



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42089

Entry Year 2021

Acreage: 1,728

County Luce

Management Area: 8 Mile Corner

Revision Date: 2019-08-13

Stand Examiner: Jennifer Burnham

Legal Description:

T47N R11W Sections 1, 12 & 13

Identified Planning Goals:

Timber management, wildlife habitat, and recreation are the main uses of the compartment. The overriding goal is to maintain or improve the forest health, productivity and diversity of the area to promote and enhance these uses. Treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

The compartment is almost entirely upland soils and cover types, with only the northern most portion of the compartment containing lowland soils and cover types. The primary soil type within the compartment is Kalkaska sand. The major cover types associated with the Kalkaska sand are aspen, northern hardwoods, natural white pine, and a few red pine plantations. The lowland areas consist of muck soils with spruce and mixed swamp conifer cover types. Topography throughout the compartment is level with one prominent ridge running east/west in Section 1 separating the swamps from the upland areas.

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

The compartment is a contiguous block of State land with the exception of a few privately owned parcels in Section 13. The compartment is bordered by State land to the north and a mix of State land and several small private ownerships to the south, east and west. Development around the area is low. Land Use consists primarily of hunting as well as other forms of general recreation such as snowmobiling, sightseeing and berry picking.

Unique Natural Features:

MNFI lists the potential for red-shouldered hawk, goshawk, great blue heron rookery, black-backed woodpecker, spruce grouse, eagle, and osprey, Potential for moose and wolf. Potential for incurvate emerald, frigga fritillary, freija fritillary, and ebony boghaunter in boggy areas. Potential for wood turtle. Potential for calypso orchis, lapland buttercup, ram's head lady's slipper, round-leaved orchid and limestone oak fern in cedar swamps.

Archeological, Historical, and Cultural Features:

The Bureau of History does not list any historical features within the compartment.

Special Management Designations or Considerations:

There are no Special Management Designations.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Camp One Creek is a designated trout stream and flows west to the South Branch of the Two Hearted River. This creek most likely serves as a refuge for juvenile brook trout during times of high flows and warmer weather. Any treatments proposed in stands with aspen as a main component should utilize a 300 ft buffer along this creek.

Wildlife Habitat Considerations:

Compartment 89 lies in central Luce county and is part of the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies within the 8 Mile Corner Management Area and has ruffed grouse, Blackburnian warbler, white-tailed deer and pileated woodpecker as featured species. The compartment is fairly diverse with a good mix of habitat types. Species composition of stands is also quite diverse. Wildlife objectives will seek to maintain that diversity. The compartment is heavily used for hunting recreation.

Wildlife objectives will be achieved by the retention of hard and soft mast producing trees, wildlife den and nest trees and snags in harvested stands and the preservation of conifer components in aspen and hardwood stands. Some large aspen will be retained in stands for future softwood snags. Many stands will retain large white pine as a component. Soft mast (cherry) is present in the compartment and will be retained in harvested stands. Hardwood stands are likely to contain

vernal pools which will be protected during harvest operations to preserve wetland wildlife habitat. White-tailed deer, black bear, fisher, marten, coyotes, gray wolves, ruffed grouse, woodcock, and snowshoe hare are expected to use this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for limestone/dolostone in the UP. A gravel pit is located one-half mile to the east and there should be potential. There is no economic oil and gas production in the UP.

Vehicle Access:

Located 11 miles northwest of Newberry, primary access is via County Roads 415 & 422 as well as Camp One Road. A network of lesser forest roads (two track dirt roads) transects the compartment providing ample vehicle access. Access can also be gained via the designated ORV and snowmobile trails which are found within the compartment boundary. Several abandoned/closed roads used for past timber sales are also found throughout the area.

Survey Needs:

Potential need for a survey to complete harvests in section 1.

Recreational Facilities and Opportunities:

Recreational facilities include the Silver Creek ORV Trail. Opportunities for recreation include hunting, hiking, berry picking, wildlife/nature viewing, snowmobiling and ORV riding.

Fire Protection:

The low quantity and Potfragmented hazard fuels make large fire runs not likely and risk to private property should be low. Generally upland types and good road network provides good access by heavy wheeled equipment for fire suppression activities.

Additional Compartment Information:

The following reports from the Inventory are attached:

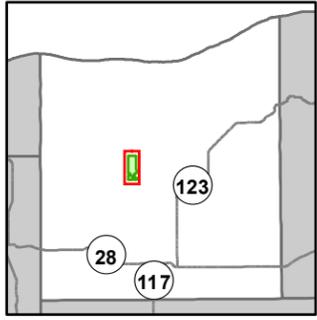
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

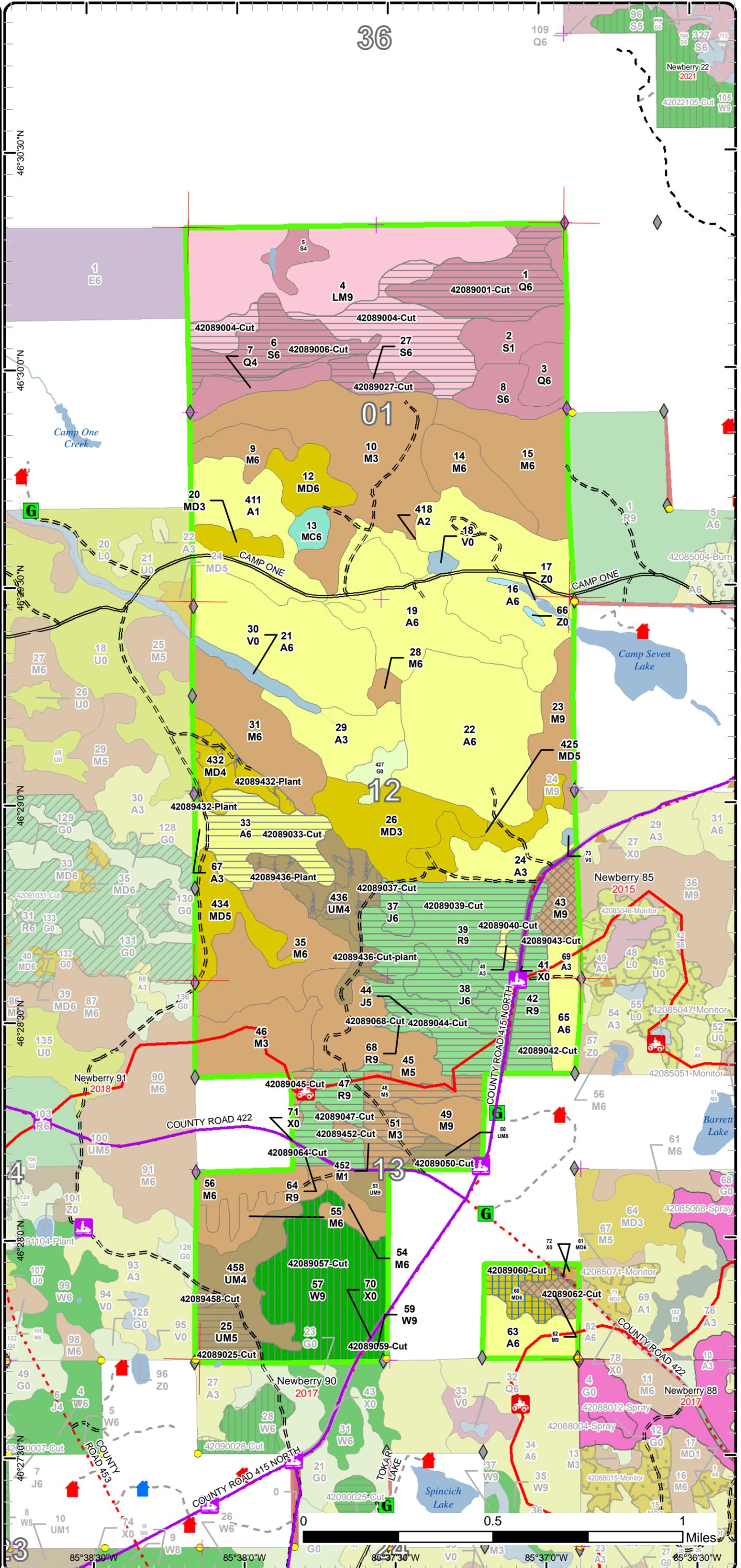
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 89
 T47N, R11W, Sec. 1, 12, 13
 County: Luce
 Unit: Newberry
 Mgmt Area: 8 Mile Corner
 YOE: 2021
 Acres: 1,728 GIS Calculated
 Examiner: Jennifer Burnham
 Map Revised: 12/19/2019
 Map Phase: Post-Review

