



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42110

Entry Year 2019

Acreage: 1,568

County Luce

Management Area: 8 Mile Corner

Revision Date: 2017-08-29

Stand Examiner: Jason Tokar

Legal Description:

T46N R10W Sections 4, 5 & 6

Identified Planning Goals:

Timber management, wildlife habitat, and recreation are the main uses of the compartment. The 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. Timber management (aspen, red pine, upland spruce) will continue with the current sustainable level of management, promoting an array of both age class and structural diversity in the cover types.

Soil and topography:

Upland areas are dominated by two soil types; Kalkaska sand and Liminga-Alcona complex. These upland soils support cover types of aspen, red pine and spruce plantations, and northern hardwoods. There is a scattering of lowland areas primarily in the southern reached of the compartment, dominated by Carbondale, Lupton and Tawas muck soils supporting cedar, spruce and mixed swamp conifer cover types. The terrain throughout the compartment is level to slightly rolling, with a few ridges at the transition from upland to lowland.

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

The compartment is entirely State owned, with a few small private parcels protruding into the boundary. The north, east and south boundaries are primarily State ownership with a mix of small private land owners. A portion of the State land north of the compartment is under Luce County Lease agreement. To the west of the compartment is State land. Development around the area is moderate with many permanent residences to the east and north along County Road 407. The main types of land use of the area are hunting, snowmobile and ORV riding, berry picking, wildlife viewing and timber production.

Unique Natural Features:

MNFI doesn't list any occurrences within the compartment. Potential is there for a variety of flora and fauna including red shouldered hawk, eagle, osprey, moose and wolf.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office 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: None

Fisheries Concerns: There are no waterbodies with fisheries in this compartment so Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 110 lies in central Luce county in the Grand Marais Sandy End Moraine and Outwash ecological sub-section. The compartment is in the 8 Mile Corner Management Area and Blackburnian warbler, pileated woodpecker, ruffed grouse and white-tailed deer are featured species listed for the management area. Red pine, and highly diverse aspen and northern hardwoods comprise much of the compartment with a few grass openings, fir/spruce and swamp conifer stands scattered throughout. Pre-settlement vegetation data suggests that conifers might have been more prevalent in the past than occurs in the forest today.

Conifer retention in hardwood and aspen stands will provide nesting, denning and forage sites and cover. Existing nest and den trees, snags, and woody debris will be maintained in stands where they exist. Structural and species diversity will be maximized by retaining regenerating understory species where they exist. Gray wolves, white-tailed deer, black bear,

coyotes, woodcock and ruffed grouse are noteworthy wildlife species potentially using this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Gravel pits are not located in the area, but there appears to be some sand and gravel potential within the compartment. There is no known metallic mineral potential in this area, and there is no known potential for economic oil and gas production in the UP.

Vehicle Access:

Located 8 miles northwest of Newberry, the compartment is bordered on the north by County Roads 407 and 426. Spring Hill Road, along with a network of forest roads (two track dirt roads) transects the compartment providing extensive vehicle access. Access can also be gained from the south via forest roads. Several abandoned/closed used for past timber sales are also found throughout the area.

Survey Needs:

There are no survey needs at this time for management activities to occur.

Recreational Facilities and Opportunities:

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

Fire Protection:

Potential for large fire runs may be low, because of the hardwood fuel types, grassy openings and scattered Red Pine plantations. Upland ground and network of roads are favorable for fire equipment access. Private property risk is low.

Additional Compartment Information:

Spruce plantations are being harvested due to the presence of Spruce Budworm (SBW) within the compartment and surrounding area. Three of these plantations will be converted to red pine plantations. One of the spruce plantations will be regenerated naturally with an objective of Upland Deciduous with Conifer.

The following reports from the Inventory are attached:

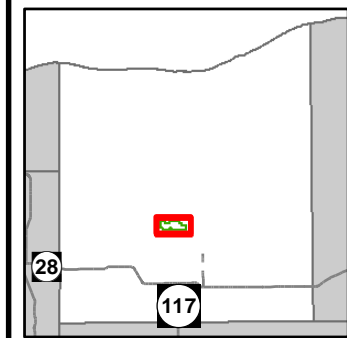
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

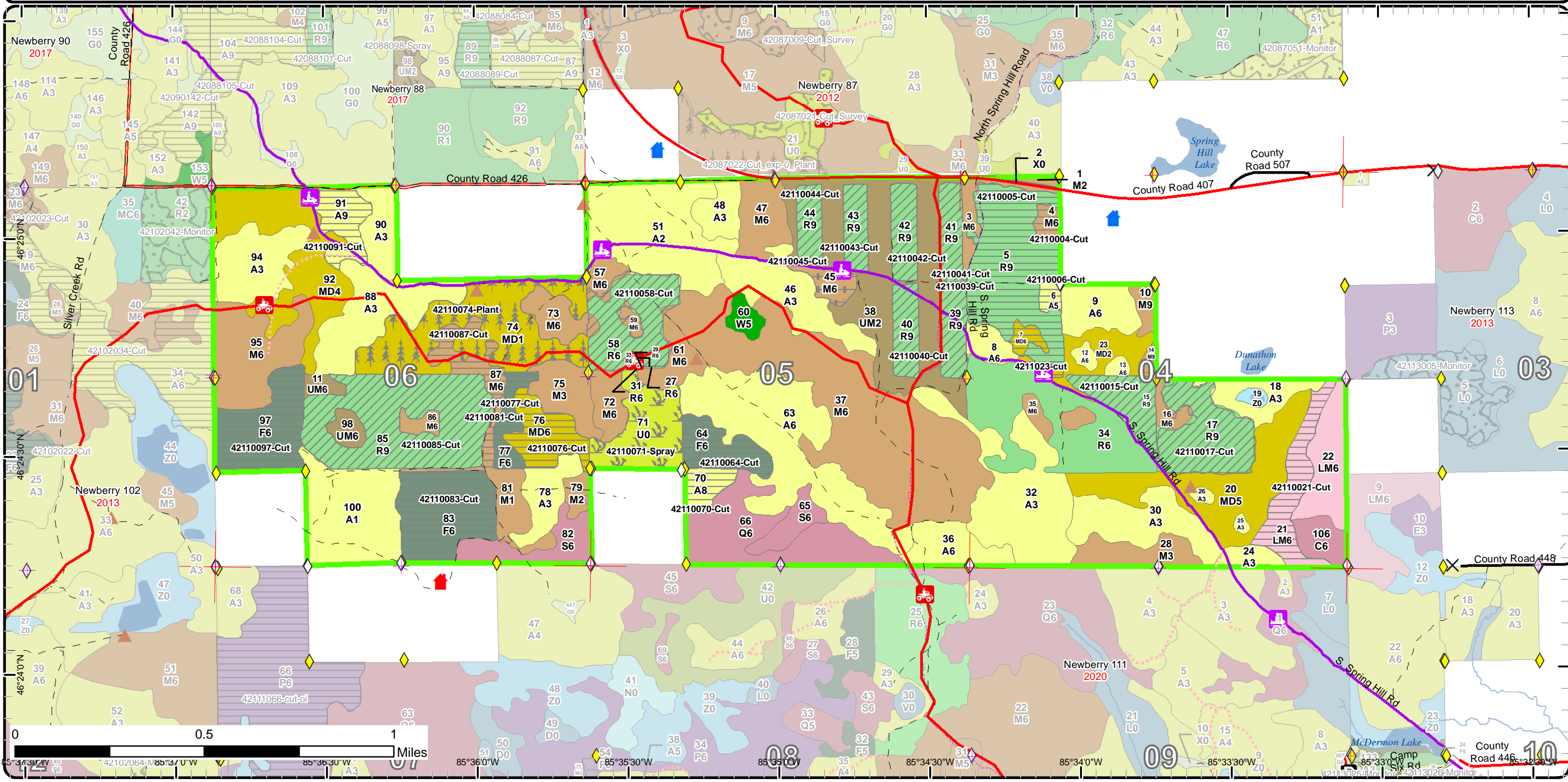
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 110
 T46N, R10W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: 8 Mile Corner
 YOE: 2019
 Acres: 1568.4 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 12/11/2017
 Map Phase: Post-Review

