



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72293

Entry Year 2024

Acreage: 4,657

County Crawford

Management Area: AuSable Outwash

Stand Examiner: Joan Charlebois

Legal Description:

T25N R01W Sections 6, 7, 18

T25N R02W Sections 13, 14, 22, 23, 27

T26N R01W Sections 17, 18, 19, 20, 29, 31, 32

Identified Planning Goals:

To maintain riparian & forest health, productivity, sustainability, species diversification, and structural diversity throughout the Mason Tract Special Management Area while meeting guidelines outlined in the management plan.

Soil and topography:

The compartment is underlain by more than a dozen different soil series, but the most common upland types are Grayling and Graycalm sands, and on the lowlands, Tawas-Leafriver and Tawas-Lupton mucks. Terrain varies from level to very steep.

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

George Mason's gift of 1500 acres to the State of Michigan in 1955 was the nucleus of this compartment, known locally as the Mason Tract. The Mason Tract has been expanded over the years through Federal government exchanges and private property acquisitions. A plan was developed to guide management of the original Mason grant lands (George Mason River Retreat, 1994). The compartment borders state, federal and private lands. There are two blocks of private inholdings. Adjacent land use includes a mix of year-round and seasonal residences.

Unique Natural Features:

The Mason Tract is a non-dedicated Natural Area. The South Branch of the AuSable, Thayer Creek, and Douglas Creek are part of a designated Natural River system High Conservation Value Area (HCVA). The compartment contains Ecological Reference Areas (ERAs) representing four natural communities: Dry-Mesic Northern Forest (two examples), Pine Barrens, Bog, and Rich Conifer Swamp. There is the potential for rare plants and animals to occur along the riparian corridors, in the swamps, and in upland non-forested areas.

Archeological, Historical, and Cultural Features:

The compartment has several documented features, some of which have been developed into locally-named fishing access sites such as Durant's Castle, Downey's, Dogtown, and Truettner's. The land gifted by Mr. Mason, and other lands purchased subsequently, had been developed for seasonal recreation when still in private ownership. Some of the lodges were quite large, serviced by small airplane runways.

Special Management Designations or Considerations:

Management of the compartment is guided by four levels of planning that have varying degrees of overlap: the AuSable Outwash Management Area Plan, the George Mason River Retreat plan, the AuSable's Natural Rivers Plan, and forthcoming ERA plans.

Watershed and Fisheries Considerations:

The South Branch of the AuSable is a high quality trout stream. Thayer, Douglas, Hickey, and Sauger Creeks, as well as several small unnamed streams, feed into the South Branch. The compartment's only ponds are beaver-created. In keeping with George Mason's intent, a key value associated with the Mason Tract is its high quality trout habitat and blue ribbon fishing opportunities.

Wildlife Habitat Considerations:

The compartment's wide range of cover types – ranging from pine, aspen, oak, and upland shrub, to conifer swamp, lowland shrub and marsh -- provide habitat for a variety of game and non-game wildlife species.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial metallic mineral production in this part of the state. The nearest known active sand/gravel pit is less than three miles to the southwest. Potential for sand & gravel development within the compartment

would be limited to upland margins away from the river. Furthermore, most of the parcels could not be leased for surface development. The Hickey Creek oil & gas field is just south of the compartment. Only a couple wells are still producing and are in secondary recovery. There has been no well permitting activity in the area in the last 10 years, and potential for oil & gas development in the compartment is considered low at this time. Some parcels in the compartment are classified as Non-Leasable. 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:

State highway M-72 bisects the north part of the compartment. County road access is provided by Old M-72, Canoe Harbor Road, South Branch Road, Durant Castle Road, Mason Tract Trail, Chase Bridge Road and Hickey Creek Road. The compartment's southeast is accessed by way of Forest Service Roads: FS 3063, FS 4208, FS 4209, and FS 4210. The county and state forest roads within the compartment remain closed to ORVs.

Survey Needs:

Three corners defining the USFS parcel in the N1/2 of section 29 were not found during boundary verification. The USFS has been working on a boundary delineation project in the area which may extend to this parcel.

Recreational Facilities and Opportunities:

The South Branch of the AuSable River is a blue ribbon trout fishing destination. The river is also popular for canoeing and kayaking. The Mason Tract offers multiple opportunities for dispersed recreation such as hunting, hiking, birdwatching, and picnicking. The Mason Chapel is a picturesque destination on the river. The Mason Tract Pathway is open to hiking and cross-country skiing. A Director's Order prohibits bicycle use on the pathway. The Shore-to-Shore Riding and Hiking Trail crosses through north of M-72. Camping is only allowed in the Canoe Harbor State Forest Campground. There are developed Boating Access Sites at Smith Bridge and Chase Bridge. Several small parking areas provide jumping off points for walk-in access to the river for anglers and other river recreationists.

Fire Protection:

County roads and forest roads provide good access to the compartment's uplands northwest of the river. Access southeast of the river is limited by swamps, streams, beaver flooding, steep hills, and private property.

Additional Compartment Information:

The following reports from the Inventory are attached:

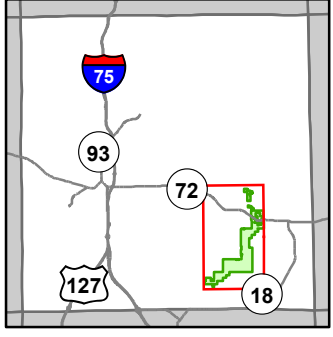
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

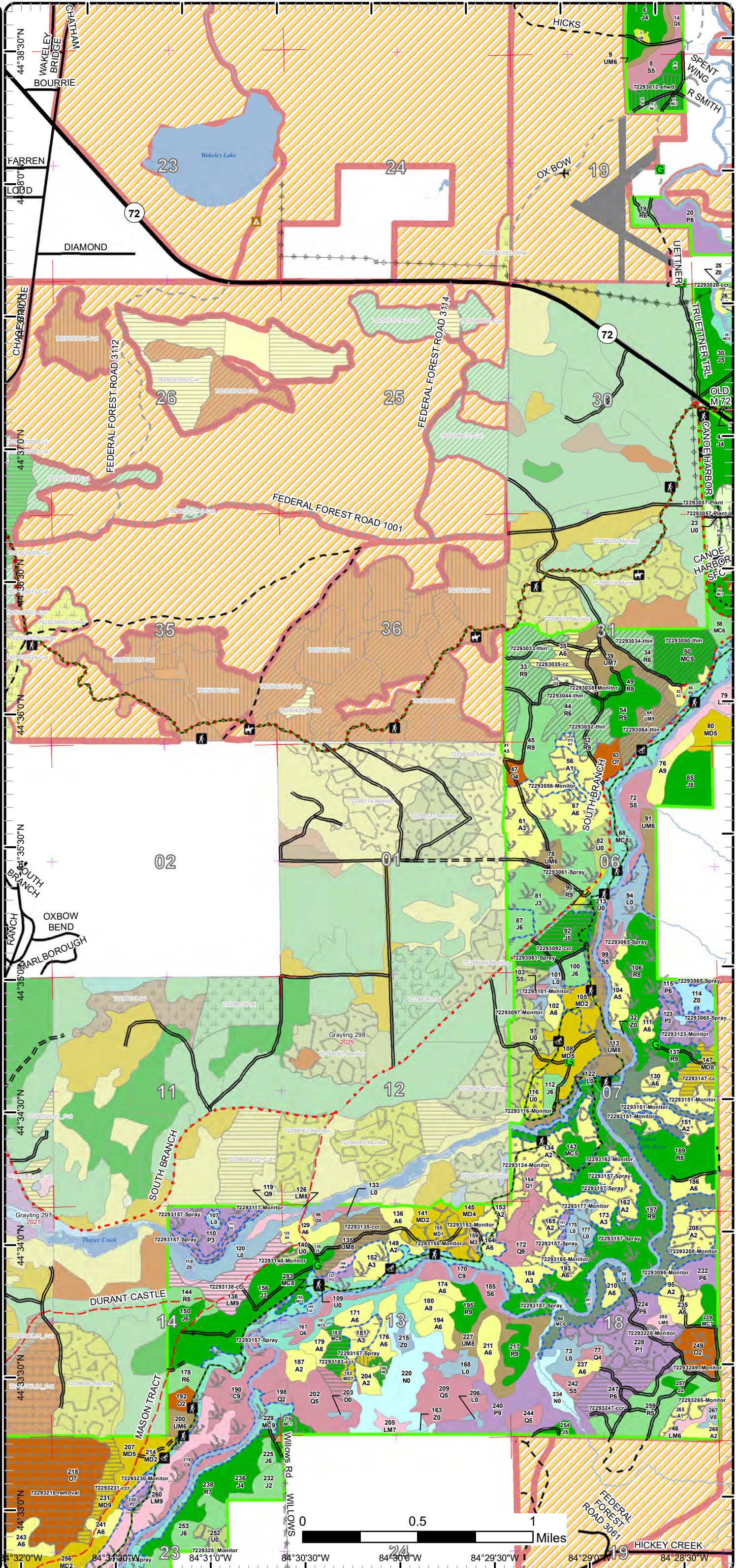
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 293
 T26N, R01W, Sec. 17-20, 29, 31-32
 T25N, R01W, Sec. 6-7, 18
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 Examiner: Joan Charlebois
 Map Revised: 12/27/2022
 Map Phase: Post-Review

