



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42004

Entry Year 2024

Acreage: 1,737

County Luce

Management Area: Deer Park

Stand Examiner: Jacob Kriehn

Legal Description:

T49N R12W Sections 1, 2 and 3

T50N R12W Sections 33, 34 and 35

Identified Planning Goals:

Vegetative management for the Deer Park Management Area will emphasize balancing the age classes of jack pine and red pine, and provide various timber products. Management will maintain or enhance wildlife habitat.

Soil and topography:

This compartment is dominated by the Deer Park Sand and the Crowell-Spot soil complex. The Deer Park Sand has slopes ranging from 0-60% and is excessively drained with highly decomposed plant material. These soils consist of old sand beach ridges and dunes that support Jack Pine. The Crowell-Spot complex is moderately well drained with slopes varying from 0-6%. This soil holds more moisture and supports more white pine and spruce. The only other occurring soil found in this compartment is the Dawson Greenwood and Loxley complex that is very poorly drained with a mucky peat surface which supports Lowland Black Spruce and Tamarack.

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

This compartment is entirely state-owned. There are many opportunities for recreation, including, but not limited to, hunting, fishing, ORV, snowmobiling, hiking, skiing, biking, and berry-picking, within and surrounding the compartment. Much of the surrounding land is also state-owned, which provides additional opportunities for timber harvests and recreation.

Unique Natural Features:

Michigan Natural Features Inventory (MNFI) notes numerous communities dry northern forest, dry-mesic northern forest, mesic northern forest, bog, muskeg, rich conifer swamp, hardwood-conifer swamp, and patterned fen. MNFI also lists potential for osprey, eagle, merlin, goshawk, great blue heron rookery, loon, Blanding's turtle, marsh birds including, yellow rail, American bittern, least bittern, marsh wren, and common moorhen. Potential for calypso, round-leaved orchid, ram's head lady's slipper, and limestone oak fern. Potential for pine-drops, auricled twayblade orchid, American shoregrass, moor rush, paniced srew-stem, Hill's pondweed, alternate-leaved water-milfoil, and autumnal water star-wort.

Archeological, Historical, and Cultural Features:

None were noted during the check.

Special Management Designations or Considerations:

Some of the plantations are mixed with white and red pine. The jack pine stands near Lake Superior are primarily of natural origin. Most of the jack pine occurs on the dry, sandy soils of outwash plains and beach ridges, with a PVE habitat type. Jack pine is well suited to these very dry, very poor nutrient sites, and provides a valuable timber resource in this MA. There are two State Forest Campgrounds located within this compartment and the Blind Sucker Pathway and North Country Pathway traverse the compartment. Most of the area is designated critical dunes with no cutting allowed on slopes steeper than 25% and cutting within the designation requiring a permit from DEQ. There is also a designated wildlife flooding within the compartment boundary.

Watershed and Fisheries Considerations:

This compartment contains Blind Sucker Flooding and Blind Sucker River. The Blind Sucker Flooding possesses one of the higher quality northern pike populations in the EUP. The Blind Sucker River is the original stream channel for the Sucker River, which was diverted in the late 1800's to Grand Marais. The river is a designated trout stream and experiences periodic runs of pink salmon and a few steelhead. All proposed treatments should adhere to a riparian management zone of 100 feet, plus an additional 5 feet per 1% increase in slope around each of these important waterbodies and other surface water.

Wildlife Habitat Considerations:

Compartment 4 lies in far northern Luce county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is bordered by Lake Superior to the north and the southern border lies along the Blind Sucker Wildlife flooding and includes much of a Dry Northern Forest ERA. The compartment is dominated by jack pine in

various age classes with a few red pine, mixed conifer, and lowland boggy, young spruce stands scattered throughout.

The compartment lies in the Deer Park Management Area with red crossbill, Kirtland's warbler, american marten and piping plover as designated featured species. Wildlife objectives will be achieved by retaining hard mast producing species in harvested pine stands and by leaving a component of non-pine species to provide food sources, nest and den trees, and improve within stand diversity. Hemlock will be retained in stands for species and structural diversity and to provide warbler nesting habitat and bear refuge trees. Scattered red and white pine will provide habitat needs of red crossbill, a featured species in this compartment. Wildlife species potentially using this compartment include white-tailed deer, black bear, marten, red crossbill, bald eagles, and coyote.

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. No known active sand/gravel pits exist in the area. There may be some potential for sand within the compartment, but much of the compartment is a designated Critical Dune Area and would be protected from surface development. No current State mineral leasing activity exists in the area.

Vehicle Access:

This compartment can be accessed along the North using the Grand Marias Rd, also known as County Rd. 407 which is maintained by the Luce County Road Commission. There is a state forest road that leads to the Blind Sucker #1 campground. There is also several poor quality two tracks that provide limited access into the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The two state forest campgrounds located within the compartment, Lake Superior and Blind Sucker #1 provide a place for camping and for other recreational activities in the area. The Blind Sucker Pathway and North Country Pathway provide miles of hiking and the Blind Sucker #1 campground has a boat launch. Lake Superior lies to the North and provides more fishing and boating opportunities when it is calm. Its sand beaches provide many more miles for hiking.

Fire Protection:

This compartment is part of the Two Hearted Zone Dispatch Area. Wildfire response is covered by the Seney Field Office and assistance is provided by the Newberry MU. Large fire potential exists in the continuous Jack Pine fuel types. Response time is slow due to its distance from available resources in Newberry and Seney.

Additional Compartment Information:

None at this time.

