



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63003

Entry Year 2018

Acreage: 3,039

County Lake

Management Area: Lake County Moraines

Revision Date: 2016-06-13

Stand Examiner: Cheryl Nelson

Legal Description:

T20N, R12W, Sec. 10, 11, 14, 15, 22, 23, and 26

Identified Planning Goals:

Vegetation management in the Lake County Moraines management area will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the age class distributions of aspen and regenerating red pine and oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are increased recreational pressure (including illegal off-road vehicle impacts) and the need to successfully regenerate and establish oak.

Soil and topography:

Hilly with some steep slopes. Soils are excessively drained sands with Rubicon and Montcalm being the most common.

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

This compartment is continuous state land ownership. There is State Land to the east and west of the compartment with federal land to the north and private to the south.

Unique Natural Features:

The Michigan Natural Features Inventory lists Virginia Bluebells as having occurred in the compartment. The Great Plains Spittlebug, Eastern Box Turtle, Goshawk, Red-shouldered Hawk, Loons, Eagle, Bigmouth Shiner, and Dusted Skipper are listed as having occurred in sections surrounding the compartment. The compartment has the potential for the Goshawk, Red-shouldered Hawk, and Eastern Box Turtle.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The Pine River flows just to the east of Compartment 3. The Pine River is a Designated Trout Stream with naturally reproducing populations of brook, brown, and rainbow trout. It is also a State-Designated Natural River. There are several small, unnamed spring tributaries to the Pine that originate in Compartment 3; however no treatments are planned near them.

Wildlife Habitat Considerations:

Featured wildlife species are deer, ruffed grouse, turkey, marten and hare. Management emphasis for these species will include maintenance of aspen, conifer components of stands, mature stands as travel corridors, and openings complexes. Timber sale specifications to benefit these featured species (where applicable) will include brush pile creation along lowland edges, protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, retention of large diameter trees, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (Victory, 5/24/16)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Mississippian Michigan Formation and Bayport Limestone. The Michigan is quarried for gypsum and the Bayport for limestone in other areas of the State. A gravel pit is located one mile to the east and potential is good. The nearest oil and gas production is

at Peacock Field located eight miles to the southwest. The Field produced nearly 1,700,000 BO from the Traverse Limestone. The compartment is not currently leased for oil and gas exploration.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

Recreational Facilities and Opportunities:

The Lincoln Hills motorcycle trail, Lincoln Hills Route, Michigan Cross Country Cycle Trial (MCCCT), and snowmobile trail #35 are located within this compartment. Trail protection specifications should be considered if forest treatments impact these trails (T.N. 1/29/16)

Fire Protection:

The terrain would allow for good access for suppression equipment. Many trails within would allow for equipment except along the rivers. Remote camping will add to possible ignition starts of wildfires.

Additional Compartment Information:

The following reports from the Inventory are attached:

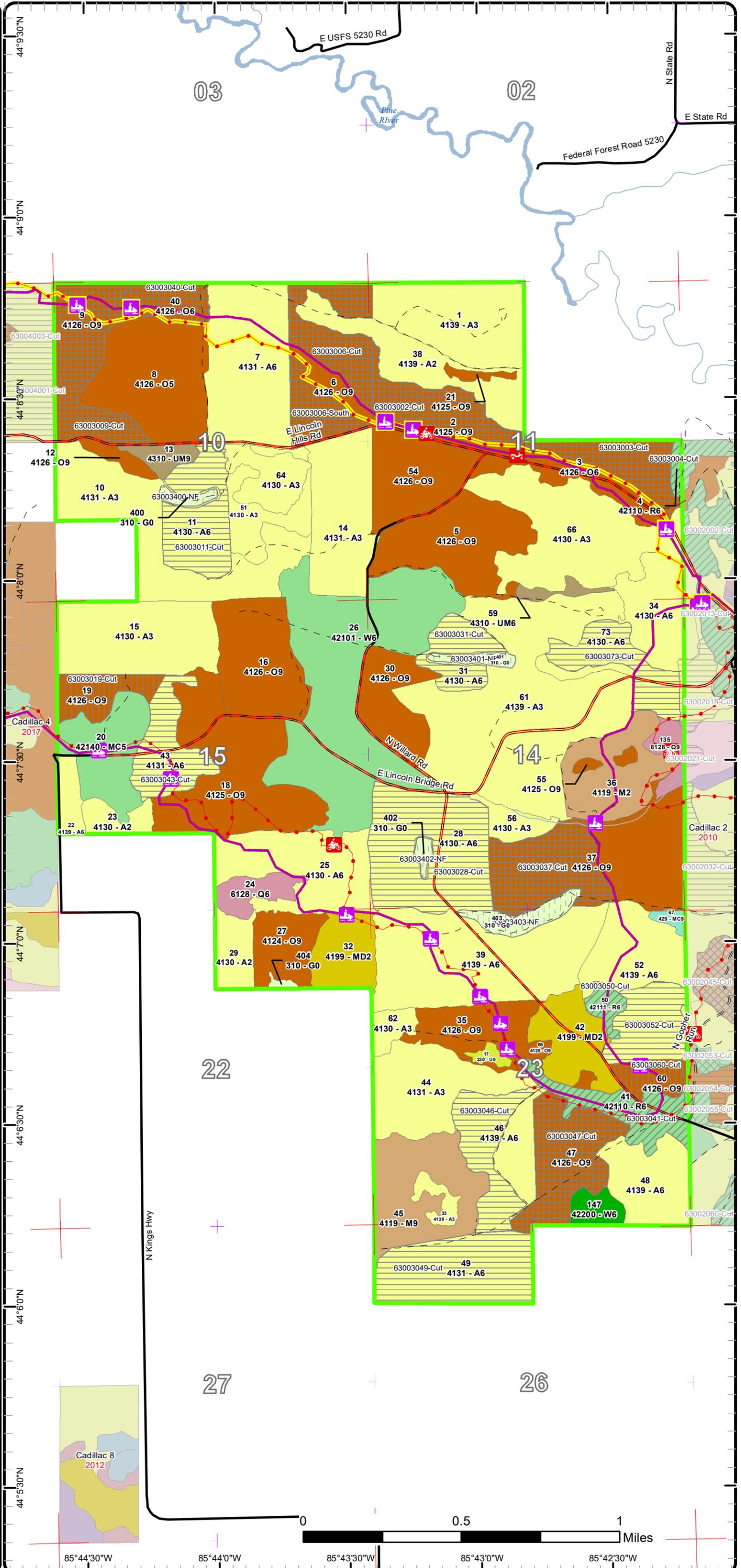
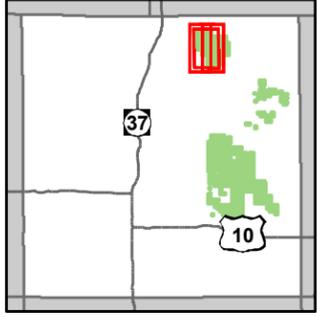
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