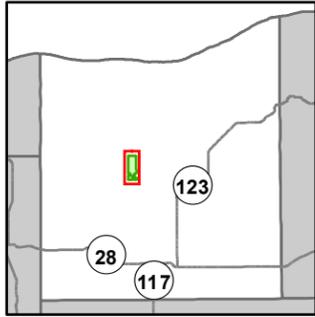


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- 🚙 ORV Trails
- 🚙 Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- 🏠 House
- ▲ Berms
- G Gate
- Compartment Boundary
- Selection (Group, Single Tree)
- Planting (tree species)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub

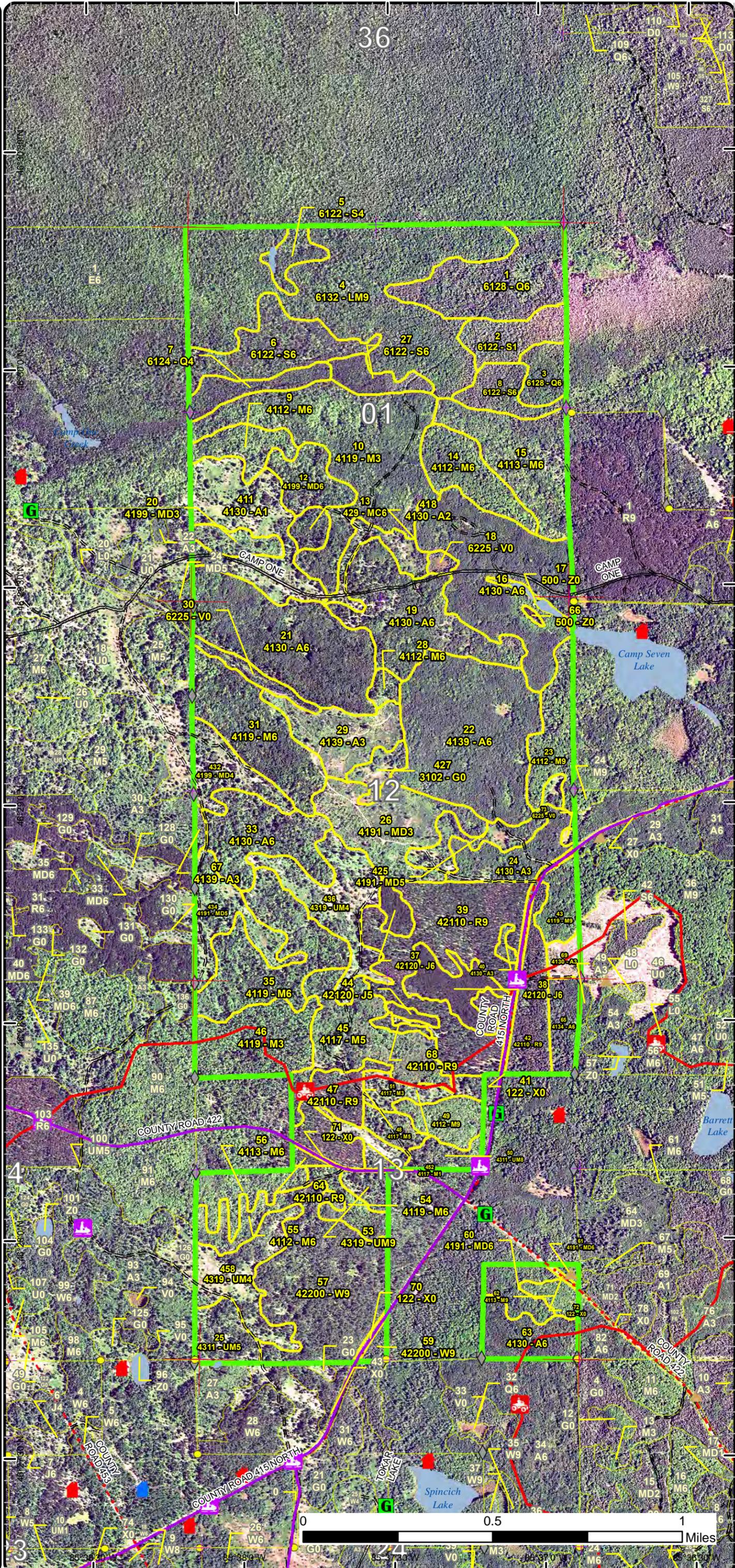


Stand Boundary Map

Compartment: 89
 T47N, R11W, Sec. 1, 12, 13
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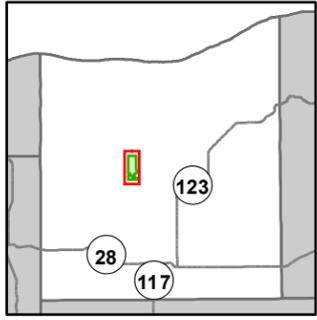


