



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42086

Entry Year 2018

Acreage: 3,302

County Luce

Management Area: 8 Mile Corner

Revision Date: 2016-08-22

Stand Examiner: Amy Douglass

Legal Description:

T47N R10W Sections 20, 21, 26 - 29

Identified Planning Goals:

To promote and enhance timber health, growth and sustainability, while providing for wildlife habitat needs.

Soil and topography:

The rolling with short, steep upland areas in the west are primarily comprised of Liminga-Alcona complex of varying slopes and Kalkaska sand, with associates of Wallace-Spot complex. A Wallace sand edge gradiates into the lowland swamp comprised of Carbondale, Lupton, and Tawas soils; with some Dawson, Greenwood, and Loxley soils in the bogs towards the east. The small portion of level uplands in the southeast part of the compartment consist of Spot-Finch complex and Paquin sand.

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

Within the compartment is an isolated 80 which is privately owned. State lands abut to the north and south along with larger private ownership. Private parcels of various sizes lie to the western boundary, with mostly seasonal camps. Oswald's Bear Ranch abuts to the southwest, with newly acquired 160 acres of state ownership to his 80 acres.

Unique Natural Features:

None noted.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

Spruce budworm is in the area and this compartment has several spruce plantations that should be managed accordingly.

Watershed and Fisheries Considerations:

Fisheries Values: Good

Fisheries Concerns: Auger Creek upstream of M-123 is a designated trout stream. This reach of river is assigned a high priority trout stream buffer of 300 feet. Any treatments occurring in stands adjacent to Auger Creek should adhere to the 300 foot buffer.

Wildlife Habitat Considerations:

Compartment 86 lies in the Seney Sand Lake Plain ecological sub-subsection in central Luce county and in the 8 Mile Corner Management Area and has Blackburnian warbler, pileated woodpecker, ruffed grouse and white-tailed deer as featured species. The western portion of the compartment is largely aspen and northern hardwoods while the eastern portion is predominantly swamp conifer and cedar. Species diversity in hardwood and aspen stands is good and wildlife travel corridors exist along several streams that extend into the compartment.

Conifer retention in hardwood thinnings will provide nesting and potential denning sites as well as forage and cover areas. Mast producing species will generally be left for food and snag production. Existing nest and den trees, snags, and woody debris will be maintained in stands where they exist. White-tailed deer, black bear, bobcat, coyote, gray wolf, ruffed grouse, fisher, marten, otter and mink are noteworthy wildlife species using this compartment.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck, an end moraine of coarse-textured till and coarse-textured till. There is insufficient data to determine the glacial drift thickness (>100 feet). The Ordovician Trenton Formation and Utica and Collingwood shales subcrop below the glacial drift. The Trenton has been quarried for limestone/dolomite elsewhere in the UP. Bedrock is likely too deeply buried here to be of economic importance. No sand/gravel pits are located in the area, but there may be some potential in the western upland. Drift deposits appear to be predominantly sand and clay with limited gravel. There is no economic oil and gas production in the UP and there is no known metallic mineral potential in this area.

Vehicle Access:

Access is good to the southwestern upland area of the compartment. Access to the northern portion of the compartment is sketchy, with overgrown roads and beaver dams blocking roads. The swamp sections are roadless, except for the old overgrown winter roads that are only seen on the photos.

Survey Needs:

The SW 1/16 of section 29 needs to be re-located. It may have been obliterated due to woods road widening in the past.

Recreational Facilities and Opportunities:

A segment of the Silver Creek ORV trail runs through the compartment. Hunting activities make up the majority of recreational use.

Fire Protection:

Fires should be small and slow growing because of hardwood and swamp conifer types. There are some lakes and beaver ponds that could provide natural barriers to fire spread. Lowland soil types may challenge use of heavy equipment for suppression. Areas of this compartment may lend itself to modified suppression strategies, such as containment and monitoring.

Additional Compartment Information:**The following reports from the Inventory are attached:**

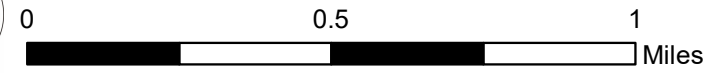
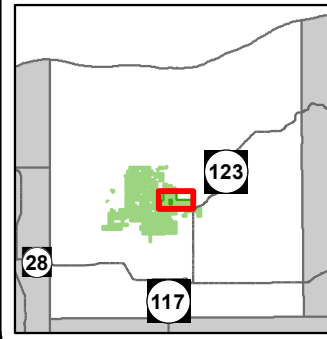
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

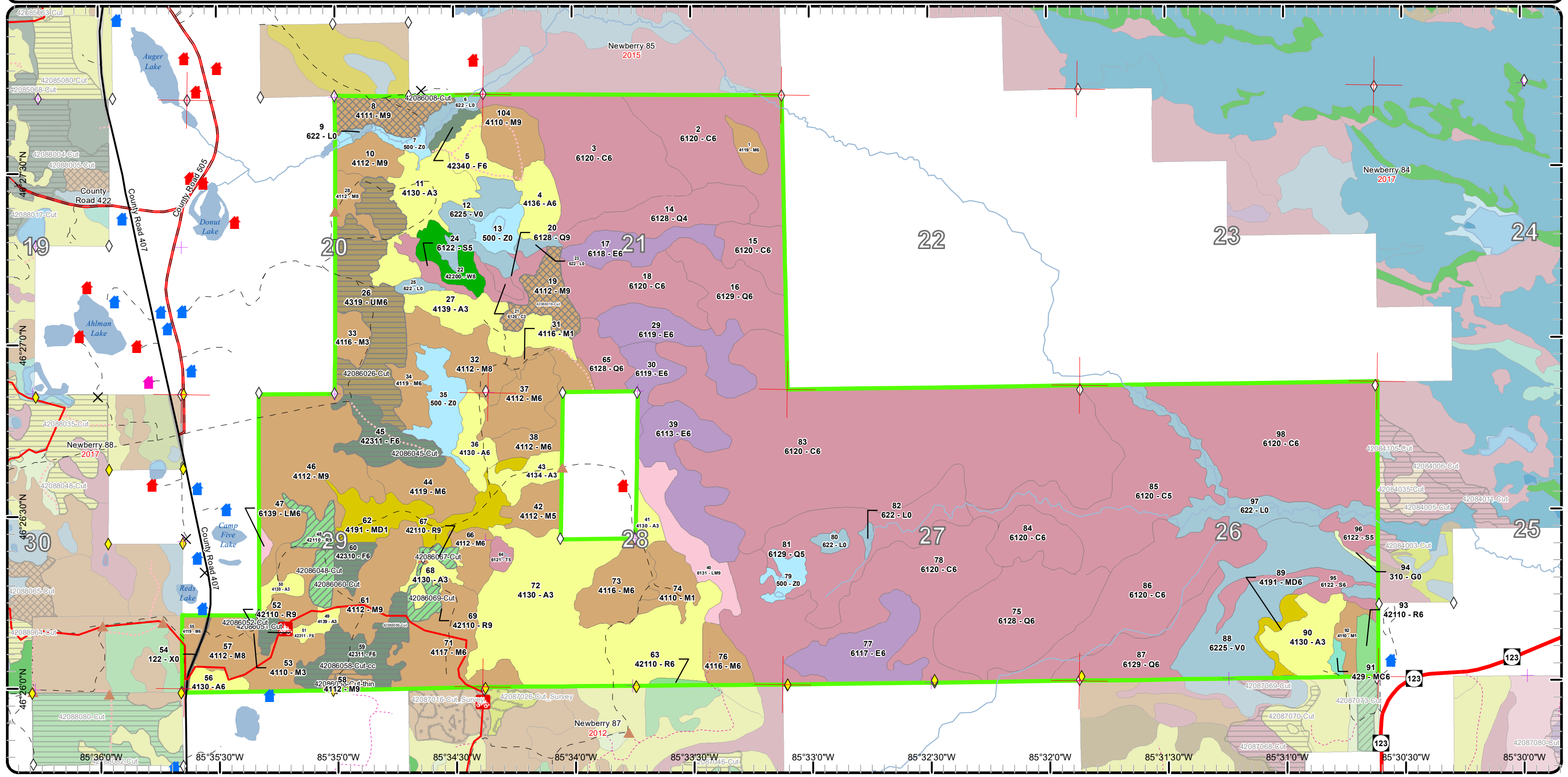
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 86
 T47N R10W Sec. 20,21,26-29
 County: Luce
 Unit: Newberry
 Mgmt Area: 8 Mile Corner
 YOE: 2018
 Acres: 3,302 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 10/27/2016
 Map Phase: Post-Review