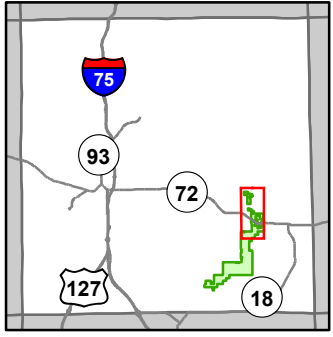


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- DNR - Forest Access Route
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- Federal / State - Dirt / Gravel Road
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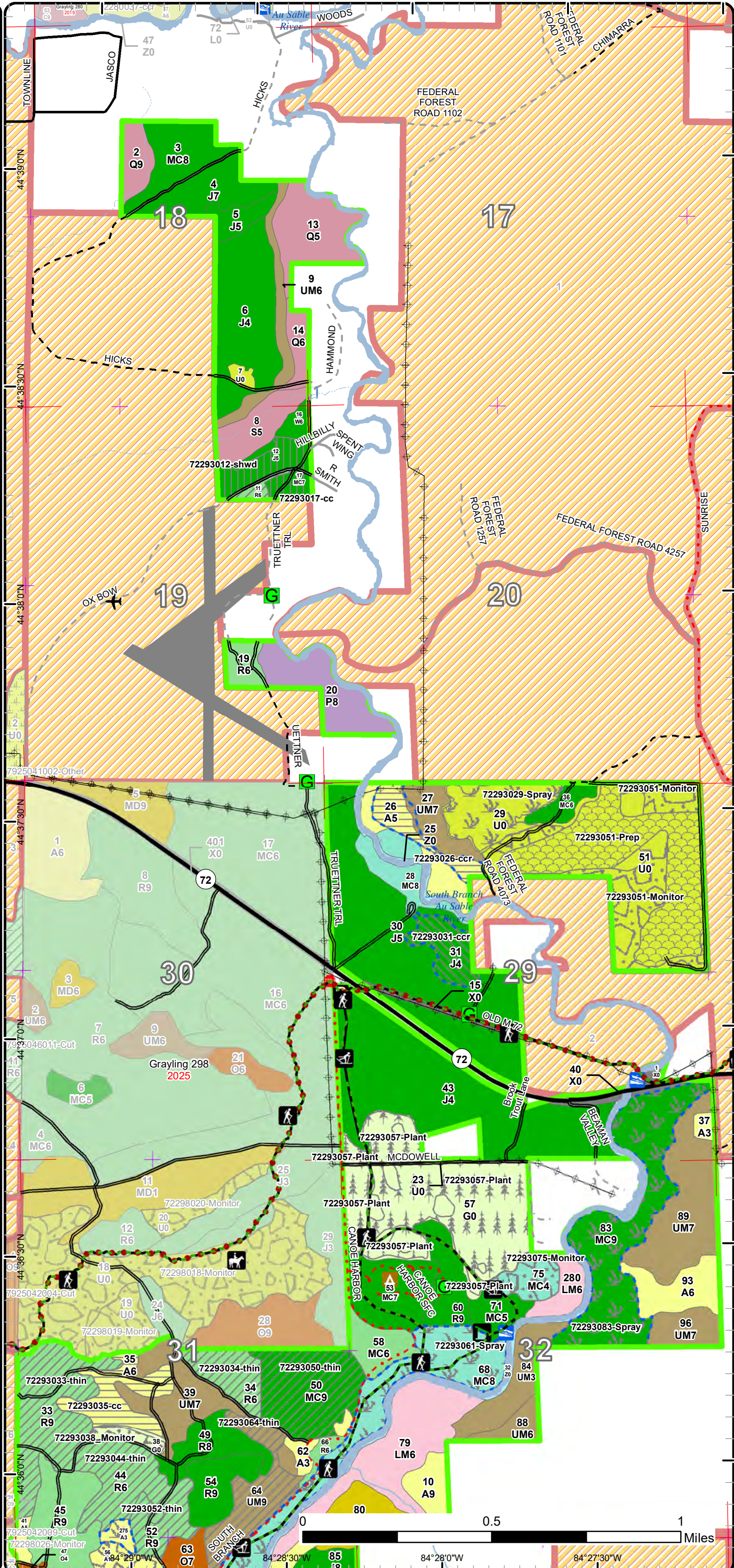


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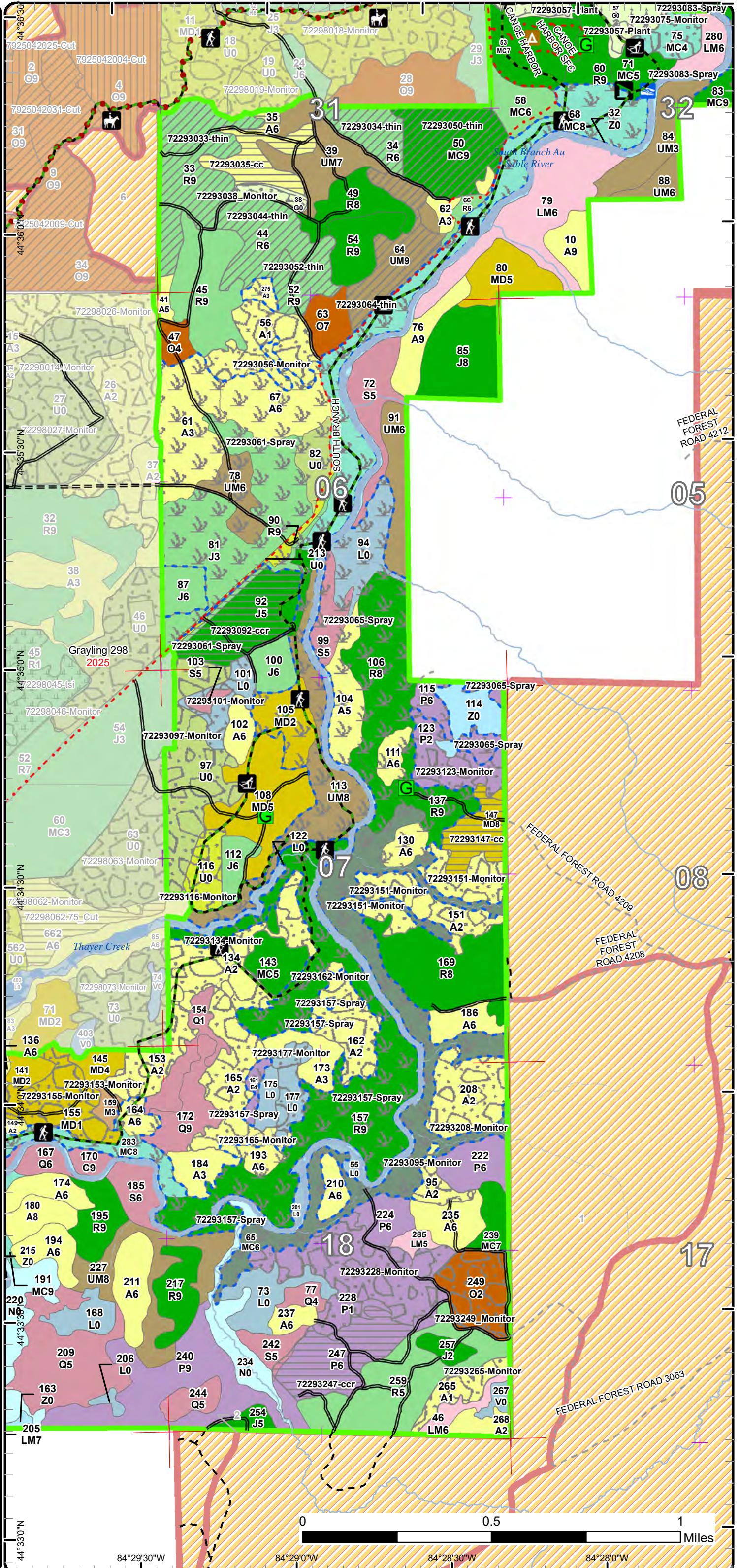
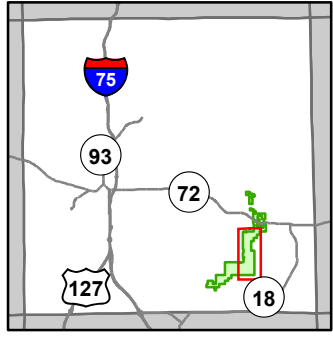


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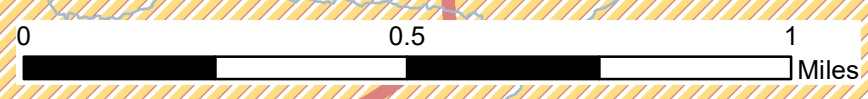