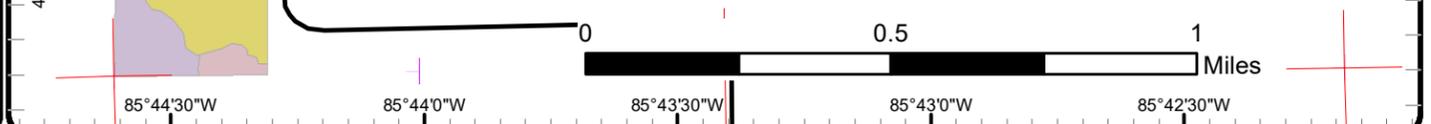
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 3
 T20N, R12W,
 Sec. 10, 11, 14, 15, 22, 23, 26
 County: Lake
 Unit: Cadillac
 Mgmt Area: Lake County Moraines
 YOE: 2018
 Acres: 3039 GIS Calculated
 Examiner: Cheryl Nelson
 Map Revised: 7/13/2016
 Map Phase: Web-Post

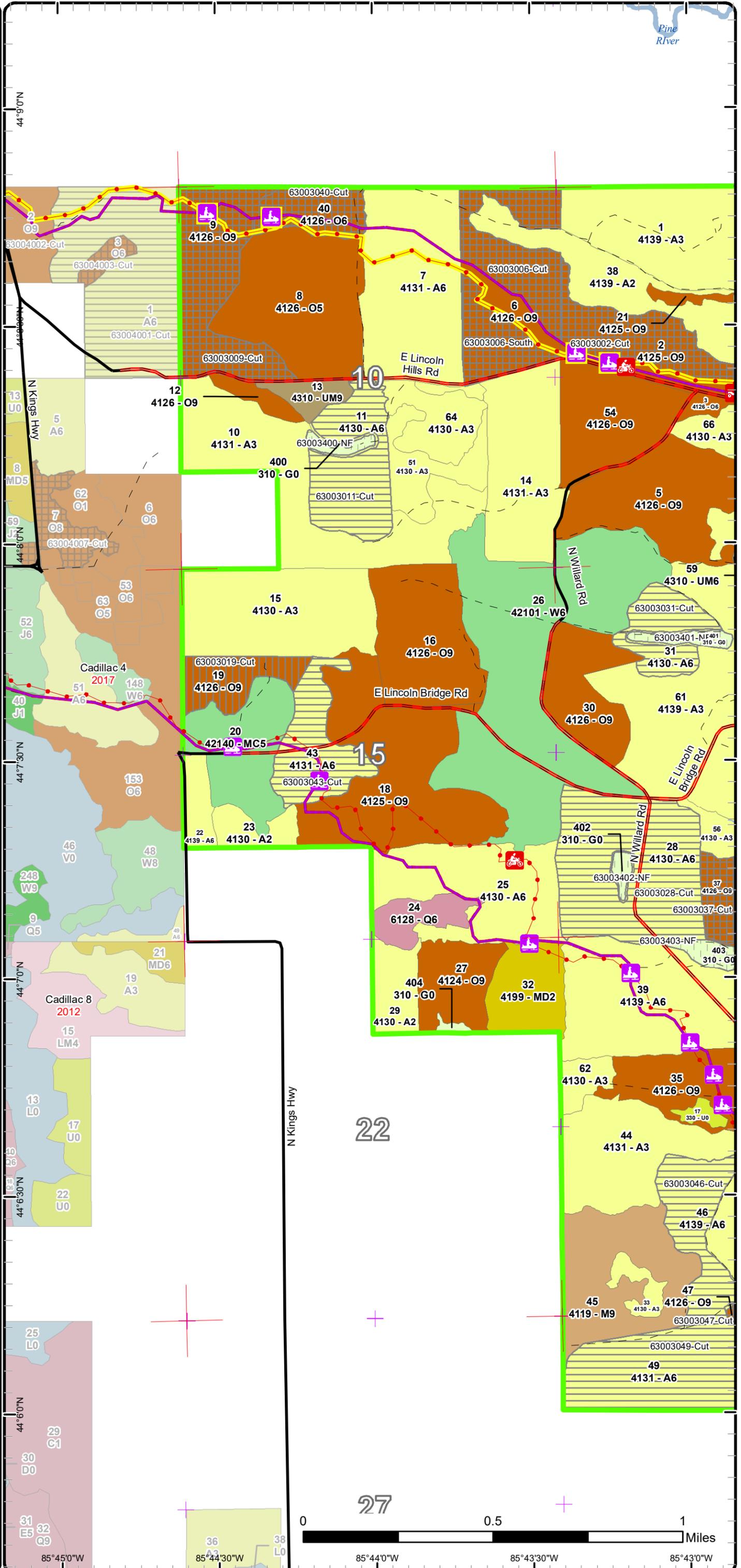
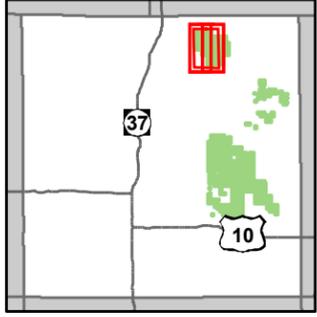


- Miris Corners
- + Remonumented Section Corners
- 🏍️ Motorcycle Trails (DNR License)
- 🏍️ MCCCT Trails
- 🚙 ORV Routes
- 🚙 Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Opening Maintenance
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Seed Tree (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- Lakes

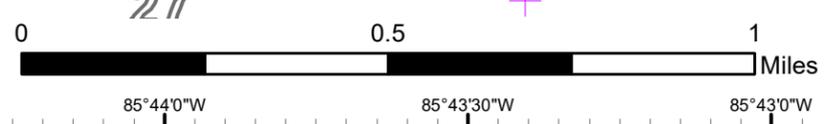


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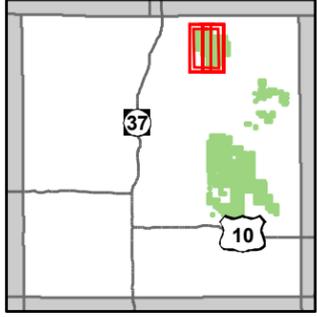