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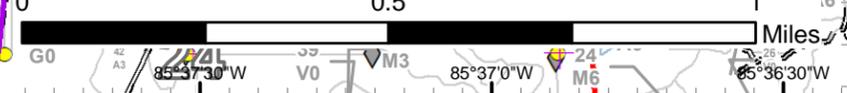
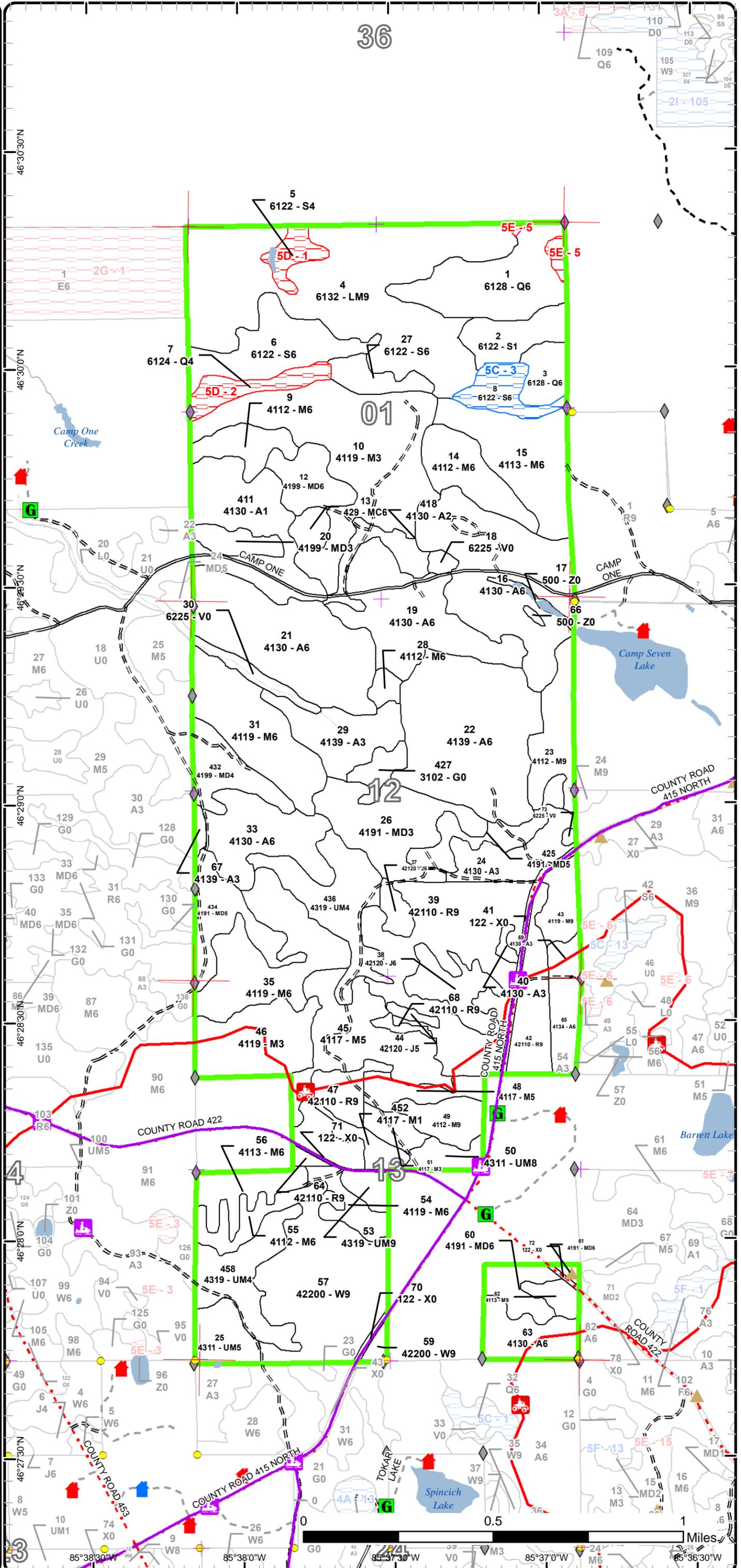


Special Conservation Areas & Site Conditions Map

Compartment: 89
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- Lakes and Rivers
- 🏠 Cabin
- 🏠 House
- ▲ Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 89

Year of Entry 2021

Jennifer Burnham : 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	32	24	160	128	85	35	0	0	0	0	0	0	0	0	0	0	0	464
Bog	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	0	0	0	12	0	59	0	0	0	0	0	0	0	71
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	140
Lowland Spruce/Fir	0	0	0	0	0	0	0	18	0	9	58	0	0	0	0	0	0	0	85
Mixed Upland Deciduous	0	51	0	0	0	60	0	0	0	14	0	0	0	0	0	0	0	17	142
Northern Hardwood	0	0	43	8	256	0	0	0	0	11	0	0	0	0	0	0	0	151	469
Red Pine	0	0	0	0	0	0	0	25	103	0	0	0	0	0	0	0	0	0	128
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Upland Mixed Forest	0	0	0	0	29	35	0	0	15	16	0	0	0	0	0	0	0	0	94
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	72
Total	32	83	67	168	413	206	35	43	202	50	257	0	0	0	0	0	0	174	1729



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 89
Total Compartment Acres: 1,728

Commercial Harvest - 496
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	37	0	0	0	0	0	0	0	0	37
Jack Pine	27	0	0	0	0	0	0	0	0	27
Lowland Conifers	42	0	0	0	0	0	0	0	0	42
Lowland Mixed Forest	54	0	0	0	0	0	0	0	0	54
Lowland Spruce/Fir	42	0	0	0	0	0	0	0	0	42
Mixed Upland Deciduous	0	0	0	14	0	0	0	0	0	14
Northern Hardwood	32	18	0	0	0	0	0	0	0	50
Red Pine	128	0	0	0	0	0	0	0	0	128
Upland Mixed Forest	30	0	0	0	0	0	0	0	0	30
White Pine	0	0	0	0	72	0	0	0	0	72
Total	391	18	0	14	72	0	0	0	0	496

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	496	0	26	0	0	0	0	0	0	522
Next Step	0	201	193	0	193	386	518	0	0	1490
Total	496	201	219	0	193	386	518	0	0	2012



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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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Approved Treatments:

1	42089001-Cut	42.1	6128 - Lowland Coniferous, Mixed Deciduous	Poetimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest stand leaving wind firm white pine and hemlock. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Spp that are found in the table. <u>Regen:</u> <u>Other</u> Winter harvest. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
4	42089004-Cut	53.8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Final harvest stand leaving wind firm white pine and hemlock. Push some cedar over in clumps to promote layering and hare habitat. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Species that are listed in the table. <u>Regen:</u> <u>Other</u> Winter harvest. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
6	42089006-Cut	31.6	6122 - Black Spruce	Poetimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Final harvest stand leaving wind firm white pine and hemlock. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Spp that are in the table. <u>Regen:</u> <u>Other</u> Winter harvest. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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25	42089025-Cut	14.7	4311 - Pine, Aspen Mix	Poletimber Medium	74	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest stand removing all spp. Leave some scattered large 'wolfy' white pine, around the edges and/or near the wet area to the south.
Specs: Leave any oak if it exists.

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

Acceptable Spp. listed in the table.
Regen:

Other Leave a buffer at the top of hill or where it makes sense, to reduce erosion around the pond in the SW part of the stand. Did not see any
Comment: merchantable oak.