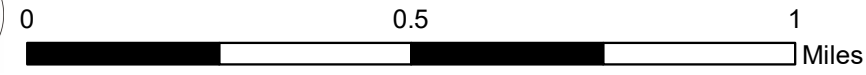
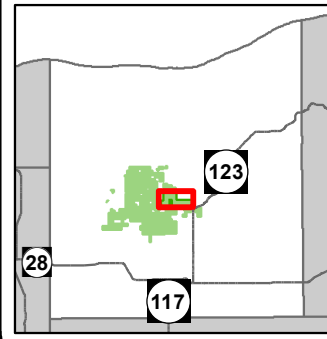


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- X Gate
- ▲ Berms
- Cabin
- House
- ORV Trails
- Designated ATV Trails
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes

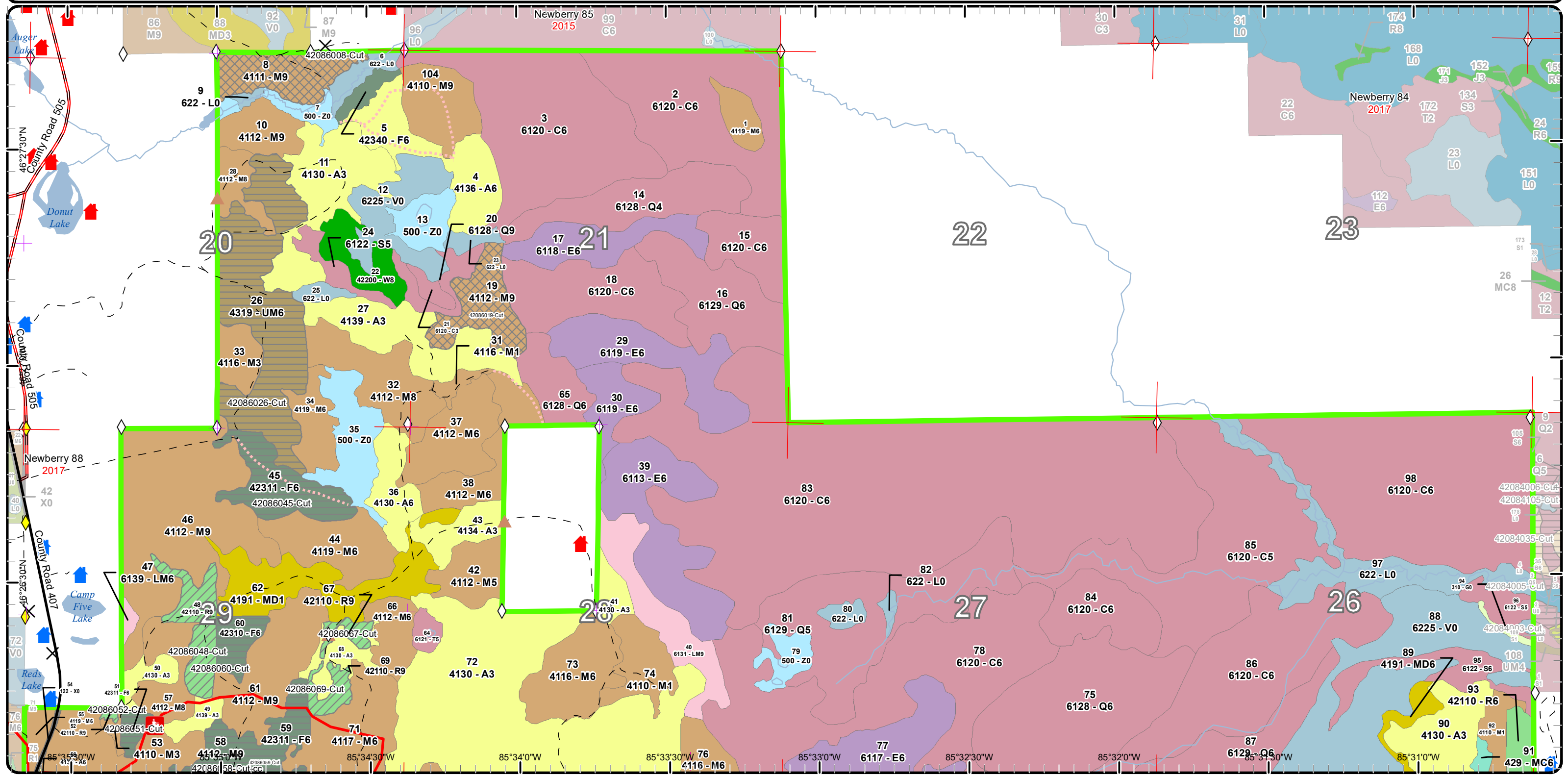


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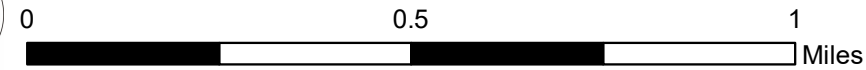
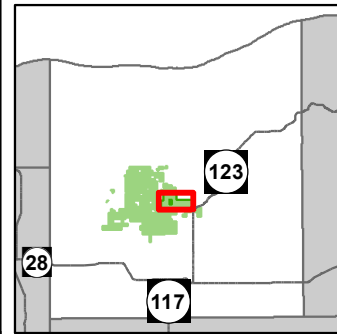


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|--------------------------------|-------------------------------------|-----------------------------------|
| — Miris Corners | — Poor Dirt Roads | ■ 430 - Upland Mixed Forest |
| — Remonumented Section Corners | — Trail (Non-Recreation) | ■ 611 - Lowland Deciduous Forest |
| ◆ Survey Grade GPS Corners | — Closed Roads | ■ 612 - Lowland Coniferous Forest |
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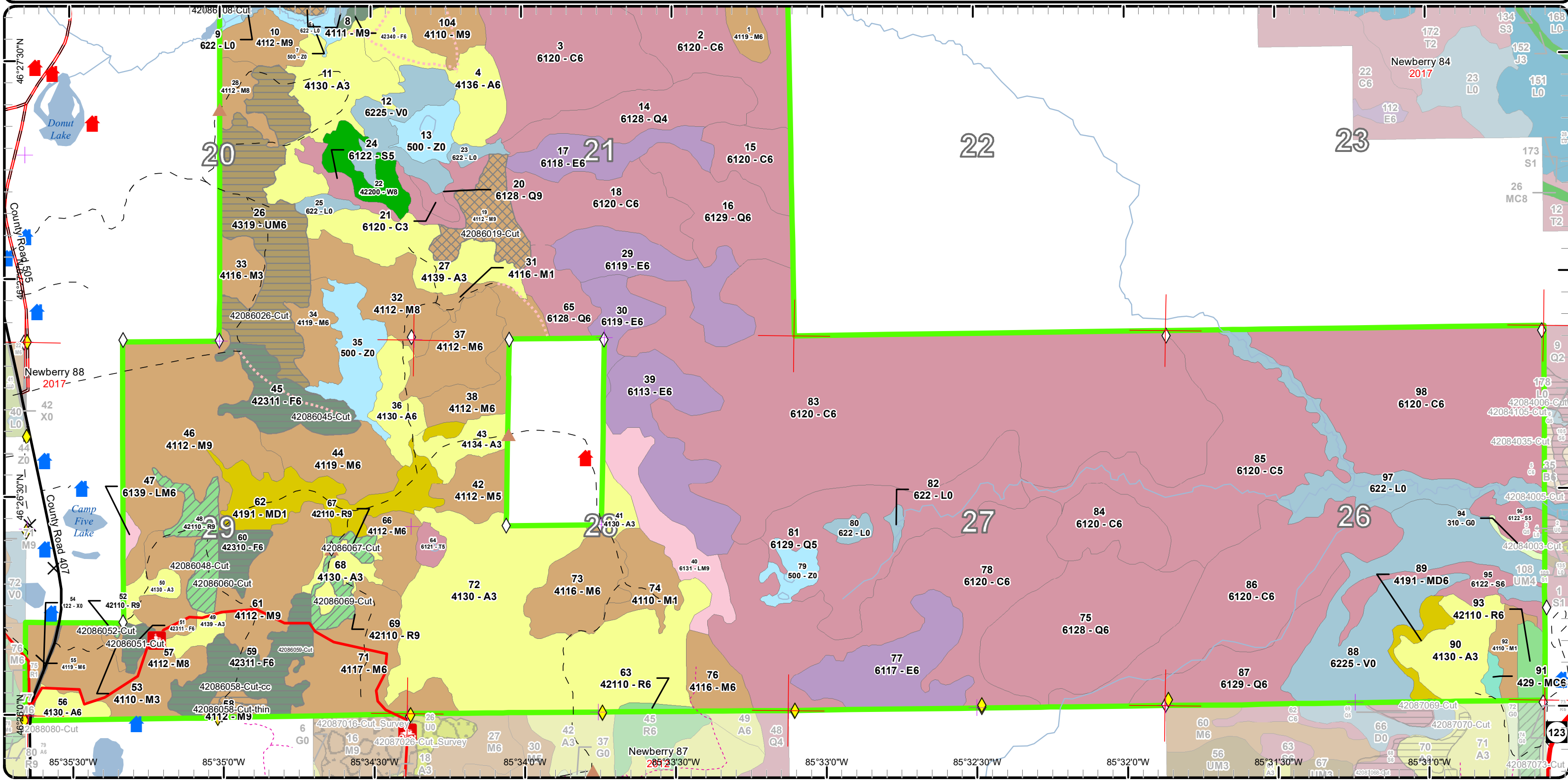