The following reports from the Inventory are attached:

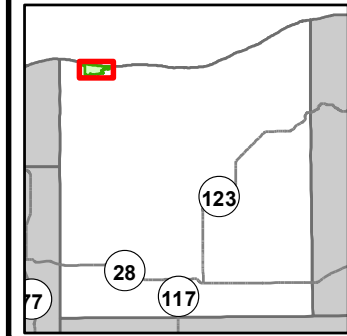
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

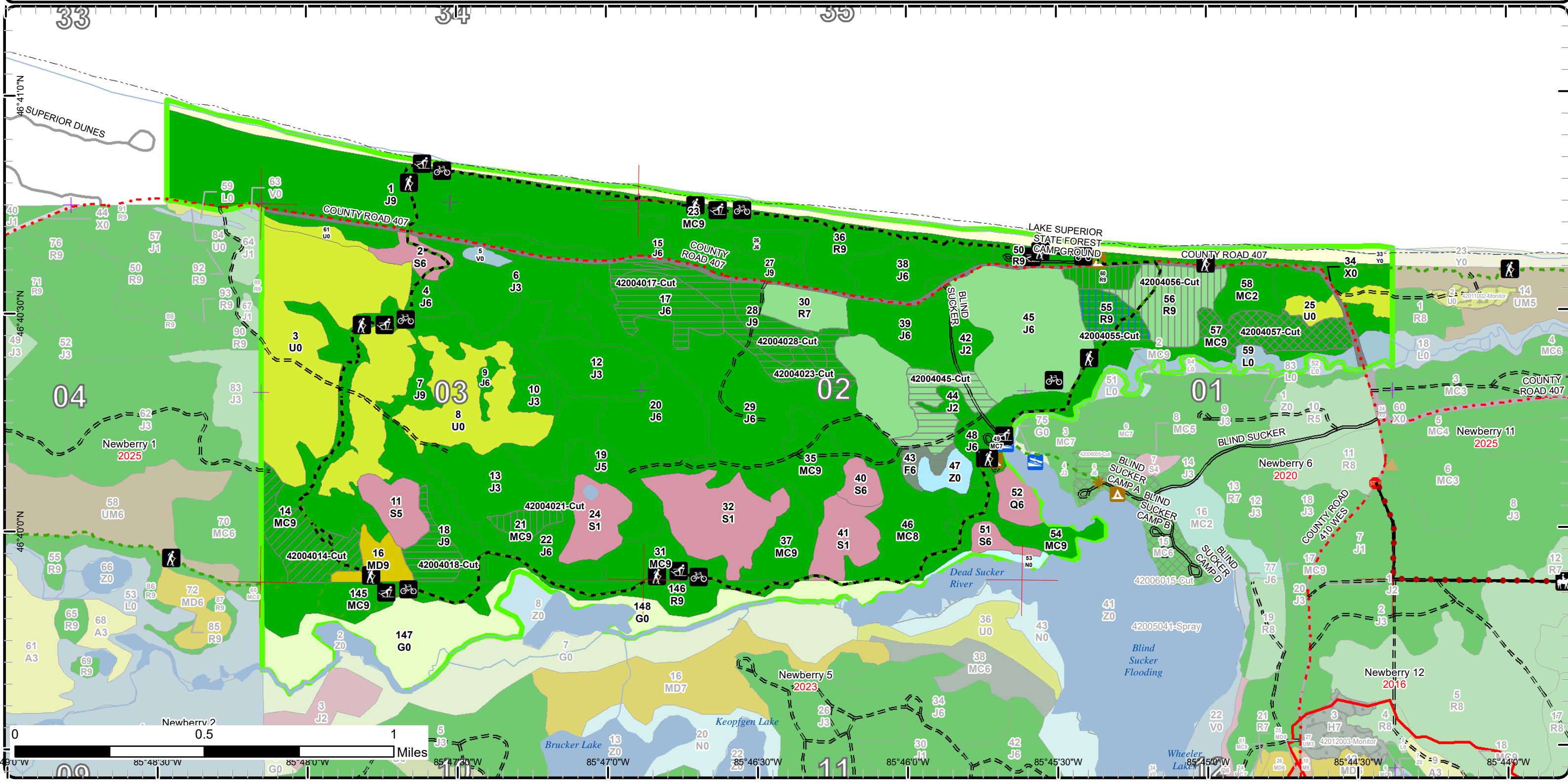
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 4
 T49N, R12W, Sec. 1-3, 10, 11
 T50N, R12W, Sec. 33-35
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2024
 Acres: 1736.6 GIS Calculated
 Examiner: Jacob Kriehn
 Map Revised: 1/6/2023
 Map Phase: Post-Review

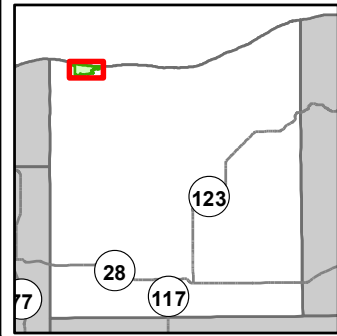


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|---|---|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners — Counties — DNR - Secondary Forest Road — DNR - Forest Access Route — County - Gravel Road — Private - Paved Road — Hiking Trails — Bike Trails — Horse Trails — Ski Trails — Designated Hiking Trails | <ul style="list-style-type: none"> — Designated Equestrian Trails — Designated Multi-Use Trails — Designated ATV — Toilet — Berms — Boating Access Site — Campground — Sign — Trailhead — Lake/Pond — Perennial River — Shoreline — Lakes and Rivers — Compartment Boundary | <ul style="list-style-type: none"> — Selection (Group, Single Tree) — Clearcut (w/Reserves) — Seed Tree (w/Reserves) — Thinning (Crown, Low, Systematic) — Shelter Wood (w/Reserves) — 419 - Mixed Upland Deciduous — 421 - Planted Pines — 422 - Natural Pines — 423 - Other Upland Conifers — 612 - Lowland Coniferous Forest — 122 - Roads/Parking Lot — 310 - Herbaceous Openland — 330 - Low Density Trees — 500 - Water — 622 - Lowland Shrub | <ul style="list-style-type: none"> — 623 - Emergent Wetland — 710 - Sand/Soil |
|---|---|--|---|

