



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71050

Entry Year 2025

Acreage: 1,573

County Roscommon

Management Area: High Sand Plains

Stand Examiner: Garret Price

Legal Description:

T21N, R01W Sections 4, 5 and 6

T22N, R01W Sections 32 and 33

Identified Planning Goals:

Vegetation management in the Upper Muskegon 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 period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Soils generally consist of Greycalm, Gerrish/Grayling and Klacking/Perecheney sands.

The topography is generally flat to gently rolling.

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

Ownership within the compartment and the surrounding area consists of large blocks of state land intermixed with private property.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

East and West Twin lakes lie within the compartment boundary.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Sections 4-6, T21N-R1W and sections 32-33, T22N-R1W, Roscommon County

No known potential exists for metallic minerals in this part of the state. An active sand/gravel operation exists in the NWNW of Sec 32, just outside the compartment, off Reilly Road, which is operated by the Roscommon County Road Commission. There is very good potential for sand & gravel and for development of surface mines on uplands in the compartment. Outside of the Twin Lakes community, demand for aggregate resources may be limited to the county road commission or DNR for road maintenance. The nearest oil & gas production, past or present, is more than two miles away. There is limited history of well permitting activity in and around the compartment. In 2012, a well was drilled less than one mile east of the compartment to test the Collingwood Formation, but the well did not produce and, to date, the Collingwood has not been proven as an economic hydrocarbon play within the state. No known significant potential exists for hydrocarbons from other known producing formations beneath the compartment. While there has been some recent history of leasing of State-owned oil & gas rights within the compartment, oil & gas potential is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Vehicle access throughout the compartment is generally very good due to the abundant county road system and multiple forest access roads.

Survey Needs:

Possible survey needed for stand numbers 105, 76 and 6 timber sale preparations.

Recreational Facilities and Opportunities:**Fire Protection:****Additional Compartment Information:**

The following reports from the Inventory are attached:

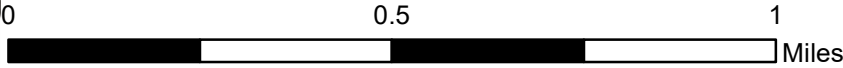
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

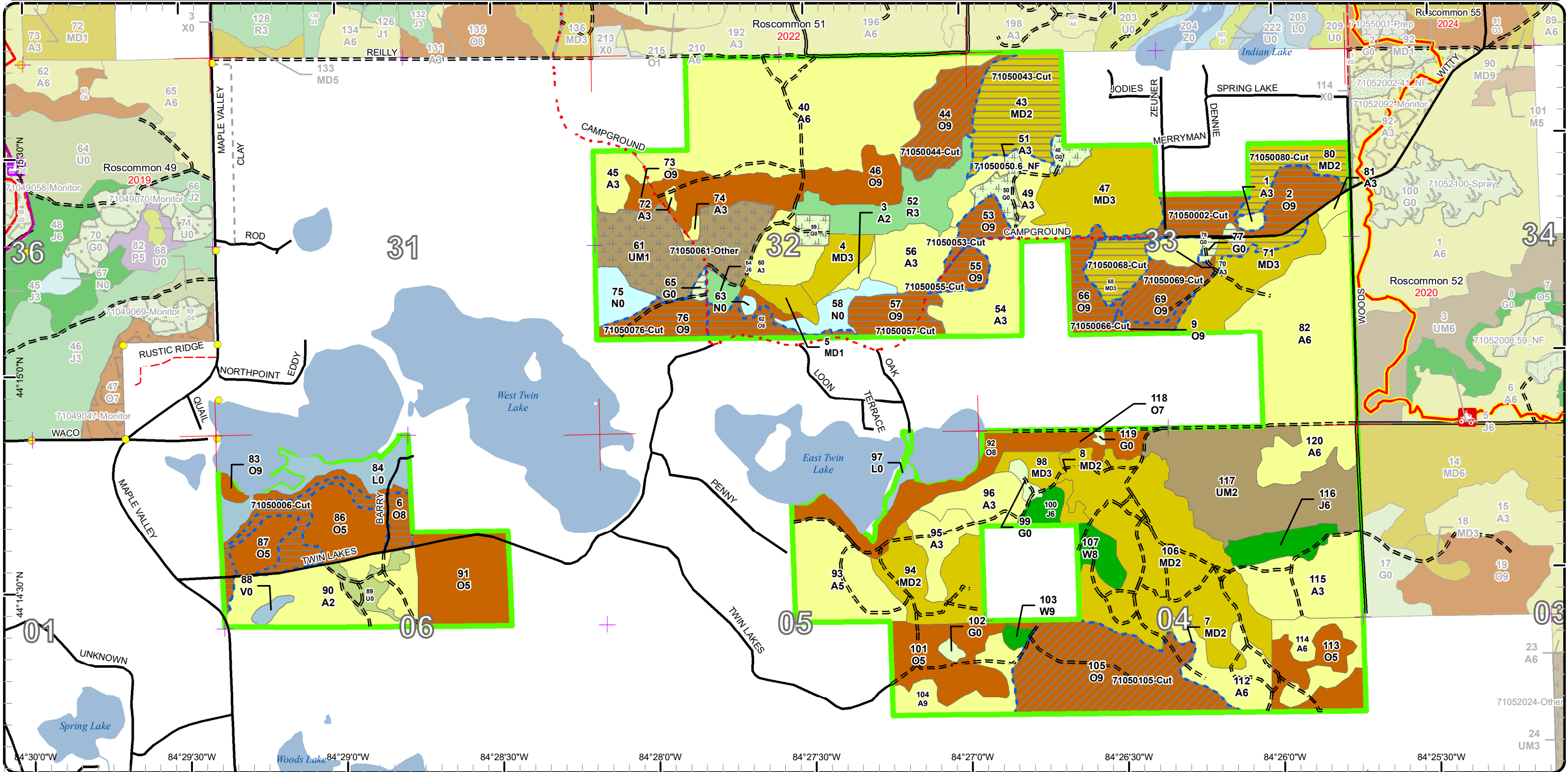
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 50
 T22N, R01W, Sec. 32, 33/nT21N,
 R01W, Sec. 4-6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 1572.7 GIS Calculated
 Examiner: Garret Price
 Map Revised: 7/5/2023
 Map Phase: Web-Post

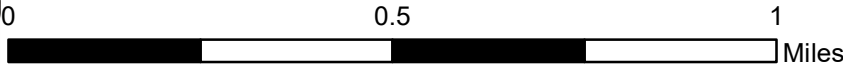


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- 🚗 ORV Trails
- 🛷 Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 310 - Herbaceous Openland (MCCCT)
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland