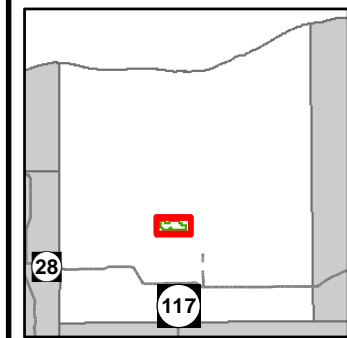


- Miris Corners
- Designated ATV
- Designated Snowmobile Trails
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Planting (tree species)
- Clearcut (w/Reserves)
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Counties
- Gate
- Berms
- Cabin
- House
- Parking Lot
- ORV Trails
- Snowmobile Trails
- Harvest, Overstory Removal
- Pesticide
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water

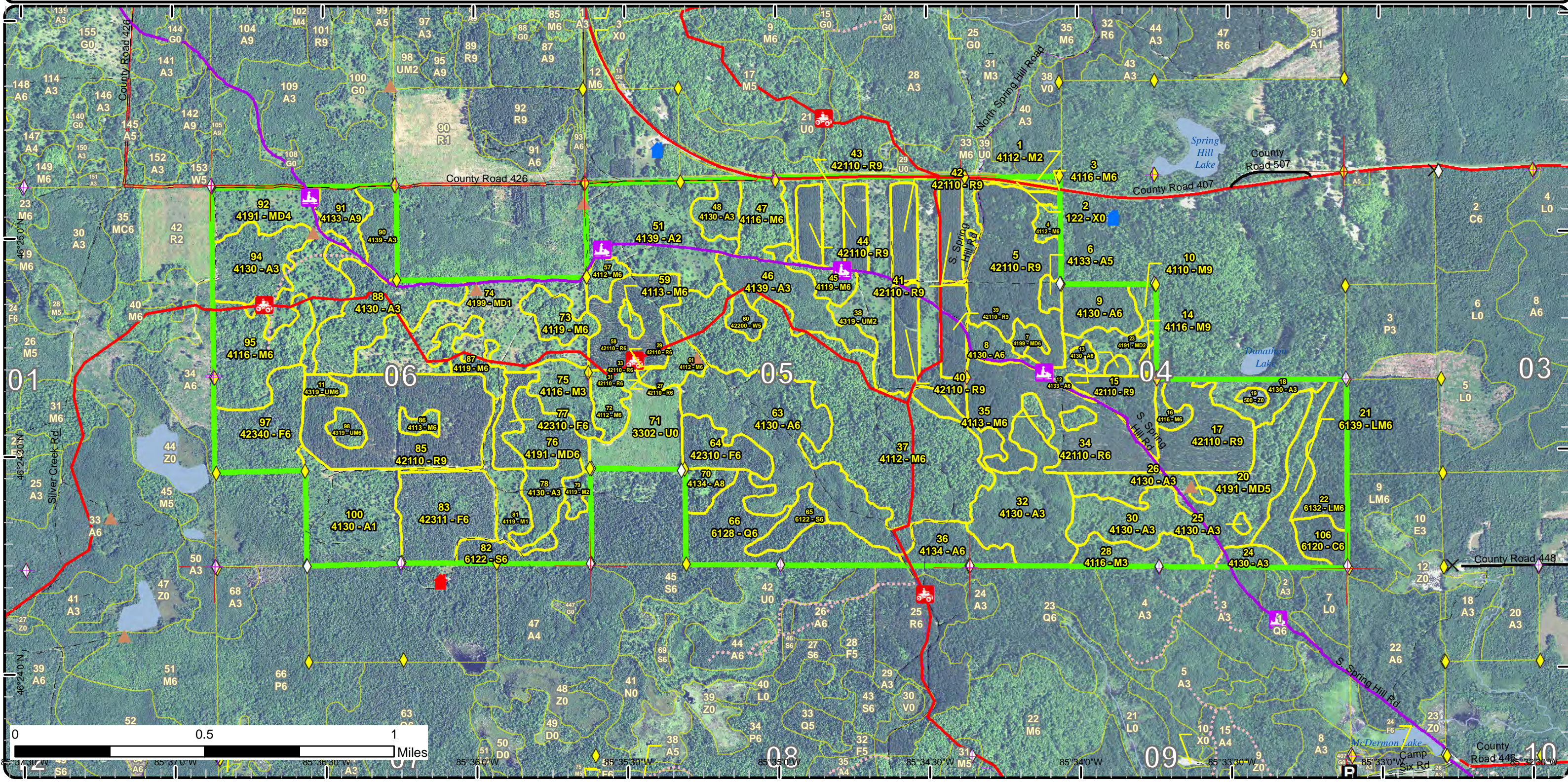


Stand Boundary Map

Compartment: 110
 T46N, R10W, Sec. 4-6
 County: Luce
 Unit: Newberry
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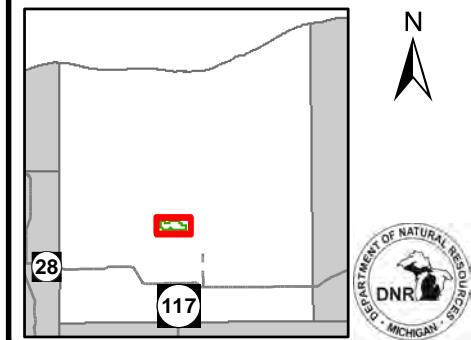


