



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63102

Entry Year 2025

Acreage: 2,217

County Missaukee

Management Area: High Sand Plains

Stand Examiner: Matt Edison

Legal Description:

T21N, R5W, Sections 25-28. Holland Township.

Identified Planning Goals:

Continue to maintain cover types and age class diversity. Salvage areas of dead oak and convert to aspen where applicable.

Soil and topography:

Grayling association. Grayling and Rubicon sands. Montcalm-Gray calm complex. Various mucks and Manistee loamy sands.

Mostly level with a few rolling hills towards the east and the Muskegon River to the far east of the compartment.

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

Most of compartment is solid state ownership. Private holdings in west side of section 27. 80 Acres recommended for acquisition in NWSW, NESW of section 25. Land use in compartment is generally hunting, ORV trail use, mushrooming, firewood gathering, snowmobiles on two tracks.

Unique Natural Features:

Large diameter white pine stand in river plains area, section 25.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Far East end falls within a Eastern Massasauga Management Area.

This compartment falls within the Highplains Ecosystem, the east half into the Grayling Outwash Plain Subsection, LTA 5111 and the west half into the Cadillac Subsection, LTA 3111. In LTA 5111 the predominate soil is Grayling sand, a deep, excessively drained, acidic soil with low natural fertility. Pre-settlement vegetation was variable but dominated by fire-dependent conifer forest, e.g. jack pine, red/white pine, and pine or oak/pine barrens. In LTA 3111, soils are deep, excessively drained sands with relatively low fertility. Red pine, which occurred mixed with oak or white pine was a major component of forests. Wildlife habitat objectives for this compartment are to continue to maintain cover types and age-class diversity across the compartment. The eastern fifth of the compartment is part of a proposed eastern massasauga rattlesnake management area. Activities in this management area will follow Conservation Candidate Agreement with Assurances guidelines as approved by the U.S. Fish and Wildlife Service. Featured species of special interest are eastern massasauga rattlesnake, bear, deer, woodcock, ruffed grouse, and golden-winged warbler. (E. Victory, 8/21/13)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. A sand pit is located in Section 33 and a gravel pit is located one mile to the south. Gravel potential is considered good especially the upland areas. The compartment is located two miles northwest of Cranberry Lake Field. The field is a Stray Sandstone gas storage area (7.7 Bcf) and a Richfield secondary recovery operation (1.7 MBO). The entire Compartment is leased for oil and gas development. (T. Hoane, 3/6/2013).

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for closure. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

The Leota ORV Trail runs North and South, and East & West through this compartment. This ORV trail designed for vehicles 50 inches wide or less. Care should be taken to keep the 50" trail intact to reduce illegal opportunistic full size ORV's. Proposed timber management activities should include trail protection specifications to reduce impacts to users, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and wildlife experiences for future generations. Hunting opportunities exist throughout the area also. (T.M.N. 7/2013)

Fire Protection:

The road system within the compartment allows for suppression equipment access. The limiting factors would be the sandy soils and terrain issues. Recreational activities within the compartment would increase the chance of a fire. This area has fuel types that would support large fire growth and cause suppression concerns on Very High and Extreme days. (B. Tower, 2013).

Additional Compartment Information:

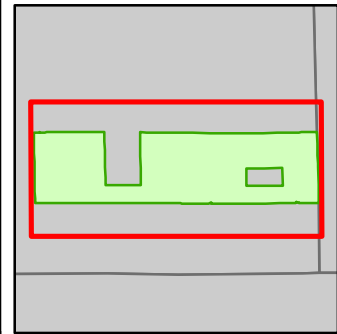
The following reports from the Inventory are attached:

- 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**

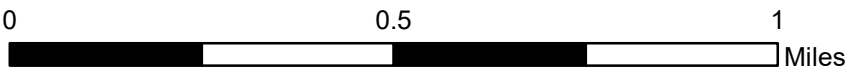
The following information is displayed, where pertinent, on the attached compartment maps:

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

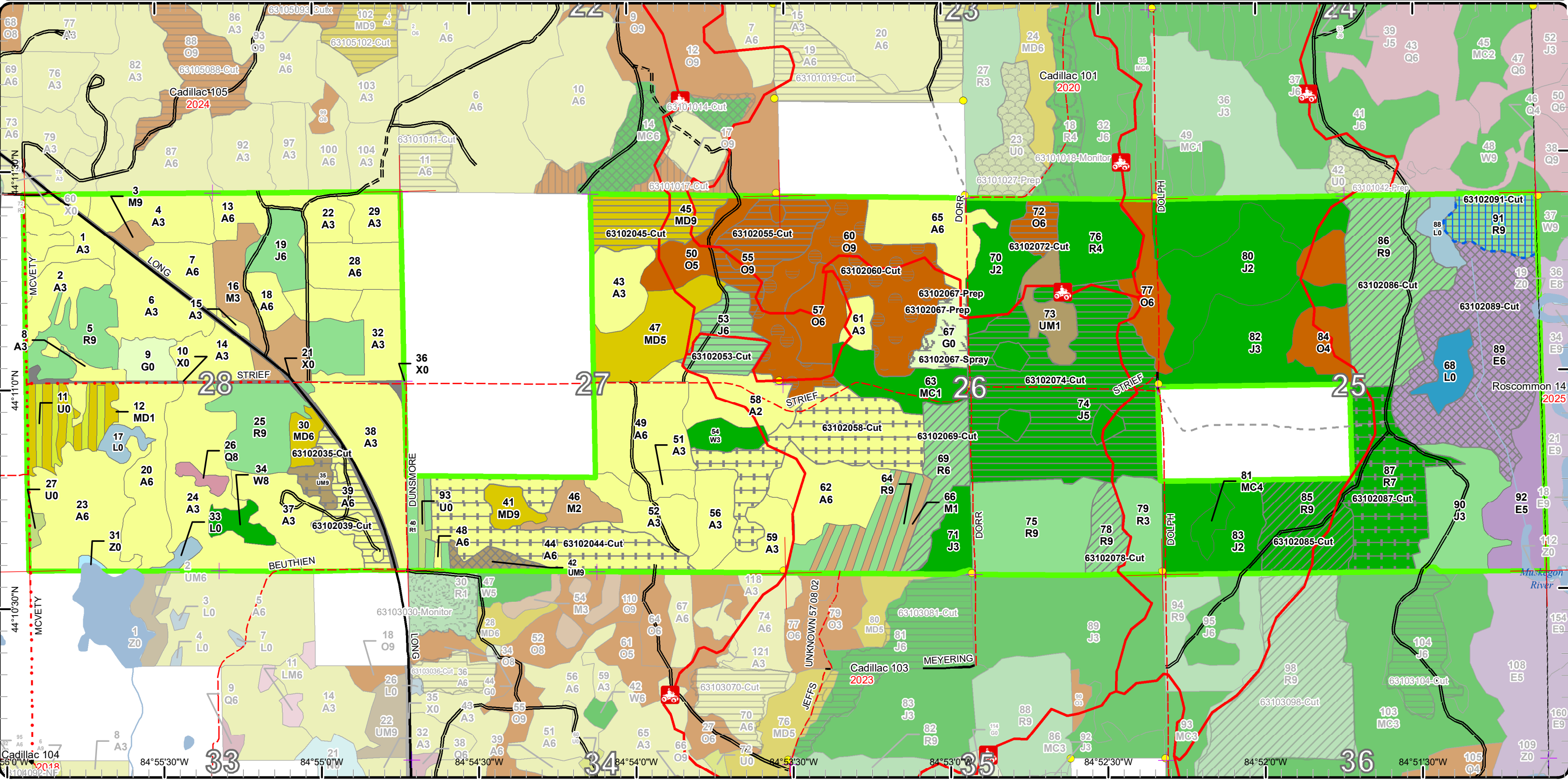
Cover Type & Treatments Map



Compartment: 102
 T21N, R05W, Sec. 25-28
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 2216.8 GIS Calculated
 Examiner: Matt Edison
 Map Revised: 10/19/2023
 Map Phase: Post-Maps

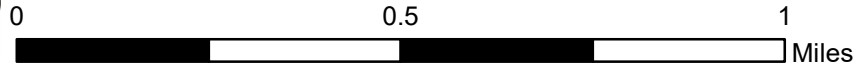


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| <ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ● Survey Grade Corners Counties DNR - Secondary Forest Road DNR - Forest Access Route Federal / State / County - Paved Road County - Gravel Road County - Dirt Road (Seasonal) Private - Dirt / Gravel Road 🚙 ORV Trails — Designated ATV Trails — Lake/Pond — Perennial River | <ul style="list-style-type: none"> Lakes and Rivers Compartment Boundary Treatments with Site Conditions Pesticide Selection (Group, Single Tree) Clearcut (w/Reserves) Harvest, Overstory Removal Patch/Strip Cut (Femelschlag) Seed Tree (w/Reserves) Thinning (Crown, Low, Systematic) Site Prep 411 - Northern Hardwood 412 - Oak Types 413 - Aspen 419 - Mixed Upland Deciduous | <ul style="list-style-type: none"> 421 - Planted Pines 422 - Natural Pines 430 - Upland Mixed Forest 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 122 - Roads/Parking Lot 310 - Herbaceous Openland 320 - Upland Shrub 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 629 - Mixed Non-forested Wetland |
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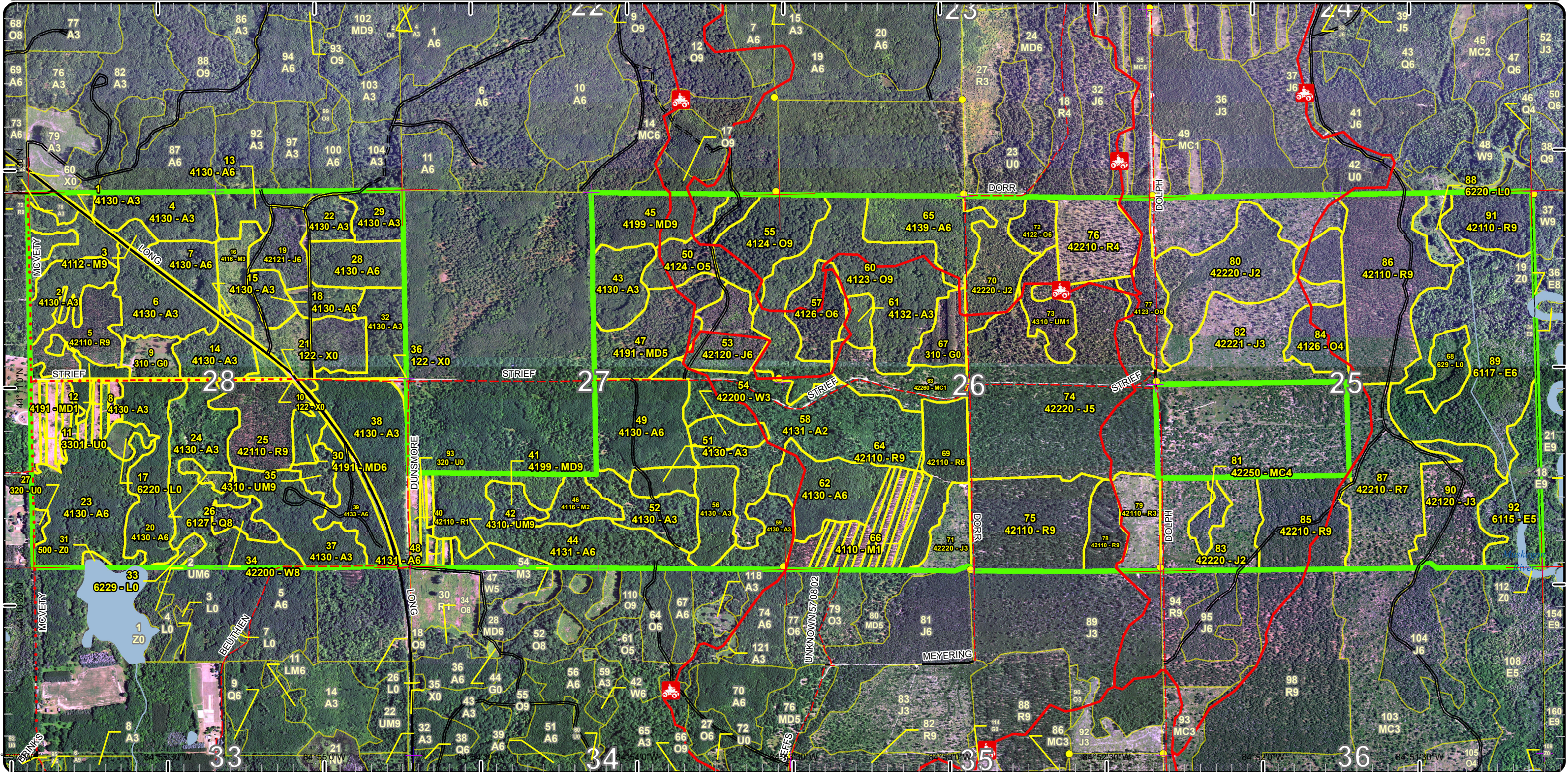


