



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42035

Entry Year 2022

Acreage: 2,948

County Luce

Management Area: Deer Park

Revision Date: 2020-08-26

Stand Examiner: Amy Douglass

Legal Description:

T49N R09W Sections 18, 19, 30 - 32
T49N R10W Sections 13, 24, 25 & 36

Identified Planning Goals:

Maintain, or enhance, the forest health, productivity and diversity of the area through proper management.

Soil and topography:

This area has sandy flat to rolling uplands with organic lowlands. There are short, steep slopes along East Branch of the Two-Hearted. The compartment is mostly Rubicon sands, with various other sandy associates - Croswell-Au Gres sands, Kalkaska-O'Keefe sands and Kinross-Au Gres complex. The lowland areas are predominately Carbondale, Lupton, and Tawas soils.

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

State lands are adjacent to the west and north. A mix of state and private holdings are located on the east, along the Two-Hearted River. To the south is a mix of corporate land, smaller private holdings and a large sportsman's club. The private parcels are primarily used seasonally for hunting and other recreation.

Unique Natural Features:

The compartment contains the Chris Brown Swamp and Bog ERA. Also, the Two Hearted River is designated as a Natural River and any management must follow the Two Hearted Natural River Plan.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

East Branch Two-Hearted River is part of the designated Two-Hearted Natural River. Follow the Two Hearted River Natural River Plan as well as BMP guidelines. There is an area designated as a core interior habitat area, where any management considered will enhance the habitat qualities for core interior species.

Watershed and Fisheries Considerations:

The East Branch Two Hearted River skirts the eastern edge of this compartment. The East Branch Two Hearted River is a Natural River and any treatments or activities planned in this compartment should comply to the recommendations in the Two Hearted River Natural River Plan.

Wildlife Habitat Considerations:

Compartment 35 lies in northern Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-section as well as the Deer Park Management Area with Kirtland's warbler, piping plover, red crossbill and American marten as featured species. High value conservation areas exist within this compartment including an ERA and a Lowland Mixed Core Interior Forest. Stands are typically more species diverse in this compartment with aspen, maple and birch being present in pine stands.

Wildlife values will be enhanced in this compartment by retaining diverse species in stands such as leaving mature aspen, birch or maple to provide future nest and den trees. Retained red, jack and white pine will serve as future nest trees and food sources. Species likely to utilize this compartment include coyotes, otter, bobcat, black bear, wolves, deer, and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is four miles to the west. There may be potential for sand & gravel development in the southern half of the compartment, but there may not be much demand in this area. No current mineral leasing activity exists in the area.

Vehicle Access:

Access is generally good. County Road 414 runs along the north part of the compartment. Forest Trails Cris Brown Lake Road, the Shamrock Road, and a few other un-named trails offer further access. Cris Brown Lake Road and the Shamrock Road is used to access the camps on the west side of the river and as accessing a portion of the East Branch Sportsman's Club. The high water table over the past several years has presented some issues with the Cris Brown Lake Road, making portions to the west almost impassable at times.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Dispersed camping occurs at several locations, mainly near the river. The snowmobile trail follows County Road 414 along the north edge of the compartment.

Fire Protection:

This compartment is in the Two Hearted Zone Dispatch Area. It has a moderate potential for large fire growth because of the fragmented fuel types. Risk to private properties bordered by Pine types would be moderate. The Duck Lake Fire in 2012 came within a half mile to the east of the compartment. Modified suppression tactics may need to be considered for activities in the Two Hearted River riparian zone.

Additional Compartment Information:

There is a cabin/camper trespass that is currently being worked on for corrective action.

The following reports from the Inventory are attached:

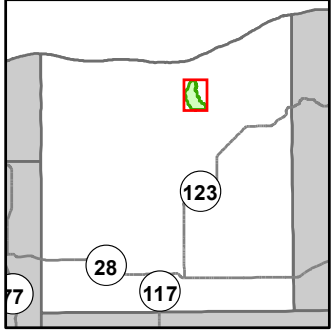
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

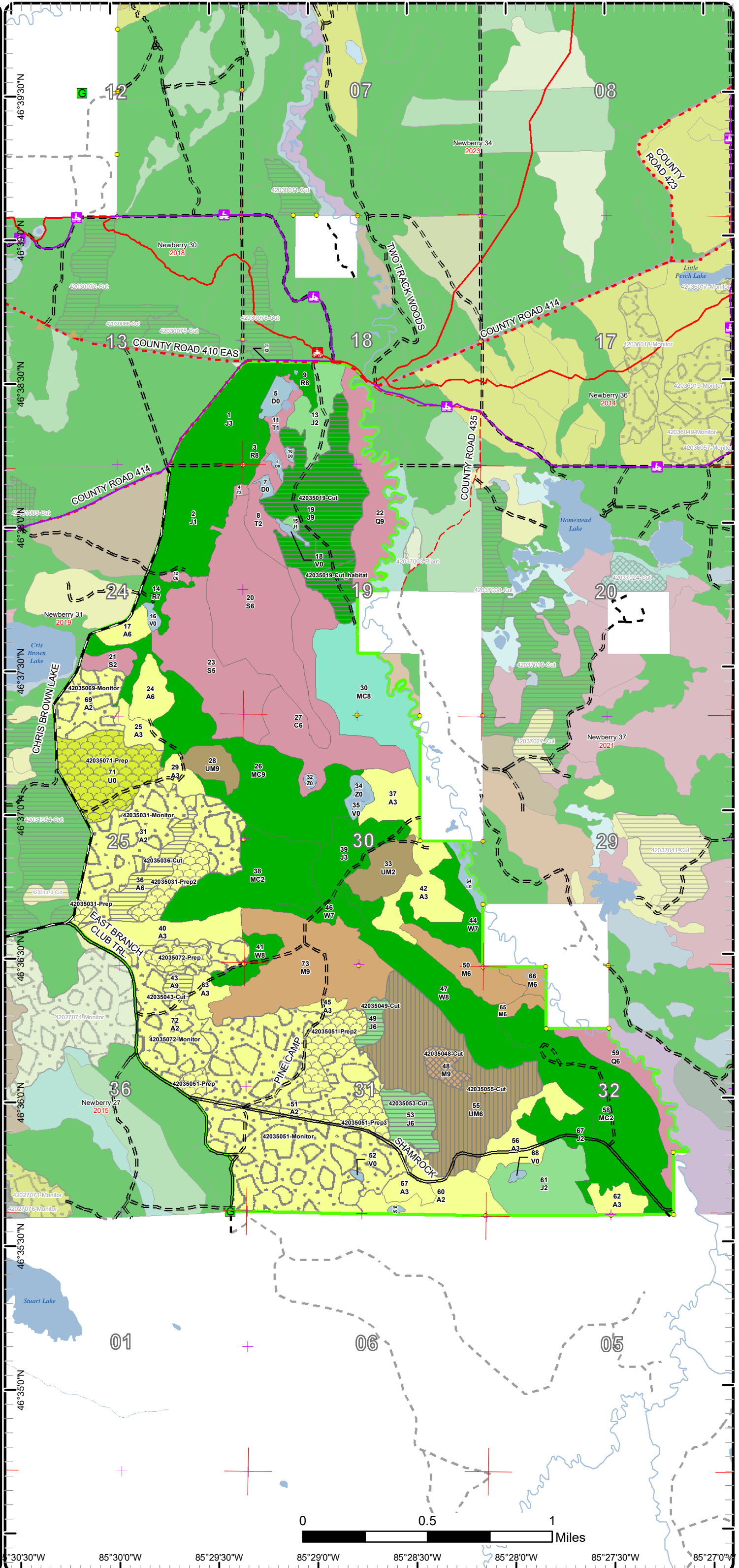
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 35
 T49N, R10W, Sec. 13, 24, 25, 36
 T49N, R09W, Sec. 18, 19, 30-32
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2022
 Acres: 2948.2 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 1/25/2021
 Map Phase: Post-Review



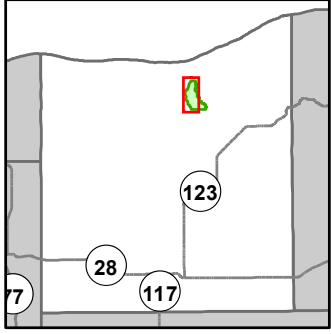
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Berms
- Gate
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Shelter Wood (w/Reserves)
- Site Prep
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