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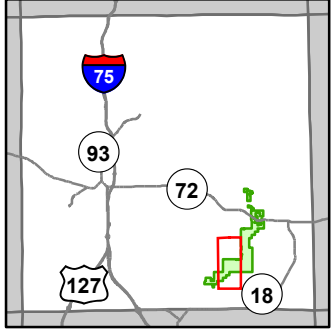
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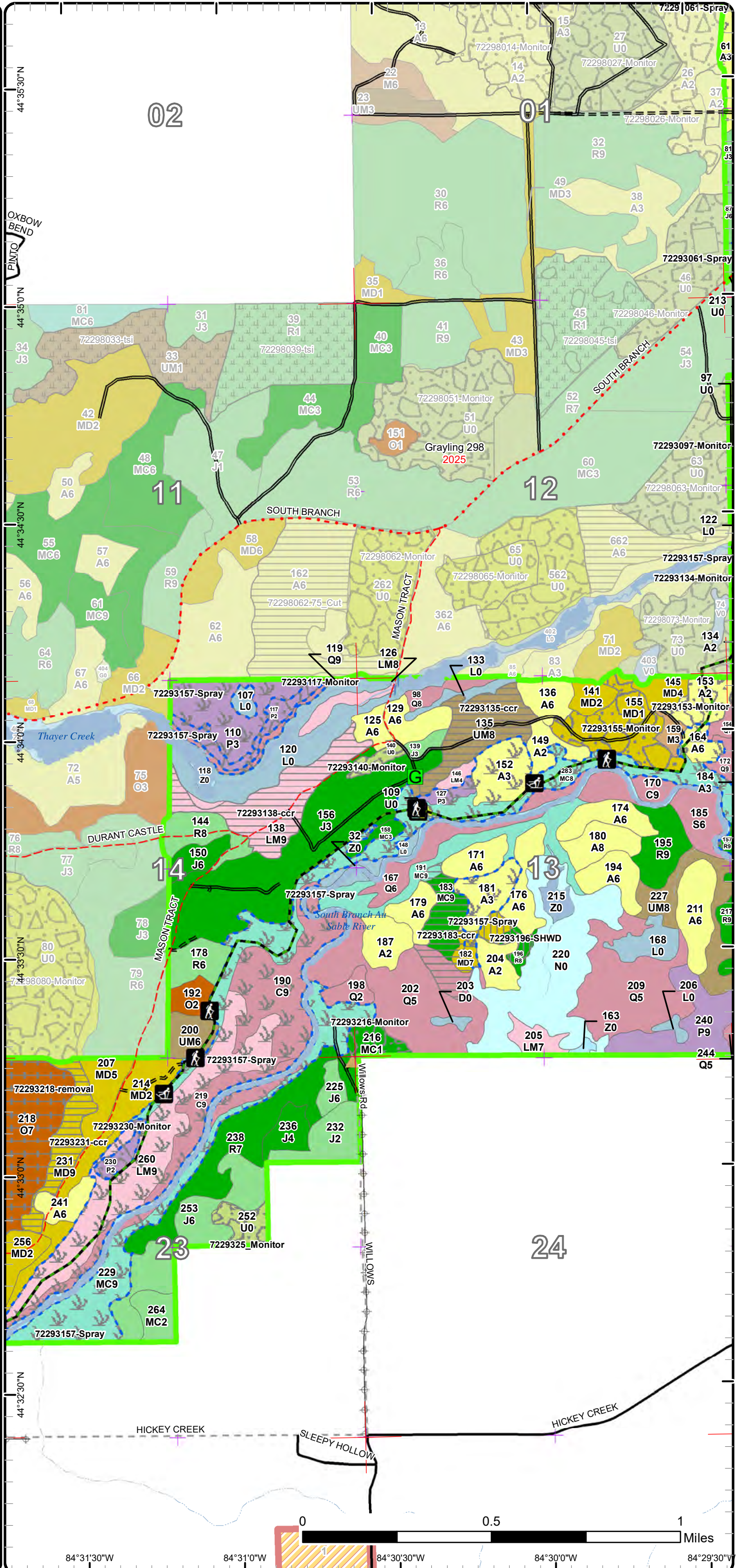
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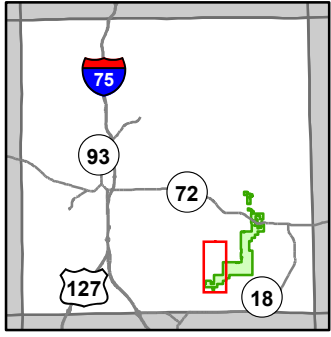


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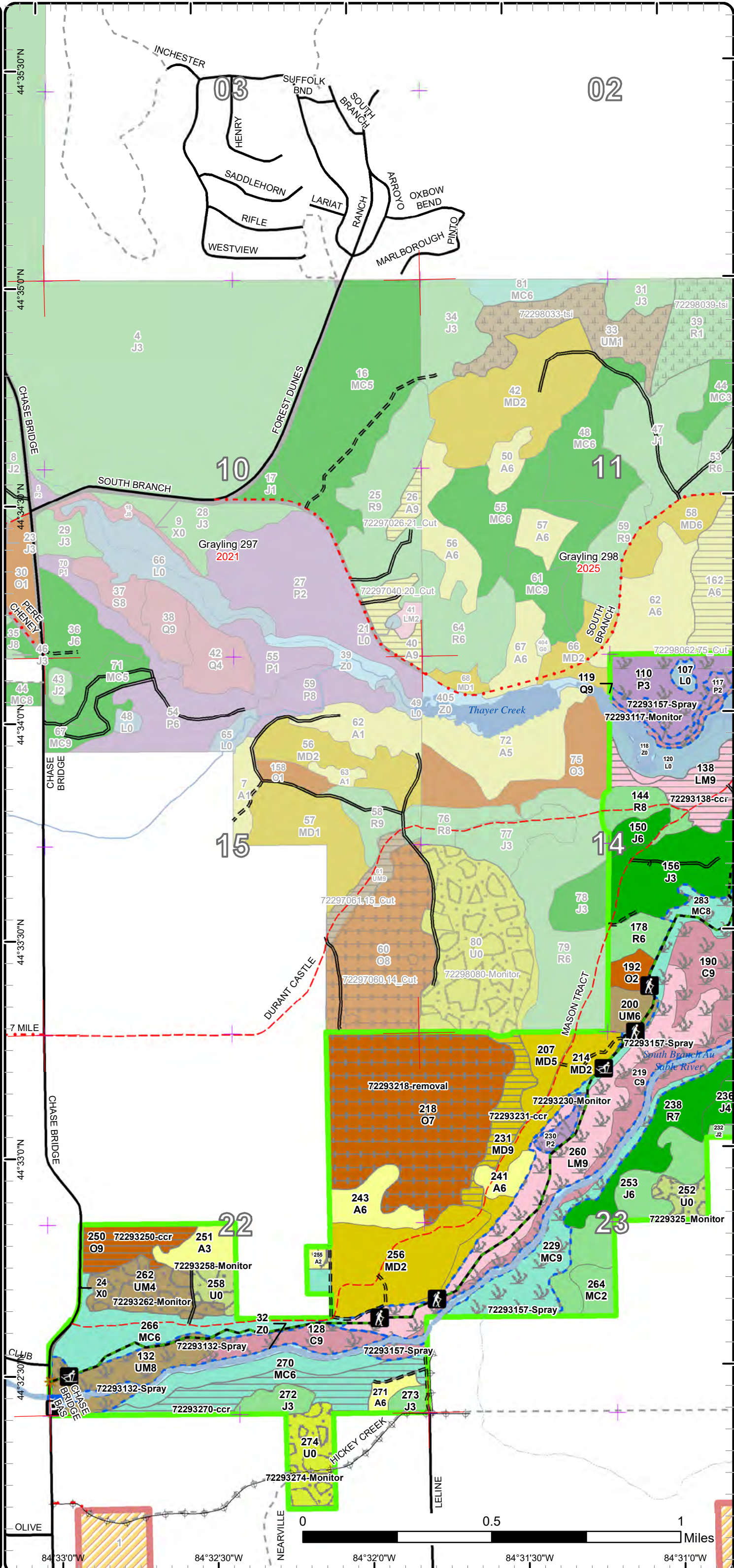


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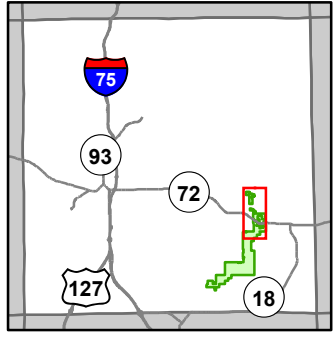