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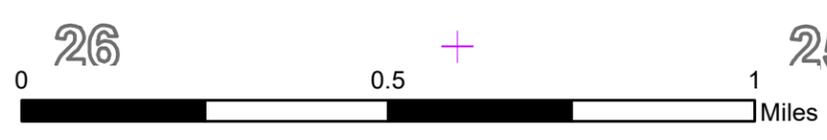
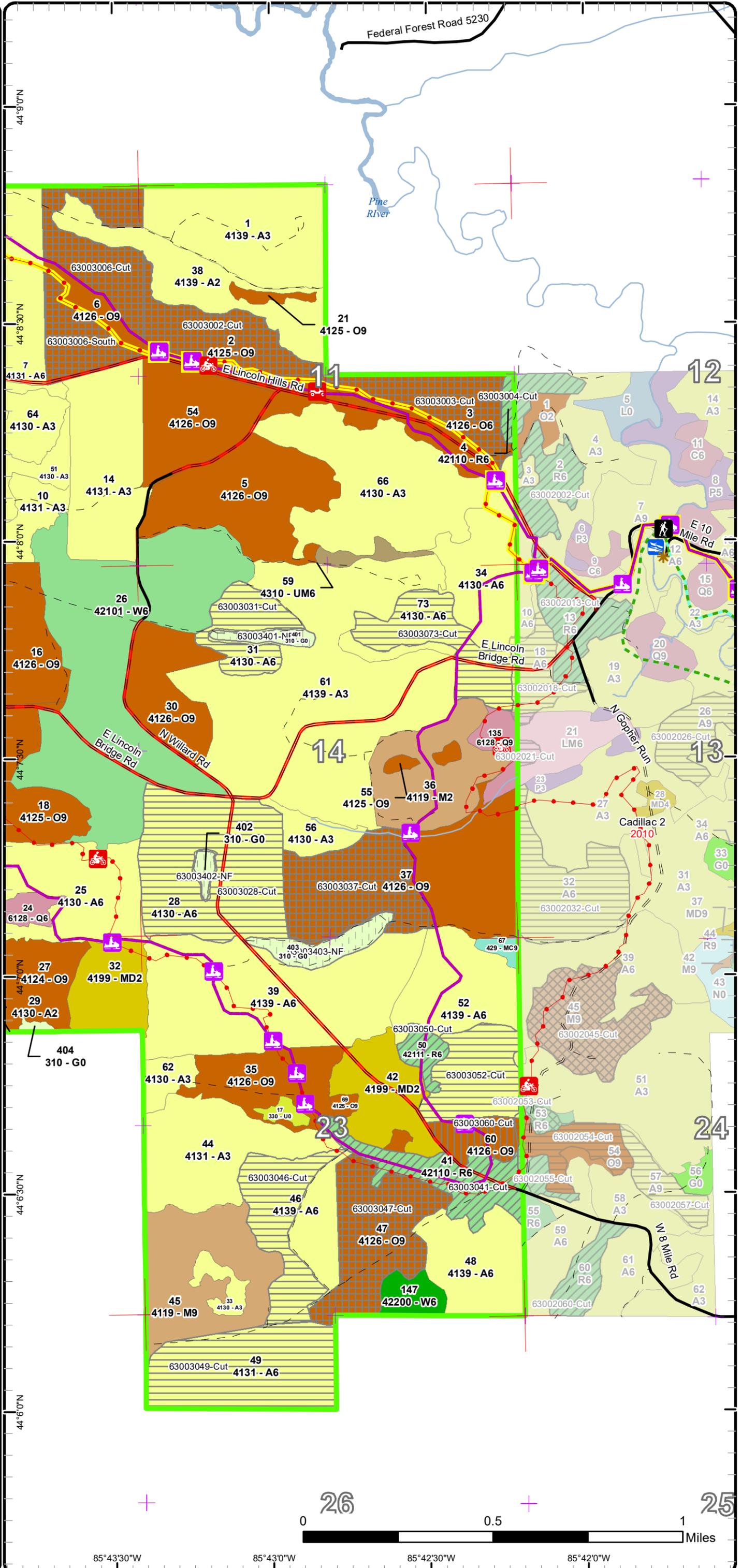


