ridge, for the most part. It was harvested in 1997 as a clearcut retaining oak < 4" DBH. The stand is mainly on a droughty ridge. There are many single stemmed oak as well as stump sprouts. The ground cover is sweet fern, feather moss, blueberry, wintergreen, blackberry, and poverty grass. There is a fair amount of seeding in of red and jack pine in the western end of the stand. The stand has some scattered low pockets. The low pockets are heavy to blueberry and it is hummocky. The regeneration is sparse in the low areas probably because of frost suppression of the oak and wet ground.
170	6113 - Lowland Maple	Poletimber Well	5.8	85	51-80	Stand is variable in density and wetness, but it could be harvested. The stand was put up but not Harvested in 2011 in the Fish Creek North sale, sale number 73-006-06-01. The unit was returned to the state. The stand could be harvested. However, because of the high-water table, how close it is to M-61, and the likelihood of windthrow. The harvest should be done as a clearcut with retention instead of a selection harvest. The retentions should be marked hardwoods and conifers that are wind firm and will not fall into M-61. The harvest will also have to be done during dry or frozen conditions.
171	6113 - Lowland Maple	Poletimber Poor	3.8	85	51-80	There is a large amount of standing water in the stand. So overall, it is too wet to harvest. The ash in the stand is dead. There is a drainage that goes through the stand and then it goes through a box culvert under M-61
173	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	30.9	40	81-110	The stand has an understory of tag alder. The overstory is mainly red maple with some oaks and pines. The stand could be harvested as a clear cut with retention. If it is harvested the retention should be made up of the red pines and some marked oaks. However, the BA should not exceed 5% of the total BA. The stand will need to be harvested during dry or frozen conditions to avoid rutting problems. The terrain is hummocky. In addition, some of the XL red pine are pushing legacy size trees
174	4199 - Other Mixed Upland Deciduous	Poletimber Poor	8.8	86	1-50	There is some oak in this stand but it is mainly in one small pocket of less than 1 acre. There are other oaks and aspens that are widely scattered in the stand. Oak poles are present causing crown closure to exceed 25%. However, there is still lots of open ground in the stand. If stand 173 is harvested, then include this stand.
175	6113 - Lowland Maple	Poletimber Well	21.6	41	81-110	The stand is low and wet. There are still some live ash trees in the stand but they have EAB. The stand has a lot of down branch material. There was a significant amount of elm in the stand at one time. However, most of it is now dead and coming down.
176	6113 - Lowland Maple	Sapling Well	19.3	40	81-110	The stand is mainly red maple and black ash over an understory of tag alder. The trees are pole size. The terrain is hummocky. The stand is part of the headwaters of Fish Creek. As such the stand gets wetter going to the west. The tree density also decreases going west.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
178	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	21.1	86	81-110	The stand is mainly lowlands with some slight upland ridges. On the higher ground the stand is more of an E9 and on the lower ground it is more of an E6. The ground cover is mainly cinnamon fern, sensitive fern, and grass, there is also some blueberry present. The ash in the stand is 80% dead. There are also drainages in the stand that are too wet to harvest that will need to be painted out. Therefore, the harvest acres will be significantly less than the inventory acres.
179	6113 - Lowland Maple	Poletimber Medium	26.1	40	81-110	Stand has rolling topography. On the higher ground the stand is more of an E9 and on the lower ground it is more of an E6. The ground cover is mainly Cinnamon fern, sensitive fern, and grass there is some blueberry also present. Habitat PARVCo
180	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	6.9	85	111-140	The stand is very low and wet. It has areas of thick cedar scattered in pockets throughout the stand. There are also pockets of swamp hardwoods. The hardwoods are mainly red maple with some surviving black ash. Overall the stand is too wet to harvest and the ash that is alive has EAB.
181	6113 - Lowland Maple	Poletimber Well	23.4	40	81-110	The stand is very low and wet. It has areas of thick cedar scattered in pockets throughout the stand. There are also pockets of swamp hardwoods. The hardwoods are mainly red maple with some surviving black ash. Overall the stand is too wet to harvest and the ash that is alive has EAB.