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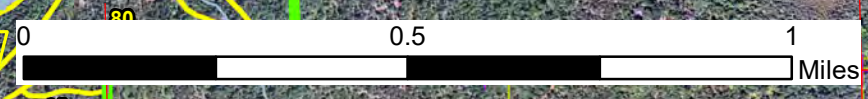
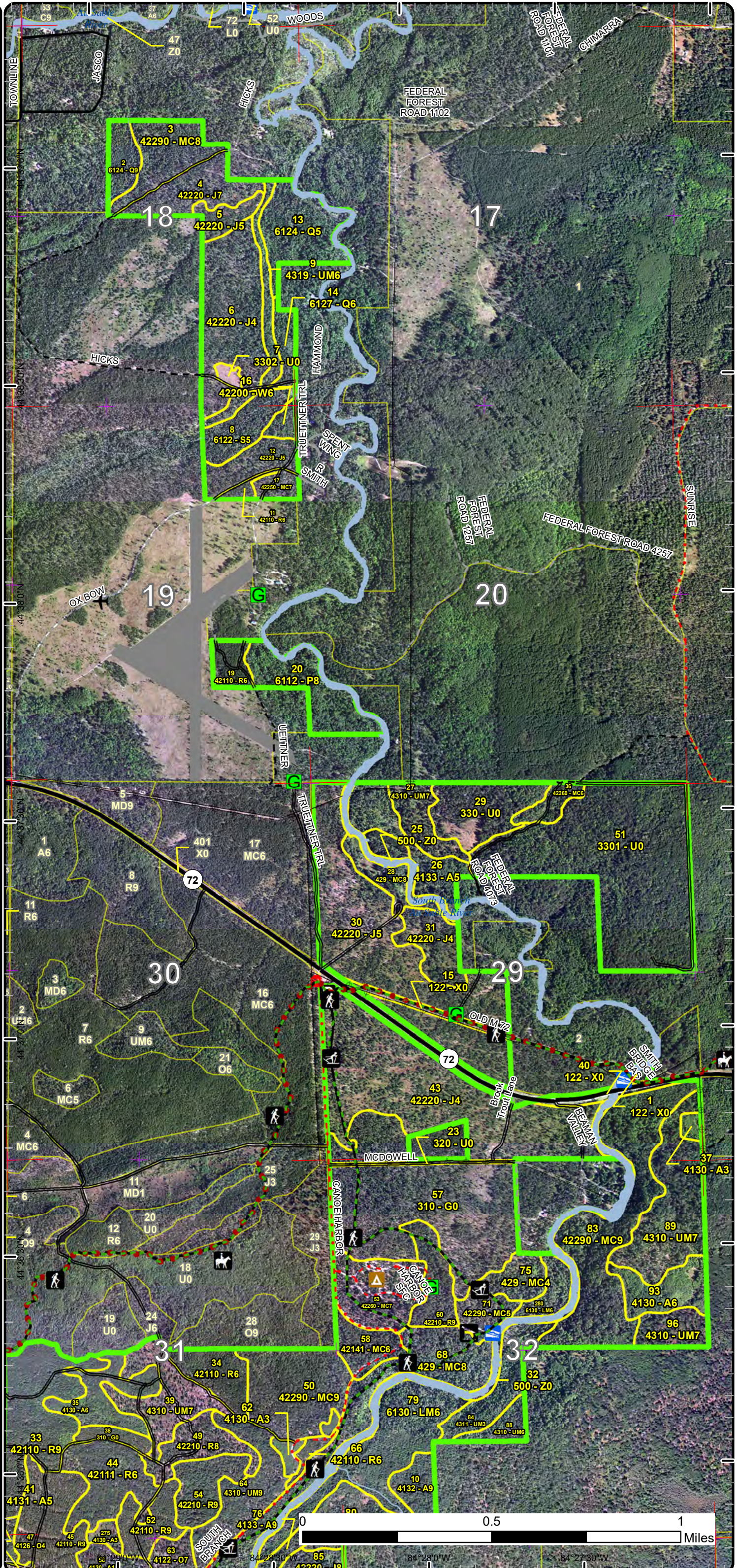


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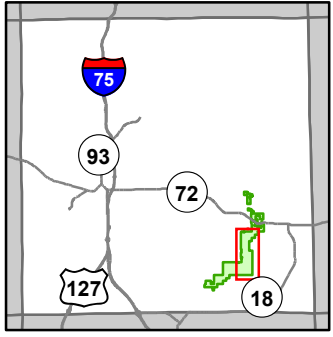
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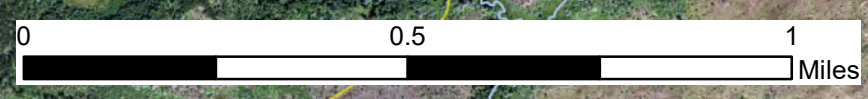
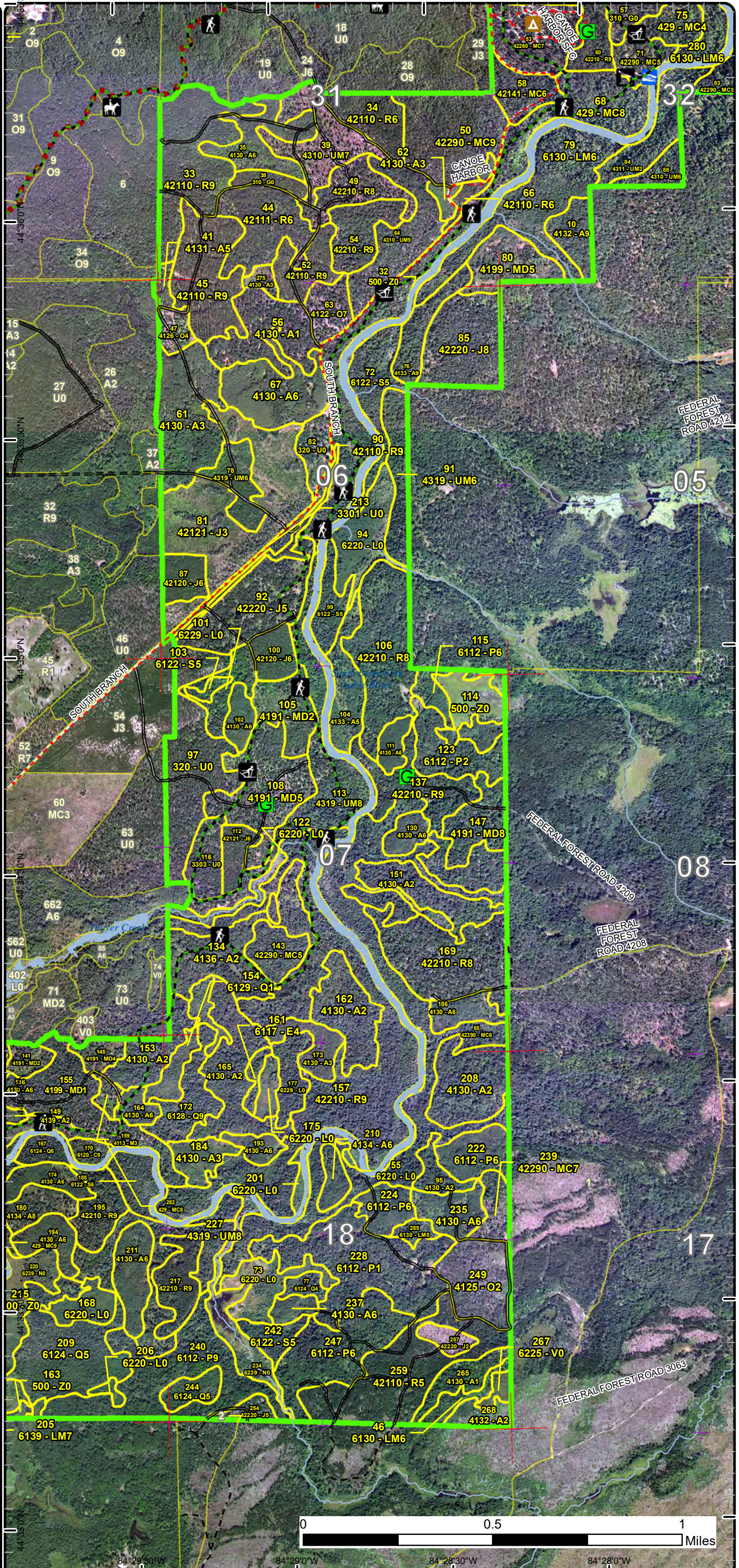
84°28'0"W 84°27'30"W