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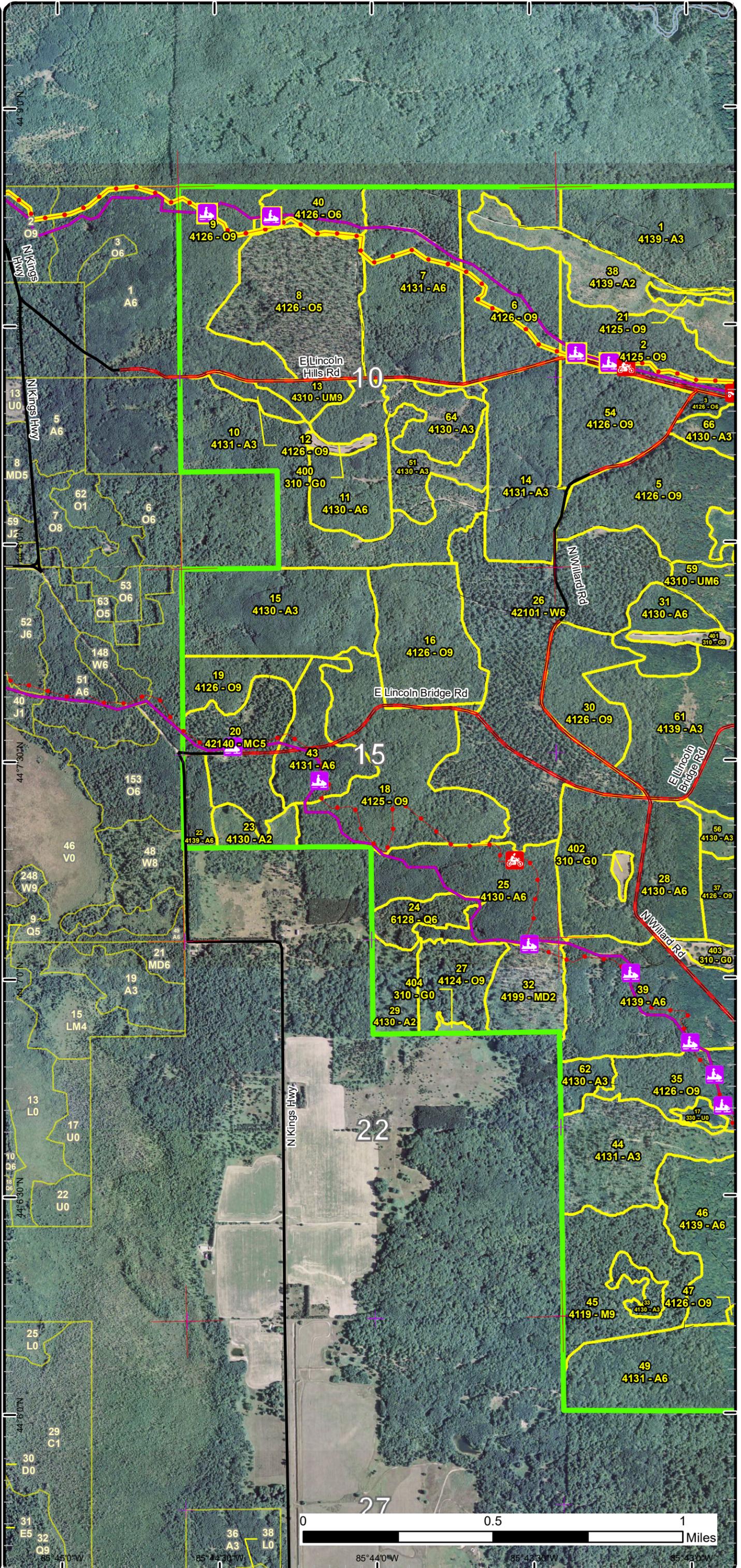
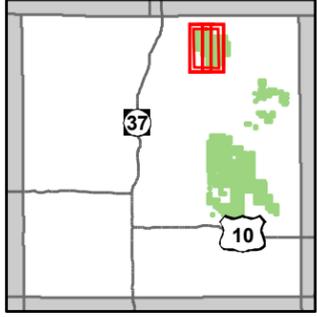
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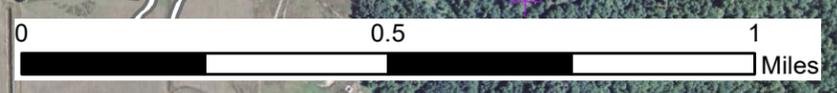
85°43'30"W 85°43'0"W 85°42'30"W 85°42'0"W

Stand Boundary Map

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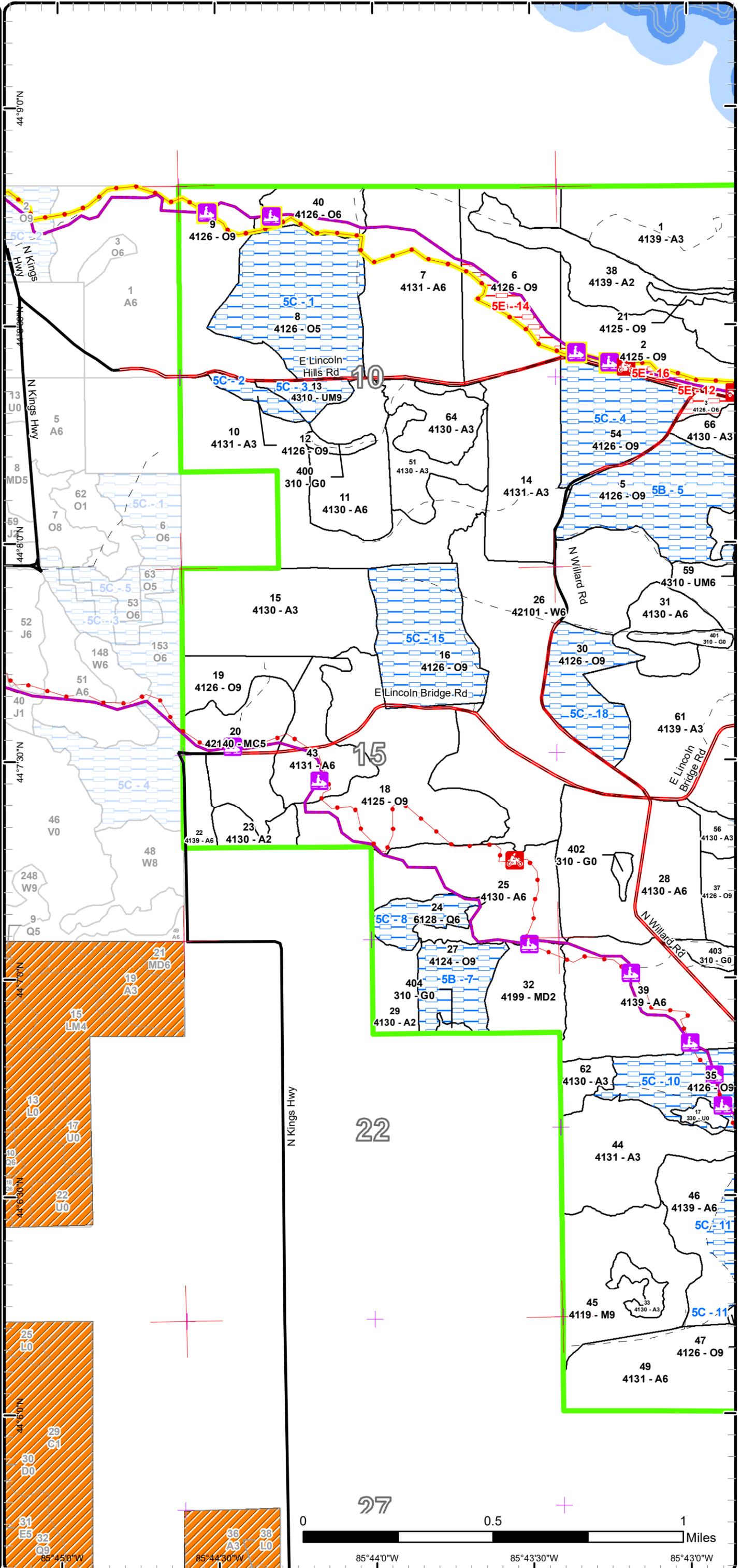
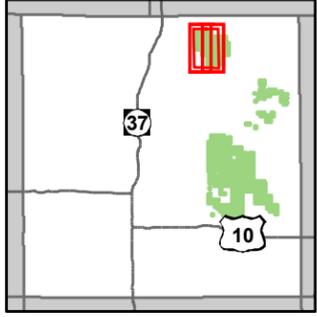
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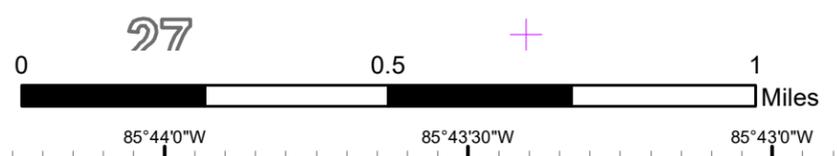
85° 45' 0" W 85° 44' 30" W 85° 44' 0" W 85° 43' 30" W 85° 43' 0" W