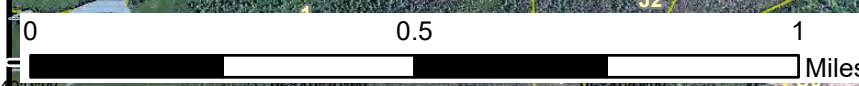
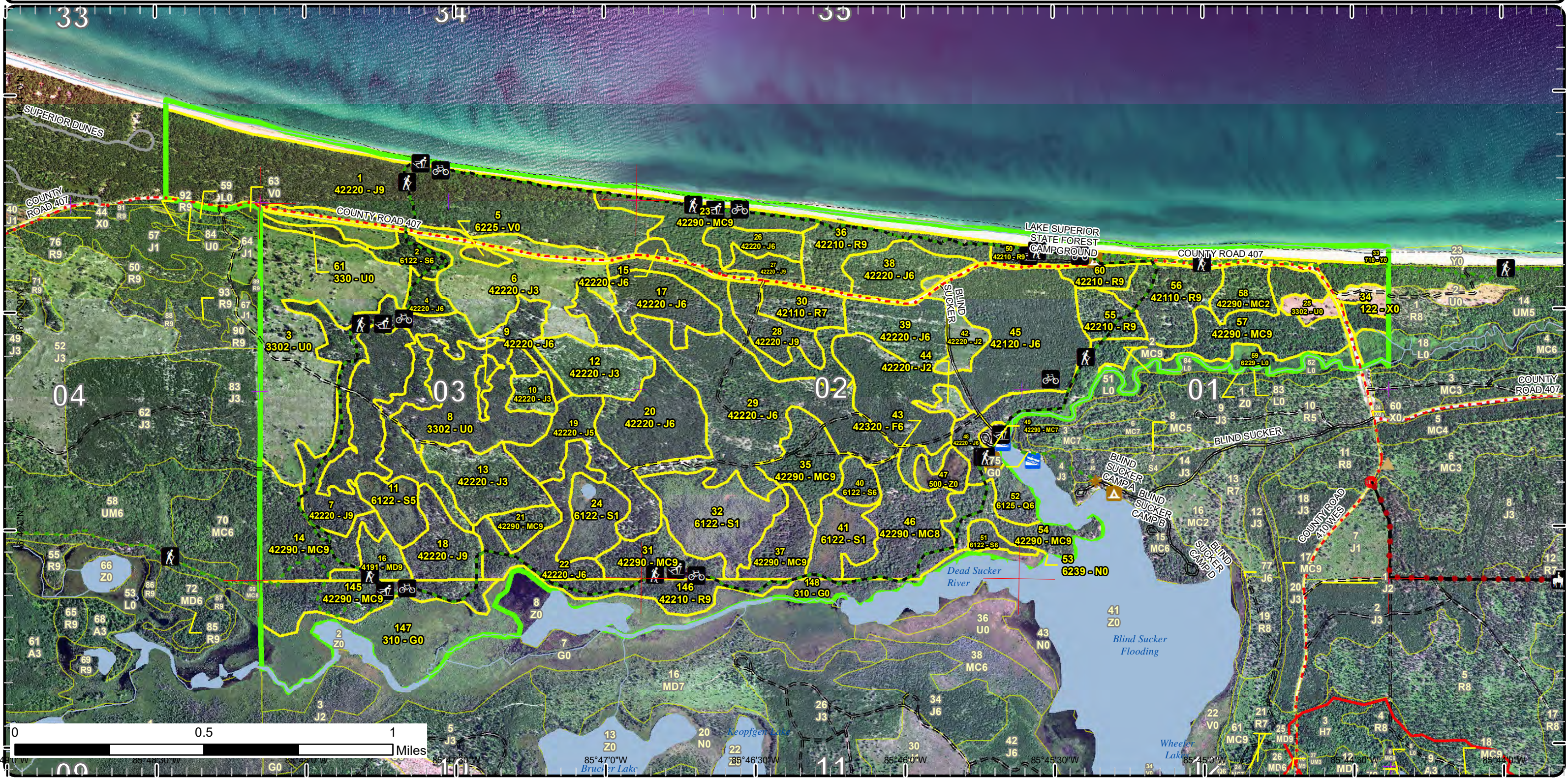