Stand Boundary Map

Compartment: 102
 T21N, R05W, Sec. 25-28
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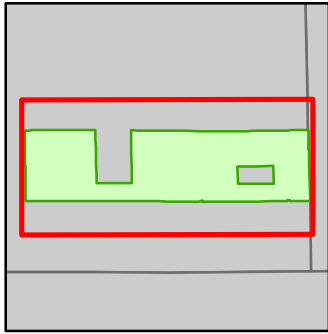
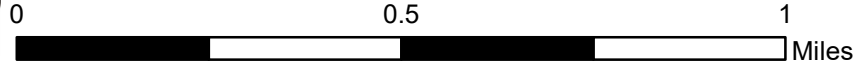


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- Designated ATV Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub

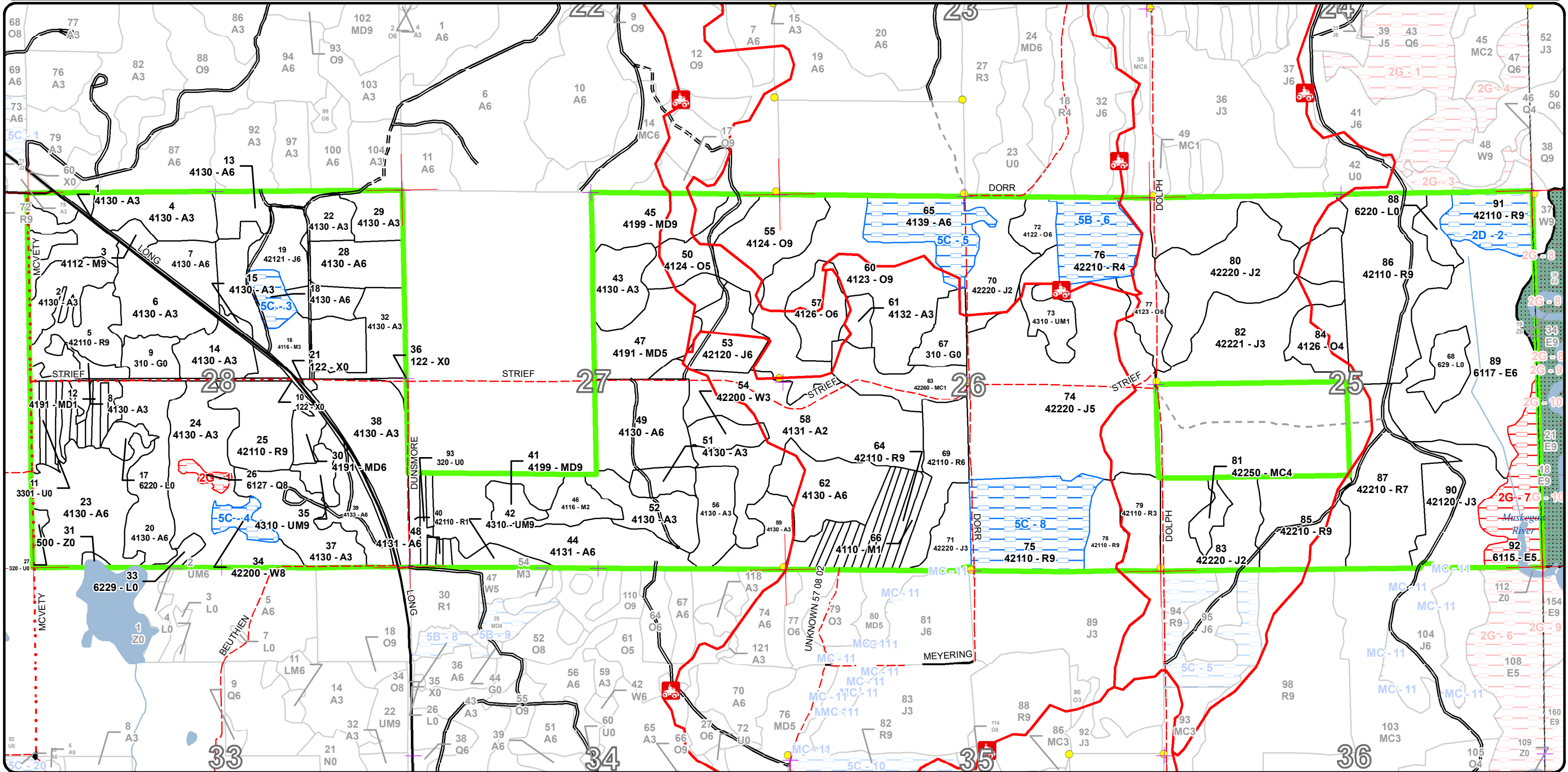


Special Conservation Areas

Compartment: 102
 T21N, R05W, Sec. 25-28
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- Designated ATV Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries
- SCA
- Cold Water Lakes
- Vernal Pool



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	84	190	203	258	0	19	8	0	0	0	0	0	0	0	0	0	0	761
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	131	248	0	0	0	28	21	0	0	0	0	0	0	0	0	0	428
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Lowland Deciduous	0	0	0	0	0	0	0	31	91	0	0	0	0	0	0	0	0	0	121
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	16	34	0	0	0	7	8	0	28	0	0	0	0	0	0	0	0	92
Natural Mixed Pines	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Northern Hardwood	0	27	15	11	0	0	0	0	4	0	0	0	0	0	0	0	0	0	57
Oak	0	0	0	46	0	18	0	18	0	80	41	0	0	0	0	0	0	0	203
Red Pine	0	17	9	0	25	0	0	71	28	243	0	0	0	0	0	0	0	0	393
Upland Mixed Forest	0	16	0	0	0	0	0	7	0	0	0	0	7	0	0	0	0	0	30
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	9	0	0	0	0	0	0	7	0	0	0	0	0	0	16
Total	84	160	379	508	320	18	26	171	140	355	44	0	14	0	0	0	0	0	2216