Special Conservation Areas & Site Conditions Map

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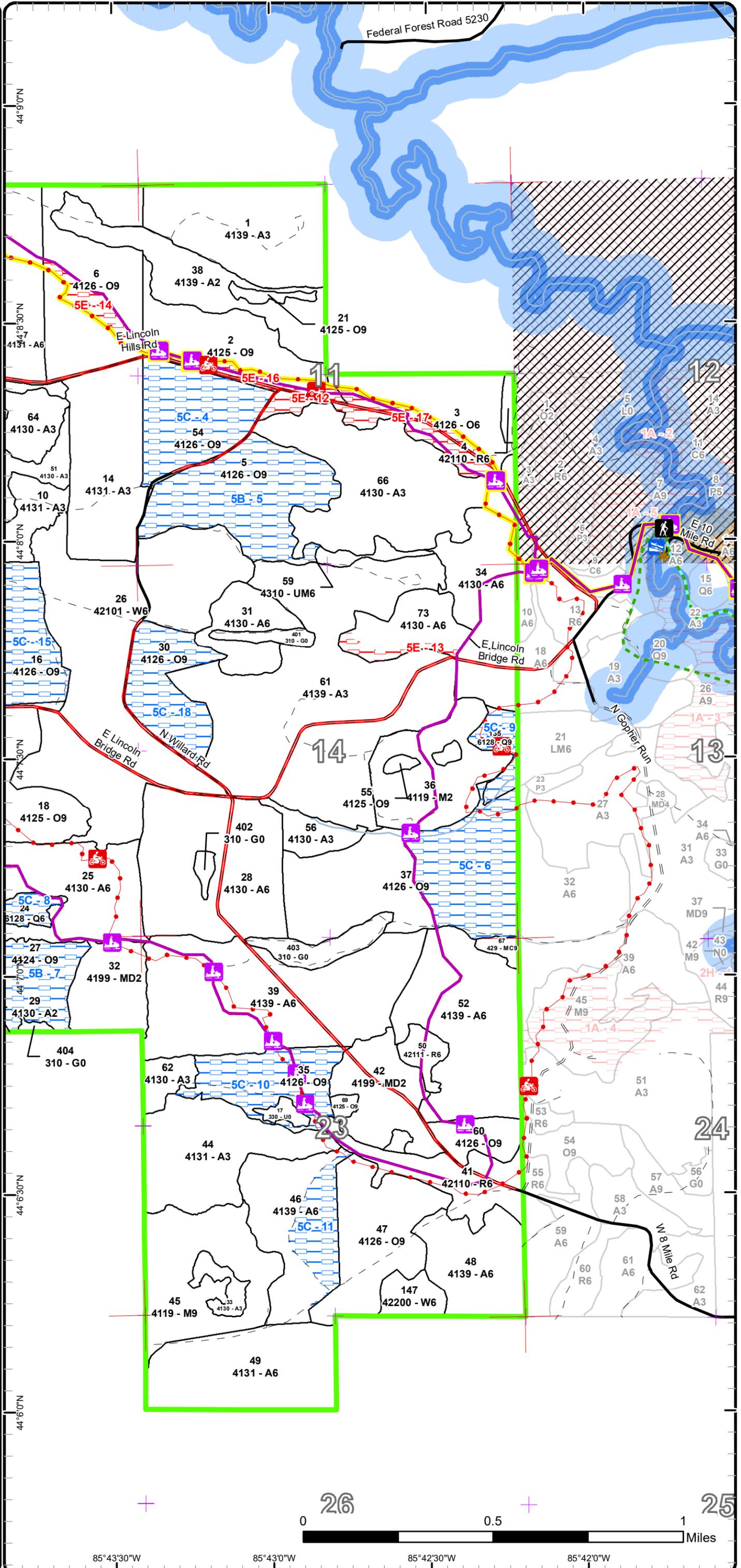
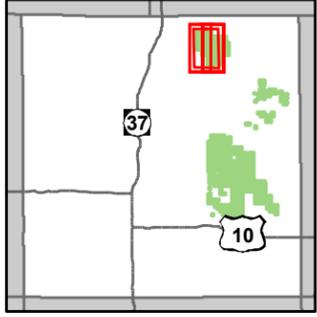


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries

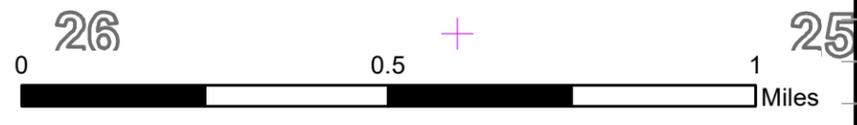


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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries



85°43'30"W 85°43'0"W 85°42'30"W 85°42'0"W

Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit

Compartment 3

Year of Entry 2018

Cheryl Nelson : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	151	253	594	198	195	199	0	0	0	0	0	0	0	0	0	0	0	1590
Herbaceous Openland	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Conifers	0	0	0	0	0	0	0	0	0	11	16	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	0	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Northern Hardwood	0	48	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	110
Oak	0	0	0	0	0	0	99	0	0	37	522	270	0	0	0	0	0	0	928
Planted Mixed Pines	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	41	4	0	0	0	0	0	0	0	0	0	0	0	45
Upland Conifers	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Upland Mixed Forest	0	0	0	0	0	6	0	0	0	10	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	11	166	0	0	0	0	0	0	0	0	0	0	0	0	177
Total	32	265	253	594	209	453	302	0	0	58	600	274	0	0	0	0	0	0	3040



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 3

Total Compartment Acres: 3,039

Commercial Harvest - 758
 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	358	0	0	0	0	0	0	0	0	358
Oak	0	0	0	320	36	0	0	0	0	356
Red Pine	0	0	0	0	0	44	0	0	0	44
Total	358	0	0	320	36	44	0	0	0	758

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	758	0	0	0	0	0	0	26	0	784
Next Step	0	0	100	0	0	0	613	0	0	714
Total	758	0	100	0	0	0	613	0	26	1498