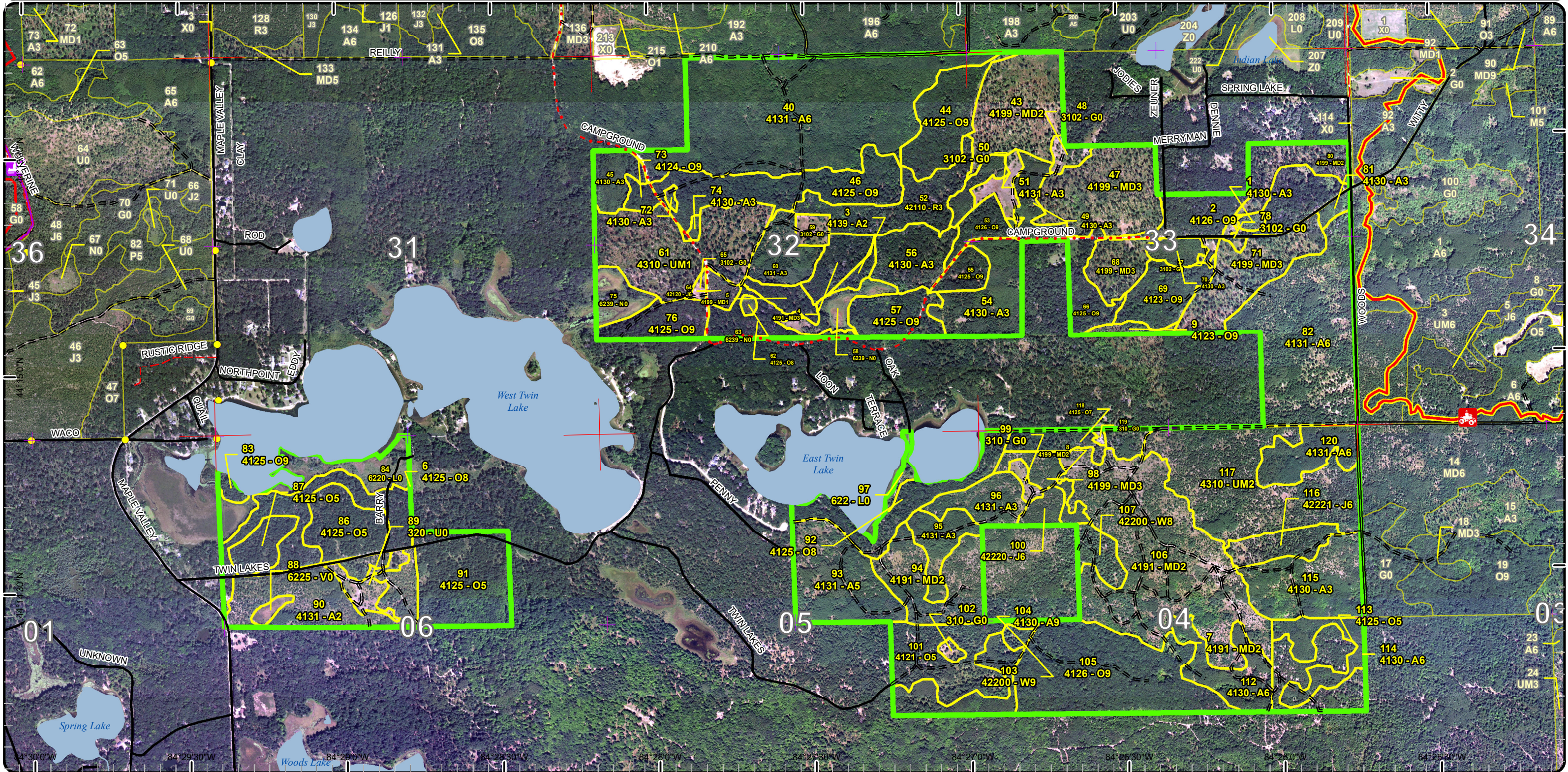


Stand Boundary Map

Compartment: 50
 T22N, R01W, Sec. 32, 33/nT21N,
 R01W, Sec. 4-6
 County: Roscommon
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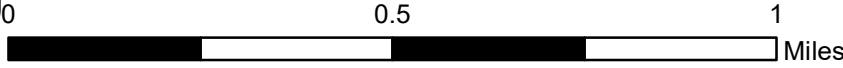


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- Counties
- DNR - Secondary Forest Road
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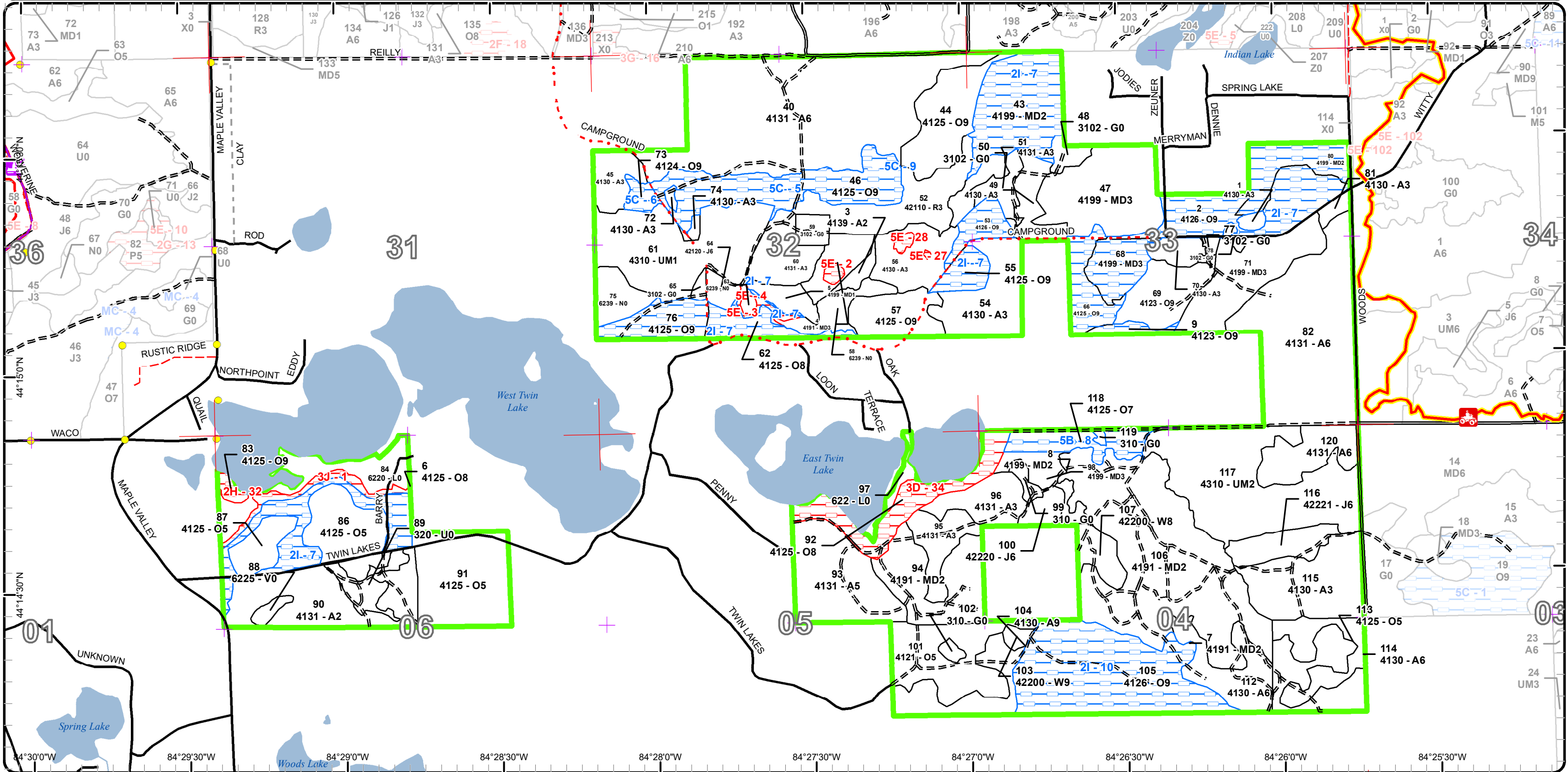