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- Cabin
- House
- P Parking Lot
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Non-Designated Recreational Trail
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
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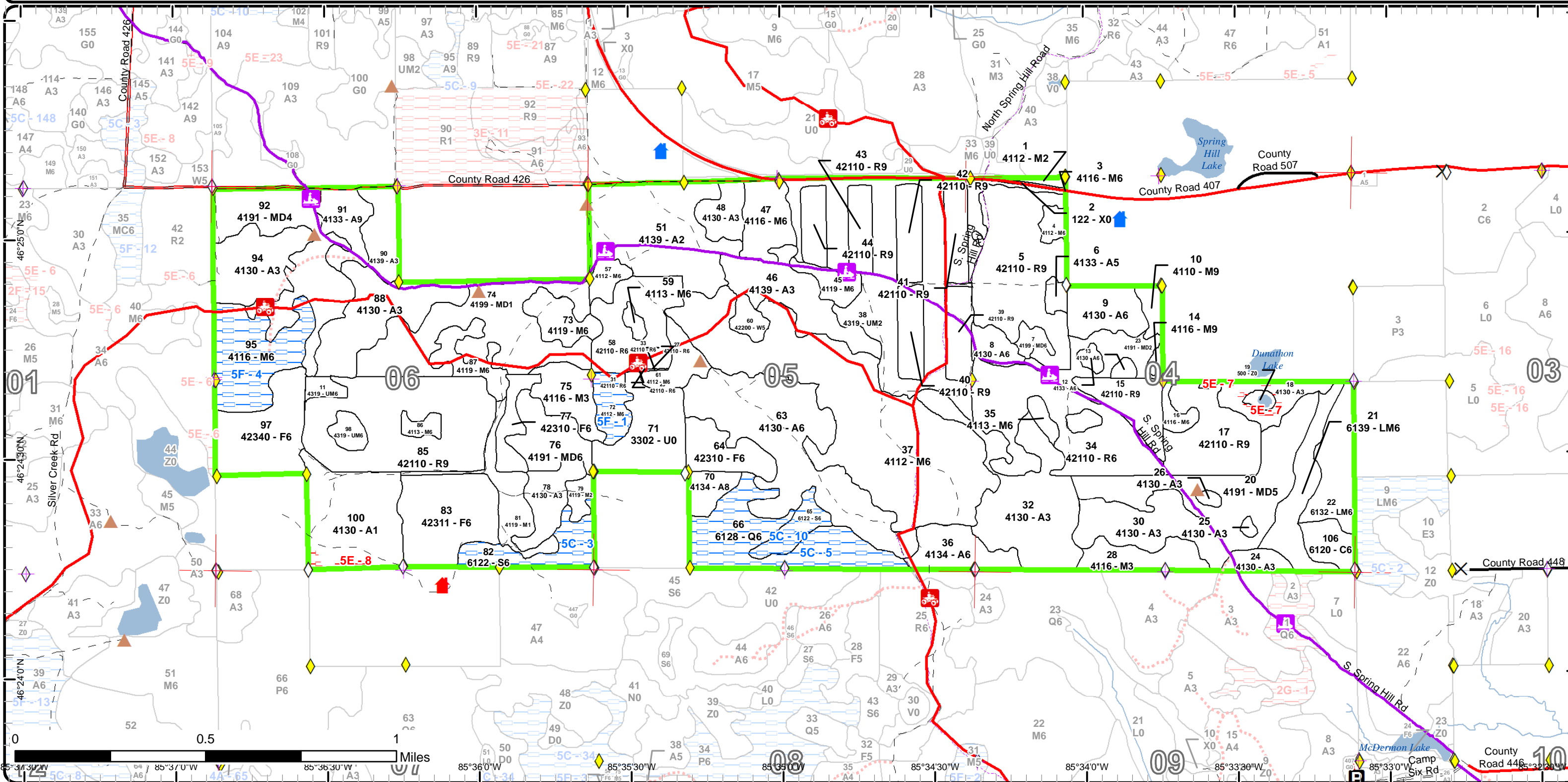


Special Conservation Areas & Site Conditions Map

Compartment: 110
 T46N, R10W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: 8 Mile Corner
 YOE: 2019
 Acres: 1568.4 GIS Calculated
 Examiner: Jason Tokar
 Map Revised: 12/11/2017
 Map Phase: Post-Review



- Miris Corners
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- ◆ Survey Grade GPS Corners
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- Counties
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- ▲ Berms
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- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment 110 Year of Entry 2019



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	152	0	187	0	39	0	13	8	0	0	0	0	0	0	0	0	52	451
Cedar	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	41
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	41	0	0	0	0	0	0	0	0	41
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	17	9	0	0	0	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	57	15	0	0	17	0	4	0	0	0	0	0	0	0	0	91	183
Northern Hardwood	0	15	6	0	14	0	0	0	34	127	0	0	0	0	0	0	0	114	310
Red Pine	0	0	0	0	0	0	93	211	0	0	0	0	0	0	0	0	0	0	304
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	73	76
Upland Spruce/Fir	0	0	0	0	0	0	44	15	31	0	0	0	0	0	0	0	0	0	90
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
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	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	32	167	63	202	14	44	154	239	94	221	9	0	0	0	0	0	0	330	1567



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 110

Total Compartment Acres: 1,568

Commercial Harvest - 437
 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	24	0	0	0	0	0	0	0	0	24
Lowland Mixed Forest	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	23	0	0	0	0	0	0	0	0	23
Northern Hardwood	18	0	0	0	0	7	0	0	0	25
Red Pine	53	0	0	0	0	202	0	0	0	256
Upland Spruce/Fir	90	0	0	0	0	0	0	0	0	90
Total	228	0	0	0	0	202	7	0	0	437

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	437	0	57	0	0	26	0	0	0	520
Next Step	0	128	156	0	128	128	599	0	0	1137
Total	437	128	212	0	128	154	599	0	0	1657



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4	42110004-Cut	3.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	80	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention. This stand will be planted as part of the re-planting of the red pine stand.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

5	42110005-Cut	53.4	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with no retention. Stand is to be burned, trenched and planted to red pine. Include stands 4, 6 and 7 in the harvest to block in the plantation and for ease of prescribed burn holding operations. The Portion of this stand west of Spring Hill Rd will not be replanted.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

6	42110006-Cut	3.1	4133 - Aspen, Mixed Pine	Poletimber Medium	41	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention, stand to be burned and planted to red pine. Harvest with stand 5 to block in the plantation when re-planted.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

7	42110007-Cut	3.5	4199 - Other Mixed Upland Deciduous	Poletimber Well	70	51-80	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention, stand to be burned and planted to red pine. Harvest with stand 5 to block in the plantation when re-planted.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	42110015-Cut	15.7	42110 - Planted Red Pine	Sawtimber Well	61	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin the stand via a "second thinning". Remove about 1/3 of the volume. Remove merchantable aspen, balsam and maple.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

17	42110017-Cut	29.7	42110 - Planted Red Pine	Sawtimber Well	62	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to average BA of 120 sq ft.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/25/2017

21	42110021-Cut	20.4	6139 - Mixed Lowland Forest	Poletimber Well	82	111- 140	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention due to stand being a long, narrow stand. Leave one tree per acre of various species for wildlife benefits.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Spruce, balsam, maple, aspen, white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

39	42110039-Cut	11.0	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
40	42110040-Cut	10.7	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