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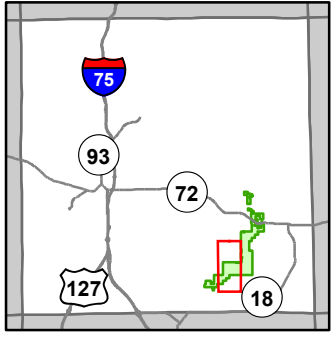
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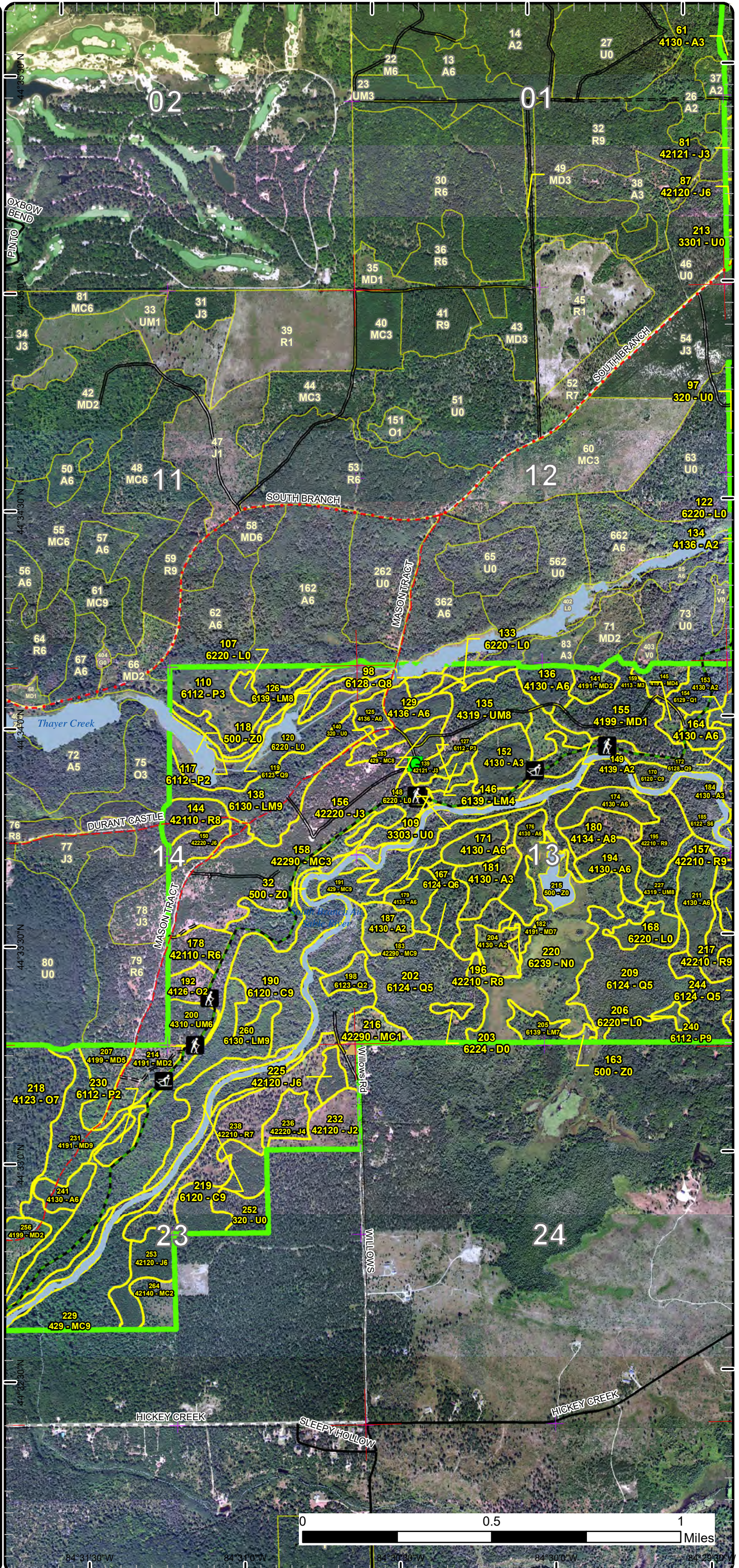
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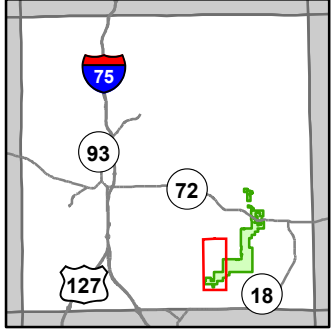


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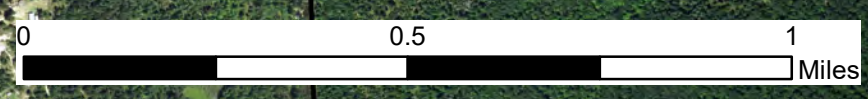
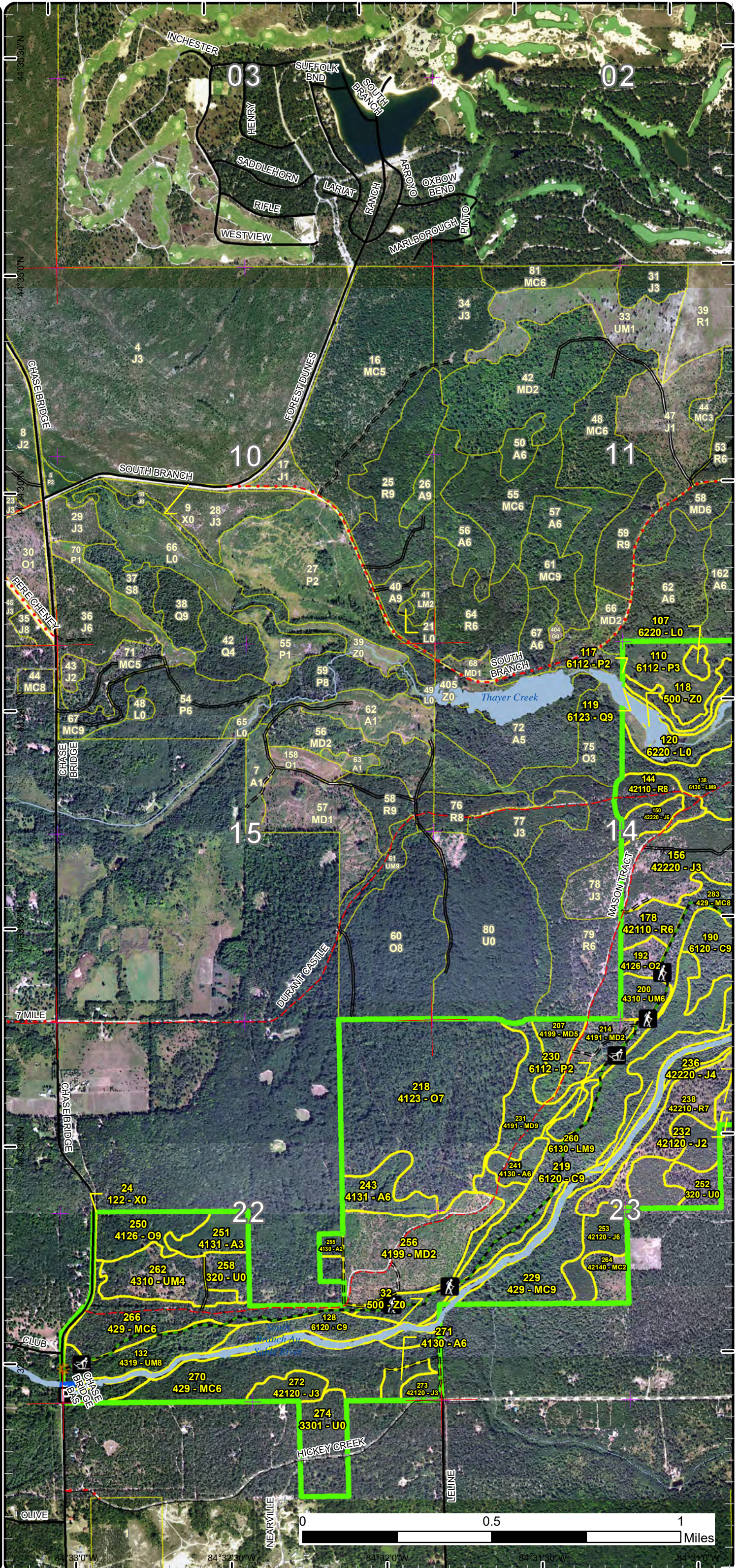


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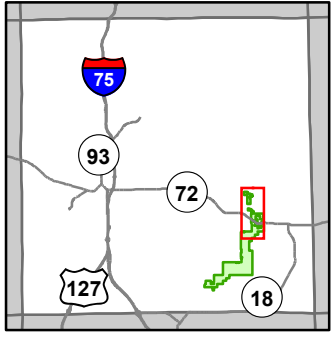
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Hiking Trails
- Ski Trails
- Designated Hiking Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Boating Access Site
- Parking Lot
- Trailhead
- Powerline
- Compartment Boundary
- Stand Boundaries
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