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
2	63003002-Cut	38.0	4125 - Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 0-20 basal area. These trees should be marked as a group. Retention in the form of patches between the											
<u>Specs:</u> ORV Route and the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration. Use chipping spec in timber sale.											
<u>Next Step</u> Planting, Underplant											
<u>Treatments:</u>											
<u>Acceptable</u> Mix upland species.											
<u>Regen:</u>											
<u>Other</u> Trench and plant red pine using a 75% oak weave (8.5' X 7').											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
3	63003003-Cut	33.5	4126 - White, Black, N. Pin Oak	Poletimber Well	96	81-110	Harvest	Seed Tree with Retention	412 - Oak Types	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 20-30 basal area. Retention will be the uncut portion south of Lincoln Hills Road and the space between											
<u>Specs:</u> the ORV Route and the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of oak and other upland species.											
<u>Regen:</u>											
<u>Other</u> Decline in area may reduce residual basal area when sale is being set up.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
4	63003004-Cut	3.8	42110 - Planted Red Pine	Poletimber Well	50	141- 170	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to remove approximately 1/3 of basal area.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red pine											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
6	63003006-Cut	38.2	4126 - White, Black, N. Pin Oak	Sawtimber Well	100	111- 140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 0-20 basal area. These trees should be marked as a group. Retention in the form of patches between the											
<u>Specs:</u> ORV Route and the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Use chipping spec in timber sale.											
<u>Next Step</u> Planting, Underplant											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed upland species.											
<u>Regen:</u>											
<u>Other</u> Trench and plant red pine using a 75% oak weave (8.5' X 7').											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	63003006- South	24.1	4126 - White, Black, N. Pin Oak	Sawtimber Well	100	111- 140	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 0-20 basal area. These trees should be marked as a group. Retention in the form of patches between the											
<u>Specs:</u> ORV Route and the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Use chipping spec in timber sale.											
<u>Next Step</u> Planting, Underplant											
<u>Treatments:</u>											
<u>Acceptable</u> Mixed upland species.											
<u>Regen:</u>											
<u>Other</u> Trench and plant red pine using a 75% oak weave (8.5' X 7').											
<u>Comment:</u>											
Proposed Start Date: 10/01/2017											
9	63003009-Cut	59.0	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 20-30 basal area. Retention in the form of patches and the space between the ORV Route and the ORV											
<u>Specs:</u> Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Mix of upland species.											
<u>Regen:</u>											
<u>Other</u> Decline in area may reduce residual basal area when sale is being set up.											
<u>Comment:</u>											
Proposed Start Date: 10/01/2017											
11	63003011-Cut	43.7	4130 - Aspen	Poetimber Well	44	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all species to a 2" DBH. Mark an occasional species to leave. Retention in the form of patches focused along the wildlife opening and Lincoln											
<u>Specs:</u> Hills Road. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Use timber sale to remove autumn olive from adjacent wildlife opening.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, oak, and other upland species.											
<u>Regen:</u>											
<u>Other</u> Treatment boundary excludes area directly adjacent to the wildlife opening.											
<u>Comment:</u>											
Proposed Start Date: 10/01/2017											
19	63003019-Cut	21.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	100	81-110	Harvest	Shelterwood with Retention	4121 - Oak, Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Mark to leave a mix of species averaging 20-40 basal area. Retention will be in the form of patches. Use Grouse Spec. 5.2.4.4 - Leave one, 8"											
<u>Specs:</u> diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> Oak, aspen, and other upland species.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
Proposed Start Date: 10/01/2017											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
28 63003028-Cut	86.5	4130 - Aspen	Poetimber Well	44	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Specs: Cut all species to a 2" DBH. Mark an occasional species to leave. Retention in the form of patches focused along the wildlife opening and Willard Road. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Use timber sale to remove autumn olive from adjacent wildlife opening.

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

Acceptable Regen: Aspen, oak, and other upland species.

Other Comment: Treatment boundary excludes area directly adjacent to the wildlife opening.

Proposed Start Date: 10/01/2017

31 63003031-Cut	22.8	4130 - Aspen	Poetimber Well	46	51-80	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: Cut all trees to a 2" DBH. Mark an occasional mix of species to retain. Retention in the form of patches focused along the wildlife opening. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

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

Acceptable Regen: Aspen with other upland species.

Other Comment: Treatment boundary excludes area directly adjacent to the wildlife opening.

Proposed Start Date: 10/01/2017

37 63003037-Cut	52.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	90	81-110	Harvest	Seed Tree with Retention	4121 - Oak, Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: Mark to leave a mix of species averaging 20-40 basal area. Retention will be in the form of patches focused along the western edge adjacent to stand 28 treatment and the ORV Route. Use ORV Route protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Oak with aspen and other upland species.

Other Comment:

Proposed Start Date: 10/01/2017

40 63003040-Cut	20.7	4126 - White, Black, N. Pin Oak	Poetimber Well	95	81-110	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Specs: Mark to leave a mix of species averaging 10-30 basal area. Retention will be in patches and the space between the ORV Route and the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Mix of upland species.

Other Comment: Decline in area may reduce residual basal area when sale is being set up.

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
41	63003041-Cut	32.5	42110 - Planted Red Pine	Poletimber Well	48	111-140	Harvest	Low Thinning	42141 - Planted Mixed Pine, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark to remove approximately 1/3 of basal area. Use ORV Route and Trail protection spec in timber sale.

Specs:Next StepTreatments:

Acceptable Pine with mixed deciduous.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

43	63003043-Cut	34.8	4131 - Aspen, Oak	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all species to a 2" DBH. Mark an occasional species to leave. Retention in the form of patches focused along the ORV Route and Trail and Lincoln Bridge Road. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, and other upland species.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

46	63003046-Cut	36.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	50	1-50	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all species to a 2" DBH. Mark an occasional species to leave. Retention in the form of individually marked trees along the two track and in a patch north of the ORV Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, and other upland species.

Regen:Other

Mark timber sale boundary to the south of the ORV Trail.

Comment:

Proposed Start Date: 10/01/2017

47	63003047-Cut	53.6	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	111-140	Harvest	Seed Tree with Retention	4122 - Oak, Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to leave a mix of species averaging 20-40 basal area. Retention will be included in the residual BA. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Mix of oak and pine.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
49 63003049-Cut	65.2	4131 - Aspen, Oak	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all species to a 2" DBH. Clearcut in aspen zones. Mark to leave a mix of species averaging 10-20 basal area outside of aspen zones. Retention will be in patches. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with upland deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

50 63003050-Cut	8.0	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	48	111-140	Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to remove approximately 1/3 of basal area. Use ORV Route protection spec in timber sale.