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 102

Total Compartment Acres: 2,217

Commercial Harvest - 725
 Harvests with Site Condition - 22
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	16	0	0	0	0	0	115	0	0	131
Jack Pine	148	0	0	0	0	0	0	0	0	148
Lowland Deciduous	0	91	0	0	0	0	0	0	0	91
Mixed Upland Deciduous	28	0	0	0	0	0	0	0	0	28
Oak	38	0	80	0	0	0	0	0	0	119
Red Pine	0	0	0	22	0	141	55	0	0	217
Upland Mixed Forest	0	7	0	0	0	0	7	0	0	14
Total	230	98	80	22	0	141	176	0	0	747

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	747	0	0	0	0	13	0	0	0	760
Next Step	0	0	13	0	0	0	456	0	0	469
Total	747	0	13	0	0	13	456	0	0	1229



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

35	63102035-Cut	6.8	4310 - Pine, Oak Mix	Sawtimber Well	110	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Remove all red oak. Leave white oak and some white pine. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.
Specs:

Next Step
Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

39	63102039-Cut	15.8	4133 - Aspen, Mixed Pine	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Harvest Aspen and maple. Retain large White Pine and mark other desirable. Protect areas with heavy WP regen as retention pockets.
Specs:

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

42	63102042-Cut	7.2	4310 - Pine, Oak Mix	Sawtimber Well	67	141-170	Harvest	Single Tree Selection	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Cut out all aspen and select cut all other species by spec or marking to thin appropriately for mixed species.
Specs:

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment: Monitor for regen.

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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44	63102044-Cut	57.0	4131 - Aspen, Oak	Poletimber Well	26	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Remove oak and maple overstory with the exception of a few scattered as residual. Harvest any merchantable size aspen and protect the smaller regeneration as best as possible. Sale area will reflect actual on the ground conditions and may vary from original treatment acres.

Next Step
Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

45	63102045-Cut	27.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	88	141-170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Cut all aspen, oak, red maple, and jack pine. Cut only red pine greater than 10 inches. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

53	63102053-Cut	21.4	42120 - Planted Jack Pine	Poletimber Well	70	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut all down to 2" Cut asap as jack pine is already deteriorating and falling down.
Specs: Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2022

55	63102055-Cut	29.0	4124 - Red with White Oak	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Retain some white pine and white oak less than 10" dia. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

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

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment: Cut as sson as possible as oak wilt has been in stand for a while.

Site Condition

Proposed Start Date: 10/1 /2022



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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58	63102058-Cut	57.8	4131 - Aspen, Oak	Sapling Medium	18	Immature	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Cut all merchantable trees except for white oak. Leave any red pine under 8 inches dia.
Specs: Harvest overstory oak asap... chapter 7 to current year harvest 2023. Exclude areas of mostly pure aspen on and above the ridge to west. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.
Next Step
Treatments:
Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2022

60	63102060-Cut	80.4	4123 - Red Oak	Sawtimber Well	85	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
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Prescription Clear-Cut with patches within treatment area. Cut about a third this year and more later in current entry if more decline. Cut all trees down to 2", except do not cut white pine or white oak. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.
Next Step Monitoring, Natural Regen (Intermediate)
Treatments:
Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2022

69	63102069-Cut	24.8	42110 - Planted Red Pine	Poletimber Well	30	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Third row thin Red Pine.
Specs:
Next Step
Treatments:
Acceptable Regen:
Other Comment:
Site Condition
 Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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72	63102072-Cut	9.2	4122 - Oak, Pine	Poletimber Well	97	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut with some retention of scattered red pine. Do not cut white oak. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

74	63102074-Cut	126.6	42220 - Natural Jack Pine	Poletimber Medium	25	141-170	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area. Areas of predominantly smaller dia. can be used for retention pockets. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

78	63102078-Cut	13.0	42110 - Planted Red Pine	Sawtimber Well	81	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to approximately 120 BA. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment.

Next Step

Treatments:

Acceptable Regen: Planted Red Pine

Other Comment:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024

85	63102085-Cut	37.3	42210 - Natural Red Pine	Sawtimber Well	83	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin from above to release crowns. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Include Sale Specs needed for protections of Massasauga Rattle Snake

Next Step

Treatments:

Acceptable Regen: Planted Red pine

Other Comment:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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86	63102086-Cut	65.7	42110 - Planted Red Pine	Sawtimber Well	80	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin red pine to residual of 100-120 b.a. Focus on removing largest diameter trees. Include Sale Specs needed for protections of
Specs: Massasauga Rattle Snake

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

87	63102087-Cut	54.7	42210 - Natural Red Pine	Sawtimber Poor	83	1-50	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Clear-Cut with pocket retention 3-6% of treatment area to save a representation of red pine. Actual treatment will reflect on the ground
Specs: conditions and acreage may vary from original proposed treatment. Include Sale Specs needed for protections of Massasauga Rattle Snake

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

89	63102089-Cut	90.7	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	77	111-140	Harvest	Group Selection	613 - Lowland Mixed Forest	Uneven-Aged	No
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Prescription The ground is quite variable with lots of included low open wetlands. There is very nice white pine regen throughout that could benefit from
Specs: being released. Some white pine that is entering pole size as well. Find a diameter range to remove the overstory while retaining under 6" and super large white pine. Allow for acreage limits for treatment due to wet areas. Eastern portion gradiates to riparian influence and eventually Muskegon river. Any treatment possible is these areas should consider River guidelines. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Include Sale Specs needed for protections of Massasauga Rattle Snake