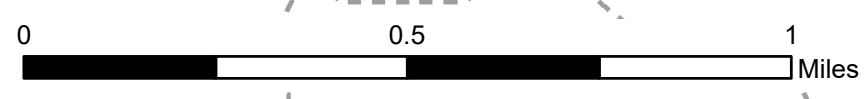
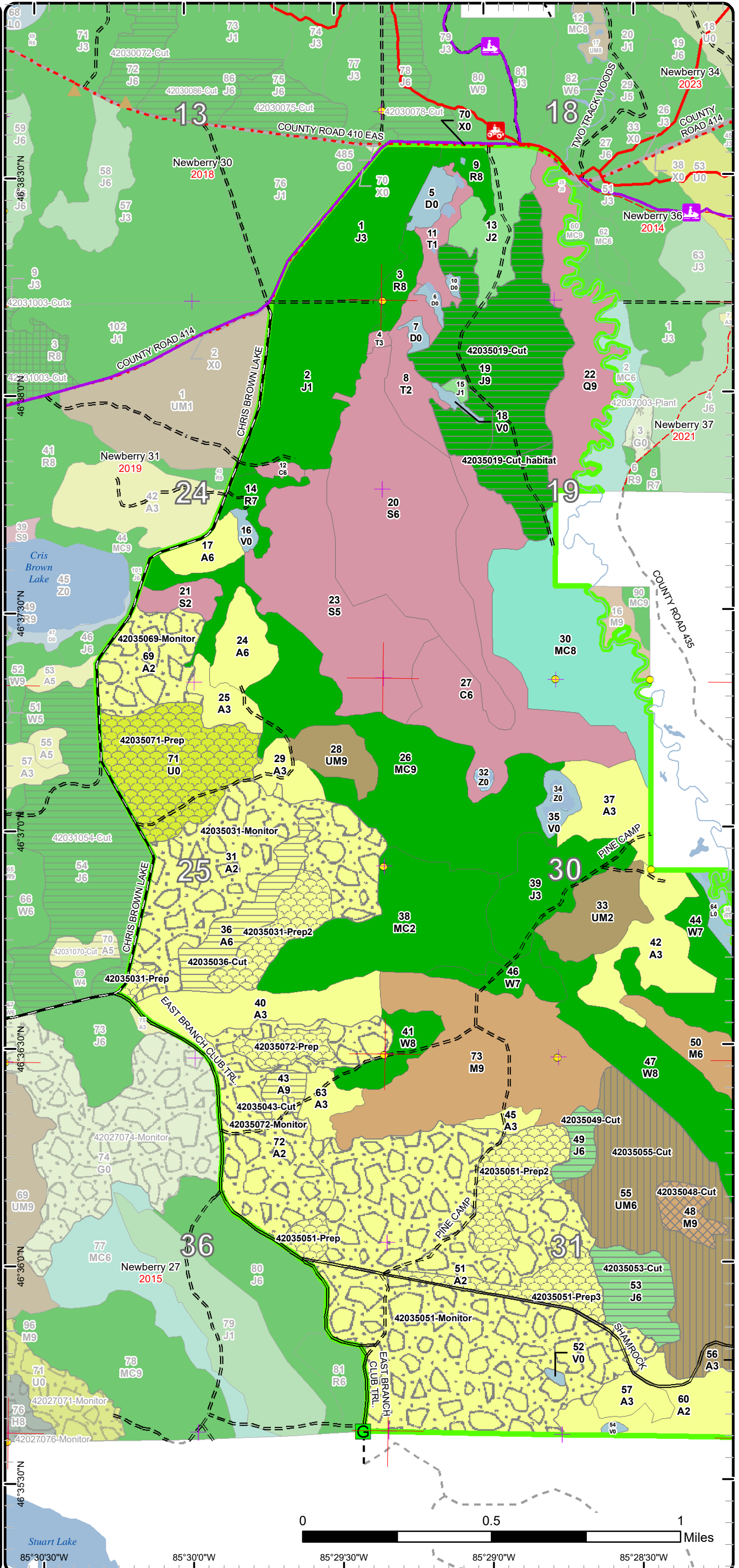
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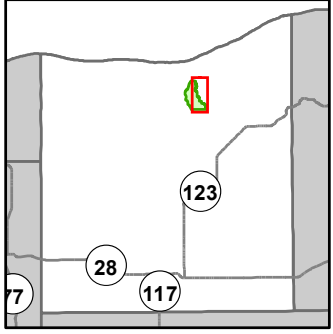
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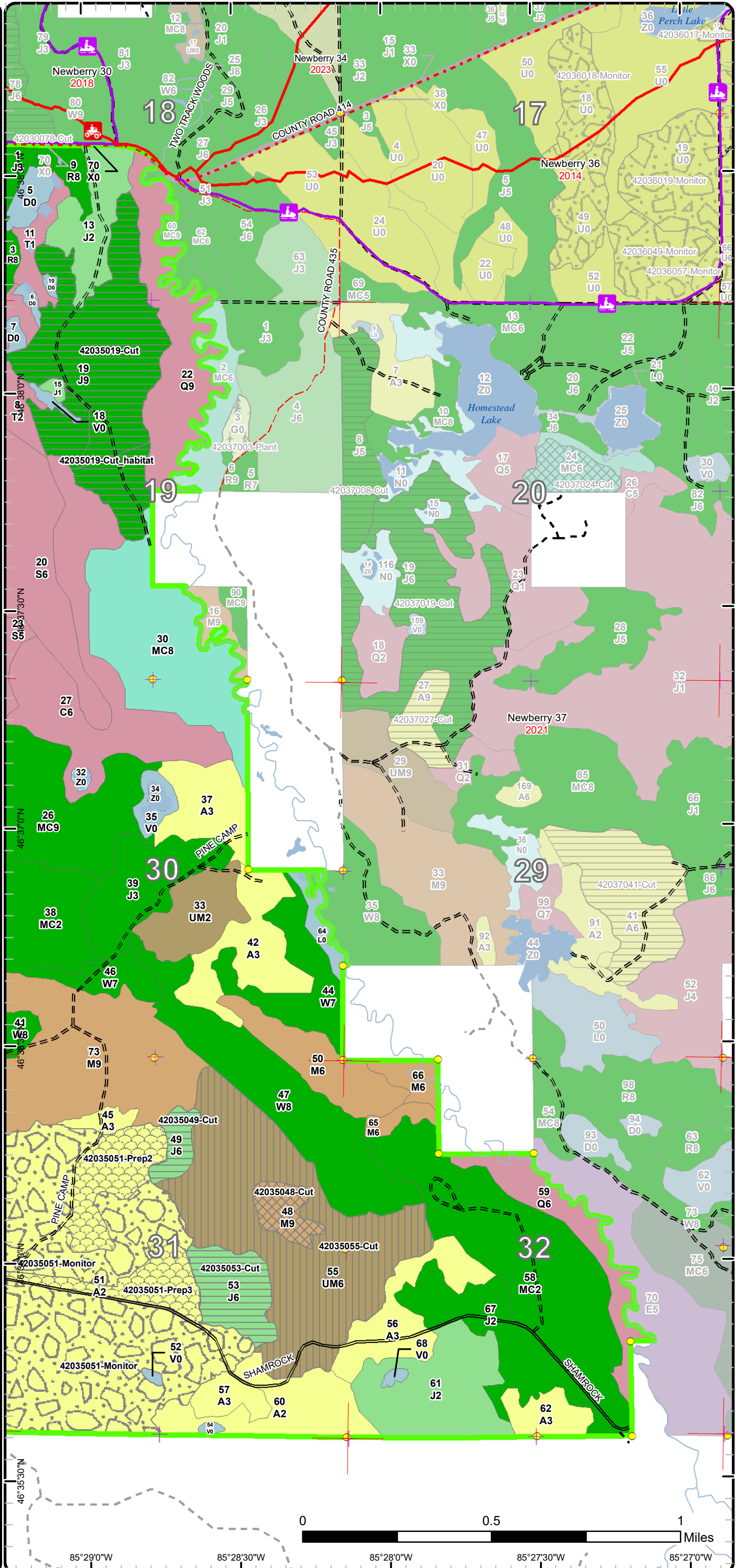
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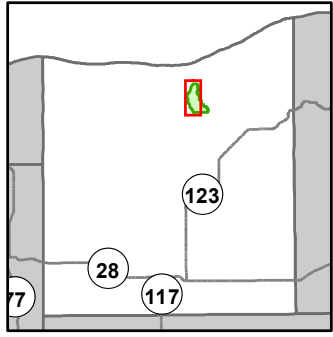