Stand Boundary Map

Compartment: 4
 T49N, R12W, Sec. 1-3, 10, 11
 T50N, R12W, Sec. 33-35
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
 YOE: 2024
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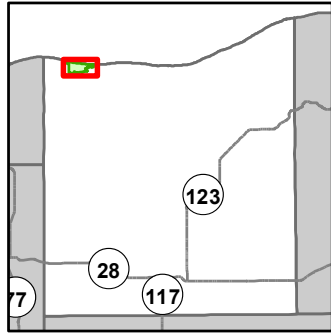
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Paved Road
- Hiking Trails
- Bike Trails
- Horse Trails
- Ski Trails
- - - Designated Hiking Trails
- Designated Equestrian Trails
- Designated Multi-Use Trails
- Designated ATV
- Toilet
- Berms
- Boating Access Site
- Campground
- Sign
- Trailhead
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
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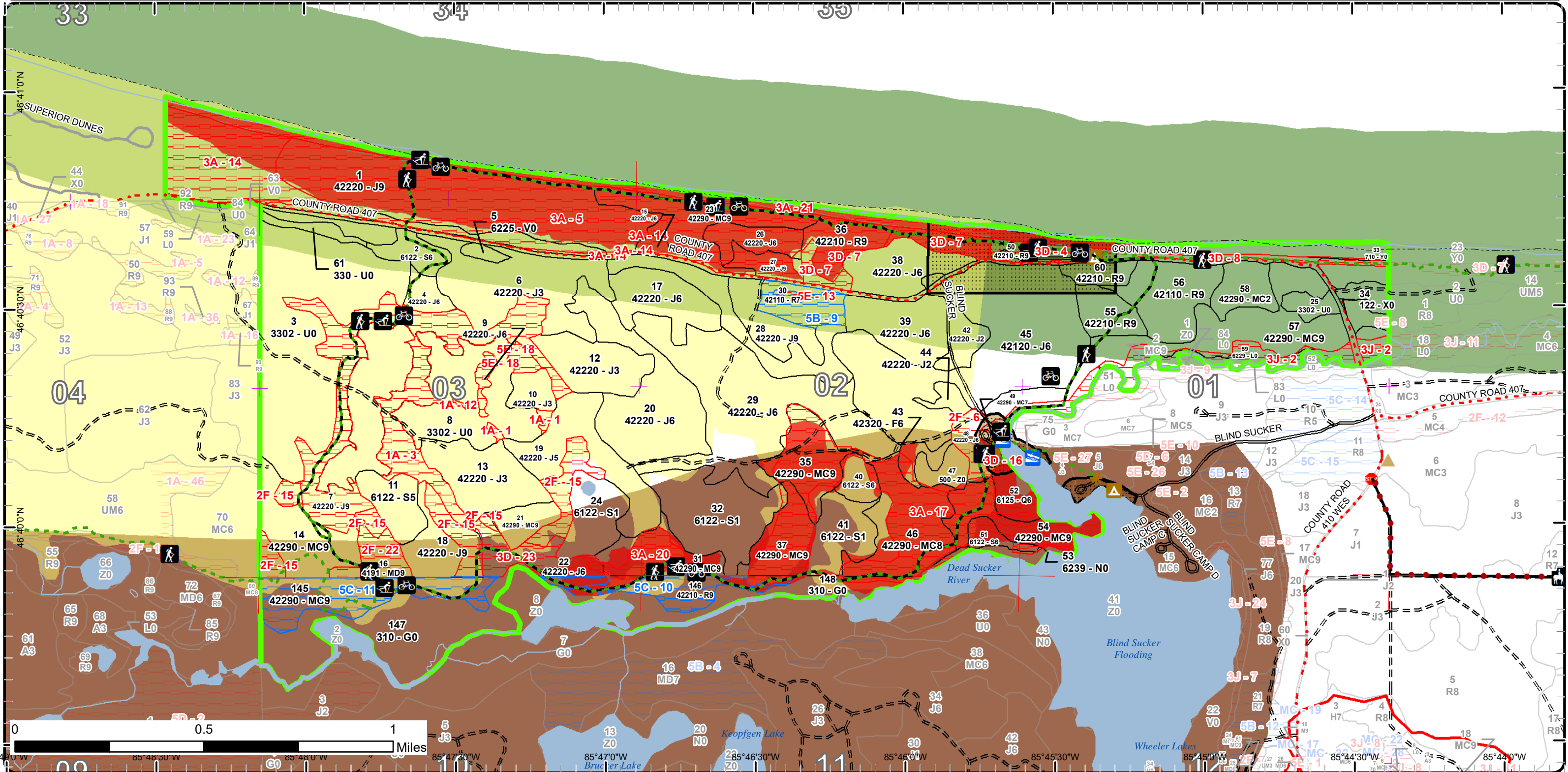
85°47'0"W 85°46'30"W 85°46'0"W 85°45'30"W 85°45'0"W
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Special Conservation Areas

Compartment: 4
 T49N, R12W, Sec. 1-3, 10, 11
 T50N, R12W, Sec. 33-35
 County: Luce
 Unit: Newberry
 Mgmt Area: Deer Park
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 Map Revised: 1/6/2023
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
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- Designated ATV
- Toilet
- Berms
- Boating Access Site
- Campground
- Sign
- Trailhead
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1A: Federal/State/Local Law
- 2F: Too steep
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Critical Dunes
- Critical Coastal Habitat (Piping Plover)
- Cold Water Streams
- Cold Water Lakes
- Wildlife Management Areas
- State Forest Campground



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
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Jack Pine	0	0	79	35	208	117	6	143	164	11	0	0	0	0	0	0	0	22	785
Low-Density Trees	182	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	182
Lowland Conifers	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Spruce/Fir	0	0	0	0	0	0	21	75	9	0	5	0	0	0	0	0	0	0	109
Marsh	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	10
Natural Mixed Pines	0	0	0	0	12	0	0	0	102	18	54	76	0	0	0	0	0	67	329
Red Pine	0	0	0	0	0	0	0	0	0	14	73	12	0	0	0	0	21	0	120
Sand, Soil	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Upland Spruce/Fir	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Urban	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	371	0	79	35	220	117	36	218	291	43	132	88	0	0	0	0	21	89	1737



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 4
Total Compartment Acres: 1,737

Commercial Harvest - 193
 Harvests with Site Condition - 0
 Next Step Harvest - 18
 Habitat Cut - 18

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	68	0	0	0	0	0	0	0	0	68
Natural Mixed Pines	24	22	0	0	7	25	0	0	0	78
Red Pine	0	0	0	12	33	0	0	0	0	45
Upland Spruce/Fir	3	0	0	0	0	0	0	0	0	3
Total	95	22	0	12	39	25	0	0	0	193

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	193	0	0	0	0	0	0	0	0	193
Next Step	18	178	80	0	0	18	422	0	0	717
Total	212	178	80	0	0	18	422	0	0	910



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

14	42004014-Cut	25.3	42290 - Natural Mixed Pine	Sawtimber Well	70	111-140	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Remove all jack pine. Thin red and white pine for maneuverability and to promote age class diversity within the stand. Final BA will vary, but should be somewhere around 50-80 BA. Leave Oak. Leave some large diameter white pine for future nest trees.

Specs: Follow critical dune guidance. Final acreage may change due to slopes.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Red pine, jack pine, white pine

Other Comment:

Access can be from the north through the clear cut or from the west on the old two track.

Site Condition

Proposed Start Date: 10/1 /2023

17	42004017-Cut	22.9	42220 - Natural Jack Pine	Poletimber Well	62	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with Retention. Leave oak. The oak will count as retention. Follow critical dune guidance. Final acreage may change due to slopes.