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

Acceptable Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
91 63102091-Cut	21.8	42110 - Planted Red Pine	Sawtimber Well	80	171-200	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> Cut all merchantable trees, except for a residual of 50-70 ba of red pine. Let stand convert to natural state following harvest due to difficult access. Access challenges create need to find suitable access across lower area and a crossing area for stream. Actual treatment will reflect on the ground conditions and acreage may vary from original proposed treatment. Include Sale Specs needed for protections of Massasauga Rattle Snake</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen will consist of any mix of Aspen, Oak, Maple, Birch, Beech, Cherry, White Pine, Red Pine, Balsam Fir, Spruce, or Cedar.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Portable Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

Approved Treatments:

67 63102067-Prep	0.0	310 - Herbaceous Openland	Nonstocked	2022		SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine and oak.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
67 63102067-Spray	12.9	310 - Herbaceous Openland	Nonstocked	2022		Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Site Prep Spray</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red Pine</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 760

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 102
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		2D	5B	5C	2G
761	723	38	0	Aspen			38	
23	23	0	0	Herbaceous Openland				
429	429	0	0	Jack Pine				
9	9	0	0	Low-Density Trees				
3	0	0	3	Lowland Conifers				3
121	91	0	30	Lowland Deciduous				30
29	29	0	0	Lowland Shrub				
92	92	0	0	Mixed Upland Deciduous				
28	28	0	0	Natural Mixed Pines				
57	57	0	0	Northern Hardwood			0	
203	203	0	0	Oak				
393	292	100	0	Red Pine	22	28	50	
30	30	0	0	Upland Mixed Forest				
5	5	0	0	Upland Shrub				
16	16	0	0	Urban				
1	1	0	0	Water				
16	9	7	0	White Pine			7	
2,217	2,037	146	34	Total Forested Acres	22	28	96	34
	92%	7%	2%	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	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 102
Year of Entry: 2025

2	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold due to amount of adjacent cutting							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Matt Edison : Examiner

Compartment: 102
Year of Entry: 2025

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4130 - Aspen	Sapling Well	16.6	13	Immature	N/A	Aspen stand was harvested last entry. #63-016-05 "Long Divide". Pretty good looking aspen.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>90</td> <td>Sapling</td> <td>2</td> <td>13</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>3</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	90	Sapling	2	13	Black/Red (Hybrid) Oak	3	Sapling	2		Red Maple	7	Sapling	2																										
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2	4130 - Aspen	Sapling Well	24.6	25	Immature	N/A	Aspen stand with scattered overstory oaks left following previous harvest. Some White Pine in understory.																																													
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3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.6	86	51-80	N/A	Mixed mature stand. Harvest oak and aspen. Retain maple.																																													
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4	4130 - Aspen	Sapling Well	22.8	25	Immature	N/A	Good looking A3.																																													
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Bigtooth Aspen	90	Sapling/Pole	4	25																																																
5	42110 - Planted Red Pine	Sawtimber Well	23.2	67	81-110	N/A	Stand was thinned last entry. #63-059-05 "MSL Red Pine". Hold and evaluate next entry.																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Log/Pole</td> <td>12</td> <td>67</td> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Red Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Aspen (spp.)</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	100	Log/Pole	12	67	Red Maple	Low	5 - 10 feet	Sapling						Red Oak	Low	Variable	Sapling						Aspen (spp.)	Low	5 - 10 feet	Sapling									
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					Aspen (spp.)	Low	5 - 10 feet	Sapling																																												
6	4130 - Aspen	Sapling Well	25.2	36	141-170	N/A	Mixed Aspen of variable size. Check next entry for harvest. Thin very small Sugar Maple patch with stand on opposite side of readjust to north.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
7	4130 - Aspen	Poletimber Well	14.0	35	141-170	N/A	Stand has a wet area in the NE portion of the stand. This is the concentration of Quaking Aspen. Variable size diameter, 3-6".																												
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8	4130 - Aspen	Sapling Well	7.5	25	Immature	N/A	A3 along both sides of the road. Some wet pockets. Not the greatest stand.																												
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White Oak	5	Sapling	4																																
9	310 - Herbaceous Openland	Nonstocked	9.9			No	Few scattered trees in grassy opening. Previous landing site for adjacent timber sales.																												
10	122 - Road/Parking Lot	Nonstocked	3.9			No																													
11	3301 - Low Density Deciduous Trees	Nonstocked	9.2			No	Stand was JP harvested 63-059-05 "MSL Red Pine" and jack pine removed. Oak coming in.																												
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Red Oak	Low	5 - 10 feet	Sapling																																