Site Condition

Proposed Start Date: 10/1 /2020

27	42089027-Cut	10.5	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Final harvest stand leaving wind firm white pine and hemlock.
Specs:

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

Acceptable Species that are listed in
Regen:

Other Winter harvest.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

33	42089033-Cut	35.2	4130 - Aspen	Poletimber Well	57	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest removing all spp. Leave some pine of various sizes, 1 for every 2 acres if possible, for retention and seed source. When
Specs: marking red line, mark some larger aspen and conifer to be used as retention.

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

Acceptable Spp. listed in table.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

37	42089037-Cut	5.9	42120 - Planted Jack Pine	Poletimber Well	47	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate
Specs: regeneration of red pine.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide,
Treatments: Aerial - Release

Acceptable Red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

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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
38 42089038-Cut	18.4	42120 - Planted Jack Pine	Poetimber Well	47	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription Specs:</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.										
<u>Next Step Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2020										
39 42089039-Cut	78.0	42110 - Planted Red Pine	Sawtimber Well	70	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription Specs:</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.										
<u>Next Step Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2020										
40 42089040-Cut	2.0	4130 - Aspen	Sapling Well	35	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<u>Prescription Specs:</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.										
<u>Next Step Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release										
<u>Acceptable Regen:</u> Red pine.										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2020										
42 42089042-Cut	22.7	42110 - Planted Red Pine	Sawtimber Well	70	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<u>Prescription Specs:</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.										
<u>Next Step Treatments:</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Burn, Slash										
<u>Acceptable Regen:</u> Red pine										
<u>Other Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2020										



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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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43	42089043-Cut	12.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark to reduce BA to 60-70. Remove crowns with die back and open up areas around crop trees to promote regeneration.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spp. that are listed in the table.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

44	42089044-Cut	2.4	42120 - Planted Jack Pine	Poletimber Medium	47	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Monitoring, Artificial

Treatments: Regen(1yr)

Acceptable Red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

45	42089045-Cut	3.5	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	36	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release

Treatments:

Acceptable Red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

47	42089047-Cut	23.2	42110 - Planted Red Pine	Sawtimber Well	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide,

Treatments: Aerial - Release

Acceptable Red pine.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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48	42089048-Cut	12.2	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	92	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.

Next Step Treatments: Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Planting, Initial Plant; Burn, Slash; Monitoring, Artificial Regen(1yr); SitePrep, Trenching

Acceptable Regen: Red pine

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

50	42089050-Cut	8.8	4311 - Pine, Aspen Mix	Sawtimber Medium	83	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	-----	---------------------------	---------------------	----	-------	---------	----------------------------	-------------	-----------	----

Prescription Specs: Final harvest removing all spp. Leave 1 white pine per acre, where present, as a seed source. Use a diversity of spp, where possible, in the red line for retention.

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

Acceptable Regen: Spp. listed in the table.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

51	42089051-Cut	7.7	4117 - Mixed N. Hardwood - Pine	Sapling Well	28	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	-----	------------------------------------	-----------------	----	------	---------	----------	----------------------------	-----------	----

Prescription Specs: Final harvest. Herbicide, trench and plant, roller chop, and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.

Next Step Treatments: SitePrep, Trenching; Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping

Acceptable Regen: Red pine

Other Comment: Allow for chipping because of small dbh if markets allow.

Site Condition

Proposed Start Date: 10/1 /2020

57	42089057-Cut	69.4	42200 - Natural White Pine	Sawtimber Well	74	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Uneven- Aged	No
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Prescription Specs: Remove all species marking white pine leave trees taking the BA down to around 30-50 with a target of 40. Leave some mature aspen in the red line along the east edge for WLD.

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

Acceptable Regen: Spp. listed in the table.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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59	42089059-Cut	2.9	42200 - Natural White Pine	Sawtimber Well	74	81-110	Harvest	Shelterwood with Retention	4220 - Natural White Pine	Uneven-Aged	No
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Prescription Remove all species, mark to leave maple and white pine that would make for good seed sources. Residual BA of 30-50 with a target of 40.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spp. listed in the table.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

60	42089060-Cut	12.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	86	81-110	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
-----------	---------------------	------	--	-----------------	----	--------	---------	--------------------------	--	-----------	----

Prescription Remove all species, mark to leave maple and white pine that would make for good seed sources. Residual BA up to around 30. Mark some mature aspen and conifer in the red line, where possible, for WLD.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spp. that are found in the table.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

61	42089061-Cut	1.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	86	81-110	Harvest	Seed Tree with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
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Prescription Remove all species, mark to leave maple and white pine that would make for good seed sources. Residual BA around 30.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spp. that are listed in the table.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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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62	42089062-Cut	6.1	4113 - R.Maple, Conifer	Sawtimber Well	96	81-110	Harvest	Group Selection	411 - Northern Hardwood	Two-Aged	No
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Prescription Remove all species, mark to leave maple and white pine that would make for good seed sources. Taking the BA down to 50-70. Mark some cherry for WLD.
Specs:

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

Acceptable Spp, listed in the table.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

64	42089064-Cut	2.0	42110 - Planted Red Pine	Sawtimber Well	69	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	-----	--------------------------	----------------	----	--------	---------	----------	-------------------------	-----------	----

Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

68	42089068-Cut	2.3	42110 - Planted Red Pine	Sawtimber Well	70	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
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Prescription Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.
Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr)
Treatments:

Acceptable Red pine.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

432	42089432-Plant	10.4	4199 - Other Mixed Upland Deciduous	Poletimber Poor	40	1-50	Planting	Interplant	4199 - Other Mixed Upland Deciduous	Uneven-Aged	No
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Prescription Plant oak in areas of low BA.
Specs:

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

Acceptable Mixed deciduous and oak
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 8 /28/2019

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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
436 42089436-Cut-plant	4.4	4319 - Mixed Upland Forest	Poletimber Poor	40	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Treatments: Aerial - Release</p> <p><u>Acceptable</u> Red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
436 42089436-Plant	15.8	4319 - Mixed Upland Forest	Poletimber Poor	40	1-50	Planting	Interplant	4319 - Mixed Upland Forest	Uneven-Aged	No
<p><u>Prescription</u> WLD to plant oak in areas of the stand outside of the red pine planting and areas that have a higher BA.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Upland mix with oak</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
452 42089452-Cut	8.1	4117 - Mixed N. Hardwood - Pine	Sapling Poor	17	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest. Herbicide, trench and plant and/or other treatments to obtain a fully stocked red pine stand. No retention to facilitate regeneration of red pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Burn, Slash; Pesticide, Aerial - Site Prep; Pesticide, Treatments: Aerial - Release</p> <p><u>Acceptable</u> Red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
458 42089458-Cut	1.8	4319 - Mixed Upland Forest	Poletimber Poor	38	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final Harvest removing all spp. Leave a couple white pine. No cut oak, if it exists.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spp. listed in the table.</p> <p><u>Regen:</u></p> <p><u>Other</u> The treatment in this stand will go with the treatment in stand 25.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 521.9