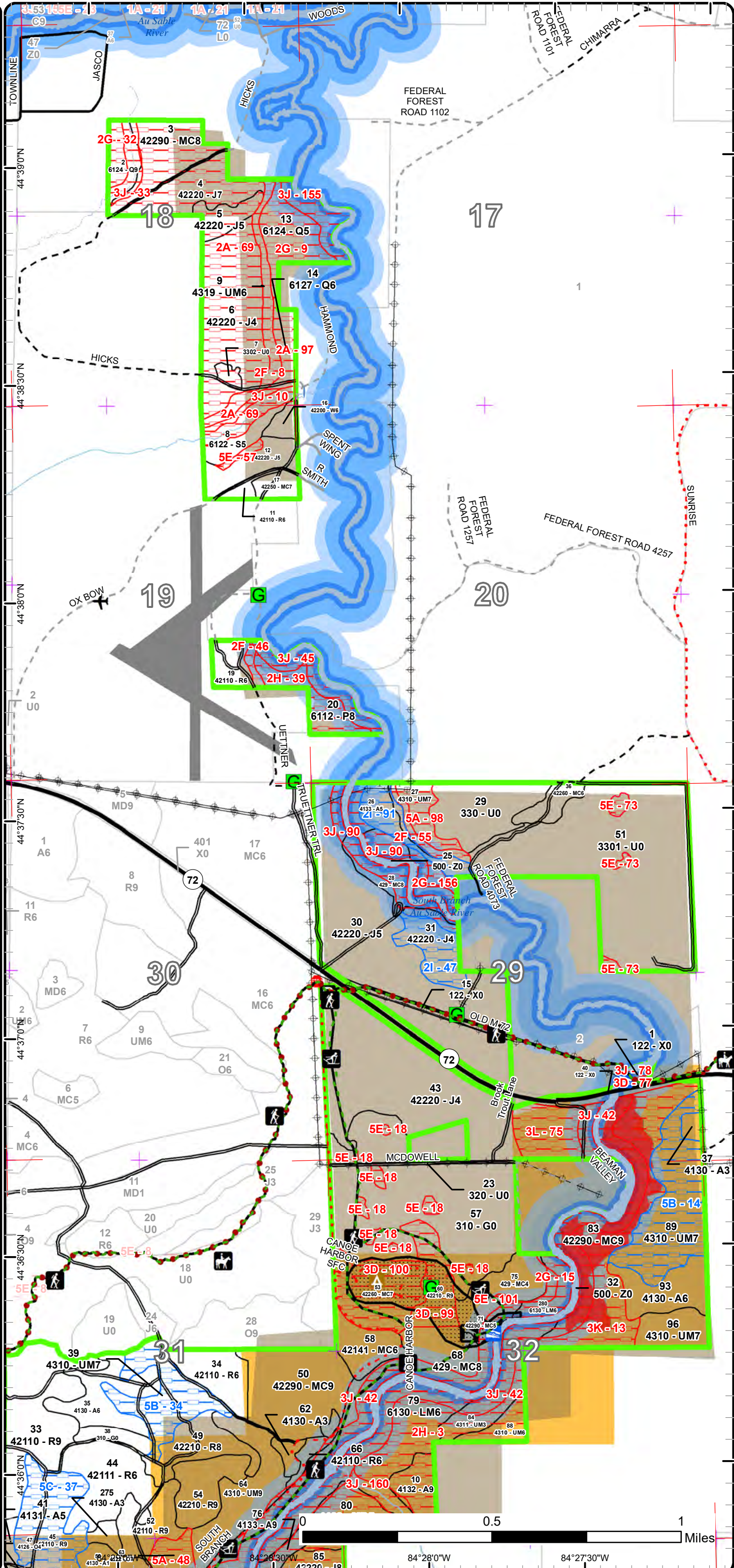
84°33'0"W
84°32'30"W
84°32'0"W
84°31'30"W
84°31'0"W

Special Conservation Areas

Compartment: 293
 T26N, R01W, Sec. 17-20, 29, 31-32
 T25N, R01W, Sec. 6-7, 18
 T25N, R02W, Sec. 13, 14, 18-19, 22, 23, 27
 County: Crawford
 Unit: Grayling
 Mgmt Area: AuSable Outwash
 YOE: 2024
 Acres: 4657 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 12/27/2022
 Map Phase: Post-Review

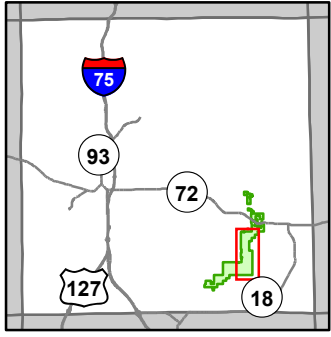


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- Designated Hiking Trails
- Designated Equestrian Trails
- Designated Ski Trails
- Designated Multi-Use Trails
- Intermittent Stream
- Island in Lake or River
- Perennial River
- Lakes and Rivers
- Toilet
- Airport
- G Gate
- Boating Access Site
- Culvert
- Campground
- Parking Lot
- Sign
- Trailhead
- Powerline
- Airports
- 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
- 2A: Adjacent landowner denied access
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 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)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA

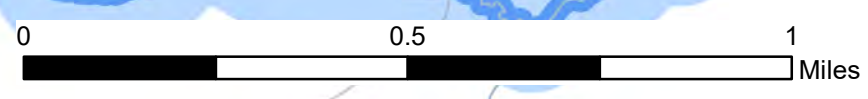
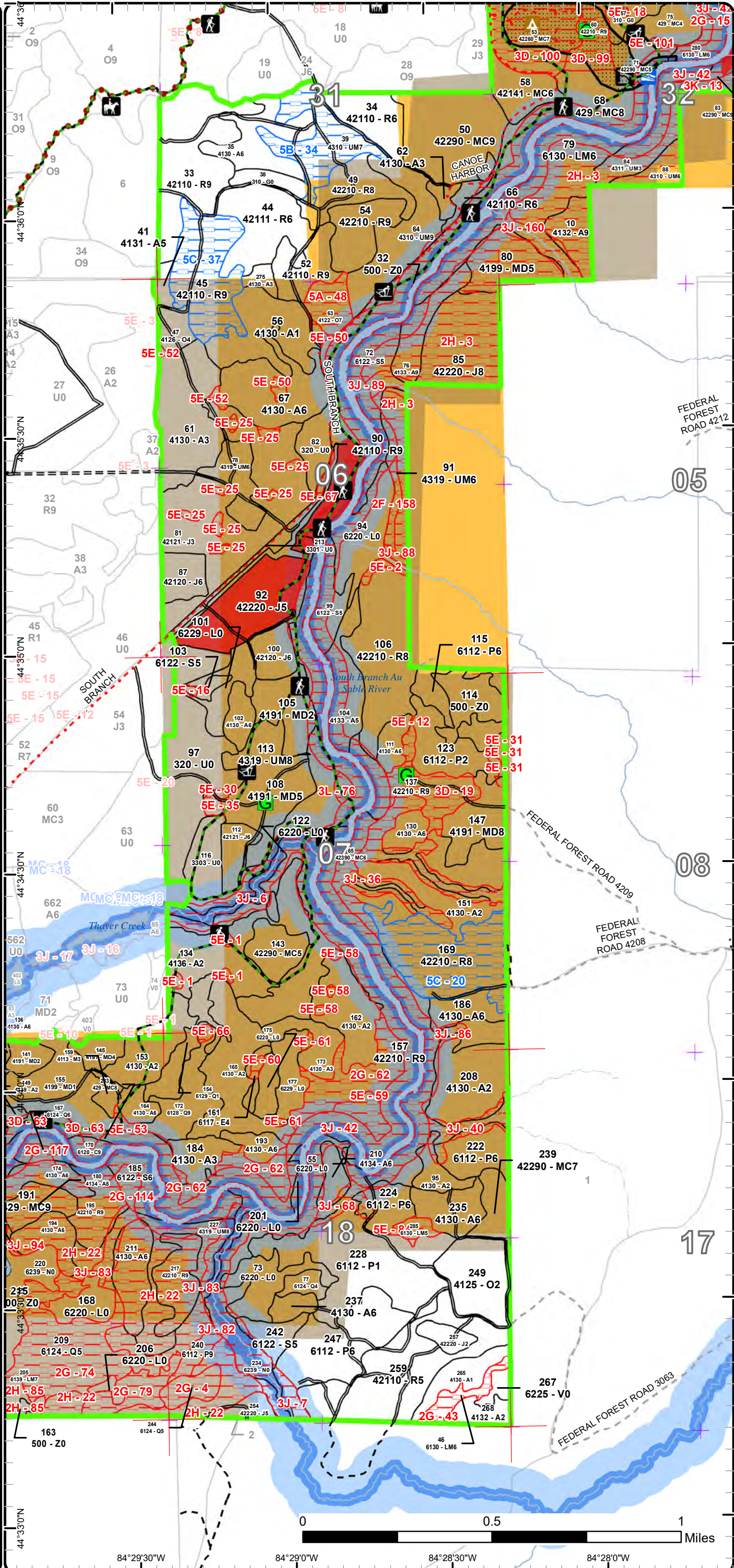


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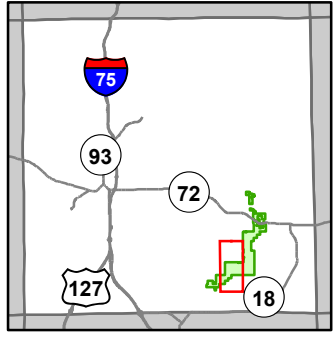
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- Designated Ski Trails
- Designated Multi-Use Trails
- Drain
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Toilet
- Gate
- Boating Access Site
- Campground
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 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)
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- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer
- State Forest Campground