Special Conservation Areas

Compartment: 50
 T22N, R01W, Sec. 32, 33/nT21N,
 R01W, Sec. 4-6
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 1572.7 GIS Calculated
 Examiner: Garret Price
 Map Revised: 7/5/2023
 Map Phase: Web-Post



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- 🛵 ORV Trails
- 🏂 Snowmobile Trails
- Designated ATV Trails
- ==== Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- Lake/Pond
- Lakes and Rivers
- 🟩 Compartment Boundary
- 🟦 Available w/ Constraints
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 🚫 Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- 🟨 Stand Boundaries



44°15'0"N 44°14'30"N 44°30'0"W 84°29'30"W 84°29'0"W 84°28'30"W 84°28'0"W 84°27'30"W 84°27'0"W 84°26'30"W 84°26'0"W 84°25'30"W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	0	175	294	35	0	0	0	0	0	0	0	0	0	0	0	0	528
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Jack Pine	0	0	0	4	6	13	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	18	250	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	309
Oak	0	0	0	0	0	124	0	0	0	0	140	0	202	0	0	0	0	0	466
Red Pine	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	52	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Upland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	0	0	0	9	3	0	0	0	0	0	0	0	0	0	0	0	11
Total	85	122	250	220	372	181	3	0	0	0	140	0	202	0	0	0	0	0	1573



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 50
Total Compartment Acres: 1,573

Commercial Harvest - 234
Harvests with Site Condition - 92
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
Mixed Upland Deciduous	69	0	0	0	0	0	0	0	0	69
Oak	148	0	0	0	0	110	0	0	0	258
Total	217	0	0	0	0	110	0	0	0	327

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	327	0	0	0	0	0	52	16	0	395
Next Step	0	400	350	0	0	883	496	52	0	2181
Total	327	400	350	0	0	883	496	104	16	2576



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

2	71050002-Cut	42.3	4126 - White, Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> CC 1 inch and up. Cut all standing dead. Use edge retention on southern stand boundary or near Stand 1 to facilitate future planting operations. Focus on capturing quality white oak in retention where present. When setting up sale include Northern portions of dense cherry regen in Stand 71 and stands 77 and 78. Treatment area has been drawn in to approximate this. Trench and plant around any sizeable aspen clones that regenerate.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant;</p> <p><u>Treatments:</u> Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitorin</p> <p><u>Acceptable</u> Fully Stocked red pine plantation</p> <p><u>Regen:</u></p> <p><u>Other</u> low stump spec, chipping required, soft oak wilt spec due to oak on adjacent private. Plant with other stands in compartment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
6	71050006-Cut	24.7	4125 - Black, N. Pin Oak	Sawtimber Medium	99	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> CC 1 inch and up. Cut all standing dead oak. Use full tool kit to create a free to grow red pine plantation.</p> <p><u>Specs:</u></p> <p>Focus retention along L Type to North.</p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial -</p> <p><u>Treatments:</u> Release; Planting, Initial Plant; Planting, Interplant</p> <p><u>Acceptable</u> Free to grow red pine plantation</p> <p><u>Regen:</u></p> <p><u>Other</u> Block illegal ORV trail off of Private to the West.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
43	71050043-Cut	38.0	4199 - Other Mixed Upland Deciduous	Sapling Medium	10	Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to a 1 " spec. Chipping required. Use a the full tool box to create a free to grow red pine plantation. Apply retention along the privet property line.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Planting, Initial Plant;</p> <p><u>Treatments:</u> Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Planted red pine in a free to grow condition.</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 /2024</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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44	71050044-Cut	26.3	4125 - Black, N. Pin Oak	Sawtimber Well	110	111-140	Harvest	Low Thinning	4126 - White, Black, N. Pin Oak	Even-Aged	No
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Prescription Low thin stand to an average BA of 60 to 80. Remove all pin oak, all suppressed or poor form hybrid oak with suppressed oak, and mark those white oak which will remain suppressed with poor crown position under desired residual. Place regen gaps one tree length around isolated aspen clumps in stand (2 in the north and one in the south)

Next Step
Treatments:

Acceptable Pockets of aspen regeneration in canopy gaps in between the mature oak residual
Regen:

Other damage spec and hard oak wilt.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

53	71050053-Cut	8.7	4126 - White, Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut 1 inch and up except do not cut white pine (1). Plant to rp with nearby stands. Focus retention around higher density quality white and hybrid oak on the edge of stand, to facilitate future planting operations.

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Pesticide, Skidder -
Treatments: Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);

Acceptable a fully stocked red pine plantation.
Regen:

Other Low stump spec, Soft oak wilt spec, No landing in managed opening.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

55	71050055-Cut	7.6	4125 - Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear Cut 1 inch and up. Focus retention around quality white oak where present on the edge of stand, to facilitate future planting operations.
Specs: Cut all standing dead.

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial -
Treatments: Release; Pesticide, Aerial - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);

Acceptable Fully stocked RP plantation in a free to grow scenario.
Regen:

Other Low stump spec, chipping required, soft oak wilt.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57	71050057-Cut	17.0	4125 - Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Clear Cut 1 inch and up except do not cut any conifers. Mark to leave 1 to 2 quality white oak per 2 acres. Focus retention to buffer wetland to the North and West of stand following BMPs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of aspen and oak, with no more than 40% of canopy composed of red maple and cherry spp. If Objectives fail plant to red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Low stump spec, soft oak wilt spec due to adjacent oak on private. If Objective fails plant to RP.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
61	71050061-Other	52.1	4310 - Pine, Oak Mix	Sapling Poor	3	1-50	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove all woody vegetation competing with red pine seedlings within 6 feet.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Skidder - Release; Pesticide, Aerial - Release; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Interplant; Planting, Replant; Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Mechanical</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Red pine plantation that is at least 70% stocked following harvest operations.</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> 1 /1 /2024</p>											
62	71050062-Cut	11.2	4125 - Black, N. Pin Oak	Sawtimber Medium	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> CC 1 inch and up including all dead trees. Focus retention Along Lowland Types in North of stand to buffer adjacent Lowland types following BMPs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Pesticide, Aerial - Release; Pesticide, Skidder - Release;</p> <p><u>Treatments:</u> Pesticide, Skidder - Site Prep; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr);</p> <p><u>Acceptable</u> Fully Stocked RP plantation</p> <p><u>Regen:</u></p> <p><u>Other</u> Require low stump, chipping, and special protection spec. Soft oak wilt spec due to adjacent oak on private. Little Brown Bat polygon intersects treatment in CAR last observed 1977.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
66	71050066-Cut	19.5	4125 - Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> CC 2 inch and up. Utilize the portion of stand 66 N of campground road for retention and no retention in stand 9 due to size and shape to facilitate future planting operations. Cut all standing dead. Cut all standing dead.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant;</p> <p><u>Treatments:</u> Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitorin</p> <p><u>Acceptable</u> Fully stocked red pine plantation.</p> <p><u>Regen:</u></p> <p><u>Other</u> Plant to RP. low stump spec, soft oak wilt spec due to adjacent oak on private, chipping required.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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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68	71050068-Cut	13.5	4199 - Other Mixed Upland Deciduous	Sapling Well	10	Immature	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription CC 1 inch and up. Use edge retention on Eastern stand boundary focusing on pockets of perimeter quality white oak. Cut all dead trees.
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant;
Treatments: Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitorin