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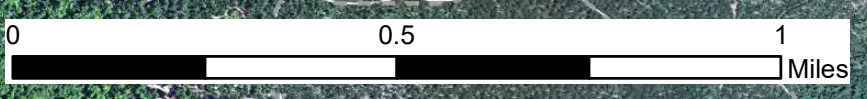
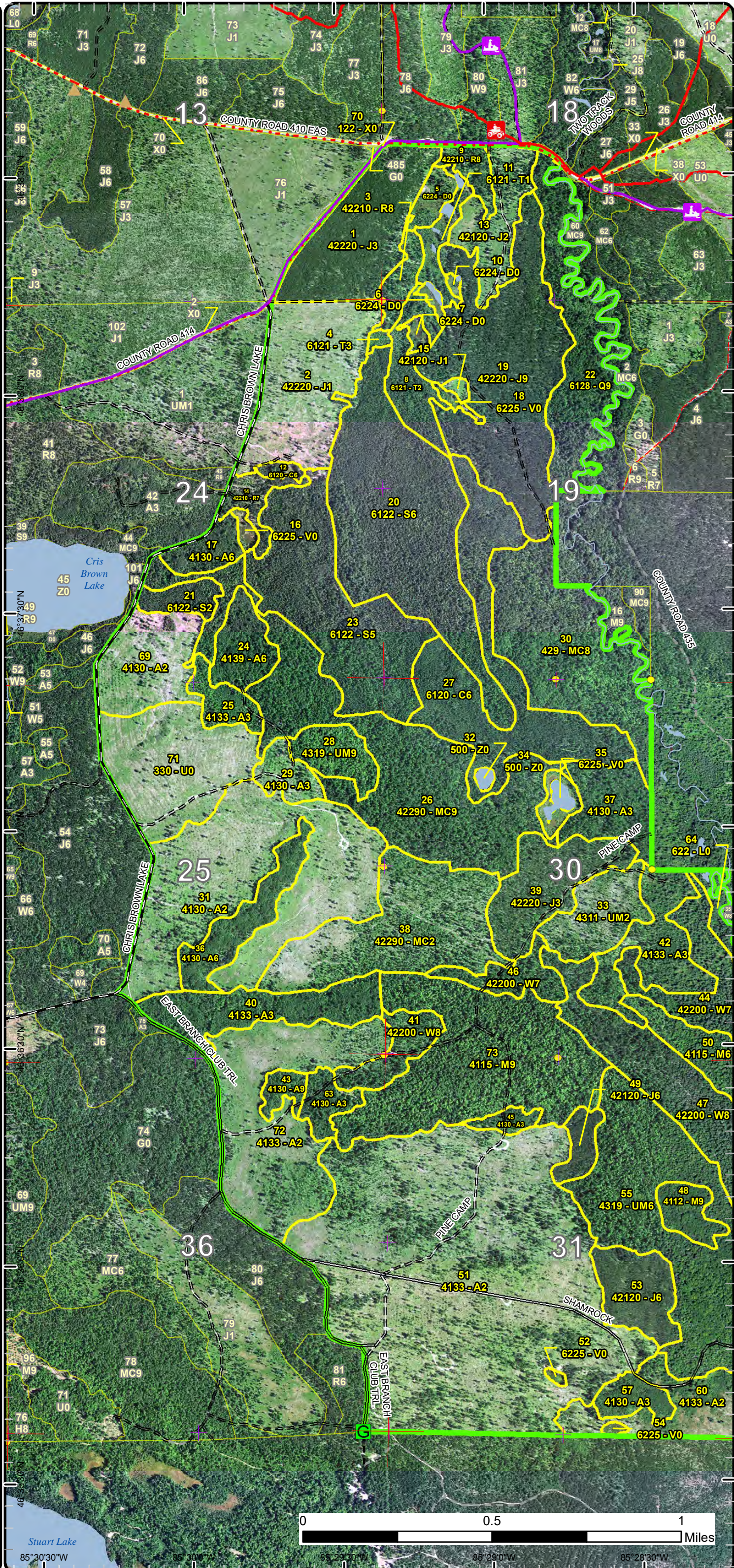