41	42110041-Cut	10.3	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

42	42110042-Cut	11.2	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

43	42110043-Cut	9.1	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
44	42110044-Cut	8.7	42110 - Planted Red Pine	Sawtimber Well	61	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin. remove approximately 1/3 of the volume, reducing the BA to 120-140.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
45	42110045-Cut	7.2	4119 - Mixed Northern Hardwoods	Poletimber Well	80	51-80	Harvest	Overstory Removal	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Overstory removal. Release the advanced understory. Care must be taken to protect the understory. Could retain pockets of balsam. retain 1-											
<u>Specs:</u> 2 healthy sugar maple per acre if present.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Maple, aspen, cherry, white birch, beech, balsam.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
58	42110058-Cut	31.5	42110 - Planted Red Pine	Poletimber Well	57	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Thin stand to average BA of 120 sq ft.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/25/2017											
64	42110064-Cut	15.4	42310 - Planted Spruce	Poletimber Well	60	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut, no retention, stand to be burned and planted to red pine.											
<u>Specs:</u>											
<u>Next Step</u> Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial											
<u>Treatments:</u> Regen(3yr); Monitoring, Herbicide Use											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
70	42110070-Cut	7.5	4134 - Aspen, Spruce/Fir	Sawtimber Medium	70	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention, small acreage. Leave a few scattered spruce for wildlife benefits.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with maple, cherry, balsam, white pine and spruce

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

71	42110071-Spray	26.0	3302 - Low Density Conifer Trees	Nonstocked	0	Unspecified	Pesticide	Aerial	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Herbicide to eliminate any deciduous competition and promote red pine.

Specs:

Next Step Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 07/24/2017

74	42110074-Plant	56.5	4199 - Other Mixed Upland Deciduous	Sapling Poor	17	Immature	Planting	Interplant	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Plant red oak (wildlife)

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red oak.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

76	42110076-Cut	17.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with retention. Patch retention, to include areas with spruce. Retention up to 5% of the stand acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Planting, Interplant

Treatments:

Acceptable Aspen with maple, beech, spruce, balsam and cherry.

Regen:

Other If stand doesn't regenerate naturally, plant to red pine.

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
77	42110077-Cut	8.9	42310 - Planted Spruce	Poletimber Well	59	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention because stand will be burned and planted to red pine.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

81	42110081-Cut	2.9	4119 - Mixed Northern Hardwoods	Sapling Poor	15	Immatu re	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention, this portion of the stand will be burned and planted to red pine following treatment.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 07/24/2017

83	42110083-Cut	34.9	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	59	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention because stand will be burned for slash reduction. Trench and plant to red pine.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable Planted red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

85	42110085-Cut	64.2	42110 - Planted Red Pine	Sawtimber Well	56	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Second thinning. Systematic thinning. Reduce BA to 110-120

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
87	42110087-Cut	11.1	4119 - Mixed Northern Hardwoods	Poletimber Well	75	51-80	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention, small acreage, lots of edge effect. Leave some large diameter maple in the red line. Advanced regeneration present to
Specs: act as retention. Minimize skid trails to protect advanced maple and aspen regen in stand. Protect the ORV trail

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

Acceptable Maple and aspen with balsam, birch, beech.
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

91	42110091-Cut	13.3	4133 - Aspen, Mixed Pine	Sawtimber Well	67	141- 170	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut. No retention, small acreage and narrow stand with lots of edge. Leave some mature aspen in the red line. Leave 1 tree/acre (7 WP
Specs: and 7 HM)

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

Acceptable Aspen with maple, cherry, white birch, white pine, balsam spruce
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

97	42110097-Cut	30.7	42340 - Upland Spruce/Fir	Poletimber Well	73	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with reserves. Due to SBW concerns, do not leave balsam and spruce. Retain at least 3 retention patches with as much species
Specs: variability as possible. Retention of no more than 5% of the stand acreage.

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

Acceptable Balsam, aspen, maple, spruce, white birch, white pine
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

23	4211023-cut	1.7	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	20	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut, no retention, stand to be burned and planted to red pine. The very western "finger" of this stand. This portion will be included in the
Specs: planting of the red pine plantation following harvest.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial
Treatments: Regen(3yr); Monitoring, Herbicide Use

Acceptable planted red pine
Regen:

Other
Comment:

Proposed Start Date: 07/23/2017

**Total Treatment
 Acreage Proposed: 519.6**

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 110
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5F	5E
		With Condition	Not Available				
452	437	0	15	Aspen		0	15
9	9	0	0	Cedar			
26	26	0	0	Low-Density Trees			
41	0	41	0	Lowland Conifers	41		
41	41	0	0	Lowland Mixed Forest			
26	0	26	0	Lowland Spruce/Fir	26		
184	184	0	0	Mixed Upland Deciduous			
310	267	43	0	Northern Hardwood		43	
303	303	0	0	Red Pine			
76	76	0	0	Upland Mixed Forest			
90	90	0	0	Upland Spruce/Fir		0	
3	3	0	0	Urban			
2	0	0	2	Water			2
5	5	0	0	White Pine			
1,568	1,441	110	17	Total Forested Acres	67	43	17
	92%	7%	1%	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	Available	5F: Evaluated for Forest Health Considerations	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: No sign of SBW as of inventory in June 2017							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jason Tokar : Examiner

Compartment: 110
Year of Entry: 2019

4	Available	5F: Evaluated for Forest Health Considerations	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: No sign of SBW as of inventory in June 2017							