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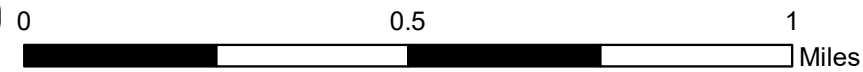
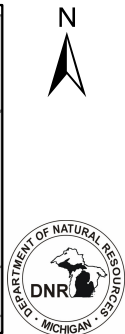
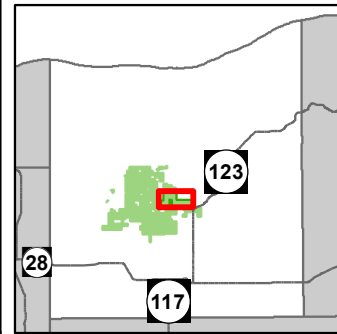


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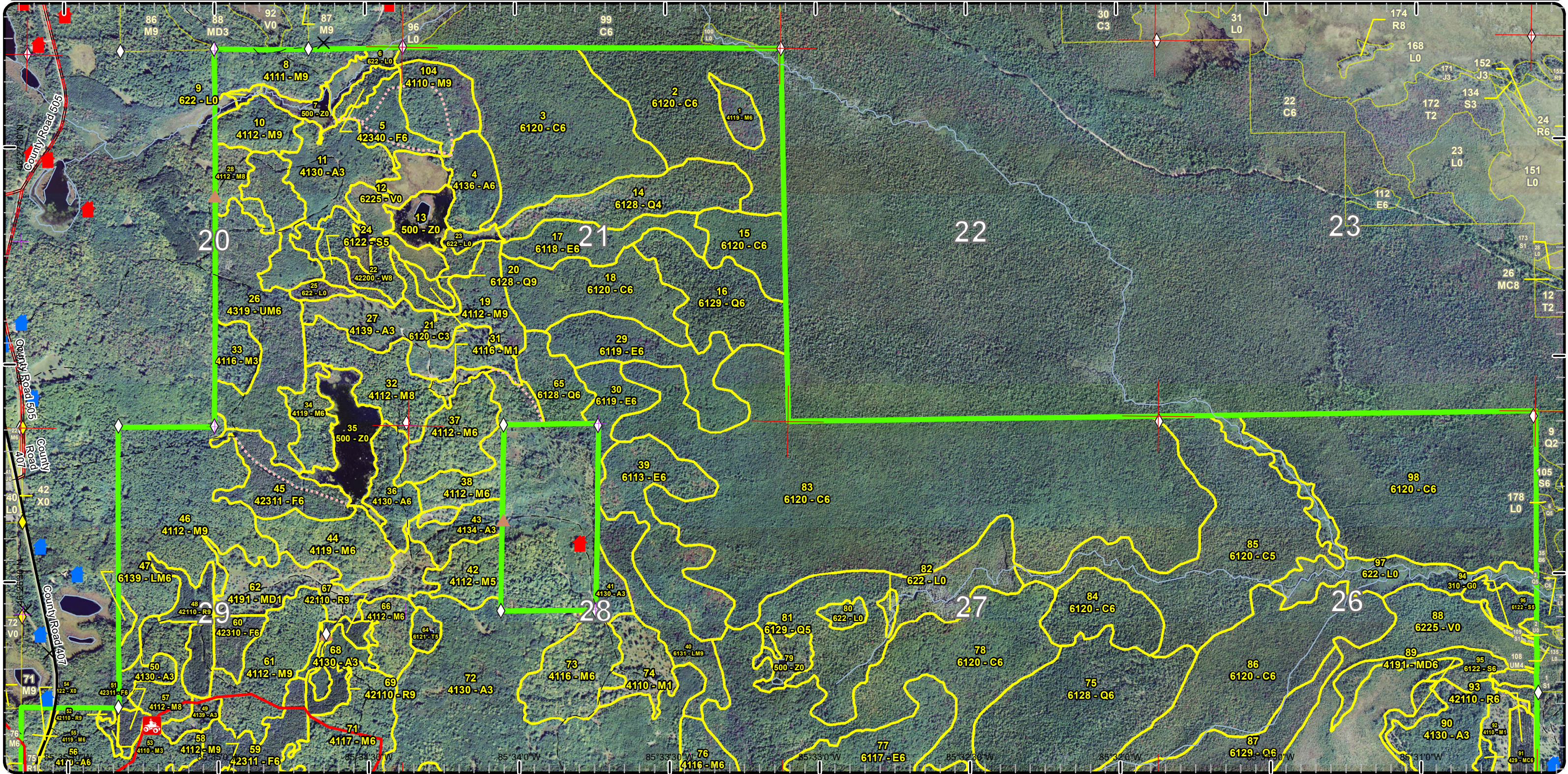


Stand Boundary Map

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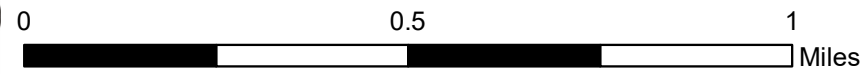
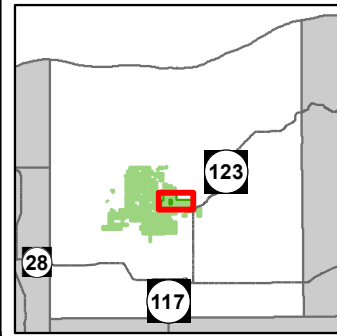