Specs: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); SitePrep, Scarification;

Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Jack Pine

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

18	42004018-Cut	11.5	42220 - Natural Jack Pine	Sawtimber Well	69	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clear cut all species. Retention to be left on steep slopes. Leave all oak.

Specs:

Follow critical dune guidance. Final acreage may change due to slopes.

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

Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Jack Pine, Red Pine

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
21	42004021-Cut	6.5	42290 - Natural Mixed Pine	Sawtimber Well	91	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Shelterwood harvest to promote regeneration. Residual target BA is 30-50. Oak can be left as part of the shelterwood.</p> <p><u>Specs:</u> Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Harvest, Clearcut; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine, White Pine, Jack 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 /2023</p>											
23	42004023-Cut	23.6	42290 - Natural Mixed Pine	Sawtimber Well	101	81-110	Harvest	Clearcut with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Clearcut with retention. 3-5% retention. Final acreage may change due to slopes. Leave oak except for in areas that will impact operability. Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red Pine, Jack Pine, White Pine, Spruce</p> <p><u>Regen:</u></p> <p><u>Other</u> Most of the stand should be harvestable by running equipment on the top and bottom of the ridge and reaching.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
28	42004028-Cut	15.4	42220 - Natural Jack Pine	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clear cut all species. Look to leave retention on the east side where it is steeper and try to include large white pine in the retention pocket.</p> <p><u>Specs:</u> Leave oak. Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Re-Inventory); SitePrep, Trenching;</p> <p><u>Treatments:</u> Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Jack 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 /2023</p>											
43	42004043-Cut	3.1	42320 - Upland Spruce	Poetimber Well	71	51-80	Harvest	Clearcut	42320 - Upland Spruce	Even-Aged	No
<p><u>Prescription</u> Clearcut. No retention due to small acreage. Stay out of the ERA. Buffer the bog area. Leave oak.</p> <p><u>Specs:</u> Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Spruce, any combination of species currently present.</p> <p><u>Regen:</u></p> <p><u>Other</u> Prep with the scotch pine to the north.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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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45 42004045-Cut	18.2	42120 - Planted Jack Pine	Poletimber Well	31	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut the area of scotch pine and promote jack pine regeneration. Final acreage and treatment shape may increase or decrease based on the scotch pine/jack pine edge. Leave Birch.

Specs:

Follow critical dune guidance. Final acreage may change due to slopes.

Next Step SitePrep, Scarification; Pesticide, Skidder - Site Prep; Planting, Initial Plant; SitePrep, Trenching; Monitoring, Natural Regen (Re-Treatments: Inventory); Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Monitoring, Artificial Reg

Acceptable Jack Pine, some red and white pine is acceptable.
Regen:

Other The northern portion of this treatment was walked, but the southern portion may change based on where the edge of timber types are.
Comment:

Various next steps have been added and will be implemented depending on what we deem best suited for this site.

Site Condition

Proposed Start Date: 10/1 /2023

55 42004055-Cut	11.9	42210 - Natural Red Pine	Sawtimber Well	91	81-110	Harvest	Seed Tree	42210 - Natural Red Pine	Even-Aged	No
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Prescription Seed tree harvest to promote natural red pine regen. Target BA is 10-20. Leave some oak, but stay within the target BA range.

Specs:

Follow harvest with scarification.

Follow critical dune guidance. Final acreage may change due to slopes.

Next Step Monitoring, Natural Regen (Intermediate); SitePrep, Scarification; Harvest, Clearcut with Retention; Planting, Unfurrowed
Treatments:

Acceptable Red Pine, jack pine, white pine
Regen:

Other If natural regen fails, clearcut, trench and plant red pine. Might be able to flat plant to avoid trenching.
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

56 42004056-Cut	26.3	42110 - Planted Red Pine	Sawtimber Well	96	111-140	Harvest	Shelterwood with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin the stand to approximately 30-40 BA. Remove trees that will be growing out of size class. Leave some oak as reserves.

Specs:

Follow critical dune guidance. Final acreage may change due to slopes.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Red Pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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
57 42004057-Cut	22.1	42290 - Natural Mixed Pine	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Uneven-Aged	No
<p><u>Prescription</u> Thin the pine overstory to release the understory. Cut all Jack pine, mark the red and white pine to thin. Maintain a component of birch and large white pine while marking. Leave Oak. Target BA is 50-80. Final BA may be lower in some areas depending on jack pine density.</p> <p><u>Specs:</u> Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red pine, white pine, jack pine, red oak.</p> <p><u>Other Comment:</u> There is a ridge on the southern edge of the stand that will help buffer the river.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
60 42004060-Cut	6.6	42210 - Natural Red Pine	Sawtimber Well	100	111-140	Harvest	Shelterwood with Retention	42210 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Shelterwood harvest stand to promote natural red pine regen. Approximately 30-50 BA residual. Leave oak within 100 feet of the road.</p> <p><u>Specs:</u> Follow critical dune guidance. Final acreage may change due to slopes.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red Pine, Jack Pine</p> <p><u>Other Comment:</u> Scarify after harvest to promote natural regen.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 193.4

Report 4 – Site Conditions

Newberry Mgt. Unit
Jacob Kriehn : Examiner

Compartment: 4
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions											
Acres	Available	With Condition	Not Available	5B	5C	1A	2F	3A	3D	3J	5E	ed			
2	2	0	0	Bog											
84	82	0	2	Herbaceous Openland											
784	491	0	293	Jack Pine											
182	180	0	2	Low-Density Trees											
9	6	0	4	Lowland Conifers											
19	2	0	18	Lowland Shrub											
110	105	0	5	Lowland Spruce/Fir											
5	4	0	1	Marsh											
11	0	0	11	Mixed Upland Deciduous											
328	149	33	147	Natural Mixed Pines											
119	45	30	44	13	17	Red Pine									
50	14	0	36	Sand, Soil											
5	3	0	2	Upland Spruce/Fir											
21	21	0	0	Urban											
7	7	0	0	Water											
1,737	1,110	63	564	13	50	78	48	360	48	24	7	0			
	64%	4%	32%	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	1A: Federal/State/Local Law	2	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Critical dunes							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jacob Kriehn : Examiner