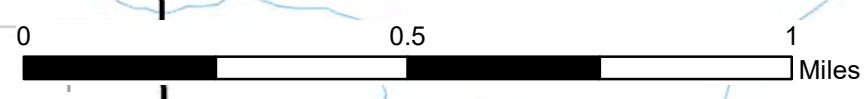
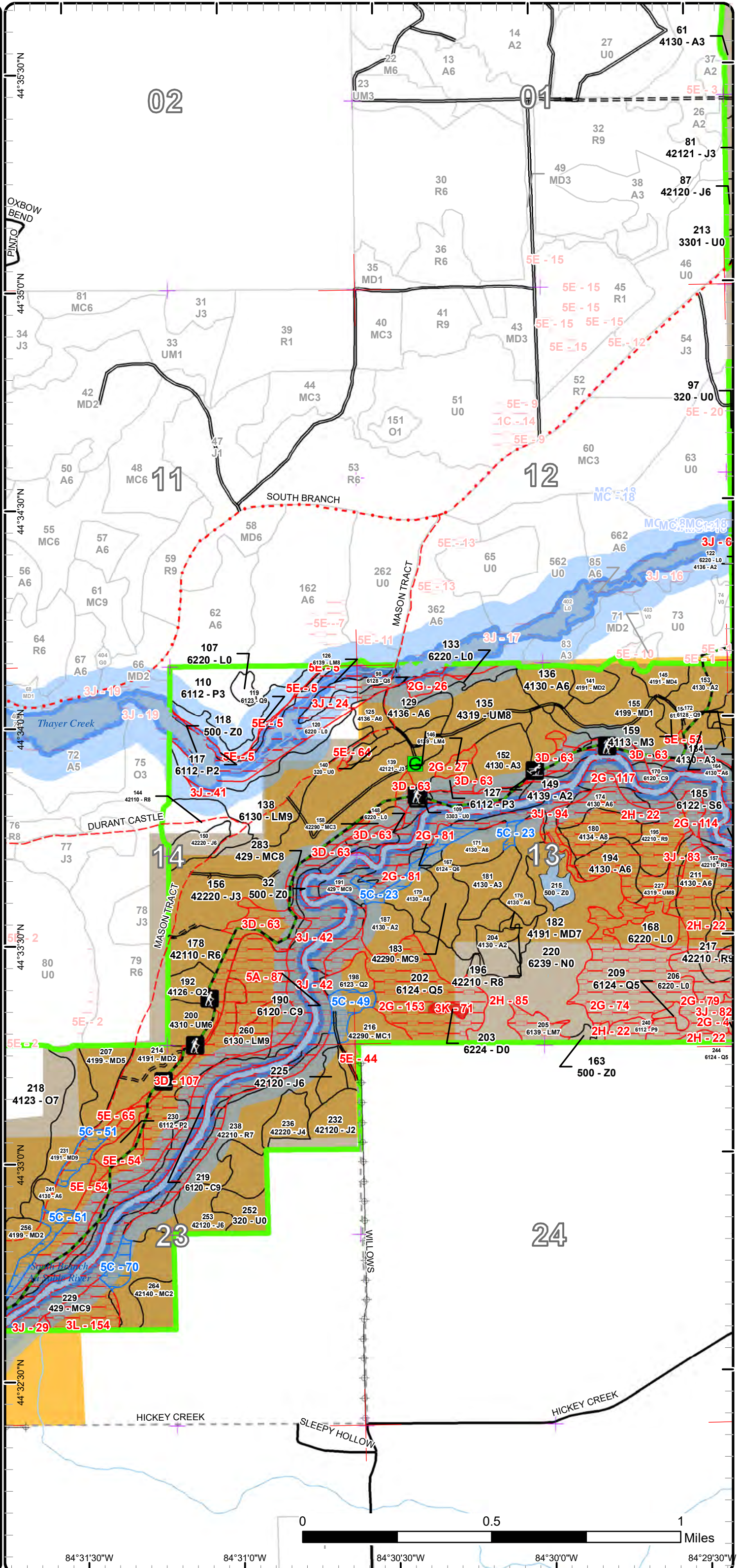
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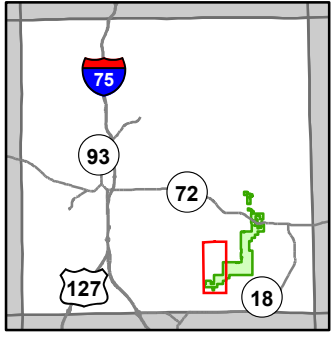
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- Culvert
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- 5C: Delay treatment for age/size class diversity or exceptional site quality
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- 2G: Too wet (sensitive soils, does not include access issues)
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- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



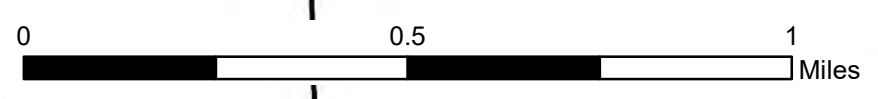
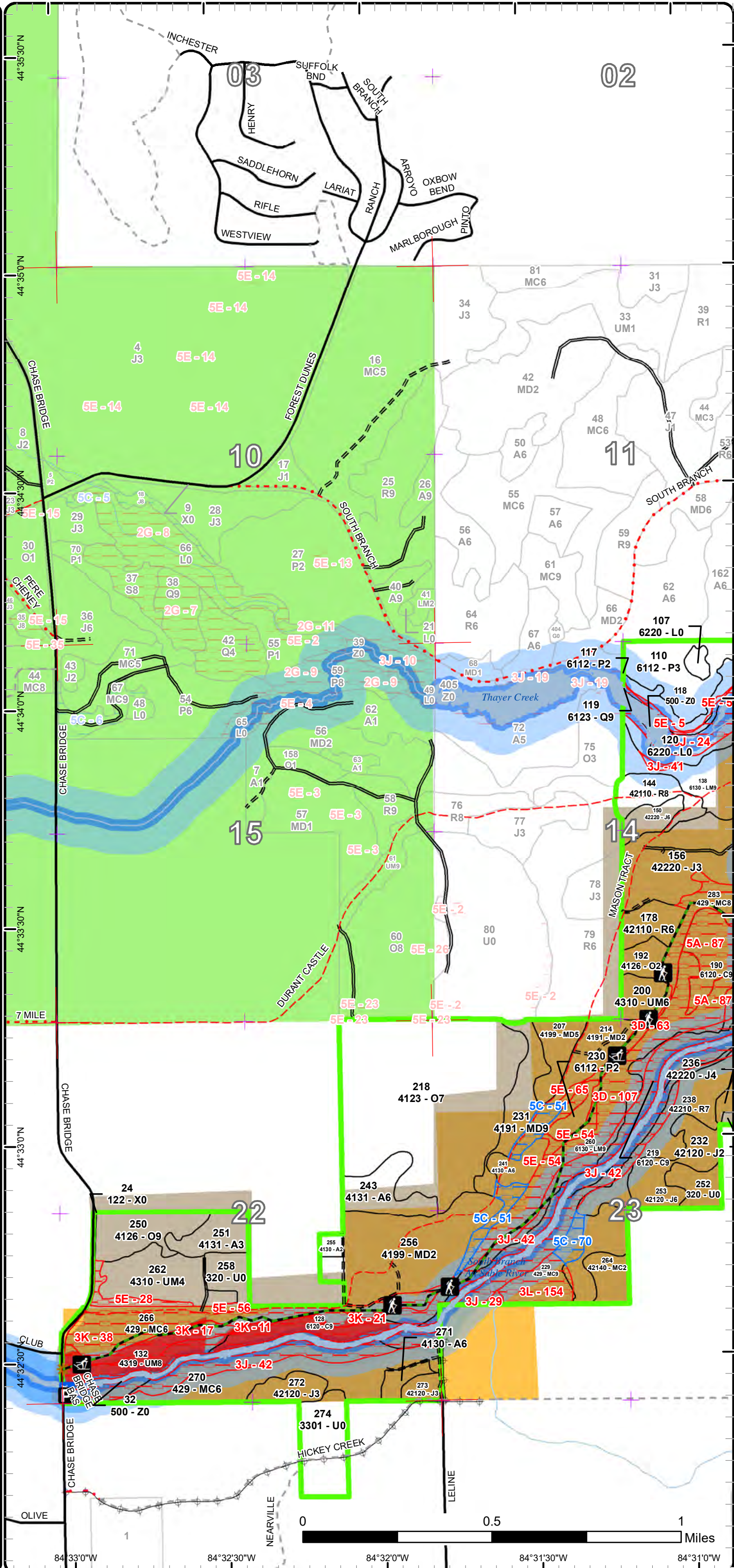
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- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Boating Access Site
- P Parking Lot
- * Trailhead
- + Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 3L: Other wildlife concerns
- 5A: Not able to obtain desirable regeneration
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- Non-Dedicated Natural Areas and National Natural Landmarks
- High Priority Trout Stream Buffer