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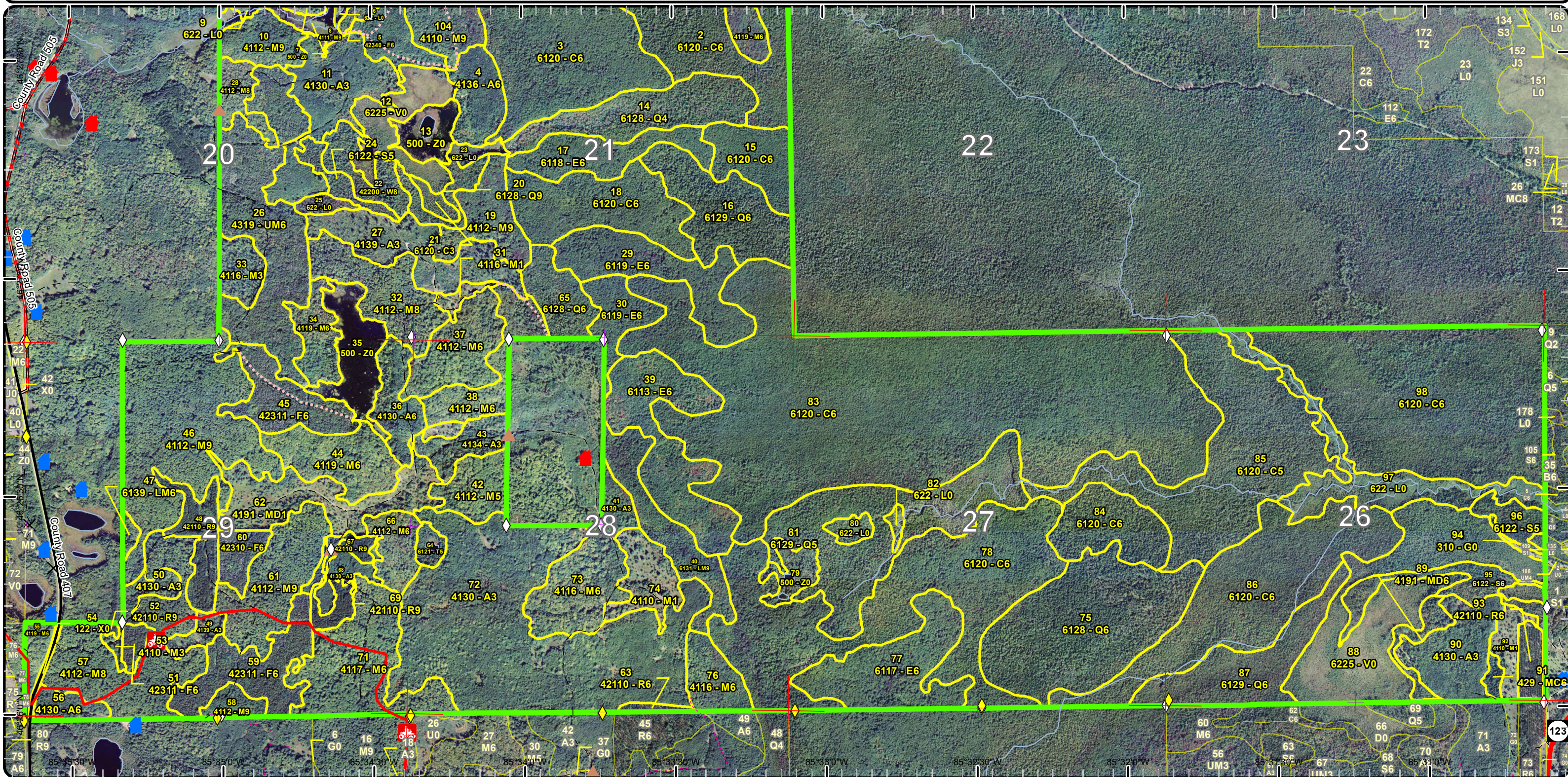


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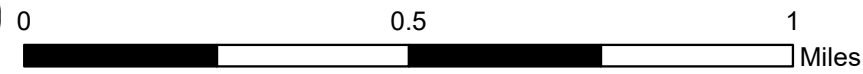
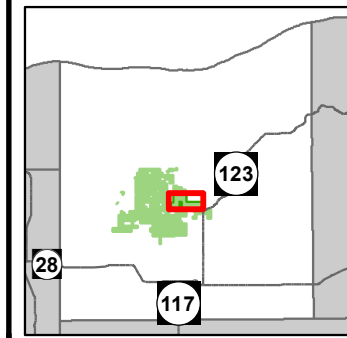


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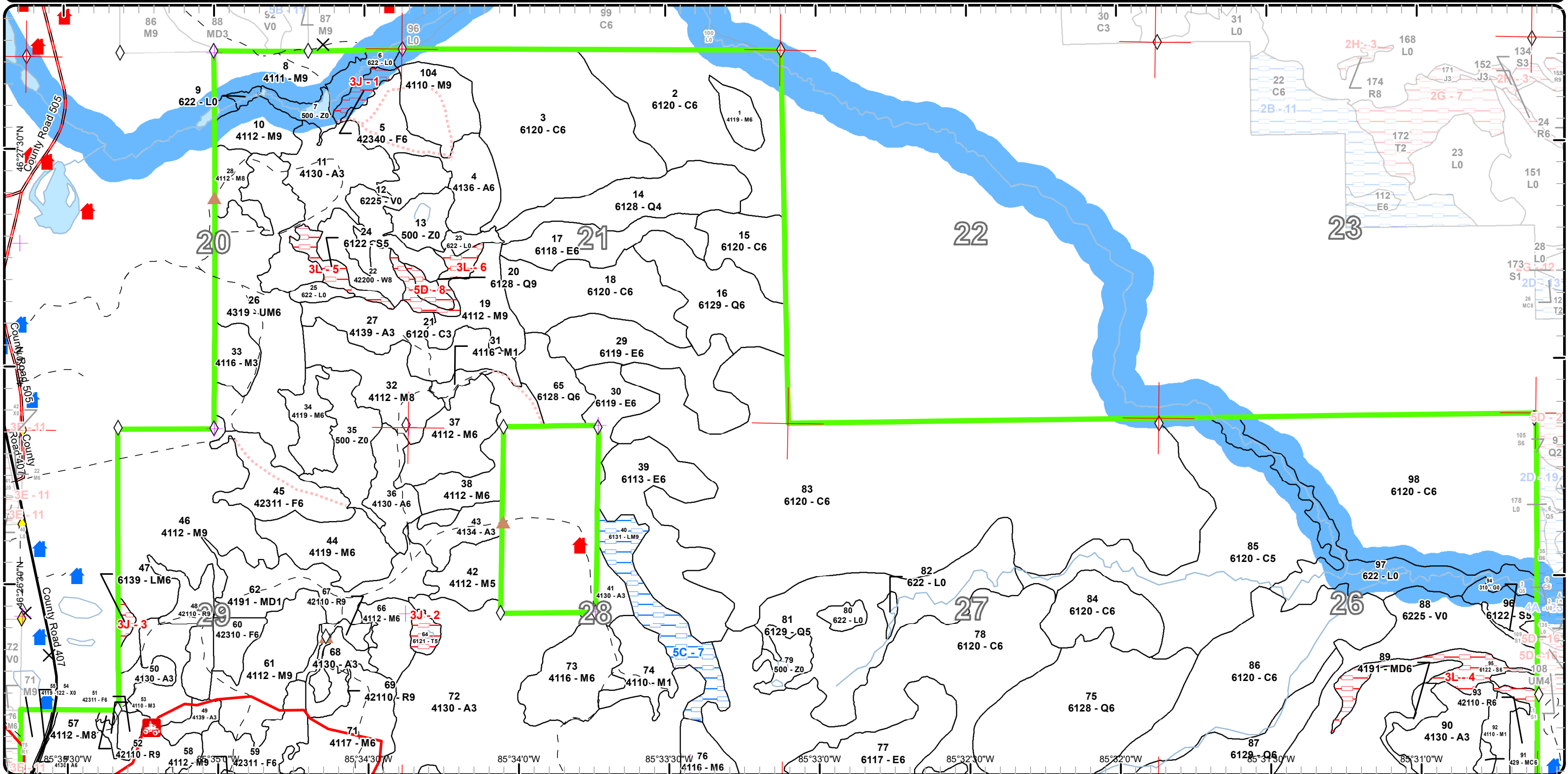


Special Conservation Areas & Site Conditions Map

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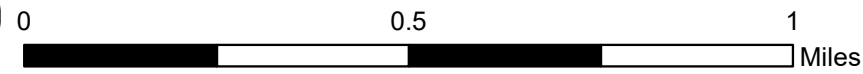
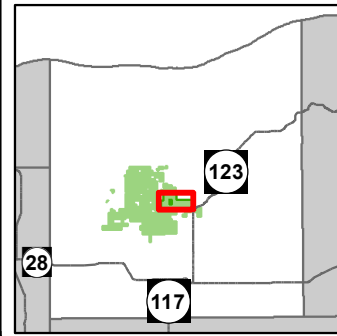