Acceptable Fully Stocked Red Pine plantation
Regen:

Other Low Stump spec, Soft Oak wilt due to adjacent oak stands, Chipping required.
Comment:

Site Condition

Proposed Start Date: 10/1 /2025

69	71050069-Cut	16.0	4123 - Red Oak	Sawtimber Well	110	81-110	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
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Prescription Mark to cut releasing crop trees (higher quality hybrid oak and white oak). Thin approximately 1/3 of stands BA. Focus removals on lower quality/form/health hybrid oak, suppressed stems, and red maple over 14 inches.
Specs:

Next Step
Treatments:

Acceptable Understory is expected to fill in to witch hazel and red maple
Regen:

Other Hard oak wilt spec due to residual.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024

76	71050076-Cut	16.8	4125 - Black, N. Pin Oak	Sawtimber Well	110	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription CC 1 inch and up. Cut all standing dead. Focus retention in NW to buffer Lowland type following BMPs. Include stand 65 to the north in treatment and planting.
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Skidder - Release; Pesticide, Aerial - Site
Treatments: Prep; Pesticide, Aerial - Release; Monitoring, Artificial Regen(3yr); Monitoring, Artificial Regen(1yr)

Acceptable Fully Stocked RP plantation
Regen:

Other Require low stump, chipping, and special protection spec. 2 year contract no extensions. Soft oak wilt spec due to adjacent oak on private.
Comment: Little Brown Bat polygon intersects treatment in CAR last observed 1977.

Site Condition

Proposed Start Date: 10/1 /2024

80	71050080-Cut	17.6	4199 - Other Mixed Upland Deciduous	Sapling Medium	10	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription CC 1 inch and up. Cut all stand dead. Use edge retention along woods road to facilitate future planting operations, focusing retention on higher quality white oak if present. Plant to RP
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Site Prep; Planting, Initial Plant;
Treatments: Pesticide, Skidder - Release; Pesticide, Aerial - Release; Monitoring, Artificial Regen(1yr); Monitorin

Acceptable Fully Stocked Red Pine plantation.
Regen:

Other Low stumps, Soft oak wilt due to adjacent private, chipping required.
Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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105 71050105-Cut	67.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	99	111-140	Harvest	Crown Thinning	4124 - Red with White Oak	Even-Aged	No
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Prescription Mark to cut approximately 1/3 of BA releasing crop trees (Quality/Healthy Red and white oak stems). Favor poor form/health/suppressed red/hybrid stems for removal. Mark to cut all NPO. Use retention to buffer cedar and Vernal pools and drainages in east of Stand.

Specs:
Next Step
Treatments:

Acceptable Red maple regeneration will be expected in the understory.
Regen:

Other Hard oak wilt spec due to residual, Damage spec, No Chipping, roundwood required, Do not process tops, Loosely pile 4-8 tops on live oak
Comment: stumps.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2024

Approved Treatments:

48 71050048.4_N F	4.2	3102 - Grass	Nonstocked		Immature	NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/30/1899

50 71050050.6_N F	7.3	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
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Prescription
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 12/30/1899



S
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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
59 71050059.7_N F	4.7	3102 - Grass	Nonstocked			NonForestMgt	Other - Specify	3102 - Grass		No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 12/30/1899										

Total Treatment 395
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit

Garret Price: Examiner

Compartment: 50

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				2I	5B	5C	2H	3D	3J	5E		
528	527	0		1	Aspen									1
3	3	0		0	Bog									
25	25	0		0	Herbaceous Openland									
23	23	0		0	Jack Pine									
26	26	0		0	Lowland Shrub									
21	21	0		0	Marsh									
309	308	0		1	Mixed Upland Deciduous									1
466	280	150		36	Oak	92	14	44	3	25	6			3
28	28	0		0	Red Pine									
124	124	0		0	Upland Mixed Forest									
8	8	0		0	Upland Shrub									
11	11	0		0	White Pine									
1,573	1,384	150		39	Total Forested Acres	92	14	44	3	25	6			5
	88%	10%		2%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Garret Price: Examiner

Compartment: 50
Year of Entry: 2025

4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hold 10 to Treat other high priority oak stands in compartment.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat other higher priority oak stands in compartment.							
7	Available	2I: Survey needed	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey needed timber sale in stand 6. 4 ft steel pipe at NW corner of Cemetery fence is the only potential evidence of property boundary found.							
8	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	0	Unspecified	Unspecified		
Comments: stand is relatively healthy compared to other oak in compartment							

Report 4 – Site Conditions

Roscommon Mgt. Unit
Garret Price: Examiner

Compartment: 50
Year of Entry: 2025

10	Available	2I: Survey needed	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3D: Recreational / Scenic values	25	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
----------	--------------	-------------	----------------	-------

Comments

Mgt. Unit

Compartment:

Year of Entry



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
1	4130 - Aspen	Sapling Well	1.8	6	Immature	N/A																																				
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Canopy Species	% Cover	Size Class	DBH	Age																																						
Pin Cherry	5	Sapling	1																																							
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Bigtooth Aspen	85	Sapling	1	6																																						
Red Maple	5	Sapling	1																																							
White Oak	2	Sapling	1																																							
2	4126 - White, Black, N. Pin Oak	Sawtimber Well	33.1	110	81-110	N/A	30+% mortality in pin and hybrid oak. western and eastern portions of stand should regenerate to aspen. Moderate to heavy CWD loading of dead oak in places. Undesirable regeneration is expected throughout much of stand, if 50 percent of stand or greater has undesirable regeneration plant these areas to red pine. Declining aspen in the west and east of stand but these areas should regenerate to aspen. BA drops out of range in some areas due to dead stems.																																			
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3	4139 - Aspen, Mixed Deciduous	Sapling Medium	3.1	6	Immature	N/A	Moderately stocked stand of Aspen and Cherry. Accept as is. was not trenched and planted to RP in 2018 as old comments indicated. Focus planting efforts on other larger stands not as isolated in the area.																																			
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4	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	11.3	4	Immature	N/A	jp largely overtopped by cherry and some oak regen. jp stems still appear healthy. handful of old supercanopy white oak and one rp.																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																						
Jack Pine	25	Sapling	1	4																																						
Pin Cherry	70	Sapling	1	4																																						
5	4199 - Other Mixed Upland Deciduous	Sapling Poor	6.9	6	Immature	N/A	stand not trenched or planted. 5 to 10 foot cherry cover approx 25% with more filling in. Lewicki said from memory this area was intended to be left as barrens.																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
6	4125 - Black, N. Pin Oak	Sawtimber Medium	30.9	99	81-110	N/A	Stand has 30% plus mortality in Hybrid oak. Return in leaf out to determine mortality rate. Scattered Conifer white pine, less red pine, trace JP. Cherry brush in understory w/ some pole Black cherry stems. White pine seeding in low density throughout with pockets of high density. RM mostly concentrated on N Boundary. 2 old abandoned boats in stand center. evidence of illegal trail use throughout west of stand. See reference point for trail coming of private to the W. Stand accidentally deleted when adding treatment. Field survey 1/11/2023 deleted date 1/12/2023. Old OI comments from memory - Retain for scenic and recreational values.																																																
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7	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	0.0	13	Immature	N/A	the planted red pine is free to grow in areas but has overall been overtaken by hardwood competition. Canopy closure is widely variable. Small pockets are dominated by planted red pine with aspen clones or mixed oak and pine (rp, jp, wp). Grassy openings within stand were planted through Old Comments:Trenched and planted to red pine in 2010-KNFOPIC - FMD: Partially failed oak regeneration harvest. Some scattered aspen clones. Some limited areas of oak regen that is struggling due to frost and deer browse. Many areas the oak didn't even stump sprout after harvesting. Large areas of cherry brush. Trench and plant red pine in areas where oak and aspen have failed to regenerate. Avoid areas of existing oak regeneration. This stand has been updated from a field evaluation for a project on free to grow red pine.																																																
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9	4123 - Red Oak	Sawtimber Well	3.5	110	81-110	N/A	Stand Split from Stand 69 to include with harvest and planting of adjacent stands. potential old timber trespass and high mortality. Old Comments Ridge of better quality red and black oak than surrounding stands.																																																
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40	4131 - Aspen, Oak	Poletimber Well	127.1	35	81-110	N/A	Old comments confirmed. Rm and oak outcompeting aspen in places. White oak smaller in diameter, but areas with good crown position. Aspen well into pole class in areas.Old Comments 2015 YOE:Aspen stand with areas of nice red oak.																																																
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43	4199 - Other Mixed Upland Deciduous	Sapling Medium	38.0	10	Immature	N/A	Stand had a shelterwood harvest done in the past leaving 5-10 BA of old black and white oak. That overstory oak is now in heavy decline including the white oak. The sub canopy consists primarily of heavy cherry regeneration with some areas of maple and a few aspen and oak mixed in.																																																					
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44	4125 - Black, N. Pin Oak	Sawtimber Well	26.3	110	111-140	N/A	upper end of the BA range.																																																					
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45	4130 - Aspen	Sapling Well	11.3	27	51-80	N/A	Dense witch hazel and cherry in understory. more oak to the north.																																																					
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46	4125 - Black, N. Pin Oak	Sawtimber Well	39.6	110	51-80	N/A	Oak appears relatively healthy, however stand should still be revisited in leaf out when checking other stands in area. RM throughout understory.																																																					
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47	4199 - Other Mixed Upland Deciduous	Sapling Well	40.8	10	Immature	N/A	10 to 20 BA of mixed oak log overstory. Aspen clones with oak and cherry in between. oak density is variable Throughout but it is continuing to recruit. Expect oak to be low quality. Old Comments Scattered old oak overstory																																																					
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48	3102 - Grass	Nonstocked	4.2		Immature	Managed Opening	mature mixed oak Scattered. knapweed willow and scrubby cherry present. East of stand has understory oak, aspen and cherry recruiting																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
49	4130 - Aspen	Sapling Well	11.9	27	Immature	N/A	hybrid and pin oak throughout understory scrubby cherry as well.																																				
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50	3102 - Grass	Nonstocked	6.7			Managed Opening	Opening Managed by Wildlife Division a couple cherry present. knapweed throughout																																				
51	4131 - Aspen, Oak	Sapling Well	6.5	27	1-50	N/A	oak is stump sprout origin in the pockets it dominatesold comments 2015 YOETransitioning to A6																																				
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52	42110 - Planted Red Pine	Sapling Well	27.6	2	Immature	N/A	A handful of scattered overstory white oak. red pine appears to be in good condition and overall free to grow. 3 year monitoring to determine if release spray is needed although unlikely. Old comments: Stand had multiple oak wilt pockets forming within the stand. Was final harvested in 2017 to slow the spread. Trenched in summer 2018. Site prep sprayed in 2019 to control mostly the cherry starting to establish. Planted to red pine in Spring 2021. 2021 regen survey 844 TPA no release spray recommended.																																				
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53	4126 - White, Black, N. Pin Oak	Sawtimber Well	8.7	110	81-110	N/A	1 white pine. Hybrid and pin oak 30+% mortality.																																				
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54	4130 - Aspen	Sapling Well	26.1	27	1-50	N/A	Stand has pockets of oak, cherry. Maple regeneration. merge mature oak in southwest portion of stand into stand into mature oak to west.Old comments 2015 YOEOld notes indicate a wildfire in 1988.																																				
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56	4130 - Aspen	Sapling Well	19.3	6	Immature	N/A	pockets of recruited cherry and oak. Mature overstory white oak in NE. Hybrid oak in retention is dying. 1 super canopy wp.																																													
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57	4125 - Black, N. Pin Oak	Sawtimber Well	17.2	110	81-110	N/A	aspen is overmature and declining, might be enough to regenerate stand to aspen/maple/oak. High mortality in the Oak.																																													
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58	6239 - Mixed Emergent Wetland	Nonstocked	10.1		Immature	No	low area with perimeter tag alder, rm, and bam with scattered oak cherry and mixed aspen. A narrow strip of high ground in center.																																													
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59	3102 - Grass	Nonstocked	4.7			Managed Opening	Managed Opening by Wildlife Division. grasses, some sand willow. scattered scrubby cherry and a dozen scattered oak. Small clone of pole quaking aspen in east.																																													
60	4131 - Aspen, Oak	Sapling Well	15.7	27	1-50	N/A	more aspen in south. VP present in SW. more oak in the north. old comments: Some areas with a good oak component.																																													
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61	4310 - Pine, Oak Mix	Sapling Poor	52.1	3	1-50	N/A	<p>pockets of overstory oak mortality observed, old comments indicate historic presence of oak wilt. Cherry saplings (primarily west of canpground road) overtopping planted rp in areas. Probably should be release sprayed. some aspen clones and pockets of oak regeneration were trenched around when planted.</p> <p>old comments: Stand was shelterwood cut in October 2011. Some oak stump sprouts but they are struggling to get above deer browse height. Pockets of oak wilt were found within the stand post-harvest that was attacking the residual oak overstory. Wanted to place red pine in the stand to aid in restocking levels because of the poorer oak regenerating and because of wilt spread. Cherry appears to be heavy so the site was roller chopped fall 2018. Trenched and site prep sprayed in 2019. Aspen pockets were went around in spraying. Other pockets of oak regeneration were avoided also. Average 30 basal area of log tree sized oak still standing. Be a mixed stand slightly higher with pine stocking. Planted spring 2021.</p>																																							
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62	4125 - Black, N. Pin Oak	Sawtimber Medium	14.3	110	81-110	N/A	<p>heavy mortality throughout the hybrid and pin oak in stand. old comments 2015 YOESTand of old, low to mid quality pin/black oak stand on Gerrish-Grayling sands. There are a few aspen clones along with scattered white oak present. Stand is 100+ years old and in decline.</p>																																							
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63	6239 - Mixed Emergent Wetland	Nonstocked	1.2			No	small depressional wetland with perimeter low shrubs.																																							
64	42120 - Planted Jack Pine	Poletimber Well	4.1	28	1-50	N/A	<p>Jack pine plantation with a few rows of red pine along its perimeter. look up planting record.</p>																																							
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65	3102 - Grass	Nonstocked	1.5			4211 - Planted Red Pine	knapweed sweetfern and grasses. 10% oak seedlings 3 feet or less.																																							
66	4125 - Black, N. Pin Oak	Sawtimber Well	13.8	110	81-110	N/A	<p>high mortality of hybrid oak in stand 30+%. red maple throughout understory with a couple pockets of white and hybrid oak.</p>																																							
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68	4199 - Other Mixed Upland Deciduous	Sapling Well	13.5	10	Immature	N/A	overstory black oak largely dead, white oak is in good condition. Scattered aspen cherry and mixed oak in the dense rm understory.																																														
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69	4123 - Red Oak	Sawtimber Well	18.6	110	81-110	N/A	Stand appears to have less mortality than other oak stands nearby. potential timber trespass in stands SW. Visit in leaf out.Old CommentsRidge of better quality red and black oak than surrounding stands.																																														
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70	4130 - Aspen	Sapling Well	6.0	27	1-50	N/A	some aspen have reached small pole soze.																																														
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71	4199 - Other Mixed Upland Deciduous	Sapling Well	31.7	10	Immature	N/A	A mix of cherry, red maple, mixed oak, between aspen clones. Handful of white pine. clone of small pole aspen in the east. Old mixed oak overstory. Mixed oak recruiting in spite of heavy browse pressure.																																														
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72	4130 - Aspen	Sapling Well	0.9	27	Immature	N/A	Small stand of aspen.																																														
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73	4124 - Red with White Oak	Sawtimber Well	3.9	110	51-80	N/A	Oak in stand may be declining, return in leaf out to better asses. A handful of pole and log rp and wp. Combine with other RP planting treatments in area if oak is declining.																																														
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75	6239 - Mixed Emergent Wetland	Nonstocked	10.2			No	transition from open water to marsh grass and alder by shore.																																																			
76	4125 - Black, N. Pin Oak	Sawtimber Well	15.2	110	81-110	N/A	hybrid oak in stand has 50+% mortality.																																																			
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77	3102 - Grass	Nonstocked	1.6			No	small clump of pole aspen and npo tonorth																																																			
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80	4199 - Other Mixed Upland Deciduous	Sapling Medium	17.6	10	1-50	N/A	primarily cherry brush filling in under declining old oak overstory. Widely Scattered mixed oak and mand maple regen.Old CommentsScattered old oak overstory																																																			
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82	4131 - Aspen, Oak	Poletimber Well	77.4	35	1-50	N/A	Old comments confirmed. added white oak to canopy.Old CommentsPatches or clones of aspen with oak stump sprouts. Good mix of both aspen and oak. Some semi open areas throughout stand.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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83	4125 - Black, N. Pin Oak	Sawtimber Well	2.8	99	81-110	N/A	poor access across approx 100 feet of marsh to the south. Probably could be froze in but I'm not going to make that call. Edge survey so sizes are estimates as marsh was not froze OPIC - FMD: Mixed pin and white oak stand in poor shape due to age Stand is along the south shore of West Twin Lake. Heavy pin cherry and a few scattered white pine in understory. Hold for visuals along the lake.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		10	Log/Pole/Sap	12		Cherry (spp.)	
Red Maple		10	Log	12		White Pine	
White Oak		10	Log	13		Density	
Black/Red (Hybrid) Oak		70	Log/XLog	15	99	Avg. Height	
						Size	