Stand Boundary Map

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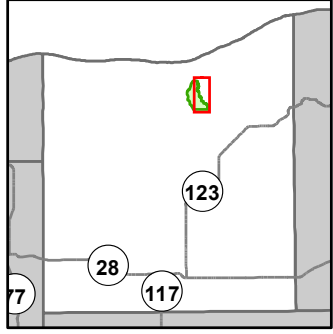
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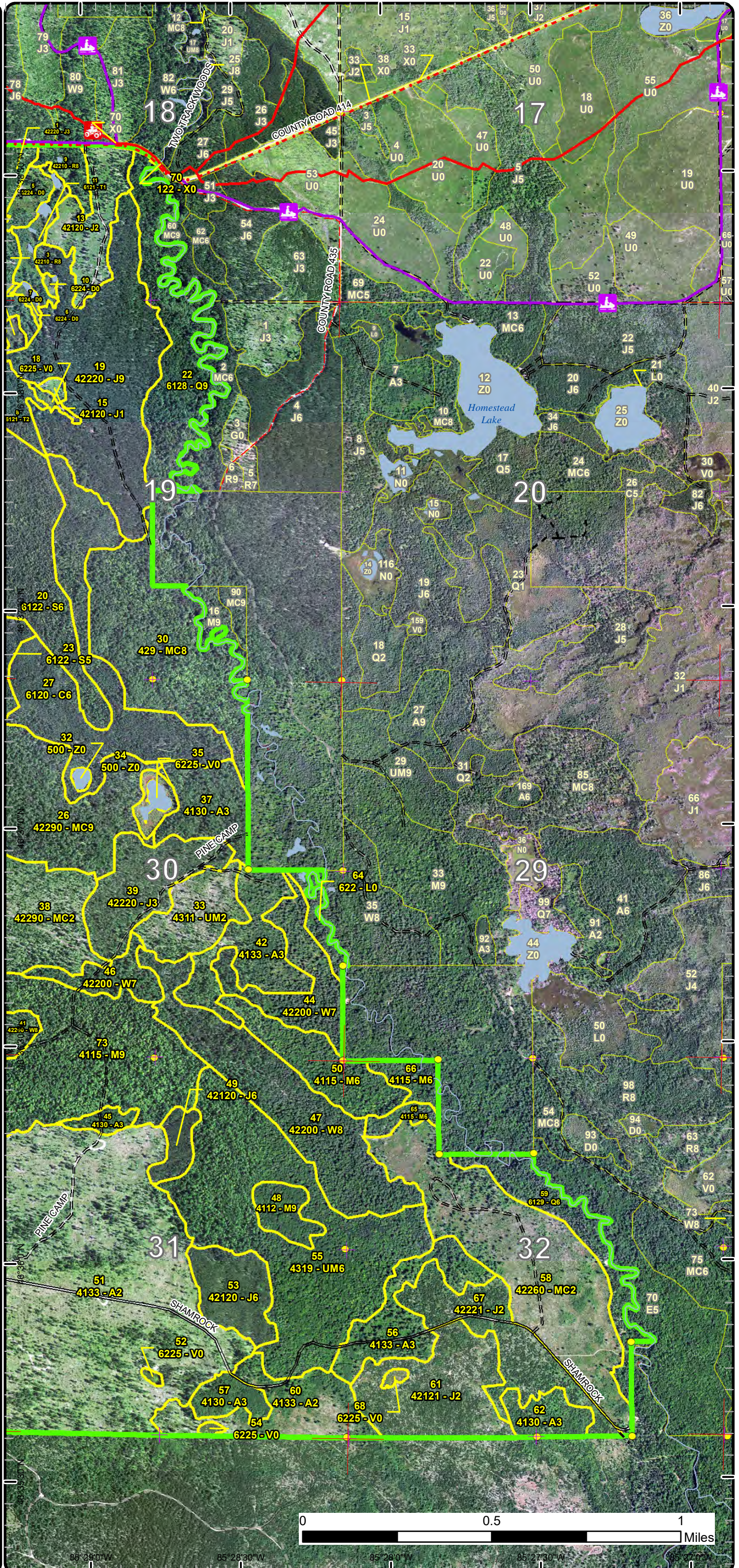
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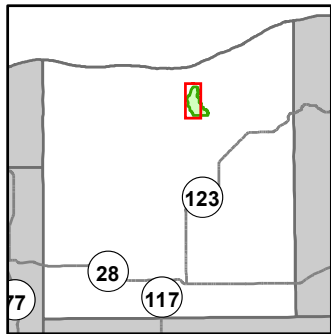
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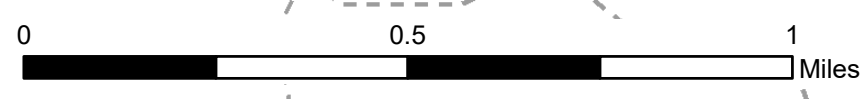
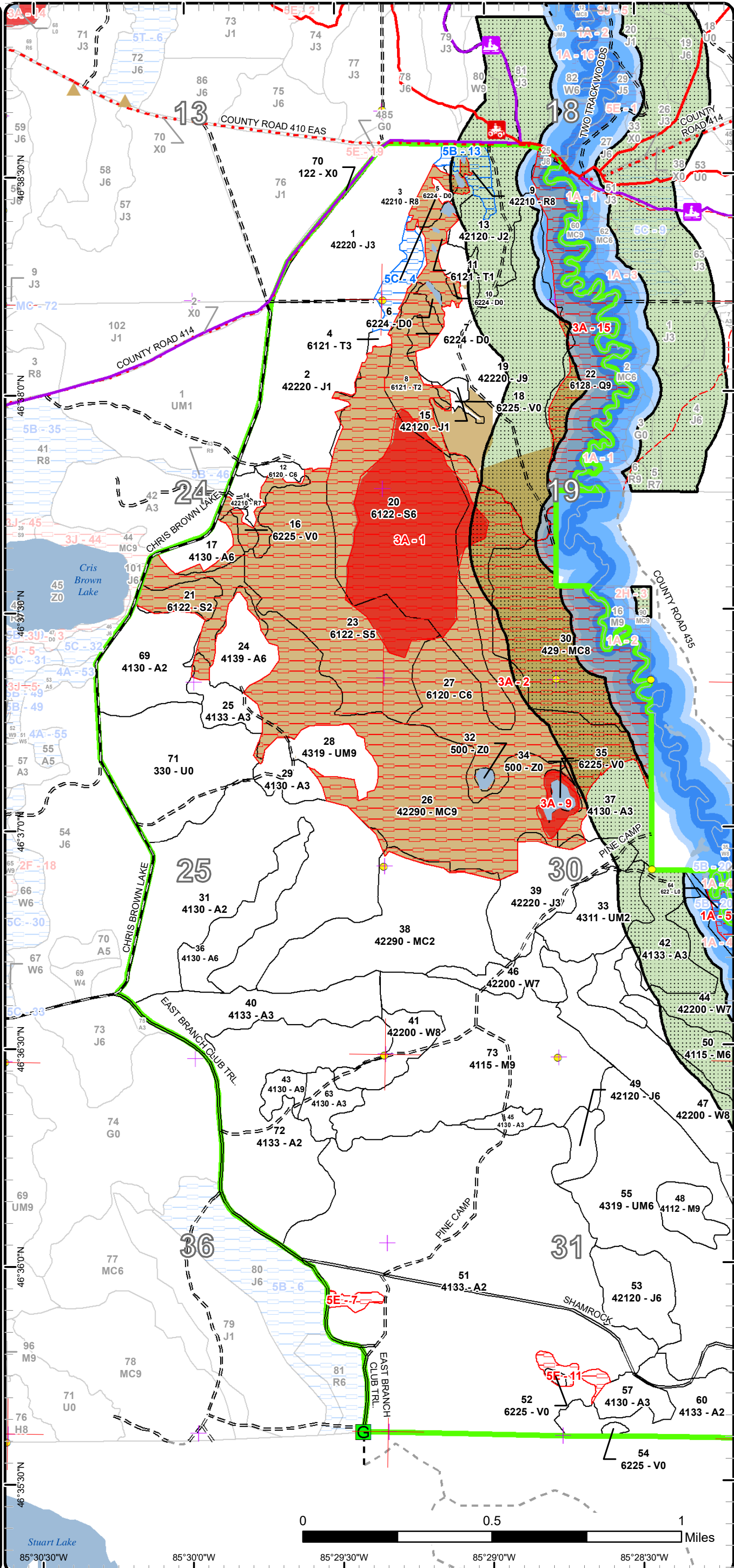
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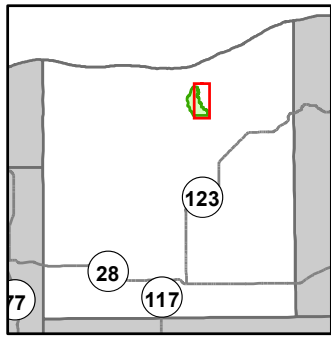
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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1A: Federal/State/Local Law
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



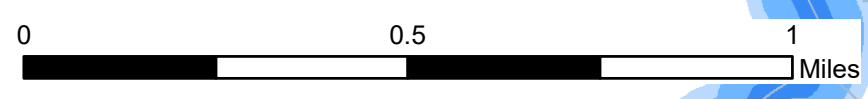
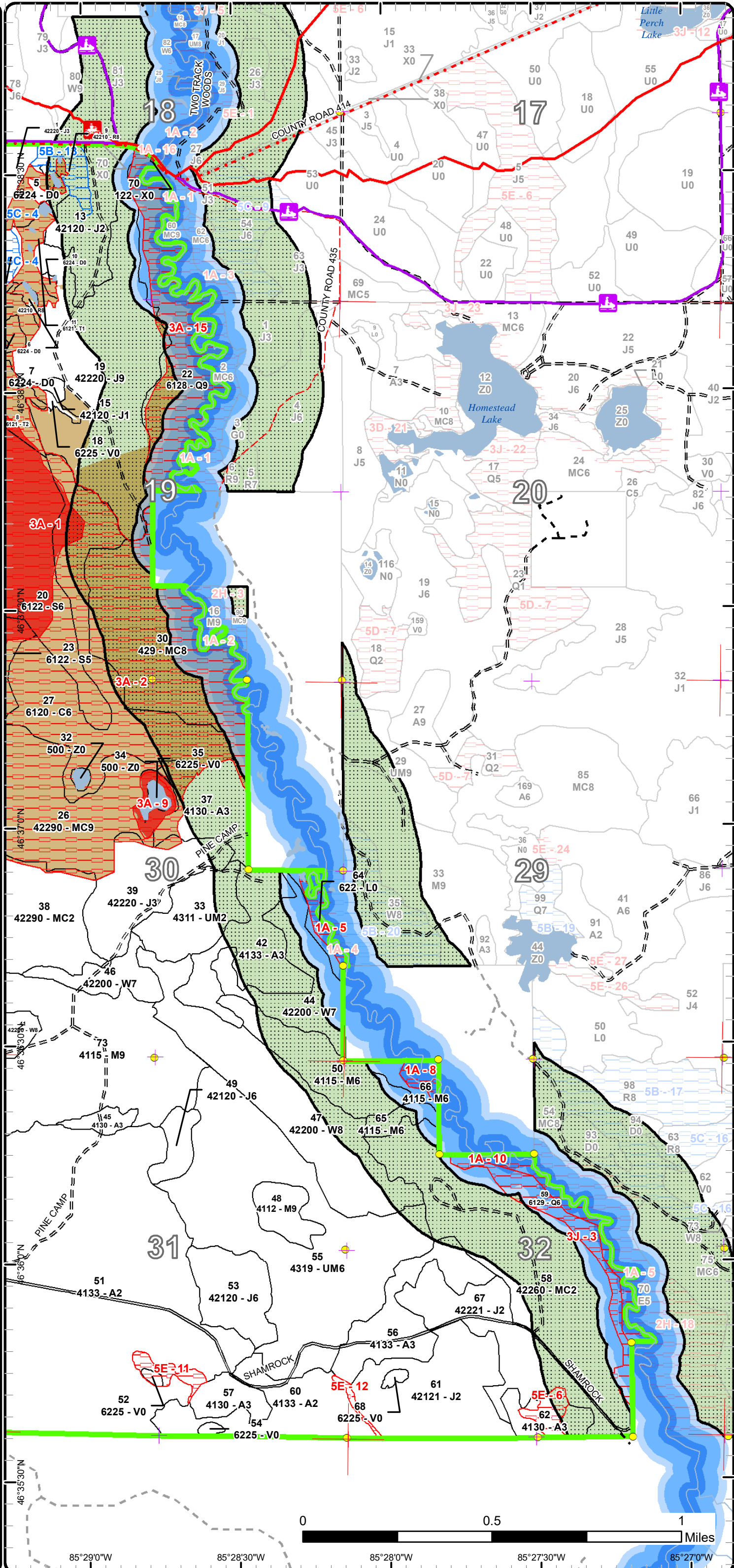
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- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 1A: Federal/State/Local Law
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