182	4125 - Black, N. Pin Oak	Sapling Poor	19.7	6	Immature	The stand is a dry ridge, for the most part. The habitat type is a wetter PVCd or a dryer PARVHa. The western side of the stand flattens out and becomes more hummocky and show signs of having a seasonal high water table. The stand was harvested in 2011 in the Fish Creek North sale, Sale number 73-006-06-01
183	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	9.3	71	51-80	The stand is a mix of uplands and lowlands. The lowlands are around 65%. There are pockets of thick alder in the understory.
184	4199 - Other Mixed Upland Deciduous	Poletimber Medium	7.1	87	51-80	This stand is an oak ridge that runs through a L-Type. the aspen in the stand is declining. The access to the stand is restricted because of wet ground around it.
186	42220 - Natural Jack Pine	Poletimber Well	28.6	32	1-50	This stand was harvested in 1993. It has regenerated to a moderately stocked jack pine stand. The uplands to lowlands ratio is around 50-50. The lowlands are heavy to leather leaf and the uplands are heavy to bracken fern and blueberry. The density is variable and goes from poorly to well stocked. The trees in the lower density areas are squat and open grown having poor form. There is significant level of galls on the jack pines. The red pines and oaks are on the dryer ground. The red pines are putting on 1.5' to 2' feet of growth a year. There are some poles present in the south end of the stand.
187	42220 - Natural Jack Pine	Poletimber Well	23.1	33	81-110	The stand has pockets of leather leaf. The over story is jack pine mixed with oak, birch, and red pine. When the stand was harvested, the red pines were left. These are heaviest in the south end of the stand. The open areas are seeding in with red, and jack pine; oak and maple. The jack pine is now mostly poles.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
188	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	26.4	23	Immature	The stand was harvested in 1993 and has regenerated as a mixture of jack pines and aspens with some red pines and oaks. There are numerous depressions scattered throughout the stand. The depressions are J2 with blueberry and leather leaf. The uplands are J3 with bracken fern and blueberry.
189	42290 - Natural Mixed Pine	Sapling Medium	6.0	15	51-80	The ground is somewhat hummocky. The regeneration in the stand is thick at the south end and gets sparser going north. The regeneration is coming along well. Its age ranges from 25 years old to 5 years old. However, most of it is around 15 years old. So, leave the stand alone and let the regeneration fill in.
190	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	9.1	13	1-50	This stand is low and wet. There are portions of the stand which are lowland shrubs. The ash in the stand is dead. The jack pines look to be 33 years old and the maples and oaks look much younger. There is a small amount of upland along the perimeter. However, most of the stand is too wet to harvest.
191	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	39.1	15	Immature	The stand was harvested in 2003 and it has regenerated to a moderate stocking of oaks, jack pines, mixed with some maples and aspens. The stand has some low and wet areas that are more of an L-Type. The terrain is hummocky.
192	4130 - Aspen	Sapling Well	28.8	26	Immature	The stand was harvested in 1993 and it has regenerated to a well stocking of aspens, oaks, jack pines, mixed with some maples. The stand has some low wet areas that are more of an L-Type. The terrain is hummocky
193	4130 - Aspen	Sapling Well	11.3	16	Immature	The stand was harvested in 2003. The harvest was done leaving some oak. It has regenerated to a mixture of oak, maple and aspen. There are dense pockets scattered in the stand but there are also some openings.
194	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	14.9	26	Immature	The stand was harvested in 1993. The regeneration is patchy. There are patches of O3 and A3. As well as areas that have very little regeneration. In addition, in some of the open areas there are oaks, pines, and tamaracks seeding in. The overall stocking level is moderate.
195	42220 - Natural Jack Pine	Sapling Well	26.4	23	Immature	The stand was harvested in 1993. The crown closure is closer to 75%. The stand is a mixture of dense regeneration and open areas. It is also a mixture of uplands and lowlands. The jack pine in the stand is heavily galled and very branchy. Other species in the stand are maples, oaks and red pines.