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12	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	16.2	7	Immature	N/A	Stand was JP harvested 63-059-05 "MSL Red Pine". Red Pine planted after harvest. Mostly sparse oak and maple. Red Pine struggling underneath. Oak actually coming in pretty well. 10/21/2021- Mixed upland site, with planted red pine seedlings. 10/21/2021- We should not pursue FTG red pine on this site at this time. Seedling levels appear to be lower than ideal. Mixed stand. (B. Tweedale).																												
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13	4130 - Aspen	Poletimber Well	13.3	35	141-170	N/A	Same sale as stand 5 but no wet areas. Aspen is growing well, check in 10 years.																												
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14	4130 - Aspen	Sapling Well	15.7	5	Immature	N/A	Treated with #63-034-15																												
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Bigtooth Aspen	90	Sapling	1	5																															
Red Maple	10	Sapling	1																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	4130 - Aspen	Sapling Well	1.5	13	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Sapling	2			
Quaking Aspen		85	Sapling	2	13		
16	4116 - Mixed N. Hardwood - Aspen	Sapling Well	27.3	9	Immature	N/A	Stand is a mix of aspen, oak, and red maple brush with scattered red pine 5-8' tall throughout. Previous notes indicate trenching and potential planting, but stand was never planted and trenches are iffy. This stand will be a mix in 30 years.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		35	Sapling	1	9		
Bigtooth Aspen		30	Sapling	2			
Black Cherry		25	Sapling	3	9		
Northern Pin Oak		10	Sapling	2			
1\16\13. This stand has been updated from a field evaluation for a project on free to grow red pine.							
17	6220 - Alder/willow	Nonstocked	5.1		Unspecified	No	
18	4130 - Aspen	Poletimber Well	8.3	67	111-140	N/A	Hold due to amount of adjacent cutting
Canopy Species		% Cover	Size Class	DBH	Age		
Sugar Maple		5	Pole	8			
Red Maple		10	Pole	7			
Quaking Aspen		85	Pole	7	67		
19	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Well	28.4	65	111-140	N/A	Jack Pine with scattered pole pin oak. Surrounding pine was cut last entry. Lots of dying JP harvest and consider a short contract. Decided at pre-review to let this stand go due to a good amount of oak regeneration established in stand.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		15	Pole	7			
Northern Pin Oak		10	Pole	6			
Sub-Canopy Species		Density	Avg. Height	Size			
Northern Pin Oak		Low	< 5 feet	Sapling			
20	4130 - Aspen	Poletimber Well	33.2	37	141-170	N/A	Below average quality aspen showing some mortality already. Good amount of paper birch as well. 8 -9 inch diameter. Hold 10 years for age class considerations.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		5	Pole	7			
Paper Birch		15	Pole	8			
Quaking Aspen		80	Pole	8	37		
21	122 - Road/Parking Lot	Nonstocked	11.0			No	
22	4130 - Aspen	Sapling Well	19.1	16	Immature	N/A	Stand was cut in 2007 #63-016-05 "Long Divide". Currebtlly, aspen with residual overstory oaks. some scattered oaks in the sapling size class.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		5	Sapling	2			
Black/Red (Hybrid) Oak		5	Log	12			
Bigtooth Aspen		90	Sapling	3	16		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	4130 - Aspen	Poletimber Well	47.5	32	141-170	N/A	Pole stand emerging into harvest time. Good quality that will hold compared to other stands in compartment.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		90	Pole	8	32		
Red Maple		10	Pole	8			
24	4130 - Aspen	Sapling Well	50.0	15	Immature	N/A	Wet pockets in stand. A3 with red maple and residual oak about 6" diameter. Stand was harvested in 2008 #63-016-05 "Long Divide". Previous: stand was very wet when harvest occurred .
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	4			
Red Oak		10	Pole	6			
White Pine		5	Pole	6			
Quaking Aspen		75	Sapling	2	15		
25	42110 - Planted Red Pine	Sawtimber Well	28.2	67	111-140	N/A	Thinned in 2005 #63-059-05 "MSL Red Pine". 120-140 avg. BA overall. Hold and evaluate next entry. Tall trees can add a little more diameter if held.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log	14	67		
26	6127 - Lowland Pine	Sawtimber Medium	3.3	93	1-50	N/A	Very wet stand of spruce with some large scattered white pine. Pretty much inoperable.
Canopy Species		% Cover	Size Class	DBH	Age		
Balsam Fir		15	Pole	5			
Quaking Aspen		10	Pole	6			
Black Spruce		10	Pole	7			
Red Maple		15	Pole/Log	7			
White Pine		50	Log/Pole	10	93		
Sub-Canopy Species		Density	Avg. Height	Size			
Tag Alder		Low	5 - 10 feet	Tall Shrub			
Balsam Fir		Low	5 - 10 feet	Sapling			
White Pine		Low	5 - 10 feet	Sapling			
27	320 - Upland Shrub	Nonstocked	2.1			No	Filling in with white pine scrub.
28	4130 - Aspen	Poletimber Well	19.5	36	141-170	N/A	Few scattered oaks in a pole sized aspen stand. Check in 10 years.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		80	Pole	8	36		
Black/Red (Hybrid) Oak		5	Pole/Log/Sap	9			
Red Maple		15	Pole	6			
29	4130 - Aspen	Sapling Well	11.9	26	Immature	N/A	Stand was cut last entry. Some residual oaks left. Previous: Some of the residual oaks are dying. Does not appear to be oak wilt.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		10	Sapling	2	25		
Quaking Aspen		80	Sapling	3	26		
Red Oak		5	Log	14			
Northern Pin Oak		5	Sapling	1			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 6.5 58 1-50 N/A Stand is a mix of oaks maple and white pine with aspen scattered throughout.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole	6	58	Ironwood	Low	10 - 20 feet	Sapling
Bigtooth Aspen	20	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
White Pine	20	Log	15					
Hemlock	5	Pole	8					