Compartment: 4
Year of Entry: 2024

3	Unavailable	1A: Federal/State/Local Law	76	2F: Too steep	5E: Long-Term Retention	Unspecified	Unspecified
Comments: Critical Dunes							
4	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	167	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA and critical dunes and critical coastal habitat (piping plover) HCVAs							
6	Unavailable	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3D: Recreational / Scenic values	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3D: Recreational / Scenic values	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: North Country Trail and Lake Superior Campground.							
9	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jacob Kriehn : Examiner

Compartment: 4
Year of Entry: 2024

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Many red pine are 150-200 years old. Some ridges are close to old growth red pine. Stand varies from low-moderately steep sand dunes to flat areas near the marsh.</p>							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Within critical dunes and portions of the stand are steep.</p>							
12	Unavailable	1A: Federal/State/Local Law	0	5E: Long-Term Retention	2F: Too steep	Unspecified	Unspecified
<p>Comments: Critical dunes retention area</p>							
13	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
14	Unavailable	3A: Conservation Values incompatible with harvest at this time	43	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
15	Unavailable	2F: Too steep	30	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jacob Kriehn : Examiner

Compartment: 4
Year of Entry: 2024

16	Unavailable	3D: Recreational / Scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Blind Sucker No. 1 Campground and Boat Launch							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	99	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
18	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unspecified	Unspecified	0				
Comments:							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dry northern forest ERA							
21	Unavailable	3A: Conservation Values incompatible with harvest at this time	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sand and gravel beach ERA							
22	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Jacob Kriehn : Examiner