196	4130 - Aspen	Sapling Well	13.9	15	Immature	The stand was harvested in 2003. The densest parts of the stand is a ridge of aspen. As you go to the east and west of the ridge it changes from well stocked aspen to a medium stocking of jack pines and oaks. The stand also gets noticeably wetter.
197	42220 - Natural Jack Pine	Sawtimber Well	4.1	86	51-80	The stand was harvested in 2003 leaving the red pines. The regeneration in the stand is at a medium stocking in the open areas of the stand. The areas with heavier crown closure are poorly stocked.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
198	6126 - Lowland Jack Pine	Sapling Medium	12.0	15	Immature	The terrain is hummocky with pockets of leather leaf as well as pockets of bracken fern. The stand was harvested in 2003. The crown closure is between 60 and 70%. The stand filled in fairly well with aspens, oaks, jack pines, red pines, white pines and tamaracks.
199	42220 - Natural Jack Pine	Poletimber Well	5.8	86	111-140	This is an area of jack pine that wasn't cut with the rest of stand 198. The terrain is hummocky with some wet depressions. There are canopy gaps. The gaps are filling in with maples, jack pines, red pines, and tamaracks. The north end of the stand is heavy to red pines.
201	4199 - Other Mixed Upland Deciduous	Poletimber Medium	38.7	36	1-50	This stand is a hodgepodge of aspens and swamp hardwoods. The aspens in the stand are mainly quaking aspen and there are some inclusions of wet ground. Overall, the stand is just coming into poles. The terrain is undulating but mostly uplands with inclusions of lowlands.
202	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	15.1	26	Immature	The stand is low and wet. It is mainly a medium stocked swamp hardwoods swale with birch, white pine, jack pine, tamarack and oak. The ground cover is mainly tag alder and willow. The stand was harvested in 1993. The central portion of the stand is heavy to lowland shrub and has a low stocking level while the perimeter is fully stocked. The growth appears to be slow indicating it has a low site index.
205	42220 - Natural Jack Pine	Poletimber Medium	11.1	33	1-50	This stand is sparse but overall it is medium stocked. It is a mixture of oaks, maples and aspens and it is just becoming a pole stand. There is some regeneration but it is not extensive. The terrain is hummocky with lots of wet pockets. Some of the oaks and red pines were left at the time of the harvest.
206	4199 - Other Mixed Upland Deciduous	Poletimber Medium	4.6	55	51-80	The stand has a trace of bigtooth, birch, black cherry, white pine, and white spruce.
207	42221 - Natural Jack Pine, Mixed Deciduous	Poletimber Medium	7.0	55	51-80	The stand has a ground cover of leather leaf, sheep laurel, and fern. The jack pine in the stand is variable going from poles to saplings.
208	6126 - Lowland Jack Pine	Sapling Well	49.6	23	Immature	25-50% of north 1/3 of stand has gall rust. The ground cover is a dense layer of leatherleaf, blueberry, and other herbs. There is virtually no subcanopy. Overall the stand looks good. However, there are some small openings and the overall density is still good. Harvested 1993
210	42220 - Natural Jack Pine	Sapling Medium	6.2	27	Immature	The stand appears to be seeding in from stand 116. The size of the jack pine ranges from small seedlings to medium poles. The pole size jack pines are scattered. The density in the stand is also variable and goes from medium stocked to well stocked. The southern end of the stand is heavy to jack pine, but this goes to jack pine/oak in the central part, and to jack pine/aspens/oak in the north end of the stand. In addition, this area like much of the compartment south of Mosquito Alley Truck Trail was part of a rotational burn in the 80s.
211	4130 - Aspen	Poletimber Well	2.2	17	81-110	This is a slight upland stand against a private subdivision.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
212	6139 - Mixed Lowland Forest	Sapling Well	4.8	25	51-80	The dominate age was updated in 2015. The terrain is hummocky. There are areas of leatherleaf.