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

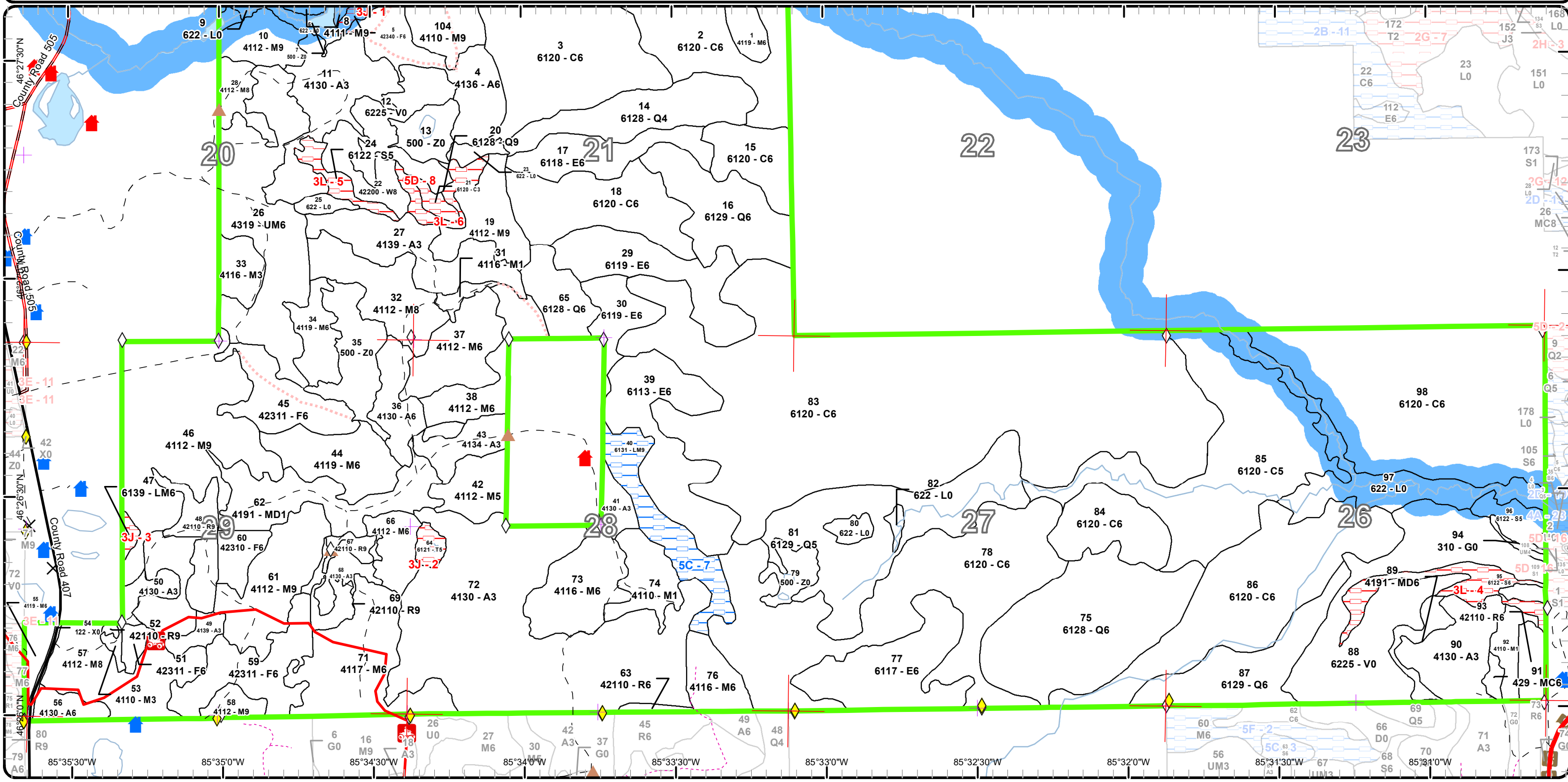


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- ▭ Stand Boundaries
- G State Heritage Routes-Scenic (MDOT Designation)
- Cold Water Streams
- Cold Water Lakes
- ▭ High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	43	73	211	35	26	0	0	0	0	0	0	0	0	0	0	0	0	388
Bog	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
Cedar	0	0	0	0	0	0	0	475	559	150	0	0	0	0	0	0	0	0	1184
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	43	274	0	10	0	0	0	0	0	0	0	327
Lowland Deciduous	0	0	0	0	0	0	0	55	133	0	0	0	0	0	0	0	0	0	187
Lowland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	30	32
Lowland Shrub	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	10	27	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	43	51
Northern Hardwood	0	12	0	2	0	32	0	45	216	288	0	0	0	0	0	0	0	33	628
Red Pine	0	0	0	0	0	8	6	26	0	0	0	0	0	0	0	0	0	0	40
Tamarack	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	77
Upland Spruce/Fir	0	0	0	0	0	5	75	0	0	0	0	0	0	0	0	0	0	0	80
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
White Pine	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	16
Total	246	55	73	213	35	74	161	657	1208	465	10	0	0	0	0	0	0	106	3300



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 86

Total Compartment Acres: 3,302

Commercial Harvest - 238
 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
Northern Hardwood	4	52	0	0	0	0	0	0	0	56
Red Pine	0	0	0	0	30	0	0	0	0	30
Upland Mixed Forest	77	0	0	0	0	0	0	0	0	77
Upland Spruce/Fir	75	0	0	0	0	0	0	0	0	75
Total	156	52	0	0	30	0	0	0	0	238

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	238	0	0	0	0	0	0	0	0	238
Next Step	0	194	152	0	42	186	472	0	0	1046
Total	238	194	152	0	42	186	472	0	0	1283



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	42086008-Cut	25.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	77	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark to approximately 80 BA. Hills and valleys will need to be looked at for best access.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Hard and soft maple, yellow birch, cherry, with aspen/birch/conifer patches.

Regen:

Other Buffer Auger Creek following BMPs and use topography. OK to work within 300' buffer due to selection harvest. Do not encourage aspen within the 300' buffer.

Proposed Start Date: 10/01/2017

19	42086019-Cut	23.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	81	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand down to approximately 80 BA. Some areas will be a light marking. Leave any hemlock, if it exists, and thin around the drip line.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Soft and hard maple, cherry, hemlock, aspen, birch.

Regen:

Other Need to determine best access. 4-wheeler trail leaves road and goes north through adjacent aspen stand in to the north end of stand.

Comment:

Proposed Start Date: 10/01/2017

26	42086026-Cut	77.1	4319 - Mixed Upland Forest	Poletimber Well	56	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with no retention due to spruce budworm. Leave some conifer other than spruce/fir, if it exists. Leave cherry if will not pose a hindrance to regeneration efforts. Chipping is acceptable if a market exists.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Aspen, maple, cherry, spruce/fir with the option of planted red pine.

Regen:

Other Best access may be through private land to the west, but roads could be opened to access through state. Most areas should regenerate to aspen. Plant areas of inadequate aspen regeneration to red pine.

Proposed Start Date: 10/26/2016

45	42086045-Cut	26.9	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	56	Unspecified	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 due to spruce budworm and to aid in planting efforts. Leave mixed species in the red line. Stand is to be planted to red pine. Slash will be burned, or roller chopped. Chipping is acceptable if there is a market. If areas regenerate naturally and fully to aspen, maple and cherry, these areas will be planted around to help add diversity to the area.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping

Acceptable Red pine, with patches of aspen, maple, cherry, spruce/fir.

Regen:

Other Leave cherry if will not pose a hindrance to regeneration efforts.

Comment:

Proposed Start Date: 10/26/2016



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
48	42086048-Cut	18.3	42110 - Planted Red Pine	Sawtimber Well	67	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin to approximately 140 BA, taking approximately 1/3 of BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other 2nd thinning.

Comment:

Proposed Start Date: 10/01/2017

51	42086051-Cut	4.5	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	56	Unspecified	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 due to spruce budworm and to aid in planting efforts. Leave mixed species in the red line. Stand is to be planted to red pine. Slash will be burned, or roller chopped. Chipping is acceptable if there is a market. If areas regenerate naturally and fully to aspen, maple and cherry, these areas will be planted around to help add diversity to the area.

Next Step Burn, Slash; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Roller Chopping

Acceptable Red pine with patches of aspen, maple, cherry, spruce/fir.