Compartment: 4
Year of Entry: 2024

23	Unavailable	3D: Recreational / Scenic values	15	3L: Other wildlife concerns	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.
HCVA	Critical Dunes	Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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	Sawtimber Well	137.0	74	81-110	N/A	Stand falls along Lake Superior and contains old White Pine stumps. Jack Pine is becoming over mature and will start to fall apart and thus promoting longer lived conifers. North country trail runs through part of the stand and Black Spruce is found along narrow dune draws with more mositure. This stand is within the Critical Dunes area. There are many steep ridges. More hardwoods found along the shore. MO manage for long lived conifers, White Pine, Black Spruce, and Norway Pine.																																																									
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2	6122 - Black Spruce	Poletimber Well	8.5	74	51-80	N/A	Most of the volume of this stand is in the main eastern portion. North Country Trail runs through stand. MO Black Spruce																																																									
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3	3302 - Low Density Conifer Trees	Nonstocked	92.4		Unspecified	4212 - Planted Jack Pine																																																										
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4	42220 - Natural Jack Pine	Poletimber Well	6.4	51	51-80	N/A	North Country Trail runs through stand. MO Jack Pine																																																									
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5	6225 - Bog	Nonstocked	2.5			No																																																										
6	42220 - Natural Jack Pine	Sapling Well	63.9	14	Immature	N/A	Stand was cut as part of sale 42-16-04. Cutting completed Fall 2018. Scarified with chains summer of 2009. Jack pine looks good and is growing in very thick in most places.																																																									
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7	42220 - Natural Jack Pine	Sawtimber Well	76.1	68	81-110	N/A	Old Jack Pine with the North Country Trail running through most of the stand. Suggest extending the rotation to promote long lived conifers in the stand and some within stand diversity. Most of the stand was typed out to protect the steep dune slopes and won't ever be harvested.																																																									
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8	3302 - Low Density Conifer Trees	Nonstocked	75.4	0	Unspecified	4222 - Natural Jack Pine	2022 Regen: The western portion of the stand appears to be regenerating nicely. Regen is somewhat patchy in some areas but overall 600+ jack pine per acre. The eastern portion appears more patchy. Averaged 500 jack pine per acre on the east side. Stand scarified in summer 2018. Stand was harvested as sale #42-006-15-01. Half and Half Jack Pine. Closed 07/11/2017. Retention patches on critical dune areas as well as scattered red pine, white pine, birch and oak.																																																															
9	42220 - Natural Jack Pine	Poletimber Well	5.9	41	51-80	N/A	This stand was originally part of the surrounding stand 8. Stand 9 was left as long term retention when stand 8 was harvested.																																																															
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10	42220 - Natural Jack Pine	Sapling Well	7.2	26	1-50	N/A	Does have pockets of Black Spruce for diversity. MO Jack Pine and Black Spruce.																																																															
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11	6122 - Black Spruce	Poletimber Medium	14.1	52	51-80	N/A	Black Spruce with higher site index and some diversity around the edges.																																																															
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14	42290 - Natural Mixed Pine	Sawtimber Well	34.2	70	111-140	N/A	2022: North Country Trail runs through stand. Jack pine is getting old in this stand.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
15	42220 - Natural Jack Pine	Poletimber Well	2.7	81	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		90	Pole/Log	9	81	White Pine	Low	< 5 feet	Tall Shrub
Black Spruce		10	Pole	8		Black Spruce	Medium	10 - 20 feet	Sapling
16	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	10.5	70	81-110	N/A	Steep dune slopes with Red Oak. Nice White Pine regen. Stand will most likely not be managed due to steep slopes.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		20	Log/Pole	10		White Pine	Medium	5 - 10 feet	Sapling
Paper Birch		5	Pole	6					
Bigtooth Aspen		5	Log	12					
White Pine		10	Log	14					
Red Pine		10	Log	14					
Red Oak		50	Log/Pole	10	70				
17	42220 - Natural Jack Pine	Poletimber Well	22.9	62	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		98	Pole	8	62	Black Spruce	Low	5 - 10 feet	Tall Shrub
Red Pine		2	Log/Pole	10					
18	42220 - Natural Jack Pine	Sawtimber Well	20.4	69	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Pole	8		White Pine	Low	5 - 10 feet	Tall Shrub
Paper Birch		5	Pole	8		Black Spruce	Low	< 5 feet	Tall Shrub
White Pine		5	Log	14		Red Pine	Medium	5 - 10 feet	Tall Shrub
Red Pine		20	XLog/Log	18					
Jack Pine		60	Log/Pole	10	69				
19	42220 - Natural Jack Pine	Poletimber Medium	31.6	44	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		80	Pole/Sapling	6	44				
Red Pine		20	Pole/Sapling	6					
20	42220 - Natural Jack Pine	Poletimber Well	46.6	47	1-50	N/A	MO Jack Pine		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Pole/Sapling	5	47				
21	42290 - Natural Mixed Pine	Sawtimber Well	8.7	91	81-110	N/A	Better soils/moisture with labtea in the understory. Stand was treated by taking all the Jack Pine and leaving everything else 10-20 yrs ago. Nice overstory of White and Norway Pine, Black Spruce.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		49	Log	16		Black Spruce	Medium	5 - 10 feet	Tall Shrub
Red Pine		51	Log	14	91	White Pine	Medium	5 - 10 feet	Tall Shrub
						Red Pine	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
22	42220 - Natural Jack Pine	Poletimber Well	27.2	74	81-110	N/A	2012: Jack Pine on dune ridge with steep slopes, leave to protect slopes and move stand towards long lived conifers.																																					
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23	42290 - Natural Mixed Pine	Sawtimber Well	53.5	101	81-110	N/A	2022: Northern portion of stand protects steep dune slopes and ridge with heavy Black Spruce regen. Northern portion of stand should be managed for long lived conifers. MO White Pine, Norway Pine, and Black Spruce. Southern portion of stand is treatable.																																					
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24	6122 - Black Spruce	Sapling Poor	18.1	63	1-50	N/A	Black spruce bog. Limited opportunity for management.																																					
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25	3302 - Low Density Conifer Trees	Nonstocked	10.2	0	Unspecified	42260 - Natural Pine, Mixed Deciduous	This stand was previously part of stand 57 and was split into its own stand after the timber sale. The stand is starting to fill in more since the regen check. There is some jack pine coming into the stand now. Some history of the stand is below: (2/24/16 portion of stand 57 that was cut) Sale # 420031501 Perry's Landing Pine. TCR1/4/16. Cut in 2015. Regen check 2017: Red Oak: 1370 trees/acre, Red Maple: 373 trees/acre, Black Cherry: 311 trees/acre, White Pine: 124 trees/acre, White Birch: 124 trees/acre.																																					
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26	42220 - Natural Jack Pine	Poletimber Well	11.4	41	1-50	N/A	MO Jack Pine																																					
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27	42220 - Natural Jack Pine	Sawtimber Well	7.3	61	51-80	N/A	Critical Dunes																																					
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28	42220 - Natural Jack Pine	Sawtimber Well	15.9	61	81-110	N/A																																						
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30	42110 - Planted Red Pine	Sawtimber Poor	13.7	83	1-50	N/A	2022: Stand was previously harvested. Treatment was a shelterwood removing all merchantable jack pine and leaving the rest. There looks to be a good mix of regeneration coming in. Scattered red and white pine in the overstory.																																					
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32	6122 - Black Spruce	Sapling Poor	38.5	63	1-50	N/A	Lowland black spruce stand with some diversity on the edges. Most of the stand is low density trees with limited opportunity for future management.																																					