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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	634	131	79	61	0	0	27	7	0	0	0	0	0	0	0	0	0	938
Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Cedar	0	0	0	0	0	0	0	0	3	0	0	0	92	0	0	0	0	0	95
Jack Pine	0	103	0	160	41	0	37	122	0	0	0	0	0	0	0	0	0	0	463
Low-Density Trees	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	62	0	0	0	0	33	95
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	10	0	127	0	94	0	0	0	0	0	0	0	0	231
Natural Mixed Pines	0	0	199	0	0	0	0	0	0	0	139	0	0	0	0	0	0	0	338
Northern Hardwood	0	0	0	0	0	0	0	0	49	0	132	0	0	0	0	0	0	0	181
Red Pine	0	0	0	0	0	0	0	0	11	0	11	9	0	0	0	0	0	0	31
Tamarack	0	0	2	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	36
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	88
Upland Mixed Forest	0	0	29	0	0	0	0	0	0	0	164	0	0	0	0	0	0	0	193
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	52	0	96	0	0	0	0	0	0	0	148
Total	112	737	361	239	102	44	37	276	122	94	542	9	154	0	0	0	0	121	2948



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 35

Total Compartment Acres: 2,948

Commercial Harvest - 351
 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	34	0	0	0	0	0	0	0	0	34
Jack Pine	159	0	0	0	0	0	0	0	0	159
Northern Hardwood	0	13	0	0	0	0	0	0	0	13
Upland Mixed Forest	0	0	0	0	146	0	0	0	0	146
Total	192	13	0	0	146	0	0	0	0	351

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	351	168	0	0	0	0	519	0	0	1039
Next Step	0	678	815	0	0	0	1854	0	0	3346
Total	351	846	815	0	0	0	2373	0	0	4385



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

19	42035019-Cut	90.2	42220 - Natural Jack Pine	Sawtimber Well	62	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut leaving retention in patch(es). Try to leave patch(es) with highest diversity, located in the core interior habitat portion of the stand
Specs: (19-Cut_habitat). Follow Two-Hearted Natural River Guidelines for jack pine management.

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

Acceptable Jack pine
Regen:

Other Lines may vary during sale set-up, but core interior habitat focus will remain as is.
Comment: Follow up with trenching/planting to jack pine.

Site Condition

Proposed Start Date: 10/1 /2021

19	42035019- Cut_habitat	31.3	42220 - Natural Jack Pine	Sawtimber Well	62	51-80	Harvest	Clearcut with Retention	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription Cut all jack pine and leave all other species. Focus retention patches for all of stand 19 within this portion of the stand, trying to leave
Specs: patches with highest diversity. This portion is within the core interior habitat area. Follow Two-Hearted Natural River Guidelines for jack pine management.

Next Step SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Jack pine, red pine, white pine.
Regen:

Other Lines may vary during sale set-up, but core interior habitat focus will remain as is.
Comment: Follow up with scarification for mixed pine species.

Site Condition

Proposed Start Date: 10/1 /2021

31	42035031- Monitor	110.2	4130 - Aspen	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Review for areas of inadequate regeneration that would benefit from trenching and/or planting to jack pine.
Specs:

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

Acceptable Jack pine, aspen, white pine, red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2029



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31 42035031-Prep	3.5	4130 - Aspen	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench in preparation for planting to jack pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant <u>Treatments:</u> <u>Acceptable Regen:</u> Jack pine, aspen, white pine, red pine <u>Other Comment:</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
31 42035031-Prep2	24.4	4130 - Aspen	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench in preparation for planting to jack pine. <u>Specs:</u> <u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr) <u>Treatments:</u> <u>Acceptable Regen:</u> Jack pine, aspen, white pine, red pine <u>Other Comment:</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
36 42035036-Cut	26.6	4130 - Aspen	Poletimber Well	61		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving scattered red pine and white pine. Retention in patch(es). <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen with associated red maple, white pine, jack pine, red pine, birch. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
43 42035043-Cut	6.9	4130 - Aspen	Sawtimber Well	72		Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with no retention due to small size. Leave scattered white pine/red pine. Also, leave some mature aspen in the red line, especially <u>Specs:</u> on the north and east sides, as a winter food source for grouse. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen with associated maple, birch, white pine, red pine, jack pine. <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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48	42035048-Cut	12.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark trees down to an average of 80 BA, focusing on larger diameters and poor quality. Leave cherry, where feasible, for soft mast production for bear. Leave some larger birch for future den sites and some larger hemlock for bear refuge trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, yellow birch, cherry with associated hemlock and beech.

Regen:

Other This "core hardwood" stand was difficult to fully delineate. Acreage between this treatment and adjacent stand may differ depending on red line run.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

49	42035049-Cut	9.6	42120 - Planted Jack Pine	Poletimber Well	53		Harvest	Clearcut	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Clearcut with no retention due to size and forest health concerns; and to re-establish a stand of mature conifer in this part of the compartment for marten.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack pine

Regen:

Other Follow up with trench/plant to jack pine.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

51	42035051-Monitor	287.4	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Review for areas of inadequate regeneration that would benefit from trenching and/or planting to jack pine.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Jack pine, aspen, white pine, red pine

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2029

51	42035051-Prep	6.9	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
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Prescription Trench in preparation for planting to jack pine.

Specs:

Next Step Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable Jack pine, aspen, white pine, red pine

Regen:

Other

Comment: Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration.