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 89
Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5D	5E
		With Condition	Not Available				
464	464	0	0	Aspen			
11	11	0	0	Bog			
8	8	0	0	Herbaceous Openland			
27	27	0	0	Jack Pine			
70	54	0	17	Lowland Conifers		13	4
140	140	0	0	Lowland Mixed Forest			
85	62	14	9	Lowland Spruce/Fir	14	9	
142	142	0	0	Mixed Upland Deciduous			
469	469	0	0	Northern Hardwood			
128	128	0	0	Red Pine			
6	6	0	0	Upland Conifers			
94	94	0	0	Upland Mixed Forest			
10	10	0	0	Urban			
3	3	0	0	Water			
72	72	0	0	White Pine			
1,728	1,688	14	26	Total Forested Acres	14	22	4
	98%	1%	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	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jennifer Burnham : Examiner

Compartment: 89
Year of Entry: 2021



3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Harvest with stand 3, when it's ready.							
5	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention for stand 1. These areas and the acreage may change after line work is completed.							

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
Comments				

**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	45.8	95	81-110	N/A	OPIC - FMD: Winter cutting would be necessary. Wet spruce stands. Snowmobile trail is no longer used. Gradual grade from swamp to upland - difficult winter hauling.																																
<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>Black Spruce</td> <td>40</td> <td>Pole/Log</td> <td>8</td> <td>95</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	40	Pole/Log	8	95	White Pine	15	XLog/Log	18		Northern White Cedar	10	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Northern White Cedar	Low	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	Black Spruce	Low	Variable	Sapling
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Balsam Fir	Low	Variable	Sapling																																				
Black Spruce	Low	Variable	Sapling																																				
2	6122 - Black Spruce	Sapling Poor	18.0	60	1-50	N/A	Stand appears healthy. Slowly filling in over very wet ground. OPIC - FMD: Wet area, but slowly filling in with regeneration																																
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Quaking Aspen	10	Sapling	4																																				
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	11.5	75	81-110	N/A	BA and dbh still have some growing. Look at stand again in 10 years to see if it is ready for harvest. Stand gets less dense to the north, higher water table from stand 2 flooding. OPIC - FMD: Stand is on low, wet ground with tagalder mixed in. Variety of regeneration is coming in, including Yellow Birch, Red Maple, Cedar, and Hemlock. Pockets of residual spp, which accounts for the plot data.																																
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Tag Alder	Low	10 - 20 feet	Tall Shrub																																				
4	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	139.6	91	81-110	N/A	High and low ground in the stand. Spp are ready to harvest. There is mortality starting in the spruce, fir and aspen. The area to the north has less BA and can be treated at the next entry. OPIC - FMD: Balsam wiped out by spruce budworm (This was a comment from previous entry cycle.) Pockets of E5 with red maple and spruce. Component of white birch and aspen also.																																
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Paper Birch	10	Log/Pole	12																																				
5	6122 - Black Spruce	Poletimber Poor	8.8	85	1-50	N/A	Some trees are hanging on, area is still very wet. OPIC - FMD: 1989 comment: " Old beaver flooding"																																
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6	6122 - Black Spruce	Poletimber Well	33.3	95	81-110	N/A	E/W ridge runs through stand with better timber to the north. OPIC - FMD: Stand does contain cedar, hemlock, tamarack. Slight ridge in western portion of the stand. Winter access. Snowmobile trail is no longer used.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
7	6124 - Lowland Spruce-Fir	Poletimber Poor	13.2	95	1-50	N/A	Slowly filling in with trees, high water table. OPIC - FMD: Tamarack and spruce are main components and are 20-25 feet tall.																																					
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8	6122 - Black Spruce	Poletimber Well	14.1	95	81-110	N/A	Timber is better to the south. OPIC - FMD: OI Stand Year Origin was 1924																																					
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9	4112 - Maple, Beech, Cherry Association	Poletimber Well	14.4	85	51-80	N/A	Regeneration of the maple, birch and cherry look good. Beech is mostly dead with some areas of heavy regen. OPIC - FMD: Hard maple with red maple, beech and some black cherry and white birch. Decent good quality in HM poles. Less quality along south edge of stand (clumps of beech and RM). Slope and gullies along the north side of stand, may not be able to be operated near. Prescribe for treatment - thinning. Reduce BA to 70-80 sq ft. Remove low quality trees. Release good crop trees (9 inch HM mainly). MO of northern hardwoods. Stand thinned as sale #018-11-01, Three Part Hardwoods. Complete 06/10/2013.																																					
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10	4119 - Mixed Northern Hardwoods	Sapling Well	89.6	37	1-50	N/A	Appears healthy. OPIC - FMD: Lots of variability within the stand. South half of stand is more of aspen and north half is more hardwoods. Good component of maple, aspen, white birch, cherry and some balsam and spruce. Residual maple and aspen pockets throughout. Cut in 1982 as sale #13-81. Stand was mostly white birch and hardwoods with some aspen prior to the harvest. Good species and structural diversity within the stand.																																					
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12	4199 - Other Mixed Upland Deciduous	Poletimber Well	16.9	55	51-80	N/A	Wait 10-20 years, shelterwood to keep the diversity in the stand. Poor to fair quality wood. OPIC - FMD: Limby hardwood, and clumps due to sprouting. White birch and red maple with aspen.																																					
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13	429 - Mixed Upland Conifers	Poletimber Well	6.1	120	81-110	N/A	Stand is healthy, wait for more dnh, then harvest.																																			
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14	4112 - Maple, Beech, Cherry Association	Poletimber Well	23.6	96	51-80	N/A	Good regeneration.																																			
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15	4113 - R.Maple, Conifer	Poletimber Well	41.9	95	51-80	N/A	Low BA, harvest when stand 14 is ready.																																			
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16	4130 - Aspen	Poletimber Well	74.8	27	1-50	N/A	OPIC - FMD: T. sale #23-89. Thick A3 with pockets of young A4, just merchantable size. Good WB component, some maple and cherry. Some residual white pine. Survey corner is 85' south of road																																			
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17	500 - Water	Nonstocked	2.6		Unspecified	No																																				
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19	4130 - Aspen	Poletimber Well	53.2	46	51-80	N/A	<p>OPIC - FMD: Lots of stand diversity. Mature pockets of aspen and open areas of younger, healthier aspen. Maintain as all one stand. Treat in 10 years. Good component of small juneberry. M3 understory throughout. Hypoxylon present on aspen; areas where some aspen is showing top dieback. Some nice clones of aspen, too. Pocket of jack pine, spruce, white pine in NW tip; clumps of red maple, hard maple, paper birch and cherry within stand. Comment from 1989 inventory states, "part of this stand resulted from 1981 cutting."</p>																														
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20	4199 - Other Mixed Upland Deciduous	Sapling Well	9.2	6	Immature	N/A	<p>Stand is fully stocked. Good diversity of spp, edge trees have more diameter.</p> <p>Stand harvested via a clearcut as sale #018-11-01, Three Part Hardwoods. Complete 06/10/2013. Regeneration check needed per work instructions.</p> <p>OPIC - FMD: Primarily aspen and white birch. Clumps of maple, both RM and HM. Wide range of diamaters in white birch, small and healthy to large and overmature. Advanced maple understory. Prescribe for harvest. Final harvest. Narrow stand, no retention needed. Leave some white brich as residual (healthy). Advanced maple understory will provide good maple component after the harvest. 99 = hard maple and red maple. MO of aspen with northern hardwoods component. W/L request - leave a few large maple (boundary line trees).</p>																														
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21	4130 - Aspen	Poletimber Well	68.6	31	1-50	N/A	<p>Good diversity, merchantable stems are more common throughout the stand.</p> <p>OPIC - FMD: T Sale # 3-87. Harvested in 1988. Thick A3 - bordering on transitioning to an A6. Aspen, WB, BC, and maple. Pockets of A4 (young, small dbh).</p>																														
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22	4139 - Aspen, Mixed Deciduous	Poletimber Well	85.5	29	1-50	N/A	<p>Good diversity. There are areas where dbh is increasing and BA is picking up. Still areas of smaller stems but healthy.</p> <p>OPIC - FMD: T.Sale #25-88; some residual WP and maple. Areas where harvesting was incomplete. Stand was a mix of maple, aspen and white birch prior to the sale. Now mainly aspen with WB and maple. Mix of all spp, good component of all species. Pockets of M4 - residual. Stand was typed as M3 last entry but now aspen appears to be the dominant spp with WB and maple.</p>																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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23 4112 - Maple, Beech, Cherry Association Sawtimber Well 22.8 96 51-80 N/A Good regeneration, with beech saplings heavier in some areas. Good diversity along the edges.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	65	Log/Pole/Sap	10	96
Red Maple	15	Log/Pole/Sap	10	
Paper Birch	15	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Medium	5 - 10 feet	Sapling
Beech	High	Variable	Sapling
Aspen (spp.)	High	>20 feet	Sapling