Specs:

Next Step

Treatments:

Acceptable Red pine with mixed deciduous species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

52 63003052-Cut	33.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	38	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all species to a 2" DBH. Mark an occasional species to leave. Retention in the form of patches between the ORV Route and Willard Road and around the low, wet area on the eastern boundary of the stand. Use ORV Route protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, and other upland species.

Regen:

Other

Comment: Mark boundary line east of the ORV Route. The portion between Willard Road and the ORV Route will be a retention patch.

Proposed Start Date: 10/01/2017

60 63003060-Cut	14.0	4126 - White, Black, N. Pin Oak	Sawtimber Well	95	81-110	Harvest	Shelterwood with Retention	4122 - Oak, Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark to leave a mix of species averaging 30-40 basal area. Retention will be in the residual BA focused along the ORV Route and Willard Road. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec. 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale. Protect existing regeneration.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Mix of oak and pine species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
73	63003073-Cut	35.0	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all trees to a 2" DBH. Do not cut cedar and hemlock. Mark an occasional mix of species to retain. Retention in the form of patches especially around the low, wet areas, and the road and ORV Route & Trail. Use ORV Route and Trail protection spec in timber sale. Use Grouse Spec.
Specs: 5.2.4.4 - Leave one, 8" diameter or larger log-length (8 foot minimum) piece on the ground for every 2 acres, also leave at least six (6) large tops in a single pile and at least one pile per acre. Use understory shrub protection spec in timber sale.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen with other upland species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

400	63003400-NF	3.7	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2007

401	63003401-NF	5.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2007

402	63003402-NF	2.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2007



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
403	63003403-NF	13.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Plant forage and brood rearing herbaceous species. Till, fertilize, and plant annually.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2007

**Total Treatment
Acreage Proposed: 784.0**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 3
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	5E
		With Condition	Not Available				
1591	1565	20	6	Aspen		20	6
28	28	0	0	Herbaceous Openland			
4	4	0	0	Low-Density Trees			
27	0	27	0	Lowland Conifers		27	
66	66	0	0	Mixed Upland Deciduous			
110	110	0	0	Northern Hardwood			
928	468	415	45	Oak	95	319	45
45	45	0	0	Planted Mixed Pines			
45	45	0	0	Red Pine			
4	4	0	0	Upland Conifers			
16	6	10	0	Upland Mixed Forest		10	
177	177	0	0	White Pine			
3,039	2,517	472	51	Total Forested Acres	95	377	51
	83%	16%	2%	Relative Percent			

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 3
Year of Entry: 2018

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 3
Year of Entry: 2018

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Cheryl Nelson : Examiner

Compartment: 3
Year of Entry: 2018

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	59	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4139 - Aspen, Mixed Deciduous	Sapling Well	67.2	26	Immature	Stand treated timber sale #63-019-87-01, "NW-Eleven". Occasional overstory red & white pine log trees and sapling jack pine.
2	4125 - Black, N. Pin Oak	Sawtimber Well	49.1	95	81-110	Pocket of pole size pin/black/white oak in north central part of stand. Scattered pockets heavy to white and red pine saplings in stand.
3	4126 - White, Black, N. Pin Oak	Poletimber Well	57.8	96	81-110	Pulp sized oak with pockets of log sized trees.
4	42110 - Planted Red Pine	Poletimber Well	3.8	50	141-170	Stand 3rd row thinned timber sale # (63-001-08-01) by Proctor Logging. Stand planted.
5	4126 - White, Black, N. Pin Oak	Sawtimber Well	66.8	100	81-110	
6	4126 - White, Black, N. Pin Oak	Sawtimber Well	71.4	100	111-140	
7	4131 - Aspen, Oak	Poletimber Well	85.5	26	Immature	Stand treated timber sale #63-018-87-01, "Center 10".
8	4126 - White, Black, N. Pin Oak	Poletimber Medium	77.5	100	1-50	Stand treated timber sale #63-034-08-01, "Dog Day's Oak".
9	4126 - White, Black, N. Pin Oak	Sawtimber Well	59.0	95	81-110	
10	4131 - Aspen, Oak	Sapling Well	89.4	16	Immature	Stand treated timber sale #63-014-98-01, "Teamwork Hdwd".
11	4130 - Aspen	Poletimber Well	45.4	44	1-50	Occasional overstory White and Red pine.
12	4126 - White, Black, N. Pin Oak	Sawtimber Well	7.3	95	81-110	Occasional XL, overstory Red and White pine.
13	4310 - Pine, Oak Mix	Sawtimber Well	10.0	85	81-110	Occasional XL Overstory white Pine. Stand appears to have had red maple and possibly some aspen removed in a previous treatment however no treatment record could be found.
14	4131 - Aspen, Oak	Sapling Well	63.4	26	Immature	Stand treated timber sale #63-016-87-01, "Long 60". Occasional overstory red and white pine.
15	4130 - Aspen	Sapling Well	74.5	26	Immature	Stand treated timber sale #63-014-87-01, "Off 10 Mile" in 1990.
16	4126 - White, Black, N. Pin Oak	Sawtimber Well	59.4	95	81-110	Pockets with a heavy white pine understory throughout stand.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 3
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4125 - Black, N. Pin Oak	Sawtimber Well	99.0	55	81-110	Stand treated timber sale #631-62-A. Varying quality, diameters, and densities. Some higher quality northern red oak to poor quality black/pin oak.
19	4126 - White, Black, N. Pin Oak	Sawtimber Well	21.8	100	81-110	
20	42140 - Planted Mixed Pine	Poletimber Medium	45.2	42	81-110	Stand treated timber sale #63-205-98-01, "Flat Tire Oak Removal". Stand planted but paperwork could not be found.
21	4125 - Black, N. Pin Oak	Sawtimber Well	3.7	105	1-50	Stand was too steep to be cut with timber sale #63-034-08-01, "Dog days oak & aspen". Heavily stocked understory.
22	4139 - Aspen, Mixed Deciduous	Poletimber Well	11.8	38	1-50	Stand treated timber sale #11-78.
23	4130 - Aspen	Sapling Medium	12.2	6	Immature	Stand treated timber sale #63-002-08-01, "Deer camp oak and aspen".
24	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.7	95	141-170	Some cedar for fenceposts were cut out of this area in the 1960's.
25	4130 - Aspen	Poletimber Well	65.3	38	81-110	Stand treated timber sale #26-78A.
26	42101 - Planted White Pine, Mixed Deciduous	Poletimber Well	165.7	46	51-80	Stand treated timber sale #63-005-98-01, "Flat Tire Oak Removal".
27	4124 - Red with White Oak	Sawtimber Well	28.4	105	81-110	Stand treated timber sale #63-010-08-01, "Mark's Woods".
28	4130 - Aspen	Poletimber Well	87.3	44	51-80	Stand treated timber sale #37-73A.
29	4130 - Aspen	Sapling Medium	18.4	4	1-50	Stand treated timber sale #63-010-08-01, "Mark's Woods". Previous Year of Origin = 1929.
30	4126 - White, Black, N. Pin Oak	Sawtimber Well	36.7	85	51-80	
31	4130 - Aspen	Poletimber Well	24.2	46	51-80	
32	4199 - Other Mixed Upland Deciduous	Sapling Medium	29.1	4	1-50	Stand treated timber sale #63-010-08-01, "Mark's Woods". Previous year of origin = 1930.
33	4130 - Aspen	Sapling Well	7.6	16	Immature	Stand treated timber sale #63-004-00-01, "Doll Eyes Aspen".
34	4130 - Aspen	Poletimber Well	38.3	42	51-80	Stand treated timber sale in 1974.