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33	710 - Sand, Soil	Nonstocked	50.2			No	Lake Superior shore																																					
34	122 - Road/Parking Lot	Nonstocked	21.3			No	Grand Marias Road 407																																					
35	42290 - Natural Mixed Pine	Sawtimber Well	22.2	100	81-110	N/A	Older White and Norway Pine.																																					
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36	42210 - Natural Red Pine	Sawtimber Well	26.1	91	81-110	N/A	Has a Black Spruce inclusion and buffers Lake Superior. Nice pockets of Jack Pine regen. MO lake/dune buffer and Norway Pine.																																					
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37	42290 - Natural Mixed Pine	Sawtimber Well	17.8	86	81-110	N/A	Stand is a ridge that slopes down between two bogs and should be managed for long lived conifers. Trail runs through south end of it. MO White Pine and Norway Pine.																																					
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38	42220 - Natural Jack Pine	Poletimber Well	20.8	41	1-50	N/A	MO Jack Pine																																					
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40	6122 - Black Spruce	Poletimber Well	7.1	59	111-140	N/A	2022: Fairly nice black spruce with some scattered red and white pine.																																					
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41	6122 - Black Spruce	Sapling Poor	18.4	63	1-50	N/A	Lowland black spruce stand with some diversity on the edges. Most of the stand is low density trees with limited opportunity for future management.																																					
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42	42220 - Natural Jack Pine	Sapling Medium	10.8	16		N/A	Stand has filled in more since last inventory. Coming in nicely to natural jack pine.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
43	42320 - Upland Spruce	Poletimber Well	5.0	71	51-80	N/A	Portion of the stand falls within the ERA. Probably not worth setting up the portion of the stand outside of the ERA because the acreage is so low.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		70	Pole	8	71	Black Spruce		Density
White Pine		20	Log/Pole	14		Avg. Height		Size
Jack Pine		10	Pole	6		10 - 20 feet	Sapling	
44	42220 - Natural Jack Pine	Sapling Medium	4.1	18	Unspecified	N/A	Previous inventory listed an average of 400 jack pine per plot. Overall this is a low density jack pine stand that will continue to fill in naturally.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine		100	Sapling	2	18			
45	42120 - Planted Jack Pine	Poletimber Well	102.5	31	51-80	N/A	2022: Planted Jack Pine and Scotch Pine. Scotch Pine in the south end of stand and along stand #50 and along the road into campground.	
Canopy Species		% Cover	Size Class	DBH	Age			
Scotch Pine		10	Pole	5				
Jack Pine		90	Pole	5	31			
46	42290 - Natural Mixed Pine	Sawtimber Medium	35.1	74	51-80	N/A	Mixed pine on steep dune, stand won't be harvested due to slopes. MO White Pine and Norway Pine.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		30	Log	16		Black Spruce	Density	
Red Oak		5	Pole	6		White Pine	Avg. Height	
White Pine		25	Log	16		5 - 10 feet	Size	
Jack Pine		40	Pole	8	74	5 - 10 feet	Sapling	
47	500 - Water	Nonstocked	7.0			No		
48	42220 - Natural Jack Pine	Poletimber Well	7.9	81	51-80	N/A	Stand is on a ridge and is between the campground and lowlands. Harvesting would be difficult and is improbable.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Oak		10	Pole	9		Black Spruce	Density	
Red Pine		20	Pole	9		White Pine	Avg. Height	
Jack Pine		70	Pole	9	81	5 - 10 feet	Size	
						Tall Shrub		
49	42290 - Natural Mixed Pine	Sawtimber Poor	4.3	91	1-50	N/A	Blind Sucker State Forest Campground; 17 designated campsites. Jack pine is old and is falling out of the stand. Possibility for some hazard tree removal around the campground area.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		35	Log/XLog	16	91			
Red Pine		35	Log/XLog	16				
Jack Pine		30	Log	12	91			
50	42210 - Natural Red Pine	Sawtimber Well	8.6	91	51-80	N/A	Lake Superior State Forest Campground is within the stand; 18 sites. High use area in summer. No treatment recommended due to the campground. The red and white pine look good in this stand.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		10	Log	14				
Red Pine		60	Log	14	91			
Jack Pine		30	Pole	9				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	6122 - Black Spruce	Poletimber Well	5.2	91	81-110	N/A	Only a small portion of this stand isn't covered by the ERA site condition.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		25	Pole/Log	7		Black Spruce	
Tamarack		10	Pole	6		Medium	
Black Spruce		60	Pole	6	91	10 - 20 feet	
Balsam Fir		5	Pole	6		Sapling	
52	6125 - Lowland Black Spruce, Jack Pine	Poletimber Well	9.1	56	81-110	N/A	Next to campground and flooding. Manage stand for long lived conifers with the MO being Black Spruce and White Pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Black Spruce		40	Pole/Sap/Log	8	56	Black Spruce	
Northern White Cedar		10	Pole	7		Medium	
White Pine		20	Log	16		10 - 20 feet	
Jack Pine		10	Pole	8		Sapling	
Red Pine		10	Log	16		10 - 20 feet	
Red Maple		5	Pole	8		Sapling	
Paper Birch		5	Pole	8		Sapling	
						Low	
						5 - 10 feet	
						Tall Shrub	
						Tall Shrub	
53	6239 - Mixed Emergent Wetland	Nonstocked	4.8			No	
54	42290 - Natural Mixed Pine	Sawtimber Well	21.7	91	81-110	N/A	2022: Trail runs through stand, large open grown trees, thick pockets of Jack Pine regen in openings. MO long lived conifers White Pine and Norway Pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		40	Log	14	91	White Pine	
White Pine		30	Log	14		Low	
Jack Pine		10	Pole	8		< 5 feet	
Red Oak		20	Log	10		Tall Shrub	
						Tall Shrub	
						Sapling	
55	42210 - Natural Red Pine	Sawtimber Well	11.9	91	81-110	N/A	Looks like the Jack Pine was cut 40 years ago and the Norway was left standing. The Norway responded to the release but now is open grown and should be cut before it gets to big. This will also release the understory of conifers.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		90	Log	14	91	Black Spruce	
White Pine		10	Log	16		Medium	
						10 - 20 feet	
						Sapling	
						10 - 20 feet	
						Sapling	
						10 - 20 feet	
						Sapling	
56	42110 - Planted Red Pine	Sawtimber Well	26.3	96	111-140	N/A	Variable basal areas in this stand. Some small openings that can be seen on the air photo. Diameters also vary a lot within this stand. There is not much competition in the understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		95	Log	14	96	White Pine	
White Pine		5	Log	14		Low	
						5 - 10 feet	
						Tall Shrub	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
57	42290 - Natural Mixed Pine	Sawtimber Well	66.6	91	81-110	N/A	Unevenaged Pine that has Old Growth char. Basal area is variable in this stand. Ridges throughout the stand. (2/24/16) Portion of stand - now stand 25 - was treated with sale #420031501.																																						
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58	42290 - Natural Mixed Pine	Sapling Medium	12.0	33	1-50	N/A	Very nice White Pine/Jack Pine mix with a few large residual red pine in the overstory. Previous inventory notes list a of MO White Pine. I believe a more appropriate MO is natural mixed pine.																																						
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59	6229 - Mixed lowland shrub	Nonstocked	19.2			No																																							
60	42210 - Natural Red Pine	Sawtimber Well	11.8	100	111-140	N/A	Mixed stand of Pine across from Lake Superior campground. MO White Pine and Norway Pine.																																						
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61	330 - Low-Density Trees	Nonstocked	4.2	0	Unspecified	No	Non-forested stand with some bog area in it. Some spruce and mixed conifer trees around edges of stand.																																						
145	42290 - Natural Mixed Pine	Sawtimber Well	32.5	70	81-110	N/A	This stand is within the critical dunes area, and contains steep ridges.																																						
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146	42210 - Natural Red Pine	Sawtimber Well	20.6	162	81-110	N/A	From previous inventory: Many red pine are 150-200 years old. Some ridges are close to old growth red pine. Stand varies from low-moderately steep sand dunes to flat areas near the marsh.																																						
147	310 - Herbaceous Openland	Nonstocked	56.7			No																																							
148	310 - Herbaceous Openland	Nonstocked	27.2			No																																							