Site Condition

Proposed Start Date: 10/1 /2020

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
51 42035051-Prep2	30.3	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> Trench in preparation for planting jack pine.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)										
<u>Treatments:</u>										
<u>Acceptable</u> Jack pine, aspen, white pine, red pine										
<u>Regen:</u>										
<u>Other</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration.										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2020										
51 42035051-Prep3	24.6	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> Trench in preparation for planting jack pine.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)										
<u>Treatments:</u>										
<u>Acceptable</u> Jack pine, aspen, white pine, red pine										
<u>Regen:</u>										
<u>Other</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration.										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2020										
53 42035053-Cut	27.5	42120 - Planted Jack Pine	Poletimber Well	53		Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	No
<u>Prescription</u> Clearcut with small retention pockets of mixed species, trying to exclude jack pine due to forest health concerns. Some pine species should be left in the red line against stand 55. Leave some scattered white pine to maintain structural and species diversity for wildlife.										
<u>Specs:</u>										
<u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)										
<u>Treatments:</u>										
<u>Acceptable</u> Jack pine, with some aspen.										
<u>Regen:</u>										
<u>Other</u> Follow up with trench and plant to jack pine.										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2021										
55 42035055-Cut	146.2	4319 - Mixed Upland Forest	Poletimber Well	91	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<u>Prescription</u> Leave tree mark hemlock, spruce and hardwood species, focusing on taking larger diameter maple. Cut all merchantable balsam. Residual BA should target 30-50. Focus on regeneration of hemlock and yellow birch where feasible. Retention pockets should focus on leaving hemlock groves/pockets intact to benefit marten denning and cover needs. Try to leave some healthy beech..										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Maple, hemlock, yellow birch, white birch, cherry, with associated other species.										
<u>Regen:</u>										
<u>Other</u> Acreage may differ depending on where the red line runs.										
<u>Comment:</u>										
<u>Site Condition</u>										
Proposed Start Date: 10/1 /2021										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
69 42035069-Monitor	39.5	4130 - Aspen	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Review for areas of inadequate regeneration that would benefit from trenching and/or planting to jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, aspen, white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</p>										
71 42035071-Prep	66.1	330 - Low-Density Trees	Nonstocked	0		SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench in preparation for planting to jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
72 42035072-Monitor	82.1	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	Monitoring	Natural Regen (Re-Inventory)	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Review for areas of inadequate regeneration that would benefit from trenching and/or planting to jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine, aspen, white pine, red pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</p>										
72 42035072-Prep	12.6	4133 - Aspen, Mixed Pine	Sapling Medium	6	Immature	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench in preparation for planting to jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr); Planting, Initial Plant; Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with aspen, red pine, white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Trench around areas of advanced regeneration if possible. Acreage might vary depending on advanced regeneration.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Habitat
Cut

Total Treatment
Acreage Proposed: 1038.7



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5B	5C	1A	3A	3J	5E	
940	913	0	27	Aspen				15			12
15	5	0	10	Bog				9			1
95	3	0	92	Cedar				92			
464	459	0	5	Jack Pine				4			0
67	67	0	0	Low-Density Trees				0			
95	4	0	91	Lowland Conifers			13	58	20		
8	3	0	5	Lowland Shrub			5				
231	1	0	231	Lowland Spruce/Fir				231			
338	197	0	141	Natural Mixed Pines				141			
181	176	0	5	Northern Hardwood			5				
31	6	18	6	Red Pine	8	10		6			
35	5	0	30	Tamarack				30			
14	2	0	12	Treed Bog				12			
88	0	0	88	Upland Conifers				88			
192	192	0	0	Upland Mixed Forest				0			
3	3	0	0	Urban				0			
4	0	0	4	Water				4			
147	147	0	0	White Pine			0				
2,948	2,182	18	748	Total Forested Acres	8	10	23	692	20		13
	74%	1%	25%	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	3A: Conservation Values incompatible with harvest at this time	95	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA and core interior habitat HCVA							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 35
Year of Entry: 2022



2	Unavailable	3A: Conservation Values incompatible with harvest at this time	530	Unspecified	Unspecified	Unspecified	Unspecified
Comments: core interior habitat HCVA							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	1A: Federal/State/Local Law	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River management zone							
6	Unavailable	5E: Long-Term Retention	6	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Evaluated for SBW.							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 35
Year of Entry: 2022



8	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River management zone							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Bog ERA and core interior habitat DHA/HCV							
10	Unavailable	1A: Federal/State/Local Law	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural River management zone							
11	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 35
Year of Entry: 2022