Stand thinned as sale #005-11-01, Camp 7 Lake Hardwoods. Completed 09/05/2013.

OPIC - FMD: Overall - stand has good quality HM - good form. Good WB component mainly on stand edges and the N + S ends. Scattered clones of aspen. Areas with WB have more advanced understory (maple). Prescribe for treatment. Thin to release HM crop trees. Reduce BA in WB areas to at least 60 sq ft - get some WB stump sprouting. Leave a component of large aspen but remove some also.

24 4130 - Aspen Sapling Well 21.4 18 Immature N/A Healthy stand, starting to become merchantable.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	45	Sapling	3	18
Bigtooth Aspen	35	Sapling	3	

OPIC - FMD: 415 Aspen, sale #27-01. Sale completed on 11/19/01. A3, young aspen, thick and 15 ft tall avg. Pockets of WB left as residual from the sale. Stand was originally aspen with maple and WB. Original note: Beech Bark Scale is present in stand; should cut all beech. Should leave the occasional WP,RP. Small grass types are mixed within stand.

25 4311 - Pine, Aspen Mix Poletimber Medium 14.8 74 51-80 N/A Plains looking aspen and white pine, an opening filling in with listed species.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole/Log	8	74
White Pine	45	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	Sapling
Serviceberry (Juneberry)	Low	10 - 20 feet	Tall Shrub
Red Pine	Low	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling

OPIC - FMD: No planting done by State; land in S1/2 of SW1/4 was obtained by ExUSA, though. ***Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected.

26 4191 - Mixed Upland Deciduous with Conifer Sapling Well 41.5 6 Immature N/A Stand looks good. Excellent diversity.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling	2	6
Black Cherry	15	Sapling	3	
Red Maple	20	Sapling	2	
Beech	15	Sapling	3	
Bigtooth Aspen	10	Sapling	2	

Stand harvested via clearcut as sale #005-11-01, Camp 7 Lake Hardwoods. Completed 09/05/2013. Regeneration check needed per work instructions.