Regen:

Other Survey corner location should be confirmed. Leave cherry if will not pose a hindrance to regeneration efforts.

Comment:

Proposed Start Date: 10/26/2016

52	42086052-Cut	0.9	42110 - Planted Red Pine	Sawtimber Well	65	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin to no lower than 140 BA, taking approximately 1/3 of BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Need to check accuracy of existing blue line. Corner would be nice to have.

Comment:

Proposed Start Date: 10/01/2017

58	42086058-Cut-cc	3.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Clearcut with no retention due to small area. Leave an occasional aspen in the red line between thinning and clearcut.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, cherry, maple, spruce/fir.

Regen:

Other Line between thinning and clearcut to be determined.

Comment:

Proposed Start Date: 10/26/2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
58	42086058-Cut-thin	3.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	77	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark to approximately 80 BA.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Soft and hard maple, cherry, yellow birch, aspen.

Regen:

Other Line between thinning and clearcut to be determined.

Comment:

Proposed Start Date: 10/26/2016

59	42086059-Cut	33.8	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	56	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut with no retention due to spruce budworm. Leave white pine for bear refuge trees. Leave cherry if will not pose a hindrance to regeneration efforts. Chipping is acceptable if a market exists.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial

Treatments: Regen(3yr); Pesticide, Skidder/Mechanical; Pesticide, Skidder/Mechanical

Acceptable Aspen, maple, cherry, spruce/fir with the option of planted red pine.

Regen:

Other Most areas should regenerate to aspen. Plant areas of inadequate aspen regeneration to red pine. NE arm has the most potential for red pine

Comment: planting. ORV Trail runs through stand. Pile slash along each side of the trail to leave a corridor.

Proposed Start Date: 10/26/2016

60	42086060-Cut	10.1	42310 - Planted Spruce	Poletimber Well	56	Unspecified	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 due to spruce budworm and to aid in planting efforts. Leave mixed species in the red line. Stand is to be planted to red pine. Slash will be burned, or roller chopped. Chipping is acceptable if there is a market. If areas regenerate naturally and fully to aspen, maple and cherry, these areas will be planted around to help add diversity to the area.

Specs:

Next Step Burn, Slash; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring,

Treatments: Artificial Regen(3yr); SitePrep, Roller Chopping

Acceptable Red pine with patches of aspen, maple, cherry, spruce/fir.

Regen:

Other Leave cherry if will not pose a hindrance to regeneration efforts.

Comment:

Proposed Start Date: 10/26/2016

67	42086067-Cut	4.2	42110 - Planted Red Pine	Sawtimber Well	61	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to approximately 140 BA, taking approximately 1/3 of BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other 2nd thinning.

Comment:

Proposed Start Date: 10/01/2017



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
69	42086069-Cut	6.2	42110 - Planted Red Pine	Sawtimber Well	58	201+	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin to approximately 140 BA, taking approximately 1/3 of BA.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other 2nd thinning.

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 237.8**

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 86
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3J	3L	5D
389	389	0	0	Aspen				
119	119	0	0	Bog				
1184	1180	0	4	Cedar				4
2	2	0	0	Herbaceous Openland				
326	316	0	10	Lowland Conifers			10	
187	187	0	0	Lowland Deciduous				
33	0	30	2	Lowland Mixed Forest	30	2		
66	66	0	0	Lowland Shrub				
37	10	0	27	Lowland Spruce/Fir			27	
51	51	0	0	Mixed Upland Deciduous				
628	628	0	0	Northern Hardwood				
40	40	0	0	Red Pine				
5	0	0	5	Tamarack		5		
3	3	0	0	Upland Conifers				
77	77	0	0	Upland Mixed Forest				
81	75	0	5	Upland Spruce/Fir		5		
2	2	0	0	Urban				
56	56	0	0	Water				
16	16	0	0	White Pine				
3,302	3,219	30	53	Total Forested Acres	30	12	37	4
	97%	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	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 86
Year of Entry: 2018

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife corridor.							
5	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife corridor.							
6	Unavailable	3L: Other wildlife concerns	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Wildlife corridor.							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wildlife corridor.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 86
Year of Entry: 2018