15	Unavailable	3A: Conservation Values incompatible with harvest at this time	60	Unspecified	Unspecified	Unspecified	Unspecified
Comments: core interior habitat HCVA							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
1	42220 - Natural Jack Pine	Sapling Well	59.4	27	Immature	N/A	Cut in 1994 by Rick Russell FP, in the Corner Jack Pine Sale. Scarified under FTP C-42-328. Natural Regeneration. It has scattered overstory of Red Pine, especially on the east side, where the topography is steep and falls off into the bog complex.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine	5	Log	10					
Jack Pine	95	Sapling	3	27				
2	42220 - Natural Jack Pine	Sapling Poor	71.4	6	Immature	N/A	Cut in 2014 - Merlin's Jack Pine 420211201. TCR 12/4/14 Scarified in 2015. 10/25/18 - 3 yr check - fully stocked.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	66	Sapling	1	6				
Red Pine	15	Log	14					
Bigtooth Aspen	5	Sapling	1					
Red Oak	2	Log/Pole	12					
Paper Birch	2	Pole	6					
White Pine	10	Pole/Sapling	5					
3	42210 - Natural Red Pine	Sawtimber Medium	10.6	96	81-110	N/A	Aspen and spruce removed in East Branch Sale completed in 2003.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine	20	Log/Pole/XLog	12	96				
Red Pine	80	Log/Pole	12	96				
Sub-Canopy Species		Density	Avg. Height	Size				
Black Spruce	Low	Variable	Sapling					
White Pine	Low	Variable	Sapling					
4	6121 - Tamarack	Sapling Well	1.7	18	Immature	N/A	Nice tamarack regen. Clearcut in 2003 as part of East Branch Sale (#14-02).	
Canopy Species		% Cover	Size Class	DBH	Age			
Tamarack	70	Sapling	2	18				
Black Spruce	10	Sapling	2					
White Pine	3	Sapling	2					
Jack Pine	2	Sapling	2					
Red Maple	15	Sapling	2					
5	6224 - Treed Bog	Nonstocked	8.0			612 - Lowland Coniferous Forest		
Sub-Canopy Species		Density	Avg. Height	Size				
Michigan Holly	Trace		Tall Shrub					
Nannyberry	Trace		Tall Shrub					
Tag Alder	Trace		Tall Shrub					
Black Spruce	Low		Sapling					
6	6224 - Treed Bog	Nonstocked	2.2			No		
Sub-Canopy Species		Density	Avg. Height	Size				
Black Spruce	Low		Sapling					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
7	6224 - Treed Bog	Nonstocked	2.7			No																																																
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td></td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low		Sapling																																									
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Black Spruce	Low		Sapling																																																			
8	6121 - Tamarack	Sapling Medium	21.8	46		N/A	This stand is Tamarack and Black Spruce in the low areas with tag alder in wet areas and it has red pine poles on low sand ridges (1-3 ft above water table)																																															
				<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Tamarack</td> <td>75</td> <td>Sapling/Pole</td> <td>4</td> <td>46</td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Pole</td> <td>6</td> <td>56</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	75	Sapling/Pole	4	46	Red Pine	5	Pole	6	56	White Pine	10	Log/Pole	12		Black Spruce	10	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Medium</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	< 5 feet	Sapling														
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Black Spruce	Medium	< 5 feet	Sapling																																																			
9	42210 - Natural Red Pine	Sawtimber Medium	8.9	102	81-110	N/A	Red Pine White Pine mix along Co rd 414. This stand was species thinned for spruce and aspen in 2003. 6/2020: areas thick to aspen greater than 20' tall. Drainages running throughout.																																															
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10	6224 - Treed Bog	Nonstocked	1.1			No																																																
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11	6121 - Tamarack	Sapling Poor	11.9	46		N/A	This stand is Tamarack and Black Spruce in the low areas with tag alder in wet areas and it has red pine poles on low sand ridges (1-3 ft above water table)																																															
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12	6120 - Lowland Cedar	Poletimber Well	2.9	76	81-110	N/A	Water feature in an upland setting. It has pine edges grading quickly to northern white cedar.																																															
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13	42120 - Planted Jack Pine	Sapling Medium	30.1	9	Immature	N/A	2010: This stand was harvested in 2003, leaving red and white pine retention. Scarified in 2004. Planted 5/2012. 6/2020: planted JP ~5-10' tall.																																													
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14	42210 - Natural Red Pine	Sawtimber Poor	11.1	77	51-80	N/A	This was harvested with pine residual reserved in 2003.																																													
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15	42120 - Planted Jack Pine	Sapling Poor	1.8	9	Immature	N/A	This was harvested in the East Branch Sale; completed in 2003. It has mostly red maple regen, with a little jack pine and spruce showing above the snow. There is a small bog at the southern end, which tends to extend to the southeast. There is no outlet drainage to the river, so any flow must be sub-surface. 6/2020: planted at the same time as std 13. Not the best survival. ~5-10' tall JP																																													
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16	6225 - Bog	Nonstocked	2.9			No																																														
17	4130 - Aspen	Poletimber Well	12.7	37		N/A	Harvested in sale 10-84-1 with some white pine residual remaining. Trail to Cris Brown Lake runs past this stand. 6/2020: just coming into pole size. Thick stand.																																													
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18	6225 - Bog	Nonstocked	2.2	0		No																																														
19	42220 - Natural Jack Pine	Sawtimber Well	121.5	62	51-80	N/A	Part of this may have been planted in 1973, but it was interplant with existing natural regen, so it is hard to determine. There is more spruce to the northeast and more jack pine to the middle. In the south, spruce once again shows up. Basal area is variable. Records say part of this is planted in 1973, and part was older from a cut and scarification, the density is not high, and there is little mortality. It has an open understory.																																													
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20	6122 - Black Spruce	Poletimber Well	126.9	65		N/A	2010: This was called a poor swamp with a no cut call last time. It was also called variable from low-stocked treed bog to spruce-cedar-fir. I concur. Has a great deal of complexity and structure.																																																																				
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21	6122 - Black Spruce	Sapling Medium	10.2	45		N/A	Low area that seems to have subterranean drainage to Cris Brown Lake. Quit a lot of alder and small diameter spruce and fir on hummocks. 6/2020: data rolled over from last YOE.																																																																				
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22	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	62.4	111		N/A	2010: This stand is complex. It has large White pine, hemlock, spruce coniferous-both upland and lowland. It also has lowland hardwood/tag alder areas. It also has various levels of canopy, more so than is usual in this area. This is part of the buffer of the East Branch of the Two-Hearted-a designated Natural River. 2020: Did not visit. Data taken in 2010.																																																																				
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23	6122 - Black Spruce	Poletimber Medium	94.2	81		N/A	Variable swamp conifer stand. Just above water table. Density varies.																																																																				
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24	4139 - Aspen, Mixed Deciduous	Poletimber Well	19.7	36		N/A	2010: It may be a good stand to check for woodcock use. There is a two track that goes to it, but it is brushed in when you get to this stand. There is some coyote and hare use. 6/2020: cut in 1985																																																																				
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25	4133 - Aspen, Mixed Pine	Sapling Well	12.5	17	Immature	N/A	Stand cut in Cris Brown Aspen sale 2004; Mostly aspen regen with some conifer.																																																												
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26	42290 - Natural Mixed Pine	Sawtimber Well	139.1	91	111-140	N/A	2010: White pine scattered over a wide range of species from hardwood to cedar. Complex stand. Good wildlife use.																																																												
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27	6120 - Lowland Cedar	Poletimber Well	91.8	111	111-140	N/A	2020: Did not visit. Data taken in 2010.																																																												
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28	4319 - Mixed Upland Forest	Sawtimber Well	17.5	91	111-140	N/A	2010: Stand is recovering from loss of beech trees from Beech Bark Disease. Looks like good regeneration is occurring. Most of aspen will be in broken out into stand to the west, next to jack pine. Birch is past prime and falling over. 6/2020: lots of large hemlock pockets (greater than 140 BA in those pockets); areas with more maple could be thinned but are relatively small in acreage and much lower BA (~80-100) and lots of balsam poles.																																																												
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29	4130 - Aspen	Sapling Well	12.0	7	Immature	N/A	Cut in 2014 - Swainson's Jack Pine 420221201. TCR 12/4/14 6/2020: not a lot different than std to the south.																																																												
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30	429 - Mixed Upland Conifers	Sawtimber Medium	88.3	87	81-110	N/A	2010: It is a mixed stand with white pine over the top of white birch, red maple, spruce and some jack pine. It is a transitional stand between upland and lowland. Two track to river access.																																																			
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31	4130 - Aspen	Sapling Medium	138.2	6	Immature	N/A	Cut in 2014 - Swainson's Jack Pine 420221201. TCR 12/4/14 Scarified 2015. Regen Check 2018 - 248 TPA JP - failed (numbers are for all 255 acres of the original sale). 6/2020 - divided original stand into 3 portions. This is the southern portion and is primarily aspen. Stand type line is roughly drawn.																																																			
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32	500 - Water	Nonstocked	1.6			No																																																				
33	4311 - Pine, Aspen Mix	Sapling Medium	28.6	17	Immature	N/A	This was harvested in the Pine Camp Mix sale (#013-92). It was completed in 09/04. FTP (C42-568) for scarification never completed.																																																			
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34	500 - Water	Nonstocked	2.1			No																																																				
35	6225 - Bog	Nonstocked	6.2			No																																																				
36	4130 - Aspen	Poletimber Well	26.9	61		N/A	Long narrow ridge of sandy soil. Healthy looking stand.																																																			
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37	4130 - Aspen	Sapling Well	28.9	34	Immature	N/A	This was harvested in sale 26-84-1. Just starting to grow into pole size.																																											
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38	42290 - Natural Mixed Pine	Sapling Medium	84.3	17	1-50	N/A	Harvested in the Pine Camp Road Sale. Completed in 11/04. Red and Jack pine residual. Never scarified.																																											
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39	42220 - Natural Jack Pine	Sapling Well	41.2	34	Immature	N/A	This area was cut in 26-84-1, completed April of 1987. Scarified 10/87.																																											