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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4112 - Maple, Beech, Cherry Association	Sapling Medium	1.5	15	Immature	
3	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	6.6	65	51-80	Low quality clumps of red maple and aspen. Some dieback in maple. Maple and cherry in the understory.
4	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.7	80	51-80	Clumps of red maple and dying beech (BBD). Scattered aspen. Low quality red maple stand. Small acreage. Combine with stand 5 as part of clearcut for red pine plantation. Liminga-Alcona complex
5	42110 - Planted Red Pine	Sawtimber Well	53.4	61	171-200	<p>Red pine plantation. Thinned in 2002. Lots of pockets of aspen and maple throughout the stand. Much of the stand has an M2/M3 understory 20 ft tall. Good component of pine sawlogs. Advanced regeneration in the understory along with some merchantable aspen and maple pockets.</p> <p>2017 - Stand has been thinned in the past. Advanced regeneration of maple, beech and some aspen, 20 ft tall. Small pockets of mature aspen and maple within the stand where red pine is not as thick. Evidence of porcupine damage on some red pine. Most of the red pine throughout the stand is 12-16 inch diameter, averaging 14 inches. Southeast corner has smaller diameters, averaging 10 inch. Western edge of the stand along Spring Hill Road also has areas of 10 inch diameter on average.</p> <p>2017 -</p>
6	4133 - Aspen, Mixed Pine	Poletimber Medium	3.1	41	81-110	Portion of the red pine plantation that didn't take when originally planted. Some red pine in the stand, sawlog size. Young aspen, small diameter. Nice thick stand.. Component of WB, YB, cherry and maple. Stand will be harvested with adjacent red pine stand and re-planted to red pine.
7	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.5	70	51-80	Clumps of red maple, with yellow birch, aspen, balsam, and white birch. Small pole size stand. Sub canopy of maple and beech 20+ ft tall. More aspen than maple in northern portion of the stand.
8	4130 - Aspen	Poletimber Well	6.8	26	1-50	Stand cut in 1991. Mainly aspen with a component of maple and cherry. Some white birch on edges. Transitioning to a pole size aspen stand. Much of the aspen is small pole size, BA of 30-50.
9	4130 - Aspen	Poletimber Well	16.0	41	51-80	Majority of the stand is young aspen, smaller diameters (8-10 inch). Areas in the stand where the aspen is older, larger diameters (14 inch). Overall, the stand is a younger, healthy looking stand. Nice, tall trees. Some mortality in the aspen in spots. Sub canopy is advanced, 20+ feet tall. One "ravine" in the western portion of the stand. Component of WB, YB, cherry and maple. Hold the stand for 10 years. Sub canopy will be merchantable. Pine adjacent to the west of the stand is prescribed for harvest. Private to the north was just harvested a few years ago.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
10	4110 - Sugar Maple Association	Sawtimber Well	4.5	85	81-110	Small acreage sugar maple stand, with a component of mature aspen. Sugar maple is multi stem, ranging from 8-16 inches in diameter. Lower BA, averaging 50-60, due to spacing between clumps. Lots of 4 inch diameter regeneration. Some areas with 80-90 BA of large diameter sugar maple clumps. Some sawtimber quality in some of larger sugar maple. Ground is covered with maple seedlings up to a foot tall throughout the stand.
11	4319 - Mixed Upland Forest	Poletimber Well	3.4	80	81-110	Small acreage stand of red maple in a portion of the red pine stand that didn't have as much success. Balsam, red maple clumps, a few birch and spruce. Hold stand for diversity purposes until the red pine stand is clearcut and replanted.
12	4133 - Aspen, Mixed Pine	Poletimber Well	2.2	41	51-80	Young aspen stand, lots of white pine mixed in. Small diameter red maple as well. Nice thick stand.. Component of WB, YB, cherry and maple.
13	4130 - Aspen	Poletimber Well	1.8	41	51-80	Young aspen stand, all bigtooth aspen. Averaging 50-70 BA. Good number of smaller diameter aspen within the stand as well. Averaging 8 inch DBH and 3 merchantable sticks. Nice thick stand.
14	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	1.6	85	81-110	Clumpy red maple, large diameter aspen, some white birch. Low quality stand.
15	42110 - Planted Red Pine	Sawtimber Well	15.7	61	171-200	Stand was row thinned in 2002. NE corner has merchantable maple, aspen and some balsam where red pine is not as thick. Majority of the stand is "solid" red pine. Good rows. BA up to 240 in areas of solid rows.
16	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	4.1	70	51-80	Low quality red maple and aspen over small diameter balsam. Low quality red pine throughout (failed portion of the plantation). Hold this stand until stand 19 if clearcut and re-planted. Harvest at the same time and convert to red pine, block in the plantation.
17	42110 - Planted Red Pine	Sawtimber Well	29.7	62	141-170	Red pine plantation planted around 1960. Notes from 1997 state "interplanted, hardwoods and aspen outgrew the red pine - very uneven red pine density." Fairly decent rows, wide spacing. Stand thinned as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. BA currently around 140-160 sq ft. North end of the stand has more maple and aspen mixed in.
18	4130 - Aspen	Sapling Well	12.4	6	Immature	OPIC - FMD: Ridges of mature aspen around a small bog lake/pond. Very steep in some areas. Parts of the stand may be in-operable. Clearcut with reserves. Leave all white pine and white birch. Pockets of stand will be left as residual in areas where the slope is too steep for harvesting near the pond/lake. Stand harvested as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Regeneration check needed in 2015.