84	6220 - Alder/willow	Nonstocked	22.5			No	Perimeter survey. low ground, small pocket of oak aspen and one rp in NE. S perimeter low density sapling bam and cherry with trace wp and jp. cherry wp and jp are dying. Private signs posted on state land along trail. Old Comments OPIC - FMD: Low wet area around lake filled with willow.
Sub-Canopy Species		Density	Avg. Height	Size			
Jack Pine		Low	Variable	Sapling			
Balsam Poplar		Trace	Variable	Sapling			
White Pine		Trace	Variable	Sapling			
Red Pine		Trace	>20 feet	Log			
White Oak		Trace	>20 feet	Log			
Willow spp.		High	10 - 20 feet	Sapling			
Black/Red (Hybrid) Oak		Low	>20 feet	Log			

86	4125 - Black, N. Pin Oak	Poletimber Medium	20.8	43	1-50	N/A	Successfully regenerated oak following previous harvest. older residual oak are declining or dead, may need to revisit stand after leaf out to evaluate condition. primarily stump sprout oak old comments OPIC - FMD: Oak/cherry stand. Cherry heavier than in stand 6. Cherry understory. Species code 99 is pin cherry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Jack Pine		1	Pole	8		White Pine	
White Oak		7	Pole	7		Cherry (spp.)	
Black/Red (Hybrid) Oak		60	Pole	8	43	Density	
Red Pine		2	Pole/Log	8		Avg. Height	
White Pine		10	Log/Pole/Sap	12		Size	
Choke Cherry		20	Sapling	4			

87	4125 - Black, N. Pin Oak	Poletimber Medium	10.5	43	1-50	N/A	More white pine than stand 86. Illegal orv trail in stand. pockets of cherry spp brush. white pine regen low to moderate. X log white pine in stand. old comments OPIC - FMD: Young oak stand from stump sprout origin. Som white oak and cherry mixed in as well. Cherry brush understory.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
White Pine		15	Log/Pole/Sap	15		White Pine	
Red Maple		3	Pole/Sapling	7		Cherry (spp.)	
White Oak		5	Pole/Sapling	7		Density	
Black/Red (Hybrid) Oak		55	Pole	8	43	Avg. Height	
Black Cherry		21	Sapling/Pole	4		Size	
Red Pine		1	Pole/Log	9			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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88	6225 - Bog	Nonstocked	2.5		Immature	No	blueberry or cranberry bog. tag alder willow and cattails mixed in throughout at low density. clump of handful of trees in center. rp, jp, bs.old comments OPIC - FMD: OI Stand Year Origin was				
								Sub-Canopy Species	Density	Avg. Height	Size
								Red Pine	Trace	< 5 feet	Sapling
								Black Spruce	Trace	< 5 feet	Sapling
								Jack Pine	Trace	< 5 feet	Sapling
								Tag Alder	Medium	Variable	Tall Shrub
								Willow spp.	Low	< 5 feet	Sapling
								Cattail spp.	Medium	Unspecified	Non-Wood
Blueberry/Bilberry/Cranberry	High	5 - 10 feet	Tall Shrub								

89	320 - Upland Shrub	Nonstocked	8.3		Immature	No	Stand dominated by scrubby cherry and grass. scattered open grown white pine and NPO. Evidence of illegal or use. old comments OPIC - FMD: Small grassy frost pocket				
								Sub-Canopy Species	Density	Avg. Height	Size
								White Pine	Low	Variable	Log
								Northern Pin Oak	Low	Variable	Pole
								Choke Cherry	Medium	5 - 10 feet	Sapling
Jack Pine	Low	Variable	Pole								