OPIC - FMD: Stand is primarily mature aspen with a maple and white birch component. Also a WP and Balsam component. Aspen is showing signs of decline and some mortality. Area of better hardwoods (more HM) in the center of the stand - could be marked through when stand is harvested? Maple within the aspen areas is low quality and limby. Beech dying out. Prescribe for treatment. Clearcut with reserves. Possibly delineate the better hardwood area in middle of the stand during sale prep and mark. Leave a component of WP but not all. 99 = white birch and beech. MO of aspen with a northern hardwoods component. W/L request - leave a few large aspen and a few spruce.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
27	6122 - Black Spruce	Poletimber Well	10.5	95	81-110	N/A	Final harvest leaving white pine and hemlock. OPIC - FMD: Stand does contain cedar, hemlock, tamarack. Slight ridge in western portion of the stand. Winter access. Snowmobile trail is no longer used.																																
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28	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.1	182	51-80	N/A	Good regeneration. Stand thinned as sale #005-11-01, Camp 7 Lake Hardwoods. Complete 09/05/2013. OPIC - FMD: Small 5-6 acre stand of red maple and hard maple. Decent quality. Separated out from adjacent aspen stands for diversity in the immediate area - surrounded by young aspen and mature aspen. Nice hardwood pocket. Treat stand with a thinning. Put up in one sale with the adjacent aspen stand to the south for access.																																
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29	4139 - Aspen, Mixed Deciduous	Sapling Well	26.2	6	Immature	N/A	Good regeneration. Stand harvested via clearcut as sale #005-11-01, Camp 7 Lake Hardwoods. Complete 09/05/2013. Regeneration check needed per work instructions. OPIC - FMD: Mature aspen showing signs of decline and mortality. Pockets of maple - low quality. Good component of white birch. Spruce component along drainage to the north and around small openings. Advanced maple understory throughout. Prescribe stand for treatment. Clearcut with reserves. Leave a component of healthy birch. Leave some spruce along the drainage. ***W/L request - pre-review - leave a few large maple - as boundary line trees. Adjacent sales show that the stand will regenerate well to all species now present in the stand. Stand adjacent to the south has very good mix of aspen, maple and birch regeneration. All species regenerate well in the area. Good red maple and white birch stump sprouting. **2000 comment: Area was under t. sale # 11-82 and never cut. MO of aspen. Will also get white birch and northern hardwoods regen mixed in.																																
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30	6225 - Bog	Nonstocked	7.2		Unspecified	No																																	
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31	4119 - Mixed Northern Hardwoods	Poletimber Well	42.8	35	51-80	N/A	Stand is still working into merchantable stems. Harvest in 10-20 years.																							
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33	4130 - Aspen	Poletimber Well	35.2	57	51-80	N/A	OPIC - FMD: Younger aspen stand. Clones of mature aspen. Semi open in many areas. Overall stand is young aspen with maple, white pine, cherry and spruce. Good structural diversity. Check in 10 years for harvest.																							
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35	4119 - Mixed Northern Hardwoods	Poletimber Well	49.4	36	51-80	N/A	There are still the larger maple trees present. There are patches of more mature timber then moves into less merchantable trees. Wait 10 years or until there is more merchantable wood to harvest.																							
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37	42120 - Planted Jack Pine	Poletimber Well	5.9	47	81-110	N/A	There is mortality and very thin crowns in the stand. The stand will not get better if left. Aspen clones on the S and E edges are of poor quality. Harvest and replant to red pine.																							
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38	42120 - Planted Jack Pine	Poletimber Well	18.4	47	81-110	N/A	Some areas the crowns are okay but most are thin with many trees dead. Blow down along the edges. Harvest now and replant to red pine.																							
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39	42110 - Planted Red Pine	Sawtimber Well	78.0	70	81-110	N/A	South part of the stand has more maple in the understory. RP is 13-18" DBH and has moved out of poles. Fair to good quality 6-8 sticks high. Final harvest and replant to red pine.																							
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40	4130 - Aspen	Sapling Well	2.0	35	1-50	N/A	Poor quality aspen. Harvest and replant with surrounding stand. OPIC - FMD: Clearcut hardwood patch within RP plantation.																															
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41	122 - Road/Parking Lot	Nonstocked	6.2		Unspecified	No	OPIC - FMD: County Road and cleared ROW.																															
42	42110 - Planted Red Pine	Sawtimber Well	22.7	70	81-110	N/A	Stand is moving out of poles, there is a pocket of JP to the south of fair quality with thin crowns and mortality. Final harvest stand and replant to red pine. OPIC - FMD: Planted 1951. Average stand diameter 12-14 inch. Good utility poles. Crossroads Red Pine, sale #42-024-01-1. Sale completed on 08/30/02. Sale #050-07-02. Completed 9/25/07. Stand harvested via thinning as sale #004-11-01, Puzzle Pieces Pine. Completed 07/02/2012.																															
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43	4119 - Mixed Northern Hardwoods	Sawtimber Well	12.2	85	81-110	N/A	Canopy and BA need to be reduced to promote regeneration. OPIC - FMD: Pockets of nicer HM near the RP. Variable stand. Lots of WB and aspen within stand. Main stand is RM and white birch. More WB near the county road. Check for thinning in 10 years.																															
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44	42120 - Planted Jack Pine	Poletimber Medium	2.4	47	81-110	N/A	Blow down and mortality is lower the overall BA of the stand, with the jack pine having very thin crowns. Volume will only decrease with age. OPIC - FMD: Planted in Fall, 1974. Young jack pine stand. Transitioned to a J6. Small diameters.																															
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45	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	43.1	36	1-50	N/A	OPIC - FMD: Black cherry with some aspen mainly. Red maple WB and balsam also components within stand. Very thick stand. 10-15 ft tall on average. (cut for firewood in 1980-85)																															
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46	4119 - Mixed Northern Hardwoods	Sapling Well	35.2	14	51-80	N/A	OPIC - FMD: Stand harvested by selection system as "Crossroads Hardwoods" (023-01-01). Completed 11/17/05. Primarily red maple with some hard maple. Component of hemlock. Good RM regen (stump sprouts 6-7 ft tall). ORV trail runs through stand.																															
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47	42110 - Planted Red Pine	Sawtimber Well	23.2	69	81-110	N/A	OPIC - FMD: Possible light thinning along with stands 39 and 42. Some old logging damage and pockets where BA is higher - could be thinned. ORV trail runs through stand. **Crossroads Red Pine, Sale #42-024-01-1. Sale completed on 08/30/02. 2-0 RP planted Fall, 1950. Stand previously thinned: t.sale #35-82.																																									
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48	4117 - Mixed N. Hardwood - Pine	Poletimber Medium	12.2	92	51-80	N/A	Opening filling in.																																									
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49	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.8	90	81-110	N/A	BA isn't very high, however there is crown die-back. Over all fair quality and holding it would not improve the stand. OPIC - FMD: Sprout-origin red maple stand; some A,F on stand edges. East edge - RM, asp and WP. Most of stand is pure red maple with HM component. Some low quality sawlogs. Clumps of RM. Some decent poles in the 8-9 inch class. Possible thin?																																									
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50	4311 - Pine, Aspen Mix	Sawtimber Medium	8.8	83	51-80	N/A	Harvest to promote regeneration and a better quality stand. OPIC - FMD: Mixed stand; patchy A clones, WP is weeviled. Treat with adjacent stand. Open grown. Large diameter WP are limby and multiple stem.																																									
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51	4117 - Mixed N. Hardwood - Pine	Sapling Well	7.7	28	1-50	N/A	OPIC - FMD: Sprout-origin stand. Firewood cutting area? (Sale 33-91). M3 - 10 ft tall. Pin cherry, black cherry, maple, W Sp. Clumps, semi open in spots.																																									
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53	4319 - Mixed Upland Forest	Sawtimber Well	6.5	83	1-50	N/A	OPIC - FMD: Successional stand from G type; treat only if desirable for wildlife. Some A clones, weeviled WP																																									
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54	4119 - Mixed Northern Hardwoods	Poletimber Well	11.1	83	51-80	N/A	OPIC - FMD: Component of balsam and spruce. Slightly better hardwoods in eastern part of stand.																																													