Regen 2015: Fully stocked with aspen.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	46.4	76	51-80	Stand is a real mix of maple, spruce, balsam, aspen, cherry, white pine and a few red pine. Clumps of sprout origin red maple, small clumps of aspen, limby open grown white pine, clones of aspen poles (8 inch), some larger, taller white spruce (8-12 inch dbh), and some white birch and cherry scattered throughout. Component of aspen, maple, beech, cherry, white pine all in the 10-20 ft tall range. Stand is an opening that is growing in over time, giving it an all aged structure. Steep terrain in spots, north and east sides. BA ranges from 20 up to 60-80. Far western portion of the stand is more open (old stand 31). Merged into one stand.
21	6139 - Mixed Lowland Forest	Poletimber Well	20.4	82	111-140	Stand runs NE/SW along the base of a fairly steep hill adjacent to the west. Access would be difficult. Black spruce, aspen, red maple, white birch, balsam and cedar. More cedar along the east edge. Variability in both species and density throughout the stand.
22	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	21.0	85	81-110	
23	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	15.0	20	Immature	Stand is an opening that is filling in with maple, aspen, white pine, balsam, red pine, cherry, beech, all 5-15 feet tall. Upland mix stand. Clones of aspen and clumps of maple that are pole size. West side has a lot of red pine seeding in from the adjacent plantation.
24	4130 - Aspen	Sapling Well	5.7	22	Immature	Stand was cut in 1995. Majority of the stand extends into Compartment 111 to the south. Nice, thick, young aspen stand. Some 4-5 inch diameter trees with some merchantability. Close to transitioning to a pole size stand. Some balsam in the overstory.
25	4130 - Aspen	Sapling Well	1.1	6	Immature	Stand harvested as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Regen 2015: Fully stocked with aspen. Nice Bigtooth aspen regeneration up to 10 ft tall. Very Thick.
26	4130 - Aspen	Sapling Well	1.4	6	Immature	Stand harvested as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Regen 2015: Fully stocked with aspen. Nice Bigtooth aspen regeneration up to 10 ft tall. Very Thick.
27	42110 - Planted Red Pine	Poletimber Well	0.2	57	141-170	Red pine plantation planted in 1960. Small stand of hardwoods within the stand. Fair amount of porcupine damage in areas near the hardwoods pockets. Scattered cherry and white pine. 1997 notes state a poor survival of the stand. Stand harvested via thinning as sale #051-09-01, South 426 Red Pine. Completed 06/27/11. Stand still has a fairly open canopy. Lots of maple, cherry and beech regeneration from the harvest. Crowns are fairly well spaced in most areas still. Check stand in 10 years for treatment. Possibly clearcut and replant at that time.
28	4116 - Mixed N. Hardwood - Aspen	Sapling Well	14.0	33	1-50	Maple, beech, cherry, aspen and some balsam and spruce. A few open grown white pine. Areas of clumps of small, pole size trees. Overall a young, upland mixed stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	42110 - Planted Red Pine	Poletimber Well	0.0	57	141-170	Red pine plantation planted in 1960. Small stand of hardwoods within the stand. Fair amount of porcupine damage in areas near the hardwoods pockets. Scattered cherry and white pine. 1997 notes state a poor survival of the stand. Stand harvested via thinning as sale #051-09-01, South 426 Red Pine. Completed 06/27/11. Stand still has a fairly open canopy. Lots of maple, cherry and beech regeneration from the harvest. Crowns are fairly well spaced in most areas still. Check stand in 10 years for treatment. Possibly clearcut and replant at that time.
30	4130 - Aspen	Sapling Well	27.8	6	Immature	Stand of low quality red maple and mature aspen. Component of balsam, white birch, yellow birch and beech. Better quality in the eastern portion of the stand. Aspen is shorter to the west. Some mortality in the aspen. M3 understory of maple and beech. Lots of younger maple and aspen along the stand edges. Clearcut with reserves. Leave white pine, white birch, yellow birch and conifers 4 inches or less in diameter. Stand harvested as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Regen 2015: Fully stocked with aspen. 2017 - Stand is a fully stocked aspen stand with a good component of maple and cherry. Northern portion has more maple, cherry and beech regenerating along with the aspen. Overall the stand is aspen with northern hardwoods component. 10-20 ft tall regeneration, thick. A few residual large diameter white pine, 16 inch diameter. Occasional pole size red maple also residual from the harvest.
31	42110 - Planted Red Pine	Poletimber Well	0.0	57	141-170	Red pine plantation planted in 1960. Small stand of hardwoods within the stand. Fair amount of porcupine damage in areas near the hardwoods pockets. Scattered cherry and white pine. 1997 notes state a poor survival of the stand. Stand harvested via thinning as sale #051-09-01, South 426 Red Pine. Completed 06/27/11. Stand still has a fairly open canopy. Lots of maple, cherry and beech regeneration from the harvest. Crowns are fairly well spaced in most areas still. Check stand in 10 years for treatment. Possibly clearcut and replant at that time.
32	4130 - Aspen	Sapling Well	50.3	25	Immature	Stand was cut in 1992. Nice, thick aspen regeneration. Mixed with some maple, cherry and balsam. Beginning to transition to a pole size stand in many areas. Old access road for the sale starting to grow in. Small open area in middle of the stand.
33	42110 - Planted Red Pine	Poletimber Well	0.0	57	141-170	Red pine plantation planted in 1960. Small stand of hardwoods within the stand. Fair amount of porcupine damage in areas near the hardwoods pockets. Scattered cherry and white pine. 1997 notes state a poor survival of the stand. Stand harvested via thinning as sale #051-09-01, South 426 Red Pine. Completed 06/27/11. Stand still has a fairly open canopy. Lots of maple, cherry and beech regeneration from the harvest. Crowns are fairly well spaced in most areas still. Check stand in 10 years for treatment. Possibly clearcut and replant at that time.
34	42110 - Planted Red Pine	Poletimber Well	50.9	61	111-140	Red pine plantation, planted 1960. Stand was thinned in 1995. Harvested again as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Red pine diameters are smaller in the very west and east ends. Crowns are still spaced well. Small pockets of small maple within the stand. Scattered larger diameter maple throughout.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4113 - R.Maple, Conifer	Poletimber Well	5.9	80	81-110	Small stand (islands) of maple, beech and some aspen within the larger red pine stand. Thick beech understory. Hold these stands until the surrounding red pine plantation is clearcut and replanted.
36	4134 - Aspen, Spruce/Fir	Poletimber Well	16.1	44	51-80	Nice tall aspen. Many trees with 50 or more feet of merchantable product. Runs of smaller diameter aspen and also runs of larger aspen. Tall, larger diameter balsam as well. Component of red maple. Northeast corner is a pocket of almost solid red maple. Southern end has lower ground with a component of black spruce. Some white pine. A good percentage of the aspen is smaller diameter and looks healthy. Hold the stand for 10 years for diversity.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	123.2	85	51-80	Stand was thinned in 2002. Removed all aspen when harvested. Old notes state that part of the stand was thinning in 1973 - forest cultivation program. Thick understory as a result of the last harvest. Good hardwood regeneration, red maple stump sprouts, and good patches of aspen regeneration (open areas where aspen was removed). Cherry, balsam, beech and spruce regen also present. Canopy is still pretty open in many areas with BA around 60-80. Very east side has higher BA, up to 110-120 in spots. Good component of sugar maple in the overstory. Check in 10 years for possible harvest.
38	4319 - Mixed Upland Forest	Sapling Medium	67.9	15	Immature	Large opening complex between the red pine strip plantings. Filling in with red pine, white pine, cherry, maple, spruce and aspen. Red Pine ranges from 5 - 15 ft tall. Limby, large diameter white pine as well as white pine regeneration. Clumps of cherry and maple. A few pockets of mature spruce. Clones of younger aspen. Open in spots. Upland mixed stand.
39	42110 - Planted Red Pine	Sawtimber Well	11.0	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.
40	42110 - Planted Red Pine	Sawtimber Well	10.7	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.
41	42110 - Planted Red Pine	Sawtimber Well	10.3	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.
42	42110 - Planted Red Pine	Sawtimber Well	11.2	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42110 - Planted Red Pine	Sawtimber Well	9.1	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.
44	42110 - Planted Red Pine	Sawtimber Well	8.7	61	201+	Red pine plantation (strips) planted in 1960. Thinned twice (row thin in 1991, second thinning in 2002). Good component of sawlog size trees. Average dbh between 10-12. Areas with smaller diameter average. Strip plantations were recommended to be clearcut and consolidated into 1 large plantation this year of entry.
45	4119 - Mixed Northern Hardwoods	Poletimber Well	7.2	80	51-80	Low quality, open grown hardwoods. Beech is dying out, maple has substantial top dieback. Good understory of advanced 2-3 inch maple, birch, beech, and balsam. Some mature aspen throughout. Couple pockets of merchantable balsam. with aspen and balsam.
46	4139 - Aspen, Mixed Deciduous	Sapling Well	27.1	25	Immature	Stand was harvested in 1992. Good aspen regeneration along with maple, cherry, white birch. Stand is 25 years old...beginning to transition to a small pole size stand. Aspen diameter ranges from 2-5 inches. 25-35 ft tall. Mainly still a sapling stand.
47	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	15.7	85	81-110	Small diameter hard maple with pockets of mature aspen. Hard maple is in clumps in many areas. Beech. Scattered large white birch. Aspen pocket in NE corner with blowdown. This stand and stand 48 were originally one stand but were separated for management reasons at the 1997 C. Review. One stand was to be managed for aspen and prescribed for final harvest (stand 48) and this stand was to be managed for northern hardwoods. Continue with these management recommendations.