90	4131 - Aspen, Oak	Sapling Medium	42.8	27	1-50	N/A	Stand varies in density size and composition. BTA and QA clones with hybrid oak, white pine, and cherry species filling in. Cherry is poor quality black with pockets of choke/pin. 9 inch Aspen cored at 27 (dominant age of stand overall) and 6 inch oak cored at 25. Widely scattered overmature log aspen present, as well as trace log oak.Evidence of illegal orv use off of private to south.old commentsOPIC - FMD: Failed oak regeneration harvest. Very little oak regeneration found. Some scattered aspen clones. Most of the entire stand is thick to pin cherry brush.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	15	Sapling/Pole	4	
								Black/Red (Hybrid) Oak	10	Sapling/Pole	4	25
								Northern Pin Oak	10	Sapling/Pole	4	
								Choke Cherry	15	Sapling	3	
								Bigtooth Aspen	25	Pole/Sapling	6	27
								Quaking Aspen	15	Sapling/Pole	4	
White Pine	10	Pole/Sap/Log	8									

91	4125 - Black, N. Pin Oak	Poletimber Medium	39.5	43	1-50	N/A	Primarily mixed oak and maple of stump sprout origin. low end of BA range. Except for BTA clones primarily in the south of stand. RM stump sprouts increase in density to South and far east. scattered dominant wp as well as pockets of high density wp seedlings. scattered individual overmature aspen. no trespassing signs potentially posted on state land in North of stand along Twin Lakes Rd. Survey needed to verify boundary as no corner was found. Evidence of illegal or use off of twin lakes road. old comments OPIC - FMD: Mixed oak/cherry stand with some aspen clones. Pin cherry understory. Stand just reaching pole timber size.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	13	Sapling/Pole	4	
								White Pine	2	Log	12	
								Bigtooth Aspen	15	Log/Pole	12	
								Black/Red (Hybrid) Oak	35	Pole/Log/Sap	8	43
								Northern Pin Oak	20	Pole/Sap/Log	8	
								Red Maple	10	Pole/Sapling	5	
White Oak	5	Pole	6									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
92	4125 - Black, N. Pin Oak	Sawtimber Medium	24.8	99	1-50	N/A	hybrid oak stand with variable mortality throughout. Retain due to adjacency to east twin lake, and small stand size after excluding rmz buffer.old OI commentsOPIC - FMD: Old , poor quality oak stand along the shore of East twin and Grass Lake. Stand is seeing heavy mortality. Some white pine scattered about. Mostly pin cherry understory. Hold for visuals along the lake shore.																																																	
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93	4131 - Aspen, Oak	Poletimber Medium	36.8	32	1-50	N/A	Mixed oak and aspen at large sapling to intermediate pole size. Canopy closure reduces in the north and west. Probably could be split into 2 stands in the future and treat aspen before oak. Witch hazel density varies from low to full in places where oak or aspen did not regenerate as well. White oak is out competed by hybrid in most places.old comments:OPIC - FMD: Some areas of aspen clones approaching pole timber size. Some areas of good oak regeneration as well.																																																	
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94	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	31.0	21	1-50	N/A	Mixed stand of aspen oak and jack pine, with low density white pine and white oak, scattered rp. Aspen overtopping oak in the West. less aspen in east.old comments:OPIC - FMD: OI Stand Year Origin was 2002																																																	
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95	4131 - Aspen, Oak	Sapling Well	13.8	32	Immature	N/A	aspen is outcompeteing oak in most of stand. High density red and white oak still present under aspen clones.. old OI commentsOPIC - FMD: OI Stand Year Origin was 1991																																																	
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96	4131 - Aspen, Oak	Sapling Well	15.2	25	Immature	N/A	Mixed oak and aspen stand. similar to stand 94 to W. Dense hybrid and white oak still present under the aspen clones.old OI CommentsOPIC - FMD: Was part of 17 that was burnt in a wildfire in 1998. Aspen resprouted and is doing well.																																																	
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97	622 - Lowland Shrub	Nonstocked	3.3			No	wet area, alder and willow with grasses. clump of old hybrid oak in middle. handfull perimeter dead JP. old commentsOPIC - FMD: Low wet area around lake filled with willow.																																																	
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98	4199 - Other Mixed Upland Deciduous	Sapling Well	10.0	21	Immature	N/A	Oak has filled in with some aspen and jack pine. OLD comments OPIC - FMD: Partially failed oak regeneration harvest. Some scattered aspen clones. Some limited areas of oak regen that is struggling due to frost and deer browse. Many areas the oak didn't even stump sprout after harvesting. Large areas of cherry brush. Trench and plant red pine in areas where oak and aspen have failed to regenerate. Avoid areas of existing oak regeneration.																																																						
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99	310 - Herbaceous Openland	Nonstocked	2.8			No	old co,ments confirmed, handfull od hybrid and white oak seeding in. Old OI comments OPIC - FMD: Small grassy frost pocket. Some little blue stem present.																																																						
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100	42220 - Natural Jack Pine	Poletimber Well	5.7	35	1-50	N/A	Old OI comments indicate stand is wildfire in origin. jack pine is limby and exhibits open grown characteristics. some oak and aspen in the north of stand. old comments OPIC - FMD: Small stand of natural jack pine created from a wildfire.																																																						
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101	4121 - Oak, Aspen	Poletimber Medium	31.4	43	51-80	N/A	Super Canopy Rp and WP. Density variable, some openings. oak and aspen vary in canopy closure. Cherry is shrub or poor form. Old Comments OPIC - FMD: Variable stand of aspen, oak and pine. Some super canopy red pine. Good oak understory.																																																						
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Cherry (spp.)	Low	Variable	Sapling																																																										
Witch Hazel	Low	5 - 10 feet	Tall Shrub																																																										
102	310 - Herbaceous Openland	Nonstocked	1.7		Immature	No	old comments confirmed. a handfull of mature hybrid oak, Jack pine, white pine, and red pine Old Comments OPIC - FMD: Small frost pocket with a few oak and pine.																																																						
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103	42200 - Natural White Pine	Sawtimber Well	2.5	53	81-110	N/A	Small pocket of small log white pine, RP, and perimeter BTA. old OI Comments OPIC - FMD: Small pocket of white pine pole timber. Big tooth aspen scattered throughout. Some red pine mixed in.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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104	4130 - Aspen	Sawtimber Well	18.2	43	81-110	N/A	stand of decent aspen with some oak and scattered pine. Upper end of pole smaller end of log aspen. OPIC - FMD: OI Stand Year Origin was 1980
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	75	Log/Pole	10	43
Black/Red (Hybrid) Oak	10	Pole/Log	8	
White Oak	3	Pole	7	
Red Maple	5	Pole	6	
White Pine	5	Log/Pole	12	
Red Pine	2	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	Low	Variable	Sapling

105	4126 - White, Black, N. Pin Oak	Sawtimber Well	67.5	99	111-140	N/A	Age carried forward from previous inventory however stand is estimated older. 2 Co dominant oak cored, but hearts too deteriorated to count beyond 75-80. White oak picks up in stands East and understory rm declines. Widely scattered overmature BTA, RP and Wp. BA is variable but averages at the low end of the range. Two vernal pools in NE of stand with drainages out of each going SE. Protect drainages and sensitive soils with retention. handful of cedar and tag alder present on perimeter of VPs and along drainages.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	4	
Black/Red (Hybrid) Oak	65	Log/XLog	15	99
White Oak	20	Log/Pole/XLog	12	
Red Pine	5	Log/XLog	16	
White Pine	2	Log	14	
Bigtooth Aspen	3	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	Low	Variable	Sapling
White Oak	Low	Variable	Sapling
Red Maple	Medium	Variable	Sapling

old OI comments
OPIC - FMD: Fair quality red oak stand in rolling hills. Heavy red maple understory from prior thinning(1980). Hold for mast production within area.