213	42120 - Planted Jack Pine	Sapling Well	6.5	31	1-50	The dominate age was updated in 2015. The terrain is hummocky. The stand is moving into poles. The stand is barely upland. In addition, there is a significant portion of the stand that is seasonally wet. Therefore, the stand could not be treated in the spring through early summer.
215	6113 - Lowland Maple	Poletimber Well	24.4	41	81-110	The stand is a wet stand of swamp hardwoods. There are a few upland knobs but they are small. The ash in the stand is dying from EAB. However, there are still a couple of live ash in the stand.
216	6112 - Lowland Aspen	Poletimber Well	2.8	34	51-80	This stand is the flood plain of the Molasses River. The flood plain is bordered by steep banks, which are tiered. The aspen in the stand is way over mature. In addition, along the river there are several areas of alluvial shrubs.
219	4130 - Aspen	Sapling Well	7.8	10	Immature	The stand was harvested in 2007. The regeneration is coming in well and it is heavy to aspen. There are some low areas where the crown closure drops to below 50% but much of the stand is over 75%. There are drainages going through the stand.
220	6139 - Mixed Lowland Forest	Poletimber Medium	20.1	31	Immature	The east end of the stand is a mixture of jack pine, trembling aspen, and oak with a heavy component of lowland shrub. The overall stocking is medium to well. This area was part of a rotational burn in the past. The terrain is hummocky and the ground cover goes from bracken fern/blueberry to sheep laurel/blueberry/leatherleaf. In addition, the regeneration is patchy and goes from well stocked to non-stocked from aspen to jack pine. Most of the aspen is in the south half of the stand, while jack pine is heavier in the north half. The diameter of the trees is also variable going from 1 inch to 5 inches at DBH.
221	6126 - Lowland Jack Pine	Sapling Well	7.7	15	51-80	The dominate age was updated in 2015. It looks like the stand was harvested around 1998 and then planted around 2000 according to the aerial imagery. So, the stand is around 15 years old. The terrain is hummocky. The stand is heavily galled.
222	4310 - Pine, Oak Mix	Poletimber Well	7.3	30	1-50	The stand is a ridge that runs between low wet areas.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	8.7	No	The stand is very wet. It is mainly tag alder with a sparse canopy of maple and aspen. The canopy is between 15 and 20%. The ash that was in the stand is dead and coming down. The groundcover is swamp grass and sensitive fern.
4	3303 - Mixed Low Density Trees	3.6	No	The stand is an old white pine stump field. The terrain is hummocky but dry. The crown closure is between 15 and 25% so it is not forested. Jack pine, white pine and some oak is seeding in from the surrounding stands.
8	6229 - Mixed lowland shrub	10.1	No	The ash in the stand is dead and most of them have come down. The stand is now mainly tag alder, dogwood, and other lowland shrubs over marsh grass.
13	6225 - Bog	1.1	No	The stand is in a swale. It is heavy to leatherleaf and the terrain is hummocky.
26	6225 - Bog	35.4	No	This stand is mainly a leatherleaf bog. There are portions of the stand that are marsh grass. There are some pockets of lowland shrubs and scattered trees along the east side.
30	6233 - Wet Meadow	6.7	No	The stand is in a well-defined depression. The ground cover is mainly marsh grass with some areas of water and sparse low reeds.
31	6224 - Treed Bog	5.2	No	The stand is a treed bog of leatherleaf and marsh grasses with scattered jack pine mainly, with some isolated white pine and red pine.
33	6233 - Wet Meadow	10.6	No	The stand is a mix of marsh grass and leather leaf.
34	6224 - Treed Bog	2.2	No	This is mainly a bog with some red, jack, and white pine scattered in it. There are some hardwoods on the western edge.
36	6224 - Treed Bog	1.8	No	The stand is in a depression and it is very hummocky. The white pines in the stand are open grown. This has led to the pines being short and having a very poor form. They have heavy branches all the way to the ground.