48	4130 - Aspen	Sapling Well	9.8	6	Immature	Stand was separated from stand 48 at the 1997 C. Review (formerly all one stand 57). Decision was made to divide into two stands, one with a management objective of aspen and prescribed for a final harvest (this stand 48) and the other to have a management objective of northern hardwoods with no prescription (stand 47). Stand harvested as sale #050-09-01, 8 Mile Aspen Patches. Completed 06/13/11. Retained all all white pine, yellow birch and some large spruce. Edges will have a variety of species left as residual. Regen 2015: Fully stocked with aspen.
51	4139 - Aspen, Mixed Deciduous	Sapling Medium	52.4	25	Immature	Semi open stand. Opening filling in with cherry, maple, aspen clones, limby white pine and scattered balsam and spruce. Fairly open in some spots. Aspen clones within the stand were harvested in 1991. Pockets of merchantable aspen, 4-6 inch dbh. Areas with larger diameter aspen, mature. Opening maintenance prescribed burn was completed in 2000. Evidence of the success of the previous burn can be seen with the reduction of encroachment in spots. Opening needs a followup burn before the positive results of the previous burn are lost. Opening maintenance on this stand is no longer a priority.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.4	75	81-110	Small acreage stand of pole size red maple. Beech is dead in most parts of the stand, soe alive along the northwestern portion. Component of hard maple and some white pine along the stand edges. Mostly multi stem red maple. Some top dieback in the red maple. Canopy is open where the beech has died.
58	42110 - Planted Red Pine	Poletimber Well	28.5	57	141-170	Red pine plantation planted in 1960. Small stand of hardwoods within the stand. Fair amount of porcupine damage in areas near the hardwoods pockets. Scattered cherry and white pine. 1997 notes state a poor survival of the stand. Stand harvested via thinning as sale #051-09-01, South 426 Red Pine. Completed 06/27/11. Stand still has a fairly open canopy. Lots of maple, cherry and beech regeneration from the harvest. Crowns are fairly well spaced in most areas still. Check stand in 10 years for treatment. Possibly clearcut and replant at that time.
59	4113 - R.Maple, Conifer	Poletimber Well	2.2	80	81-110	Small island of low quality, small diameter red maple with a component beech, aspen and some red pine. Mostly multi stem red maple. Hold the stand for diversity until the surrounding red pine plantation (stand 58) is clearcut and replanted.
60	42200 - Natural White Pine	Poletimber Medium	4.9	45	Unspecified	
61	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.9	75	81-110	Red maple pole stand. Some quality. Clumps of red maple with scattered better quality "crop" trees. Component of cherry, balsam, beech and hard maple. Southwest corner of the stand has larger diameter aspen mixed in.
63	4130 - Aspen	Poletimber Well	70.5	25	1-50	Nice aspen stand with some open pockets with cherry and maple. Balsam and spruce throughout. Combined with old stand #39 (S1/2) which has more of an M3 component but still types out as an A3. All one large stand. Many portions of the stand have transitioned to a pole size aspen stand. Many areas are still a sapling size aspen stand. Thick.
64	42310 - Planted Spruce	Poletimber Well	15.4	60	111-140	Nice spruce plantation with clumps of maple and scattered aspen throughout. Planted in 1957 and interplanted in the spring of 1960. North/south rows. BA averages right around 140-150 BA. Diameters range from 6 inch -11 inch. Some dead spruce. Aspen, maple, cherry component. No evidence of SBW.
65	6122 - Black Spruce	Poletimber Well	9.0	83	81-110	Low ground black spruce with a component of aspen, balsam and red maple. Edges between this stand and the adjacent lowland conifer stand are difficult to delineate.
66	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	41.1	83	51-80	Lowland stand. Lots of variability in the stand. Black Spruce, white pine, aspen, red maple, some cedar, some white birch. East half has a high white pine component. Small pocket of slightly higher ground aspen as well. West side has more spruce mixed in. Slight low area/drainage in eastern portion of the stand, crosses the road into stand 36. Areas where the stand is fairly open, less canopy. Some tag alder in these open areas, SW corner. Northern portion consists of a small acreage black spruce stand that was merged into this stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	4134 - Aspen, Spruce/Fir	Sawtimber Medium	7.5	70	111-140	Northern portion of the stand is multiple stem sugar maple. Open area in the middle of the stand has open grown cherry and maple saplings along with pole size spruce and aspen and some limby white pine. Southern portion of the stand is mature aspen, spruce and balsam.
72	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.6	85	111-140	Small diameter red maple with pockets of larger aspen and young spruce. Some quality red maple throughout. Mostly pole size trees, with a small component of sawlogs. Areas with top dieback and some decline (25%). Some mortality in the maple. Scattered yellow birch. Mortality in the beech. Thick understory of mainly beech, with a component of maple and balsam.
73	4119 - Mixed Northern Hardwoods	Poletimber Well	11.1	85	81-110	Small acreage stand of mainly red maple. Single stem maple along with multiple stem maple clumps. Beech component in the stand (both overstory and understory) have BBD. Mortality in the beech. Yellow Birch component. Small diameter balsam poles. Aspen along the edges of the stand. East end of the stand is smaller diameter red maple. BA ranges from 80-90 up to 110-120. Thick understory of maple and beech.
74	4199 - Other Mixed Upland Deciduous	Sapling Poor	56.5	17	Immature	<p>Stand was treated with an opening maintenance prescribed burn in 2000. Evidence of success of the previous burn can be seen. A number of aspen and cherry were killed with the burn. Areas of grasses present, not all just bracken. Stand was prescribed for another burn back in 2007 YOY, with possible 1 day TSI work prior to the burn.</p> <p>2017 - Stand is beginning to fill in with maple, cherry and a lot of aspen, especially around clumps of mature trees which were burned through with the previous burn. Under the aspen clones, very nice aspen regeneration 10-15 ft tall. Throughout the more open areas, substantial maple regeneration 10-15 ft tall along with some cherry. Stand is going to convert to a mixed upland deciduous stand without further treatments for opening maintenance.</p>
75	4116 - Mixed N. Hardwood - Aspen	Sapling Well	15.0	6	Immature	<p>Stand harvested as sale #050-09-01, 8 Mile Aspen Patches. Completed 06/13/11.</p> <p>Regen 2015: Lots of cherry regeneration, moderate amount of aspen. Prior to harvest, stand was a mix of low quality red maple, mature aspen, large white spruce and remnants of a spruce planting from 1960 (moderate survival). Stand is now a mixed stand of cherry, aspen, red maple regeneration with some balsam. Scattered log size birch and white pine retained after harvest.</p>
76	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.3	57	81-110	Portion of spruce plantation that failed. 1960 interplanting of spruce with only fair survival (1997 notes). Overall about 40% of the canopy is spruce. The rest is maple, aspen, white birch and beech. Beech is dying out of the stand. No sign of SBW. Low quality, multiple stem red maple, clumps of birch. Stand was held last year of entry for diversity and to be harvested this year of entry.
77	42310 - Planted Spruce	Poletimber Well	8.9	59	111-140	Spruce plantation planted in 1960. This stand is the portion of the planting that survived and is a fully stocked spruce plantation. Average merchantable height of the spruce is 4 sticks, some taller. Average dbh around 9 inches. Possibly some old SBW damage on west side of the stand. ***Silvics - White spruce plantations...maintain BA at 100-140 for max tree growth. Reach max MAI at 55 years.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	4130 - Aspen	Sapling Well	13.5	24	Immature	Stand was cut in 1993. Nice aspen regeneration with components of maple, cherry and balsam. Some aspen has moved into the pole size, 20-30 BA in spots
79	4119 - Mixed Northern Hardwoods	Sapling Medium	4.1	15	Immature	Opening with a lot of encroachment. Sapling and some pole size red maple, limby white pine, cherry sapling and poles, aspen along the edges.
81	4119 - Mixed Northern Hardwoods	Sapling Poor	16.0	15	Immature	Open stand with encroachment of cherry, maple and aspen. Also, spruce and balsam. High component of cherry in the more open portion (center) of the stand. Northern "finger" of the stand has filled in more with maple and aspen. One clone of pole size aspen is merchantable if we want to harvest it when we harvest stand 77.
82	6122 - Black Spruce	Poletimber Well	17.0	78	111-140	Natural black spruce stand with a component of aspen, balsam and red maple. Aspen is along the stand edges where slightly high ground. South portion of stand has a small treed bog/stunted spruce type. The portion of the stand east of the two track road has areas of higher ground on the north side.
83	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	34.9	59	111-140	Spruce plantation planted in 1960. Showing decline and mortality throughout. 2-4 dead spruce on each plot taken. Diameter ranges from 7 inch to 12 inch in the spruce. Clumps of maple and some white birch throughout. Scattered white pine. One island of maple and spruce that was a separate stand last time, was merged in with this stand due to small acreage.
85	42110 - Planted Red Pine	Sawtimber Well	64.2	56	141-170	Red pine plantation planted in 1960. Row thinned in 2002. Good heights and diameters. Red pine sawlog stand. Averaging 160-170 BA, 11-12 inch dbh. Some areas have shorter heights than others. Scattered, limby red maple in spots.
86	4113 - R.Maple, Conifer	Poletimber Well	3.4	85	81-110	Small pocket of red maple clumps with white birch, balsam, and some red pine. Adds diversity to surrounding red pine stand. Hold stand for diversity reasons until the red pine is clearcut and replanted.
87	4119 - Mixed Northern Hardwoods	Poletimber Well	11.1	75	51-80	Stand is a mix of red maple, aspen, beech, balsam, some cherry and white birch. Pockets of mature aspen (A6/A9) with balsam. Areas of multiple stem red maple. Balsam pockets. Northern portion is mostly multi stem red maple and open grown sugar maple. Beech is dying out, aspen is mature showing decline, maple is low quality