106	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	108.6	13	Immature	N/A	the planted red pine is free to grow in areas but has overall been overtaken by hardwood competition. Canopy closure is widely variable. Small pockets are dominated by planted red pine with aspen clones or mixed oak and pine (rp, jp, wp). Grassy openings within stand were planted through Old Comments:Trenched and planted to red pine in 2010-KNFOPIC - FMD: Partially failed oak regeneration harvest. Some scattered aspen clones. Some limited areas of oak regen that is struggling due to frost and deer browse. Many areas the oak didn't even stump sprout after harvesting. Large areas of cherry brush. Trench and plant red pine in areas where oak and aspen have failed to regenerate. Avoid areas of existing oak regeneration. This stand has been updated from a field evaluation for a project on free to grow red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	15	Sapling	3	
Red Pine	15	Sapling	3	
White Pine	5	Sapling	3	
Black Cherry	5	Sapling	2	13
Black/Red (Hybrid) Oak	20	Sapling	2	13
White Oak	10	Sapling	2	
Bigtooth Aspen	20	Sapling	2	13

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Low	< 5 feet	Sapling
Red Oak	Medium	< 5 feet	Sapling

107	42200 - Natural White Pine	Sawtimber Medium	8.9	43	51-80	N/A	old OI comments confirmed. Oak regen is mostly white oak with a few hybrid oak as well. Old OI comments:OPIC - FMD: Small white pine stand. Whitey pine to the east is more open grown and wolfy. More oak regeneration found in open areas.
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Canopy Species	% Cover	Size Class	DBH	Age
White Oak	10	Pole/Log	9	
White Pine	90	Log/Pole	12	43



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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112	4130 - Aspen	Poletimber Well	20.8	32	1-50	N/A	SW of stand borders vernal pool and drainage. old comments:OPIC - FMD: Stand should be approaching pole timber size by next entry.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Pole	5	
Bigtooth Aspen	93	Pole/Sapling	5	32
Black/Red (Hybrid) Oak	5	Sapling/Pole	3	
White Pine	1	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Cherry (spp.)	Medium	Variable	Sapling

113	4125 - Black, N. Pin Oak	Poletimber Medium	22.0	43	1-50	N/A	more aspen an white pine in east. hybrid/pin oak of poor quality. lower end of canopy closure range.OPIC - FMD: Mix of oak, jack pine and a few aspen. Oak is just reaching pole timber size.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2	Log	15	
Jack Pine	20	Pole	6	
Northern Pin Oak	31	Pole/Sapling	7	43
Black/Red (Hybrid) Oak	30	Sapling/Pole	4	
Red Maple	5	Sapling/Pole	4	
White Oak	10	Sapling/Pole	4	
White Pine	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub

114	4130 - Aspen	Poletimber Well	17.0	43	81-110	N/A	almost pure aspen to the west. scattered small log oak and RM stump sprouts. more rm and wp in east.old commentsOPIC - FMD: OI Stand Year Origin was 1980
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	6	
Bigtooth Aspen	80	Pole	7	43
Black/Red (Hybrid) Oak	5	Log/Pole	11	
White Pine	5	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Cherry (spp.)	Low	Variable	Sapling
White Oak	Low	Variable	Sapling
Witch Hazel	Medium	5 - 10 feet	Tall Shrub

115	4130 - Aspen	Sapling Well	34.6	21	Immature	N/A	aspen clones with dense RM subcanopy. RM, cherry, hybrid and white oak filling in between aspen clones. Aspen approaching pole class. Less aspen in NE. a couple supercanopy oak and white pine. Old Comments OPIC - FMD: Some areas of pin cherry, oak and maple
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	10	Sapling	3	
Red Maple	20	Sapling/Pole	3	
Black/Red (Hybrid) Oak	10	Sapling	3	
Bigtooth Aspen	60	Sapling/Pole	4	21

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
White Pine	Trace	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 42221 - Natural Jack Pine, Mixed Deciduous Poletimber Well 12.8 43 51-80 N/A pole jack pine stand with hybrid and white oak. Some RM and cherry and aspenOld CommentsOPIC - FMD: Young natural jack pine stand with some oak stump sprouts mixed in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Pole/Sapling	6		White Oak	Low	Variable	Sapling
Jack Pine	65	Pole	7	43	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black Cherry	5	Sapling/Pole	4		Cherry (spp.)	Low	Variable	Sapling
White Oak	10	Pole/Sapling	5					
Red Maple	5	Pole/Sapling	5					

117 4310 - Pine, Oak Mix Sapling Medium 71.8 31 1-50 N/A Some small depressional frost pocket openings in stand. pockets of jack pine with aspen clones or mixed oak and cherry in between. canopy closure variableOld OI commentsOPIC - FMD: Mix of jack pine, oak, aspen and some pin cherry.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	40	Pole/Sapling	5	31
Bigtooth Aspen	15	Pole/Sapling	6	
Pin Cherry	10	Sapling/Pole	2	
White Pine	1	Pole/Sap/Log	8	31
Black/Red (Hybrid) Oak	20	Sapling/Pole	4	
White Oak	14	Sapling/Pole	3	

118 4125 - Black, N. Pin Oak Sawtimber Poor 14.1 96 1-50 N/A Look up cutting record to determine second stand age. Overstory oak has some evident mortality, a return visit in leaf out should be made to evaluate further. understory is well stocked with hybrid and pin oak (some white oak), pockets of cherry and aspen regen throughout. scattered supercanopy wp and wp regen. pocket of pole jp in stands south finger.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	15	Log	12		Serviceberry (Juneberry)	Low	Variable	Sapling
Black/Red (Hybrid) Oak	75	Log	14	96	Willow spp.	Low	< 5 feet	Sapling
Jack Pine	5	Pole	6		Aspen (spp.)	Low	Variable	Sapling
White Pine	5	Log	15		Black/Red (Hybrid) Oak	High	Variable	Sapling
					Cherry (spp.)	Medium	Variable	Sapling
					White Pine	Low	Variable	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub
					White Oak	Low	Variable	Sapling

119 310 - Herbaceous Openland Nonstocked 0.7 Immature No small openings. jack pine oak and white pine seeding inold OI commentsOPIC - FMD: Small grassy frost pocket

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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120 4131 - Aspen, Oak Poletimber Well 18.1 31 1-50 N/A

more oak and jack pine in northhold OI comments confirmed OPIC - FMD: Big tooth aspenn stand mixed with a few oak and jack pine. Some younger oak and pin cherry in understory.

Canopy Species	% Cover	Size Class	DBH	Age
Pin Cherry	7	Sapling/Pole	3	
Black/Red (Hybrid) Oak	15	Pole/Sapling	5	
Bigtooth Aspen	60	Pole/Sapling	5	31
White Oak	15	Sapling/Pole	3	
Jack Pine	3	Pole/Sapling	6	