8	Unavailable	5D: Unproductive Forest Land	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
SCA	Visual Management Area	An area of general social appreciation that is managed to recognize and preserve a particular visual value. Examples of these areas include scenic vistas, scenic or natural beauty roads, and lakeshore areas.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4119 - Mixed Northern Hardwoods	Poletimber Well	9.1	76	51-80	Mixed hardwood among cedar. Poor quality red maple, small component of black cherry along with scattered white spruce in the stand. Stand is extremely isolated amongst an extensive cedar swamp and has no feasible access.
2	6120 - Lowland Cedar	Poletimber Well	82.3	76	Unspecified	Cedar poletimber/sapling stand. Associated white birch and areas of balsam fir poletimber/saplings. Extremely wet-spring areas. Auger creek crosses NE corner.
3	6120 - Lowland Cedar	Poletimber Well	103.8	76	Unspecified	Cedar poletimber/sapling stand with associated w.birch poletimber. Wet lying areas/holes throughout stand.
4	4136 - Aspen, Mixed Conifer	Poletimber Well	35.3	33	Immature	Occasional WP (mainly along low areas), beech, cherry, spruce. Low ground throughout stand. The N. end of the stand is slightly on higher ground however.
5	42340 - Upland Spruce/Fir	Poletimber Well	5.2	41	Unspecified	Balsam, spruce with associated very low quality red maple along with scattered aspen. Retain as a buffer to the adjacent drainage and swamp and as a travel corridor.
8	4111 - S.Maple, Hard Mast Association	Sawtimber Well	25.4	77	111-140	Rolling, short, steep hills throughout stand. Pockets of aspen poletimber in bottoms of hills and wetter ground.
10	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.4	77	81-110	Fair to good form h.maple - good heights, straight boles. Large diameter aspen are present, scattered throughout - retain for wildlife snags. Short, fairly steep valleys run N-S to creek/lowland swamp to the north.
11	4130 - Aspen	Sapling Well	41.9	17	Immature	Donut Lake Poplar Sale (#032-98) cut completed 10/00. Good aspen regen. Mostly upland. Beaver activity near ponds (damming up old road).
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	40.7	76	1-50	Scattered mix of cedar with black spruce, red maple, black ash, and cedar saplings along with light tag alder. Creeks/drainages throughout; standing water was evident. Heavy balsam saplings.
15	6120 - Lowland Cedar	Poletimber Well	23.3	76	Unspecified	Very dense mixed conifer stand. Small poletimber and dense cedar saplings. Scattered white birch.
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	42.8	66	Unspecified	Cedar poletimber and saplings, along with black spruce, tamarack, white birch and balsam poletimber and saplings. Very wet - open water, springs, feeder creeks and drainages throughout stand. Areas of highly stocked cedar inclusions.
17	6118 - Lowland Deciduous with Cedar	Poletimber Well	26.9	76	Unspecified	White birch and red maple mixed with cedar. Stand is extremely variable running from cedar to birch. Hemlock and yellow birch found on hardwood edge. Transition to low ground. Multiple drainages leading to creek to the north.
18	6120 - Lowland Cedar	Poletimber Well	48.3	75	Unspecified	Well stocked cedar with white birch component.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4112 - Maple, Beech, Cherry Association	Sawtimber Well	23.6	81	81-110	Fair to low quality stand. Mainly r.maple with scattered, a bit higher quality h.maple in areas. Heavy beech understory on south end; blends into shorter maple understory as you move north. Less understory overall to the north. Occasional hemlock - mainly on east edge. 4-wheeler trail through stand.
20	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	10.0	91	Unspecified	Good hemlock and cedar. Associated r.maple, w.pine, y.birch and balsam fir. Stand is in a transition area to the true lowland swamp/bog to the northwest. Not much for understory in many places.
21	6120 - Lowland Cedar	Sapling Well	3.9	82	Unspecified	Small cedar. Associated hemlock saplings. Wet ground.
22	42200 - Natural White Pine	Sawtimber Medium	15.7	70	51-80	White pine ridge with associated species. Difficult access.
24	6122 - Black Spruce	Poletimber Medium	7.9	82	Unspecified	Wet, hummocky ground - poor access. Scattered cedar pockets, mature black spruce. Stand is adjacent to an A3 and W8 - retain for a conifer travel corridor.
26	4319 - Mixed Upland Forest	Poletimber Well	77.1	56	Unspecified	White spruce plantation interspersed with aspen and red maple poletimber. Occasional WP.
27	4139 - Aspen, Mixed Deciduous	Sapling Well	37.1	6	Immature	Stand harvested as sale #017-08-01, "Rainy Conifer Aspen". Complete 08/24/11. Regen 2015: Fully stocked with aspen and cherry.
28	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	11.1	77	81-110	Heavy to beech, with BBD mortality. RP seeding in along road. Beech seems heaviest on ridge top. Heavy beech to heavy fir understory. West line recently flagged and painted.
29	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	40.8	75	Unspecified	Lowland mixed hardwood- white birch, red maple, yellow birch. East side of the stand is heavier to white birch mixed with Q type. Inclusions of well stocked cedar poletimber throughout the stand.
30	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	17.0	75	111-140	Lowland mixed hardwood- white birch, red maple, yellow birch. Low ground; shallow rooted.
31	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	3.7	31	Immature	Small opening growing in.
32	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	32.8	71	1-50	Heavy beech regeneration in many areas of the stand. Aspen sprouting responded well in pockets where aspen was removed. Scattered balsam fir sapling component. Sale #022-99, Camp 5 Hardwoods Sale, completed 12/02
33	4116 - Mixed N. Hardwood - Aspen	Sapling Well	11.8	7	1-50	Thick regeneration. Stand harvested via shelterwood as sale #025-08-01, C. 86 Hardwoods. Completed 05/13/10. Accessed through the Luce County "40" and joining up the old grade on state land to the south.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4119 - Mixed Northern Hardwoods	Poletimber Well	15.6	67	1-50	Variable diameter, fully stocked stand. Old beaver activity along the lake.
36	4130 - Aspen	Poletimber Well	17.8	44	Unspecified	Well formed aspen pole stand. Cut under timber sale #21-72; completed in 1973.
37	4112 - Maple, Beech, Cherry Association	Poletimber Well	28.7	77	51-80	Variable stand. Similar to the south, but more beech and white pine. Variable BA. Full regeneration. Heavy mortality from BBD. Let existing beech continue to decline allowing the stand to act as a natural shelterwood for the advanced mixed hardwood regen.
38	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.0	77	81-110	Multi-stemmed maple. Full beech understory. Variable BA. Beech dying from BBD. Steep ridge drop off along southern end. Rolling terrain and ridges. Lines are difficult between this stand and stand 37.
39	6113 - Lowland Maple	Poletimber Well	54.9	69	111-140	Low quality red maple poletimber with yellow birch and hard maple component. High incidence of cedar/hemlock poletimber inclusions and balsam fir saplings/seedlings. Transition ground but multiple drainages and water pockets.
40	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	30.3	78	111-140	Good hemlock stand. Very good hemlock regeneration. Associated aspen, red maple, yellow birch poletimber and scattered balsam fir/cedar poletimber. Transition area from upland A3 type to the west and Q6 type to the east, good potential for wildlife use.
41	4130 - Aspen	Sapling Well	7.7	26	Immature	Good mix of aspen and maple regeneration 18-30' high. Maple regen is mainly from stump sprouting. Six point Aspen Sale #007-92, cut completed 12/91.
42	4112 - Maple, Beech, Cherry Association	Poletimber Medium	17.0	81	81-110	Fair to good mixed hardwood poletimber. Variable BA within stand. Heavy beech regen. Edges (stand transition) have well formed aspen. Appears that much of the aspen within the stand was removed in a prior harvest years ago, no aspen sprouting evident.
43	4134 - Aspen, Spruce/Fir	Sapling Well	14.1	18	Immature	Well stocked aspen regen. Balsam fir and spruce component widely scattered throughout the stand. Spring Hill Aspen T. Sale #027-99 completed 7/99. Low drainage north of E-W road, seasonally wet.
44	4119 - Mixed Northern Hardwoods	Poletimber Well	29.2	61	81-110	The quality is variable. Pockets of white birch. The E and W sides of the stand are very low quality-multiple stemmed trees, higher quality stems are through the middle of the stand. Stand is mainly r.maple and beech, h.maple occurs in the higher quality areas. Full understory.
45	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	26.9	56	Unspecified	White spruce plantation, scattered associated h.maple, beech, b.cherry throughout the stand. Aspen occurs at the edges. Beavers have heavily impacted the aspen on the E. side of the stand. Excepting the occasional above associated species, this stand is nearly a pure spruce plantation.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4112 - Maple, Beech, Cherry Association	Sawtimber Well	96.2	86	81-110	Variable quality stand; has potential. Scattered mature aspen. Occasional YB and cherry. Variable understory. Stand harvested via thinning as sale #025-08-01, C. 86 Hardwoods. Completed 05/13/10.
47	6139 - Mixed Lowland Forest	Poletimber Well	2.5	58	51-80	Mature balsam fir with white birch, red maple, black cherry component. Beaver cuttings evident. Excellent transition/wildlife corridor from open hardwoods to marsh-swamp. Retain for riparian buffer and wildlife corridor.
48	42110 - Planted Red Pine	Sawtimber Well	18.3	67	201+	Small M3 inclusion (north of road) of maple and cherry with a few residual RP poles. Understory of hard maple saplings, moderate to heavily stocked. Stand was row thinned in 2002.
49	4139 - Aspen, Mixed Deciduous	Sapling Well	6.0	6	Immature	Scattered WP and black cherry left. ORV trail runs through stand. Stand harvested as sale #022-08-01, "Bear Ranch Hardwood". Completed 01/20/12.
50	4130 - Aspen	Sapling Well	7.1	16	Immature	Variable stand; not clean cut. Spring Hill Aspen 3 T. Sale, cut completed 12/01.
51	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	4.5	56	Unspecified	W.spruce plantation. Occasional black cherry.
52	42110 - Planted Red Pine	Sawtimber Well	0.9	65	201+	Good quality stand-never been thinned. Moderate to heavy h.maple sapling understory. Stand is very small acreage. Part of an old trespass planting from the private land to the north. Blue line evident, but no evidence of corner.
53	4110 - Sugar Maple Association	Sapling Well	2.1	24	Immature	Thick maple saplings with small pockets of older aspen.
55	4119 - Mixed Northern Hardwoods	Poletimber Well	7.1	77	51-80	Young pole stand with lots of saplings. Beech looks remarkably good. Graduates more to aspen component along south end. Scattered aspen at the road edge.
56	4130 - Aspen	Poletimber Well	8.4	44	Unspecified	Aspen with scattered spruce. Lower ground within stand. ORV trail runs along northern stand boundary.
57	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	59.8	81	51-80	Nice hardwood stand. More red maple with balsam understory to the north. Regen ~ 5' tall. Rolling hills. ORV trail runs though stand. Stand harvested as sale #022-08-01, "Bear Ranch Hardwood". Completed 01/20/12.
58	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.9	77	111-140	Mid to low quality stand. Due to small acreage, much of the stand is in transition to other types. Most of the aspen is along the spruce edge.
59	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	33.8	56	Unspecified	White spruce plantation. Highly scattered aspen component throughout the stand. Very little herbaceous ground cover. Large WP - limby, weeviled. ORV trail runs through stand.
60	42310 - Planted Spruce	Poletimber Well	10.1	56	Unspecified	White spruce plantation.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.6	81	81-110	Well formed stand. Pockets of good advanced hard maple regen. ORV trail runs through stand. Stand harvested as sale #022-08-01, "Bear Ranch Hardwood". Completed 01/20/12.
4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	42.7	26	Immature	Old opening filling in with cherry and white pine primarily. Road follows the depression within the stand. White pine is bushy.
42110 - Planted Red Pine	Poletimber Well	2.5	61	111-140	Stand extends from Compartment 87 to the south. Data from that stand. Planted in 1959. Thinned in 2004 (018-02-01). Small component of red maple. Second thinning in 2013 (009-12-01).
6121 - Tamarack	Poletimber Medium	4.6	61	Unspecified	Tamarack with black spruce. Scattered white birch. Stand surrounds a small bog pond with pitcher plants at pond edge.
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	19.0	78	Unspecified	Includes upland ridge near south end and small areas where aspen was cut, but hemlock left - pockets of aspen regeneration.
4112 - Maple, Beech, Cherry Association	Poletimber Well	14.3	73	81-110	Lower quality mixed hardwood stand. Beech is hanging in for the most part. Areas of heavy beech sapling regen.
42110 - Planted Red Pine	Sawtimber Well	4.2	61	171-200	Good overall quality to red pine. Row thinned in Spring Hill Mix T.sale #041-99-02, completed 6/00.
4130 - Aspen	Sapling Well	10.1	17	Immature	Scattered red pine residual poletimber. Part of Spring Hill Mix T. sale #041-99-02, cut completed 6/00.
42110 - Planted Red Pine	Sawtimber Well	6.2	58	201+	Stand was row thinned as part of Spring Hill Mix T. sale #041-99, completed 6/00. ORV trail runs partially through the stand.
4117 - Mixed N. Hardwood - Pine	Poletimber Well	52.6	81	81-110	Good form to mixed hardwood poletimber, mainly hard maple. Sawtimber fair to good quality. Excellent h.maple seedling establishment. ORV Trail runs through stand. Old road is very grown in with maple <5' tall and some spruce/fir. Spring Hill Hardwood T.sale #042-002, completed 10/02 - thinning. Small opening inclusion near red pine stand.
4130 - Aspen	Sapling Well	173.0	26	Immature	Aspen with red maple, birch, beech and black cherry component. Spring Hill T. sale #002-88, completed 3/91; and Spring Hill Extension T.sale #015-90, completed 12/91.
4116 - Mixed N. Hardwood - Aspen	Poletimber Well	32.4	46	1-50	Mainly sapling size with pole size interspersed. Lots of varying sizes present (1"-6"+). Poor quality larger residual. Scattered conifer component (white pine, balsam, spruce).
4110 - Sugar Maple Association	Sapling Poor	18.7	41	Unspecified	Semi open grass opening, growing in with black cherry, and white pine.
6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	92.9	77	Unspecified	Cedar, tamarack, black spruce with associated hardwoods. Tag alder understory. Clearcut in the 1920-30s.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
76	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	16.3	75	81-110	Mixed hardwood poletimber with scattered low quality sawlog component. Heavy beech, hard maple regen. Aspen component mostly on north end. Transitions to hardwood with scattered aspen on slightly lower ground.
77	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	47.8	72	141-170	Low quality red maple and cedar throughout the stand. Balsam fir sapling component. Inclusions of well stocked white birch. Very low ground - wet, would require more than 1/4 mile of new road construction across thick cedar swamp and extremely wet soils. Extreme winter conditions would be needed for successful access.
78	6120 - Lowland Cedar	Poletimber Well	145.9	82	Unspecified	Areas heavier to cedar. Component of white and yellow birch. Many defined drainages (low banks) leading N. to Auger Creek. Spring pockets.
81	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	79.5	77	Unspecified	Stand is adjacent to and among a long series of beaver ponds. Tag alder intergrown with the cedar and multiple drainages lead into the ponds and Auger Creek. Scattered red maple, white birch being impacted by beaver.
83	6120 - Lowland Cedar	Poletimber Well	376.6	69	Unspecified	Extremely high stocked cedar. Balsam fir saplings intermixed. Multiple drainages/holes/springs throughout the stand. Great regeneration resulting from clearcutting in 1920-1930s. Stand is so dense it is nearly unwalkable.
84	6120 - Lowland Cedar	Poletimber Well	30.4	79	Unspecified	Cedar poletimber with scattered, small "openings". Black spruce, balsam fir component. Wet ground- multiple drainages.
85	6120 - Lowland Cedar	Poletimber Medium	113.3	79	Unspecified	Cedar, tamarack, black spruce. Tag alder understory. A branch of the Auger Creek runs through the stand. Clearcut in the 1920-30s.
86	6120 - Lowland Cedar	Poletimber Well	98.1	69	Unspecified	Extremely heavily stocked cedar throughout the stand. Balsam fir, black spruce intermixed. Multiple wet drainages/holes/springs. Results of clearcutting in the 1920 - 30s.
87	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	41.4	77	Unspecified	Cedar, balsam fir, black spruce. Low quality red maple component. Multiple feeder drains run into a branch of the Auger Creek - very wet ground.
89	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.4	69	81-110	Highly variable species mix. Transition area from upland types to lowland. Retain for this transition area value. Low quality red maple and white birch with associated balsam fir and black spruce.
90	4130 - Aspen	Sapling Well	30.6	29	Immature	Aspen stand on edge of pole size. Freshly brushed road. Sale #034-87, cut completed 5/88.
91	429 - Mixed Upland Conifers	Poletimber Well	2.8	47	51-80	Stand gradates from white pine in the south, to jack pine, to spruce in the north. Limby.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
92	4110 - Sugar Maple Association	Sapling Poor	10.2	47	1-50	Old field filling in. White pine is bushy; red pine has seeded from the plantation; Scotch pine seeding in from several older trees to the west.
93	42110 - Planted Red Pine	Poletimber Well	8.4	47	141-170	Plantation continues to the south in Compartment 87. Third row thinned as part of 5 Mile Mix in 2013. Sale closed 7/26/2016.
95	6122 - Black Spruce	Poletimber Well	19.1	80	Unspecified	Low ground black spruce with scattered high ground ridges/humps. Minor windthrow is occurring on these higher ground areas from winds of the more open bog to the north. Retain stand for its excellent wildlife corridor/transitional area it provides. Windthrow loss is acceptable.
96	6122 - Black Spruce	Poletimber Medium	9.7	78	Unspecified	Black spruce poletimber with spruce saplings, cedar, balsam fir understory. Scattered red maple and white birch poletimber. Adjacent to Auger Creek and its associated tag alder banks.
98	6120 - Lowland Cedar	Poletimber Well	158.0	79	Unspecified	Very heavily stocked small diameter cedar. Associated black spruce, and balsam fir. Widely scattered higher ground pine ridges. Clearcut in the 1920 -30s.
104	4110 - Sugar Maple Association	Sawtimber Well	24.0	77	81-110	Occasional live beech. Did not seem to be a significant species within this stand. Beech mostly on ridge. Not the best quality hard maple - forks, etc. Decent diameter range. Short ridge runs along west side. Old road N-S through middle of the stand in decent shape - just need to get to! Pick up more hemlock with occasional yellow birch on east side.