38	6224 - Treed Bog	9.3	No	The crown closure is between 15 and 25%. The trees in the bog are concentrated through the center of the stand. The terrain is very hummocky and wet.
39	3302 - Low Density Conifer Trees	11.5		The stand was salvaged in 1996 having the dead oak removed. It had a second harvest in 2010 as a shelterwood-seed tree harvest retaining 20-30 BA of oak and pine. The regeneration is moderate and it is mainly pine with some oak. There is a knob at the west end that is heavy to jack pine.
41	6220 - Alder/willow	30.9	No	The stand is mainly a lowland shrub type with some aspen and pines scattered in it.
48	6224 - Treed Bog	5.1	No	The stand is a leather leaf bog with scattered red, white, and jack pines. The trees are in patches where the ground is a little dryer.
53	122 - Road/Parking Lot	5.3	No	This is M-61 ROW from the center line of the road to the north.



Stand	Cover Type	Acres	Managed Site	General Comments:
61	6224 - Treed Bog	5.1	No	The stand is in a depression. The north end has the majority of the trees. The ground cover is leather leaf.
69	6224 - Treed Bog	2.1	No	The stand is a leatherleaf depression. There are some scattered pockets of pines. The crown closure is between 15 and 25%.
95	310 - Herbaceous Openland	1.7	No	This stand is an old landing that was used when stand 93 was cut. It has come back to poverty grass, blackberry, bracken fern, sweet fern, and spotted knapweed.
97	6229 - Mixed lowland shrub	5.5	No	This drainage is predominantly an L-Type. The edges of the stand have some swamp hardwoods present. These hardwoods are mainly ash with some red maple. The ash is dead and coming down.
110	6229 - Mixed lowland shrub	4.7	No	This stand is very wet and it is mainly a lowland shrub type with pockets of leatherleaf. There is a small pocket of trees in the stand.
112	6229 - Mixed lowland shrub	23.2	No	This stand is a lowland shrub type with some areas of maple and ash. The ash is now dead and starting to come down. These pockets are scattered so the stand is non-forested. The stand also has a drainage running through it. This flow drains many of the stand south of the Mosquito Alley Truck Trail.
115	6229 - Mixed lowland shrub	13.0	No	The stand is mainly alder over marsh grass. There are some birch trees scattered in the stand.
121	6229 - Mixed lowland shrub	5.9	No	The stand is in a depression. It is mainly lowland shrubs with some scattered swamp hardwoods and pines.
122	3302 - Low Density Conifer Trees	12.6		The terrain in the stand is hummocky. The ground cover is sheep laurel, blueberry and some leatherleaf. There are some pockets of very wet ground. The stand looks like it dries out in late summer. The stand was harvested as a clear cut in 2013. When it was harvested, the branches were left to provide seed to the stand. This was done because of the moist ground and because the jack pines had semi-serotinous cones. The stand has regenerated fairly-well and it looks to be fully stocked.
123	500 - Water	5.0	No	These stands appear to be old beaver floodings. The water level appears to have gone down substantially since the 2010 leaf off imagery.
126	6224 - Treed Bog	2.0	No	This stand is in a slight depression and it is next to stand 111. It has a ground cover of leatherleaf with some widely-scattered oak, jack pine, white pine and trembling aspen in it.
130	6229 - Mixed lowland shrub	3.5	No	This is a non-forested part of stand 143. The stand is heavy to tag alder and Michigan holly. There are some scattered trees mainly swamp hardwood..
137	3303 - Mixed Low Density Trees	30.0		The stand has been clearcut in 2013. It was burned and trenched in 2016. It has not yet been planted to red pine. Planting should occur in the spring of 2017. When harvesting and planting is done, the stand is expected to be a mixture of planted red pine, and natural jack pine and oak. The retention for the stand was set up to help with visual and protect traditional hunting camps.