31 500 - Water Nonstocked 1.5 No

32 4130 - Aspen Sapling Well 18.6 26 Immature N/A Stand was cut last entry. Some residual oaks were left.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	5	Pole/Log	9	
White Oak	5	Log	13	
Quaking Aspen	90	Sapling	2	26

33 6229 - Mixed lowland shrub Nonstocked 3.0 No

34 42200 - Natural White Pine Sawtimber Medium 7.2 112 51-80 N/A Large White Pine with some mixed understory. Nice mature stand. Leave for diversity.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	80	Log/XLog	16	112	Red Maple	Low	5 - 10 feet	Sapling
Red Pine	7	Log/XLog	14		Aspen (spp.)	Low	5 - 10 feet	Sapling
Red Oak	13	Log	13					

35 4310 - Pine, Oak Mix Sawtimber Well 6.8 110 1-50 N/A Stand was cut 2 entries ago, red maple regen throughout. heavy browse on maple regen. Remove oak overstory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Log	17	110	Red Maple	Low	5 - 10 feet	Sapling
White Oak	10	Log	14					
White Pine	40	Log	14					
Red Pine	5	Log/Pole	10					

36 122 - Road/Parking Lot Nonstocked 1.4 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
37	4130 - Aspen	Sapling Well	30.0	6	Immature	N/A	A3 stand, Cut in 2017 sale #63-034-15 "Long Aspen"																																										
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38	4130 - Aspen	Sapling Well	38.6	6	Immature	N/A	Treated with sale 63-034-15-01. Large White Oak residual scattered.																																										
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39	4133 - Aspen, Mixed Pine	Poletimber Well	18.5	55	111-140	N/A	Stand bordering Long rd. Nice white pine understory. Harvest Aspen and maple. Retain large White Pine and mark other desirable. Protect areas with heavy WP regen as retention pockets.																																										
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40	42110 - Planted Red Pine	Sapling Poor	8.6	10	Immature	N/A	Inconsistent RP plantation. RP is 5-7 feet tall and healthy where present. The rest is pretty much open. Replanted in 2015 look to stand to south for more details should be merged in future.																																										
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41	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.7	66	81-110	N/A	Mixed stand to leave for next entry.																																										
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42	4310 - Pine, Oak Mix	Sawtimber Well	7.2	67	141-170	N/A	Stand is on ridge along rd. Mix of oak and white pine. Harvest oak and aspen, mark white pine where thick.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
43	4130 - Aspen	Sapling Well	18.8	15	Immature	N/A	Stand was final harvested in 2008. All oak under 6" was left.																																													
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44	4131 - Aspen, Oak	Poletimber Well	57.0	26	51-80	N/A	Large volume of Oak mix overstory. Consider overstory removal. Thick red maple whips in spots. This stand was mis-typed as 3" A3 last entry.																																													
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45	4199 - Other Mixed Upland Deciduous	Sawtimber Well	27.9	88	141-170	N/A	Tall mature aspen with lots of dying oak. Pocket of red pine in the S/SW. Recommend cutting sooner than later.																																													
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46	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	11.4	20	1-50	N/A	Scattered white pine in old opening filling in with red maple and aspen.																																													
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47	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	33.9	16	51-80	N/A	Cut during a previous entry. Good looking white pine overstory. Red Maple and oak mix understory																																													
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Red Maple	35	Pole/Sapling	5	16																																																
48	4131 - Aspen, Oak	Poletimber Well	0.8	26	51-80	N/A	Large volume of Oak mix overstory. Consider overstory removal. Thick red maple whips in spots. This stand was mis-typed as 3" A3 last entry.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																												
49	4130 - Aspen	Poletimber Well	38.1	36	111-140	N/A	Stand is mostly aspen with scattered oaks and maple. growing well, 6-8" dia. Check next entry																												
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50	4124 - Red with White Oak	Poletimber Medium	18.0	40	1-50	N/A	Stand is more open following previous harvest. A mix of oak with aspen understorey.																												
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51	4130 - Aspen	Sapling Well	7.7	26	Immature	N/A	stand is a sapling size with overstorey oaks concentrated in the southern portion of stand. some scattered oak saplings mixed in. Stand was cut in 1997. 2" spec on sale.																												
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52	4130 - Aspen	Sapling Well	19.5	26	Immature	N/A	Stand should be checked i ten years for regeneration. Aspen is pretty good diameter already and some seems to be of poorer quality and may want to cut earlier than later. There is a patch of planted white pine on the south edge of the stand.																												
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53	42120 - Planted Jack Pine	Poletimber Well	21.4	70	81-110	N/A	Planted jack pine with red maple/oak understorey. Stand is deteriorating fast. Should have been harvested previously. Cut all trees. Harvest asap chapter 7. Harvest in 2023.																												
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54	42200 - Natural White Pine	Sapling Well	8.9	32	111-140	N/A	Stand of young WP with a few overstorey oak.																												
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55	4124 - Red with White Oak	Sawtimber Well	31.6	90	81-110	N/A	Stand was site conditioned last entry to let regeneration grow. Flnal harvest this entry. chapter 7 and harvest in 2023 as oak decline is in effect as stated in previous notes. -Previous notes A mix of red and white oak over an understorey of aspen. Oak decline in effect. Harvest and restart																												
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57	4126 - White, Black, N. Pin Oak	Poletimber Well	18.3	63	1-50	N/A	Oak with scattered white pines. ORV trail through stand.																																	
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58	4131 - Aspen, Oak	Sapling Medium	83.5	18	Immature	N/A	Stand was cut last entry. Overstory of large Oak remains. Losing some of the large oak. Area was hit hard with Spongy moth over last few years. Signs of oak decline also. HARvest overstory oak asap... chapter 7 to current year harvest 2023. Exclude areas of more pure aspen on and above the ridge to west.																																	
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59	4130 - Aspen	Sapling Well	15.3	26	Immature	N/A	Aspen with a few scattered oak left following previous harvest.																																	
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60	4123 - Red Oak	Sawtimber Well	80.4	85	111-140	N/A	Stand is mix of oak with red maple. Some scattered white pine. West side of stand is atop steep ridge at south end. There is oak decline present in the stand, but not as prevalent as in the surrounding stands. in the compartment. Conduct a partial removal this year and remainder later this entry or next entry.																																	
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61	4132 - Aspen, Jack Pine	Sapling Well	6.4	36	111-140	N/A	Hillside along ORV trail. Filling in with aspen and pine. Watch for further damage due to hill climb in area.																																	
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62	4130 - Aspen	Poletimber Well	30.6	38	81-110	N/A	Transitioning to pole size.																																	
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63	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	22.1	30	81-110	N/A	Strieff Rd runs through stand. Stand is a mix with red pine to the west and young oak to the east with aspen and jack pine throughout. Stand was supposed to naturally regenerate to JP following previous harvest. Stand is natural mix.																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