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40	4133 - Aspen, Mixed Pine	Sapling Well	42.1	28	Immature	N/A	Aspen with some white pine residual. This stand was harvested in the Little White Pine sale. It was completed in 09/93. This was a Mackinac Mix before the sale, with white pine predominant.																																											
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41	42200 - Natural White Pine	Sawtimber Medium	17.6	79	81-110	N/A	Cut in 1993 as part of Little White Pine, #043-92. White pine stand that had a prescribed burn in 8/2008. It has control lines.																																											
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44	42200 - Natural White Pine	Sawtimber Poor	34.1	76	51-80	N/A	2010: This stand was cut in 2004 as part of the Pine Road Mix sale. It is within the 1/4 mile zone of the natural river's act. It is within the 300 foot distance regarding road placement. It is within the 100 to 300 ft buffer for white pine management. See natural rivers document for other information.																																																						
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45	4130 - Aspen	Sapling Well	5.5	17	Immature	N/A	This was unit two in the Chris Brown Aspen sale, completed in 7/04. unblocked two track goes through the stand.																																																						
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46	42200 - Natural White Pine	Sawtimber Poor	15.7	91	81-110	N/A	Had a partial cutting in the Big White Pine Sale 1993, a pulp/log thinning.																																																						
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47	42200 - Natural White Pine	Sawtimber Medium	79.9	91	81-110	N/A	A portion of the stand had a partial cutting in the Big White Pine Sale 1993, a pulp/log thinning. Underburn was cancelled. 6/2020: large WP over mix of understory saplings/small poles.																																																						
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48	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.8	91	111-140	N/A	2010: This stand is one of the few hardwood areas in the compartment. It is probably a better producer of hemlock and white pine than quality sugar maple. It has advanced BBD. Formerly beech, hemlock, white pine, yellow birch, red maple and sugar maple. The stand is variable in composition and stocking. 6/2020: heart of the hardwood stand with little hemlock. Hard to type from photo. 120, 100, 100 hm 20% 14" l/p rm 70% 14" l/p rm m- h beech md																																																						
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49	42120 - Planted Jack Pine	Poletimber Well	9.7	53		N/A	Planted in 1968. Good density. Has an old trail to stand that is getting brushed in. 6/2020: very thin looking, moderate mortality. Could push north and east edge where aspen is.																																																						
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50	4115 - Y.Birch, Hemlock NH	Poletimber Well	33.1	71	81-110	N/A	In Two-hearted management influence zones-see natural rivers plan. White pine and deciduous mix. Stands to the north were cut in Pine camp mix completed in 9/04. Many Beech have passed over due to BBD, a few potentially resistant remain.																																																						
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51	4133 - Aspen, Mixed Pine	Sapling Medium	349.2	6	Immature	N/A	2/26/16 - Stand was harvested sale #420231201 Harrier's Jack Pine. Scarification completed in 2015. Regen survey summer 2017 (covering all 437 acres of original sale). Black Cherry 74 Trees/acre, Big toothed aspen 144 Trees/acre, Jack Pine 46 Trees/acre, Trembling aspen 301 Trees/acre, Red maple 397 Trees/acre, White Pine 69 Trees/acre, Beech 33 Trees/acre, Balsam Fir 16 Trees/acre, Red Pine 24 Trees/acre. 6/2020: stand was split due to variable regeneration. This portion contains patches of aspen, scattered young white pine left from cutting, scattered red maple, residual red pine/white pine, and areas of jack pine (6" - 3' tall) seeding in. Aspen is approx. 5'+ tall.																																																					
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52	6225 - Bog	Nonstocked	1.0	0		No																																																						
53	42120 - Planted Jack Pine	Poletimber Well	27.6	53		N/A	Planted jack pine. Very good density control. Planted in 1968. Occasional white pine or quaking aspen. 6/2020: experiencing mortality. Sparse looking tops (budworm?)																																																					
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55	4319 - Mixed Upland Forest	Poletimber Well	146.4	91	111-140	N/A	2010: Topo variable, several short steep slopes. Hardwood mix with a good bit of spruce and fir regeneration. 6/2020: 140, 80, 120, 110, 90, 100, 100, Highly variable stand. Lots of smaller dbh (6") and some large dbh (18"+). Pockets of thick balsam understory (west side). Portions cut in 1974 (#21-74A) and 1982 (#18-82)																																																					
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Balsam Fir	10	Pole	9	47																																																								
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56	4133 - Aspen, Mixed Pine	Sapling Well	33.8	17	Immature	N/A	This was Unit 1 of the Shamrock Mix sale, completed in May 2004. Jack pine, red maple and aspen formerly. Quaking aspen regen now with red pine and white pine residual.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
57	4130 - Aspen	Sapling Well	11.3	27	Immature	N/A	Harvested in Shamrock Mix sale, completed in 9/1994.																																							
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58	42260 - Natural Pine, Mixed Deciduous	Sapling Medium	114.3	17	Immature	N/A	This was harvested in the Shamrock Jack Pine sale, completed in 10/04. Mosaic of JP w/ aspen clones.																																							
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59	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	32.7	131		N/A	Area near river with very steep slopes. In the special management area of the natural river plan. Has a mixture of lowland conifer, white pine and lowland hardwood species. Transitional between upland and lowland.																																							
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60	4133 - Aspen, Mixed Pine	Sapling Medium	40.5	17	Immature	N/A	This was harvested in Shamrock Mix sale, completed in May 2004. Areas of thick regen mixed with areas of sparse to medium regen. Variable stand, may need to split next entry.																																							
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61	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Medium	55.7	21	Immature	N/A	This was harvested in the Jack Pine Vista Sale, completed in 1996. Jack pine was machine planted in 5/2000 (FTP 42-388). Jack Pine and aspen regeneration is thicker in the north, but filling in elsewhere.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
62	4130 - Aspen	Sapling Well	14.5	25	Immature	N/A	There are some residual trees on a steep, complex slope. The stand was harvested in the Jack Pine Vista sale, completed in February of 1996.6/2020: Primarily aspen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Pole	6		White Pine		
Paper Birch		5	Pole	8		Low		
White Pine		5	Log	16	71	Variable		
Quaking Aspen		75	Sapling/Pole	3	25	Sapling		
Jack Pine		5	Pole/Sapling	6				
Balsam Fir		5	Pole/Sapling	6				
63	4130 - Aspen	Sapling Well	11.5	28	Immature	N/A	Cut in 1993 as part of Little White Pine #043-92. Aspen with some residual white pine.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		10	Sapling/Pole	3				
White Pine		10	Log	12				
Quaking Aspen		65	Sapling/Pole	3	28			
Balsam Fir		5	Sapling	3				
Bigtooth Aspen		10	Sapling/Pole	3				
64	622 - Lowland Shrub	Nonstocked	8.5	0		No	River buffer	
65	4115 - Y.Birch, Hemlock NH	Poletimber Well	6.0	71	81-110	N/A	2010: In Two-hearted management influence zones-see natural rivers plan. White pine and deciduous mix. Stands to the north were cut in Pine camp mix completed in 9/04. Many Beech have passed over due to BBD, a few potentially resistant remain. 2020: this small stand was to be thinned as part of Pine Camp Mix (#013-02), but was part of a fire on 7/29/2004. No cutting occurred. Did not visit. Data taken from 2010.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		10	Log/Pole	10	71	Sugar Maple		
Red Maple		50	Pole/Log	10	71	Low		
Yellow Birch		5	Pole/Sapling	6	66	< 5 feet		
White Pine		10	Pole/Sap/Log	9	26	Sapling		
Hemlock		25	Log/Pole	12	81	Medium		
						< 5 feet		
						Sapling		
						Low		
						5 - 10 feet		
						Sapling		
66	4115 - Y.Birch, Hemlock NH	Poletimber Well	9.5	71	81-110	N/A	In Two-hearted management influence zones-see natural rivers plan. White pine and deciduous mix. Did not visit. Data taken in 2010.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		10	Log/Pole	10	71	Sugar Maple		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
67	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	45.6	25	Immature	N/A	This was harvested in the Jack Pine Vista Sale, completed in 1996. Jack Pine and aspen regeneration is thicker in the north, but filling in elsewhere.																																																
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68	6225 - Bog	Nonstocked	1.4	0		No																																																	
69	4130 - Aspen	Sapling Medium	39.7	6	Immature	N/A	Cut in 2014 - Swainson's Jack Pine 420221201. TCR 12/4/14 Scarified 2015. Regen Check 2018 - 248 TPA JP - failed (numbers are for all 255 acres of the original sale). 6/2020 - divided original stand into 3 portions. This is the northern portion and is primarily aspen, with some areas fully stocked (75 - 100% canopy closure). Stand type line is roughly drawn.																																																
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70	122 - Road/Parking Lot	Nonstocked	3.3	0		No	County Road 414																																																
71	330 - Low-Density Trees	Nonstocked	66.9	0		4212 - Planted Jack Pine	Cut in 2014 - Swainson's Jack Pine 420221201. TCR 12/4/14 Scarified 2015. Regen Check 2018 - 248 TPA JP - failed (numbers are for all 255 acres of the original sale). 6/2020 - divided original stand into 3 portions. This is the middle portion and is primarily non-stocked, although there are a few areas stocked with seedling/saplings. Stand type line is roughly drawn.																																																
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72	4133 - Aspen, Mixed Pine	Sapling Medium	95.1	6	Immature	N/A	2/26/16 - Stand was harvested sale #420231201 Harrier's Jack Pine. Scarification completed in 2015. Regen survey summer 2017 (covering all 437 acres of original sale). Black Cherry 74 Trees/acre, Big toothed aspen 144 Trees/acre, Jack Pine 46 Trees/acre, Trembling aspen 301 Trees/acre, Red maple 397 Trees/acre, White Pine 69 Trees/acre, Beech 33 Trees/acre, Balsam Fir 16 Trees/acre, Red Pine 24 Trees/acre. 6/2020: stand was split due to variable regeneration. This portion does not contain as much white pine as stand 51. It is a mosaic of aspen with jack pine. Some areas are heavier to jack pine (6" - 3.5' tall).																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 4115 - Y.Birch, Hemlock NH Sawtimber Well 119.3 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	43	Log/Pole	13	91
Yellow Birch	5	Log/Pole	11	85
Beech	5	Log	12	
White Pine	2	Log	16	
Hemlock	30	Log/Pole	14	91
Sugar Maple	10	Log/Pole	12	
Balsam Fir	5	Pole	8	47

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	>20 feet	Sapling
Beech	Medium	>20 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Hemlock	Low	Variable	Sapling

2010: This stand is one of the few hardwood areas in the compartment. It is probably a better producer of hemlock and white pine than quality sugar maple. It has advanced BBD. Formerly beech, hemlock, white pine, yellow birch, red maple and sugar maple. The stand is variable in composition and stocking.
6/2020: cut in 1973-74 under #19-73A. Not a lot different overall than adjacent stand. Split for treatment purposes.