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Cadillac Mgt. Unit

Report 7 – Forested Stands

Compartment: 3
Year of Entry: 2018

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4126 - White, Black, N. Pin Oak	Sawtimber Well	37.2	90	51-80	
36	4119 - Mixed Northern Hardwoods	Sapling Medium	48.4	6	Immature	Stand treated timber sale #63-002-08-01, "Deer camp oak and aspen".
37	4126 - White, Black, N. Pin Oak	Sawtimber Well	107.6	90	81-110	
38	4139 - Aspen, Mixed Deciduous	Sapling Medium	49.2	5	Immature	Stand treated timber sale #63-034-08-01, "Dog Day's Oak".
39	4139 - Aspen, Mixed Deciduous	Poletimber Well	118.0	26	Immature	Stand treated timber sale in 1990.
40	4126 - White, Black, N. Pin Oak	Poletimber Well	20.7	95	81-110	
41	42110 - Planted Red Pine	Poletimber Well	33.2	48	111-140	Stand treated timber sale #63-005-82-01, "Lincoln Hills Pine Release", in 1986.
42	4199 - Other Mixed Upland Deciduous	Sapling Medium	36.8	6	Immature	Stand treated timber sale #63-002-08-01, "Deer camp oak and aspen".
43	4131 - Aspen, Oak	Poletimber Well	34.8	55	81-110	Stand treated timber sale #31-62-A. Pockets of aspen with oak mixed in. Mixed densities and diameters. Few aspen 14" DBH. Few overstory XL white and red pine.
44	4131 - Aspen, Oak	Sapling Well	59.5	4	Immature	Stand treated timber sale #63-010-08-01, "Mark's Woods".
45	4119 - Mixed Northern Hardwoods	Sawtimber Well	61.8	90	81-110	Stand treated timber sale #63-010-08-01, "Mark's Woods". Beech bark disease in stand.
46	4139 - Aspen, Mixed Deciduous	Poletimber Well	56.7	50	1-50	
47	4126 - White, Black, N. Pin Oak	Sawtimber Well	53.6	95	111-140	
48	4139 - Aspen, Mixed Deciduous	Poletimber Well	41.9	38	1-50	Stand treated timber sale in 1978.
49	4131 - Aspen, Oak	Poletimber Well	65.2	52	81-110	
50	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	8.0	48	111-140	Stand thinned (3rd row) as part of sale # 63-001-08-01 (Little Lincoln Red Pine).
51	4130 - Aspen	Sapling Well	26.6	16	Immature	Stand treated timber sale #63-014-98-01, "Teamwork Hdwd".



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
52	4139 - Aspen, Mixed Deciduous	Poletimber Well	79.0	38	51-80	Stand treated timber sale #24-78A in 1978. Occasional pine. Few overstory white pine.
54	4126 - White, Black, N. Pin Oak	Sawtimber Well	47.7	95	81-110	Occasional overstory white and red pine.
55	4125 - Black, N. Pin Oak	Sawtimber Well	4.0	95	81-110	Retention from treated stand 36 (stand 36 treated timber sale #63-002-08-01, "Deer camp oak and aspen").
56	4130 - Aspen	Sapling Well	12.3	6	Immature	Stand treated timber sale #63-002-08-01, "Deer camp oak and aspen".
59	4310 - Pine, Oak Mix	Poletimber Well	5.6	40	81-110	White pine overtaking oak. Nice mixed stand.
60	4126 - White, Black, N. Pin Oak	Sawtimber Well	14.7	95	81-110	
61	4139 - Aspen, Mixed Deciduous	Sapling Well	185.8	26	Immature	Stand treated timber sale #63-017-87-01, "Lincoln Hills 4
62	4130 - Aspen	Sapling Well	9.8	16	Immature	Stand treated timber sale #63-004-00-01, "Doll Eyes Aspen".
64	4130 - Aspen	Sapling Well	23.9	16	Immature	Stand treated timber sale #63-014-98-01, "Teamwork Hdwd".
66	4130 - Aspen	Sapling Well	95.6	16	Immature	Stand treated timber sale #63-013-98-01, "Good Friday Aspen".
67	429 - Mixed Upland Conifers	Sawtimber Well	3.7	105	81-110	
69	4125 - Black, N. Pin Oak	Sawtimber Well	4.3	90	81-110	Retention areas for stand 42 (treated timber sale #63-002-08-01, "Deer Camp Oak and Aspen").
73	4130 - Aspen	Poletimber Well	42.3	56	81-110	Some small, wet pockets with cedar and hemlock in stand.
135	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	11.1	85	141-170	
147	42200 - Natural White Pine	Poletimber Well	11.2	35	1-50	Occasional red pine log-pulp



Stand	Cover Type	Acres	Managed Site	General Comments:
17	330 - Low-Density Trees	3.6		
400	310 - Herbaceous Openland	3.7	Yes	Managed Wildlife Opneing.
401	310 - Herbaceous Openland	5.6	Yes	Managed Wildlife Opening.
402	310 - Herbaceous Openland	2.9	Yes	Managed Wildlife Opening
403	310 - Herbaceous Openland	13.9	Yes	Managed Wildlife Opening
404	310 - Herbaceous Openland	1.6	No	