Stand	Cover Type	Acres	Managed Site	General Comments:
6	622 - Lowland Shrub	7.3	No	Tag alder thickets adjacent to creek/beaver flowages.
7	500 - Water	8.1	No	Active beaver pond. Creek flows from Auger Lake to Auger Creek. Old road crossing by beaver dam on east side.
9	622 - Lowland Shrub	1.6	No	Old beaver pond
12	6225 - Bog	26.6	No	Leatherleaf bog-floods out during spring.
13	500 - Water	12.6	No	Bog type beaver pond.
23	622 - Lowland Shrub	3.9	No	Backed up drainage next to small pond.
25	622 - Lowland Shrub	4.0	No	Tag alder drainage with widely scattered low ground aspen, red maple and white birch.
35	500 - Water	25.7	No	Large, old beaver pond turned into a permanent lake.
54	122 - Road/Parking Lot	2.2	No	County Road 407/ROW
79	500 - Water	10.1	No	Beaver pond with cedar and tag alder mix.
80	622 - Lowland Shrub	4.5	No	Former beaver flooding with cedar and tag alder.
82	622 - Lowland Shrub	2.1	No	Former beaver pond with cedar and tag alder.
88	6225 - Bog	92.8	No	Leatherleaf bog - scattered, stunted black spruce and tamarack, standing water areas. Treed bog in places.
94	310 - Herbaceous Openland	1.7	No	Scattered white birch, black spruce and white pine.
97	622 - Lowland Shrub	43.0	No	Tag alder banks along Auger Creek. Scattered black spruce and tamarack poletimber with occasional cedar and white pine. Auger Creek is included in the stand with many tributaries and drainages.