64	42110 - Planted Red Pine	Sawtimber Well	19.4	68	81-110	N/A	Stand was thinned last entry as sale #63-005-15 "102 Pine". Rows were cut from the western most portion due to close spacing of the residuals, trees still have orange marks. Final harvest next entry with adjaent 3rd row thin.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log	12	68	Northern Pin Oak		Low	< 5 feet	Sapling
65	4139 - Aspen, Mixed Deciduous	Poletimber Well	29.9	38	111-140	N/A	Mixed regen of relatively poor shape. Crooked stems, etc. Let it go until merchantable size and analyze.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Oak		5	Sapling	4						
Bigtooth Aspen		45	Pole	6	38					
Red Maple		50	Pole	6						
66	4110 - Sugar Maple Association	Sapling Poor	14.6	17	Immature	N/A	Mixed brush between plantation strips.			
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		20	Sapling	2						
Black Cherry		80	Sapling	2	17					
67	310 - Herbaceous Openland	Nonstocked	13.0	2022		4211 - Planted Red Pine	Clearcut awaiting RP regeneration. Trenched August 2022.			
68	629 - Mixed non-forested wetland	Nonstocked	12.0	0		No	Open wetland in center surrounded by flooded area with dead and dying fir and some ash.			
69	42110 - Planted Red Pine	Poletimber Well	24.8	30	141-170	N/A	Third row thin -Previous Notes Stand was hand planted in 1993. Growing well and about to transition into the pole size class.			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Pole	6	30					
70	42220 - Natural Jack Pine	Sapling Medium	26.5	28	1-50	N/A	Regenerating jack pine stand.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		85	Sapling	4	28					
Bigtooth Aspen		15	Sapling	4						
71	42220 - Natural Jack Pine	Sapling Well	13.5	15	Immature	N/A	Well established, good quality jack pine with oak mixed. Stand was clear cut in 2008. #63-033-05 "SE Mix".			
Canopy Species		% Cover	Size Class	DBH	Age					
Red Oak		10	Sapling	2						
Jack Pine		90	Sapling	3	15					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	4122 - Oak, Pine	Poletimber Well	9.2	97	81-110	N/A	Oak and Jack Pine mix. Stand is old and held last time for age class diversity. Final harvest this entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Oak		45	Pole/Log	8	97	White Oak	
Red Oak		20	Pole	8		Density	
Jack Pine		35	Pole	9		Avg. Height	
						Size	
						Sapling	
73	4310 - Pine, Oak Mix	Sapling Poor	16.0	3	1-50	N/A	Stand was cut previous entry.
Canopy Species		% Cover	Size Class	DBH	Age		
White Oak		15	Sapling	1	3		
Red Oak		30	Sapling	1			
Jack Pine		55	Sapling	1	3		
74	42220 - Natural Jack Pine	Poletimber Medium	136.9	25	141-170	N/A	Sale was cut with a 6" diameter limit in 1997. The residual from the last diameter cut is mature and starting to show signs of decline. Either do another diameter cut to get the mature trees or leave for smaller diameter to reach maturity and lose the larger trees. Possibly split out areas that need treatment more than others....
Canopy Species		% Cover	Size Class	DBH	Age		
Jack Pine		80	Pole	6	25		
Northern Pin Oak		20	Pole/Sapling	5			
75	42110 - Planted Red Pine	Sawtimber Well	50.1	82	51-80	N/A	All trees, but RP cut last entry. Hold this stand until adjacent stand 78 is final harvested in the future for age class considerations in the compartment.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log	12	82		
76	42210 - Natural Red Pine	Poletimber Poor	28.4	78	1-50	N/A	Stand was seed tree cut in 2009 as sale #63-018-08 Leave for now for smaller regen to grow.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		75	Pole/Log	8	78	Jack Pine	
Jack Pine		25	Pole	6		Density	
						Avg. Height	
						Size	
						Sapling	
77	4123 - Red Oak	Poletimber Well	20.1	22	1-50	N/A	Harvested in 2020. Strief Jack. Some scattered overstory oak left. Heavy regeneration of jack pine and natural red pine. Stand was originally to be interplanted, but natural regen is very good, no need.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern Pin Oak		25	Pole	5		Northern Pin Oak	
Red Oak		75	Pole	6	22	Jack Pine	
						Density	
						Avg. Height	
						Size	
						Sapling	
78	42110 - Planted Red Pine	Sawtimber Well	13.0	81	81-110	N/A	Very nice red pine that is tall, but can use more diameter. Thin basal area down to 120.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log/Pole	12	81		
79	42110 - Planted Red Pine	Sapling Well	17.4	7	Immature	N/A	Stand was harvested and re-planted last entry. Looks good.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Oak		5	Sapling	1	7		
Red Pine		80	Sapling	1	7		
Jack Pine		15	Sapling	1	7		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																											
80	42220 - Natural Jack Pine	Sapling Medium	47.5	21	Immature	N/A	Relatively small diameter JP.																											
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Red Oak	10	Sapling	2																															
Bigtooth Aspen	10	Sapling	2																															
81	42250 - Pine, Oak	Poletimber Poor	6.3	35	81-110	N/A	Smaller jack pine that is kind of sparse mixed with oak. Hold for now and consider harvest next entry.																											
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82	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	82.6	17	Immature	N/A	Stand was cut in 2006 sale #63021-05 "East Side Jack"																											
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83	42220 - Natural Jack Pine	Sapling Medium	34.9	19	Immature	N/A	J3 regen that is patchy in spots, but overall pretty good.																											
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84	4126 - White, Black, N. Pin Oak	Poletimber Poor	25.5	22	1-50	N/A																												
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85	42210 - Natural Red Pine	Sawtimber Well	37.3	83	81-110	N/A	Stand was thinned last entry. Could stand a little more diameter despite age. Age class considerations to hold for now. Looks very good. Look over next entry.																											
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86	42110 - Planted Red Pine	Sawtimber Well	65.7	80	141-170	N/A	Very nice and open RP stand. Consider thinning one more time to delay final harvest one more entry for age class considerations within surrounding area.																											
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87	42210 - Natural Red Pine	Sawtimber Poor	54.7	83	1-50	N/A	Stand appears to have been seed tree harvest last entry. Overstory red pine with jack pine and an understory of mixed oak and jack pine. Time to remove RP overstory or the understory will be too big in the future. Lots of oak coming in.																											
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88	6220 - Alder/willow	Nonstocked	8.6			No																																										
89	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	90.7	77	111-140	N/A	Stand is mature mixed deciduous and white pine. The ground is quite variable with lots of included low open wetlands. There is very nice white pine regen throughout that could benefit from being released. Some white pine that is entering pole size as well. Find a diameter range to remove the overstory while retaining under 6" and super large white pine. Allow for acreage limits for treatment due to wet areas. Eastern portion graduates to riparian influence and eventually Muskegon river. Any treatment possible is these areas should consider River guidelines.																																									
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90	42120 - Planted Jack Pine	Sapling Well	37.3	28	Immature	N/A	Stand appears to have been planted, as rows evident in places. Mostly jack pine with some slightly larger red pine in overstory. Mixed oak in understory.																																									
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91	42110 - Planted Red Pine	Sawtimber Well	21.8	80	171-200	N/A	Consider CC. Access challenges. Will need to find suitable access across lower area and a crossing area for stream.																																									
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92	6115 - Lowland Ash	Poletimber Medium	30.5	62		N/A	Stand is lowland black ash that is underwater at times of the year. Tag alder and a few spruce/balsam. Most of the ash is dead/dying due to EAB																																									
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93	320 - Upland Shrub	Nonstocked	3.0	0		4319 - Mixed Upland Forest	Results of old strip cut. Mixed upland brush at this point. See what develops in time.																																									