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55	4112 - Maple, Beech, Cherry Association	Poletimber Well	13.8	36	51-80	N/A	OPIC - FMD: Mix of maple, cherry and balsam fir seedlings. Stand was clearcut for firewood. M3, 2-4 inches in diameter. Some yellow birch regen also.																																													
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56	4113 - R.Maple, Conifer	Poletimber Well	16.8	38	81-110	N/A	OPIC - FMD: Lower quality RM with a component of HM. Dieback (up to 30% in areas) and dead tops in the RM. Lots of sweep, crook, and some rot within the stand. Good balsam component in the understory. Pockets of better quality (crop trees?). Possible shelterwood harvest to release crop trees and advanced understory.																																													
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57	42200 - Natural White Pine	Sawtimber Well	69.4	74	81-110	N/A	White pine having a dbh of 10" or higher are breaking up and have poor crowns. There are some patches that seem to be holding up better than others. Super canopy white pine have very poor crowns, they are about 3-4/acre. Med sized white pine is limby and of poor quality. Any of the larger maple or cherry is dead or dying. Then northern part of the stand seems to be a little better quality but still has quality and poor crown issues. OPIC - FMD: Multiple sizes of white pine throughout the stand. Lots of 8-10 inch dbh WP, very thick in spots. Super canopy WP throughout. Open areas within the stand are more of a W5. One large stand with lots of variability. No planting done by State; land in S1/2 of SW1/4 was obtained by ExUSA, though. ***Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected.																																													
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59	42200 - Natural White Pine	Sawtimber Well	2.9	74	81-110	N/A	<p>White pine having a dbh of 10" or higher are breaking up and have poor crowns. There are some patches that seem to be holding up better than others. Super canopy white pine have very poor crowns, they are about 3-4/acre. Med sized white pine is limby and of poor quality. Any of the larger maple or cherry is dead or dying. Then northern part of the stand seems to be a little better quality but still has quality and poor crown issues.</p> <p>OPIC - FMD: Multiple sizes of white pine throughout the stand. Lots of 8-10 inch dbh WP, very thick in spots. Super canopy WP throughout. Open areas within the stand are more of a W5. One large stand with lots of variability. No planting done by State; land in S1/2 of SW1/4 was obtained by ExUSA, though. ***Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected.</p>																																		
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60	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.4	86	81-110	N/A	<p>Fir and aspen are at max age and starting to fall out of the stand. Spruce is okay and maple is poor quality.</p> <p>OPIC - FMD: Red maple clumps; black stain on sugar maple and forked stems. There is sawlog size red maple present, but it is pulp quality. Thick understory of balsam and some maple 10-15 ft tall. South and west portions of stand have more of a white pine component.</p>																																		
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61	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	1.4	86	81-110	N/A	<p>Fir and aspen are at maximum age before it starts falling out of the stand. Spruce will have reduced BA by next entry. Maple and white pine are of poor quality.</p> <p>OPIC - FMD: Stand is mostly red maple, but a few black cherry, yellow birch are present also. Lots of forked stems. Rolling terrain and ridge through stand. Rm mostly multiple stem, clumps. M2 understory. Ground cover is club moss. Comment from 1989 states: "Stand was thinned non-commercially by a title X crew in 1976."</p>																																		
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62	4113 - R.Maple, Conifer	Sawtimber Well	6.1	96	81-110	N/A	<p>Shelterwood or thin?</p> <p>OPIC - FMD: Stand is mostly red maple, but a few black cherry, yellow birch are present also. Lots of forked stems. Rolling terrain and ridge through stand. Rm mostly multiple stem, clumps. M2 understory. Ground cover is club moss. Comment from 1989 states: "Stand was thinned non-commercially by a title X crew in 1976."</p>																																		
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63	4130 - Aspen	Poletimber Well	19.4	45	51-80	N/A	<p>OPIC - FMD: Young aspen stand, transitioning from an A3 to an A6. Stan was chipped in 1974. Lots of aspen 3-4 inches in diameter. ORV trail runs through stand.</p>																																		
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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	2.0	69	81-110	N/A	Final harvest and replant. Stand harvested via thinning as sale #004-11-01, Puzzle Pieces Pine. Completed 07/02/2012. OPIC - FMD: Possible light thinning along with stands 39 and 42. Some old logging damage and pockets where BA is higher - could be thinned. ORV trail runs through stand. Crossroads Red Pine, Sale #42-024-01-1. Sale completed on 08/30/02. 2-0 RP planted Fall, 1950. Stand previously thinned: t.sale #35-82.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		90	Log	15	69	Balsam Fir		Medium	10 - 20 feet	Sapling
65	4134 - Aspen, Spruce/Fir	Poletimber Well	12.3	39	1-50	N/A	Most of the aspen is in the north. The south moves into a more hardwood, conifer mix. Quality is fair to poor. OPIC - FMD: Nice thick aspen with BF, SP, RM and BC. '89 comment: "Original stand was a mix of hardwood, A, WP, S and F; average quality aspen."			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		45	Pole/Sapling	6	39					
White Spruce		15	Log/Pole	10						
White Pine		10	Log	16						
Sugar Maple		10	Pole/Sapling	5						
Balsam Fir		10	Pole/Sapling	6						
66	500 - Water	Nonstocked	0.8		Unspecified	No				
67	4139 - Aspen, Mixed Deciduous	Sapling Well	2.2	10	Immature	N/A	OPIC - FMD: Harvested in spring of 2009 as sale #036-08. Aspen regeneration already 2 ft tall.			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		55	Sapling	1	10					
Red Maple		30	Sapling	1						
Black Cherry		10	Sapling	1						
68	42110 - Planted Red Pine	Sawtimber Well	2.3	70	81-110	N/A	Stand DBH has moved out of pole size. Final Harvest stand and replant to red pine. OPIC - FMD: Planted 1951. Crossroads Red Pine, sale #42-024-01-1. Sale #050-07-02. Completed 9/25/07. Luce County Road Commission widened the Co Rd 415 ROW (approx 10 ft each side of the road) which runs through this stand. Minimal acreage or volume was affected. Stand harvested via thinning as sale #004-11-01, Puzzle Pieces Pine. Completed 07/02/2012.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		80	Log	16	70	Maple (spp.)		High	10 - 20 feet	Sapling
Red Maple		10	Pole/Sapling	5		Beech		Medium	5 - 10 feet	Sapling
						Black Cherry		Low	10 - 20 feet	Sapling
69	4130 - Aspen	Sapling Well	5.7	2	1-50	N/A	Lots of diversity in the stand. There is around 10 BA of maple and spruce that was left from the harvest. Aspen and other species are around 10' tall. Harvested via Clearcut in 2017 as part of Barrett Lake Mix, #032-15. TCR 10/9/17. OPIC - FMD: Part of a larger stand of aspen in adjacent compartment (Comp 85, stand 52). Treat all as one stand (2013 YOE).			
Canopy Species		% Cover	Size Class	DBH	Age					
Quaking Aspen		75	Sapling	1	2					
70	122 - Road/Parking Lot	Nonstocked	1.4		Unspecified	No	OPIC - FMD: County Road and cleared ROW.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
71	122 - Road/Parking Lot	Nonstocked	1.2		Unspecified	No	OPIC - FMD: County Road and cleared ROW.																																			
72	122 - Road/Parking Lot	Nonstocked	0.8		Unspecified	No	OPIC - FMD: County Road and cleared ROW.																																			
73	6225 - Bog	Nonstocked	0.9		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																			
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411	4130 - Aspen	Sapling Poor	45.3	35	1-50	N/A	OPIC - FMD: Natural encroachment of trees is occurring;																																			
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418	4130 - Aspen	Sapling Medium	12.1	40	1-50	N/A	OPIC - FMD: Natural encroachment of trees is occurring.																																			
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425	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	16.9	40	1-50	N/A	Opening filling in with variety of spp.																																			
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427	3102 - Grass	Nonstocked	7.8		Unspecified	No																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
432	4199 - Other Mixed Upland Deciduous	Poletimber Poor	19.4	40	1-50	N/A	Treat with adjacent stand for burning.																																													
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436	4319 - Mixed Upland Forest	Poletimber Poor	35.1	40	1-50	N/A	OPIC - FMD: Contains some large residual M,W, and S, and occasionally M1/M2 where encroachment is happening. Frost pocket area.																																													
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452	4117 - Mixed N. Hardwood - Pine	Sapling Poor	8.1	17	1-50	N/A	Opening filling in.																																													
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458	4319 - Mixed Upland Forest	Poletimber Poor	28.6	38	1-50	N/A	Opening filling in.																																													
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