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	4130 - Aspen	Sapling Well	33.3	6	Immature	Stand was harvested as sale #050-09-01, 8 Mile Aspen Patches. Completed 06/13/11. Young aspen, 10-15 ft tall average. Young maple, cherry components. Balsam along the edges of the stand. Scattered white pine and white birch residual from the harvest. Northwest corner of the stand is limby, pole size white pine. South 3rd of the stand has a higher maple component in the regeneration (old stand 96). Cut at the same time, combined into one stand. OPIC - FMD: Mature aspen stand with some dieback and decline. Aspen is large diameter and over mature in most areas. Parts of the stand are semi-open with slightly shorter aspen. Pocket of younger (A4/A3) aspen in NE corner and NW corner has small limby white pine (leave these pockets as residual). Open grown maple along the stand edges. Clearcut with reserves. Old notes (1997 - stand 62) state to "enhance aspen where possible."
90	4139 - Aspen, Mixed Deciduous	Sapling Well	13.1	25	Immature	Young aspen stand that is transitioning from a sapling to a pole stand. Primarily aspen with maple, white birch, balsam. Some aspen is 5-6 inches in diameter, most of the stand is still 2-3 inch dbh aspen. Good component of maple and balsam in the northern 3rd of the stand. Southern portion of the stand has good component of 5-6 inch dbh aspen, 3 merchantable sticks. Lots of 2-3 diameter aspen, maple and balsam. Stand Year Origin was 1992
91	4133 - Aspen, Mixed Pine	Sawtimber Well	13.3	67	141-170	Mixed stand of large diameter aspen, all sizes of white pine, hard maple and lesser components of red maple, white birch and cherry. Mature aspen and limby white pine. Mortality in aspen. Areas with high BA of white pine. Southeast portion of the stand is hard maple with aspen. Good M3 understory of mostly hard maple. Small aspen and bushy white pine along stand edges. Ground cover is mostly maple saplings 1-2 ft tall. Stand was expanded to the south to include some open grown maple and a clone of mature aspen (large diameter aspen, balsam and white pine).
92	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	45.0	45	Unspecified	Opening with lots of encroachment. Fairly open in some spots. Opening maintenance prescribed burn was completed in 2000. Evidence of the success of the previous burn can be seen with the reduction of encroachment in spots. Resulted in a lot of cherry and aspen being killed as was planned. Areas of grasses are evident where bracken fern was reduced by the burn. Clumps of mature aspen, clumps of spruce, open grown white pine, maple, aspen, white pine and cherry saplings throughout.
94	4130 - Aspen	Sapling Well	25.2	6	Immature	Stand was harvested as sale #050-09-01, 8 Mile Aspen Patches. Completed 06/13/11. Regeneration check in 2015 showed Fully stocked with aspen. Stand is mainly aspen with components of red maple, cherry, beech, balsam with some residual white pine pole/logs. East end of the stand has some residual red maple poles as well. Regeneration is 10-15 ft tall on average. 1997 notes (stand 83) - enhance aspen where possible.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
95	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	33.9	71	81-110	Mixed stand of aspen, maple (hard and red), balsam, some white spruce, white pine and cherry. Mature pockets and areas with smaller, younger growth (around openings). Rot and decline in some of the aspen. Pockets of fair quality hard maple. Scattered large diameter white spruce and white pine. Quality decreases in the southern end. Overall, poor quality maple. Site is better suited for aspen. Convert stand to aspen. 1997 notes (stand 83) - enhance aspen where possible. Stand was held for 10 years for diversity per wildlife request. With respect to 1997 notes to enhance aspen, Stand 94 was originally part of this stand and separated out due to high aspen
97	42340 - Upland Spruce/Fir	Poletimber Well	30.8	73	51-80	Mixed stand with a lot of variability. Primarily balsam and white spruce. Red maple, aspen, white birch, white pine and cherry component. Balsam of all size classes from 6 inch to 14 inch diameter. Large diameter white spruce. Aspen is larger and showing decline. Mortality in the balsam and spruce. Open areas filling in with cherry, balsam, birch and aspen. Stand slopes to the west/southwest near the western stand edge. Lots of bear activity.
98	4319 - Mixed Upland Forest	Poletimber Well	4.9	80	81-110	Small acreage stand of maple within a red pine stand. Red maple clumps, white birch, balsam and a few spruce. Adds diversity to the surrounding red pine stand. Hold stand for diversity purposes until the red pine stand is clearcut and replanted.
100	4130 - Aspen	Sapling Poor	41.4	6	Immature	Stand harvested as sale #050-09-01, 8 Mile Aspen Patches. Completed 06/13/11. Regen 2015: Fully stocked with aspen. Stand is mainly aspen with a mix of red maple, cherry, balsam and white birch regen. Higher component of aspen in the southern 1/2 of the stand. Regeneration is 10-15 ft tall, with some areas 5-10 ft tall. Residual large diameter white pine, some white birch and a few spruce and cedar. Very northern portion of the stand was previously stand 99 ("U" type - 2007 YO). Southwest corner of the stand is slightly older aspen from timber trespass when the adjacent private property was harvested. Good aspen and balsam regeneration.
106	6120 - Lowland Cedar	Poletimber Well	9.2	92	111-140	Lowland cedar stand. Very wet stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	122 - Road/Parking Lot	2.7	No	Co Rd 407 and the cleared ROW
19	500 - Water	2.0	No	Small pond with bog edges.
71	3302 - Low Density Conifer Trees	26.5		Stand was originally planted in spring of 1960. 1997 notes stated "poor survival, not the quality we want, short, fat limby trees". Stand harvested as sale #048-09-01, Battle Wound Pine. Completed 06/27/11. Prescribed burn was completed and stand was planted to red pine. Regen check summer 2017: 632 trees per acre. Possible release of the stand to reduce hardwood competition if needed.