Stand	Cover Type	Acres	Managed Site	General Comments:
138	330 - Low-Density Trees	4.7		The stand was clearcut in 2013. It was burned and most of the stand was trenched in 2016. It has not yet been planted to red pine. Planting should occur in the spring of 2017. When harvesting and planting is done, the stand is expected to be a mixture of planted red pine, and natural jack pine, aspen, and oak.
148	6224 - Treed Bog	3.3	No	This stand is mainly a medium stocked jack pine over blueberry, leather leaf, and bracken fern. There are areas of both J1 and J3. The trees are squat and open grown. Red pine and oak are seeding in on the dryer ground. The red pine is putting on 1.5 to 2 feet of growth a year. There are also some poles present in the south end of the stand.
153	6233 - Wet Meadow	84.2	No	The stand has seen some hydrology changes. It looks like it was a lot wetter in the past from the older aerial imagery. It's now more of a wet meadow with pockets of lowland shrubs and pockets of non-forested wetlands.
154	500 - Water	11.9	No	The stand looks like a beaver flooding. The dam is still intact and holding water. The beaver lodge looks like it was made part of the dam.
156	3303 - Mixed Low Density Trees	77.6	No	The stand is a matrix of uplands and lowlands. The uplands make up about 55% of the stand. The trees are in patches of aspen clones and knobs of jack pine. Much of the aspen is mature and showing signs of declining. Pine trees are seeding in and are mainly jack pine. However, there are some red and white seedlings coming into the stand. There are also some hybrid oaks scattered throughout the stand.
157	3302 - Low Density Conifer Trees	6.7	No	The stand is on a slight-ridge. The central portions of it is open and is more of an upland herbaceous. There is a fair amount of jack pine seeding in as well as some scattered oak.
159	122 - Road/Parking Lot	1.5	No	M-61
162	6229 - Mixed lowland shrub	50.2	No	This stand is a hodge-podge of dense pockets of trees and shrub fields. The overall crown closure is between 15 and 25%. The stand is a mix of uplands and lowlands with the lowlands being the majority. The terrain is hummocky. The oak regeneration is heaviest in the eastern portion of the stand and jack pine in the western portion.
168	6220 - Alder/willow	67.0	No	This stand has very little in the line of any trees in it. The stand is mainly tag alder and dogwood.
172	6224 - Treed Bog	7.3	No	This stand has some aspen, pine, and mixed oak. The aspen is poor quality trembling aspen. The overall crown closure is between 15% and 25%. The ground cover is mainly leather leaf and blueberry.
177	330 - Low-Density Trees	16.3		The stand was harvested in 2011 in the Fish Creek North sale, sale number 73-006-06-01. It is starting to regenerate. However, the regeneration is sparse and has heavy deer browse. The browse level is around 75% of all stems. The east end is moderately stocked the west end is poorly stocked.
185	6225 - Bog	1.6	No	The stand is mainly leather leaf and blueberry with some scattered red and jack pine.



Stand	Cover Type	Acres	Managed Site	General Comments:
200	622 - Lowland Shrub	3.6	No	The stand is an L-Type with some swamp hardwoods. The hardwoods are mainly birch and maple which are heaviest along the perimeter.
203	310 - Herbaceous Openland	7.1		The stand is on a knob that's isolated by low wet ground. It was harvested in 2013 as a clear cut. The stand is trying to regenerate. However, both maple and oak are heavily browsed.
204	6229 - Mixed lowland shrub	4.7	No	This drainage flows into Fish Creek. The stand is mainly leather leaf with some swamp hardwoods and conifers scattered throughout the stand.
209	3301 - Low Density Deciduous Trees	9.1		The stand was harvested in 2011. At the current time the oak regeneration is thick but not tall enough to be called established. It is expected to become established in time and be a fully stocked stand.
214	122 - Road/Parking Lot	15.2	No	M-61
217	6220 - Alder/willow	22.0	No	The stand has a crown closure around 20%. The ash in the stand is dead and coming down. The death of the ash is what took the crown closure below 25%. The understory is thick to tag alder and Michigan holly. Overall, the stand is too wet to harvest.