84°33'0"W 84°32'30"W 84°32'0"W 84°31'30"W 84°31'0"W



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	241	55	105	156	35	22	0	21	13	0	0	0	0	0	0	0	0	646
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	81	4	0	0	85
Herbaceous Openland	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99
Jack Pine	0	0	81	85	84	198	66	60	0	0	30	0	0	0	0	0	0	0	603
Low-Density Trees	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Lowland Aspen/Balsam Poplar	0	85	29	0	36	0	35	47	0	25	0	0	0	0	0	0	0	0	255
Lowland Conifers	0	0	0	0	0	55	70	33	10	0	0	0	39	0	0	0	0	0	207
Lowland Deciduous	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Lowland Mixed Forest	0	0	0	0	0	8	3	36	121	6	0	0	0	0	0	0	0	0	173
Lowland Shrub	130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	130
Lowland Spruce/Fir	0	0	0	0	0	0	7	17	0	20	18	0	0	0	0	0	0	0	62
Marsh	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Mixed Upland Deciduous	0	26	68	16	17	34	25	0	0	0	43	0	0	0	0	0	0	0	228
Natural Mixed Pines	0	0	8	3	12	10	7	57	21	26	5	0	0	62	0	0	0	0	211
Northern Hardwood	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Oak	0	22	6	0	6	0	0	0	0	0	0	132	0	0	18	0	0	0	184
Planted Mixed Pines	0	0	8	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	10	0	190	26	55	45	84	22	0	0	0	0	0	112	543
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Conifers	0	0	0	0	0	11	156	107	0	71	0	0	45	0	0	0	0	0	388
Upland Mixed Forest	0	0	0	31	9	23	11	56	89	0	20	24	0	67	0	0	0	0	327
Upland Shrub	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	133	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133
White Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Total	707	374	258	240	342	374	592	447	317	206	200	178	84	129	99	4	0	112	4650



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 293

Total Compartment Acres: 4,657

Commercial Harvest - 538
 Harvests with Site Condition - 25
 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	31	0	0	0	0	0	0	0	0	31
Jack Pine	31	0	0	0	12	0	0	0	13	56
Lowland Aspen/Balsam Poplar	31	0	0	0	0	0	0	0	0	31
Lowland Mixed Forest	32	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	32	0	0	0	6	0	0	0	0	37
Natural Mixed Pines	20	0	0	0	5	36	0	0	0	61
Oak	18	0	0	0	0	0	121	0	0	139
Red Pine	0	0	0	0	0	98	0	0	0	98
Upland Conifers	31	0	0	0	0	0	0	0	0	31
Upland Mixed Forest	24	0	0	0	0	24	0	0	0	48
Total	248	0	0	0	23	158	121	0	13	563

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	563	62	82	0	0	1049	533	0	0	2289
Next Step	0	176	125	0	31	474	2158	211	0	3175
Total	563	238	207	0	31	1523	2691	211	0	5464



Standard

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

11	72293011-Cut	2.7	42110 - Planted Red Pine	Poletimber Well	54	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Specs: Thin the RP and cut all JP-NPO, including dead stems. Row spacing is too narrow in places to just designate every third row. Marking will need to be done in order to ensure equipment access. Remove suppressed and high-risk RP with an eye toward increasing the stand's resilience.

Next Step Treatments:

Acceptable Regen:

Other Comment: RP have been damaged by oak deadfalls, and by windthrow on the south edge.

Site Condition:

Proposed Start Date: 10/1 /2023

12	72293012-shwd	12.0	42220 - Natural Jack Pine	Poletimber Medium	58	51-80	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Shelterwood harvest by removing merch JP, NPO & aspen, including dead stems. Apply regen protection specs. Exclude the inoperable slope in the north, and designate the steepest portion as retention. The steepest slopes have been edited out of the draft Rx boundary but more may be excluded if determined necessary during timbersale prep.

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

Acceptable Regen: Low to moderate stocking in WP-RP-JP-fir with minor oak and aspen components, achieved through a combination of residual and regen.

Other Comment: This stand had been prescribed and set up for harvest during the previous two decades but was not cut due to access issues with the associated treatments to the north. Mortality in the overmature JP & NPO has increased during the delay. That mortality, coupled with the Mason Tract plan's prohibition on fuelwood cutting, has resulted in heavy fuel loading that poses a concern for wildfire control, so retention will be limited to the inoperable slopes.

Site Condition:

Proposed Start Date: 10/1 /2023

17	72293017-cc	5.1	42250 - Pine, Oak	Sawtimber Poor	99	1-50	Harvest	Shelterwood	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Shelterwood harvest by removing merch JP, NPO & aspen, including dead stems. Apply regen protection specs.

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

Acceptable Regen: Low to moderate stocking in WP-RP-JP-fir with minor oak and aspen components, achieved through a combination of residual and regen.

Other Comment: This stand had been prescribed and set up for harvest during the previous two decades but was not cut due to access issues with the associated treatments to the north. Mortality in the overmature JP & NPO has increased during the delay. That mortality, coupled with the Mason Tract plan's prohibition on fuelwood cutting, has resulted in heavy fuel loading that poses a concern for wildfire control, so no designated long-term retention is proposed.

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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26	72293026-ccr	11.6	4133 - Aspen, Mixed Pine	Poletimber Medium	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Harvest stems 2"+ DBH, excluding the 150' Natural Rivers restricted cutting zone and the ground dissected by flooded swales in the SE. Extend the harvest boundary to include the operable lower slope of stand 27. Apply grouse drumming log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate stocking in aspen and pine.

Regen:

Other The draft treatment boundary has been edited to approximate the intended exclusions.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

29	72293029-Spray	22.1	330 - Low-Density Trees	Nonstocked	0	Unspecified	Pesticide	ERROR	4211 - Planted Red Pine	Even-Aged	No
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Prescription Spray to control competition.

Specs:

Next Step Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand; Monitoring, Herbicide Use; Monitoring, Artificial Regen(1yr); Planting

Treatments: Initial Plant; Monitoring, Artificial Regen(3yr)

Acceptable Full stocking in planted RP, with non-stocked inclusions that could not be trenched.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2022

31	72293031-ccr	13.3	42220 - Natural Jack Pine	Poletimber Poor	60	1-50	Harvest	Other - Specify	3302 - Low Density Conifer Trees		No
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Prescription Harvest merch stems except the 150' Natural Rivers restricted cutting zone.

Specs:

Next Step

Treatments:

Acceptable Pine barrens

Regen:

Other

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/1 /2023

33	72293033-thin	41.4	42110 - Planted Red Pine	Sawtimber Well	55	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Row thin the RP-WP and designate-cut the other species. Won't be able to just designate rows, they're too discontinuous and hard to follow.

Specs: Some areas of the plantation will be a walk, just marking enough to make sure equipment can get through.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
34	72293034-thin	14.7	42110 - Planted Red Pine	Poletimber Well	55	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Row thin the RP and cut all JP-NPO-A, including dead standing. The rows are too sketchy and spacing too narrow in places to just designate every third row. Some areas will thin by default through removal of the JP-NPO, but marking will still be needed to make sure equipment can get through.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
35	72293035-cc	19.1	4130 - Aspen	Poletimber Well	58	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except for legacy pine.</p> <p><u>Specs:</u> No retention due to high amount of edge and aspen objective. Apply grouse drumming log spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with minor oak-pine components.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
38	72293038_Monitor	3.9	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> moderate stocking in RP</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
44	72293044-thin	25.7	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	111-140	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Designate-cut all trees (including dead standing) except RP-WP-WO. Cut RP only where necessary for operability, targeting the smallest stems to be scaled and invoiced.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50 72293050-thin	36.4	42290 - Natural Mixed Pine	Sawtimber Well	68	111-140	Harvest	Low Thinning	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> Designate-cut all trees (including dead standing) except RP-WP. Cut sapling-pole RP-WP only where necessary for operability, targeting the smallest stems, to be scaled and invoiced. Mark to leave open-grown WO wildlife trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> The objective of this treatment is a combination salvage, fuels reduction, and thinning.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
51 72293051-Monitor	41.6	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in aspen, RM & pine in the areas that are not planted to RP.</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 /2031</p>										
51 72293051-Prep	62.0	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Plant RP on operable ground. Use site prep and release treatments as needed that may include trenching, roller chopping, herbiciding, and pre-commercial thinning (TSI).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Release; Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Site Prep;</p> <p><u>Treatments:</u> Monitoring, Herbicide Use; Monitoring, Artificial Regen(1yr); Planting, Initial Plant; Monitoring, Artificial Reg</p> <p><u>Acceptable</u> Full stocking in planted RP</p> <p><u>Regen:</u></p> <p><u>Other</u> Areas to exclude from cultivation: steeper slopes, heavy oak slash accumulations, patches of residual pine, and dense perimeter aspen regen.</p> <p><u>Comment:</u> The draft treatment boundary has been edited to approximate the intended exclusions.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
52 72293052-thin	13.4	42110 - Planted Red Pine	Sawtimber Well	80	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin from above, with an eye toward extending the rotation. Don't mark the traces of legacy pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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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
56 72293056-Monitor	25.8	4130 - Aspen	Sapling Poor	5	Immature	Monitoring	Natural Regen (Intermediate)	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Other - Specify; Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in aspen and oak with upland shrub inclusions. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
57 72293057-Plant	81.6	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Planting	Initial Plant	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> Other, Pre-Commercial Thinning - Hand; Pesticide, Skidder - Release; Monitoring, Herbicide Use; Monitoring, Artificial Regen(1yr); <u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable</u> Full stocking in planted RP <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
68 72293061-Spray	285.5	429 - Mixed Upland Conifers	Sawtimber Medium	81	51-80	Pesticide	Other - Specify	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Control invasive plant species. Methods may include herbicide application, cutting, and hand-pulling. Note that the herbicide application will be very limited in scope, targeting only the traces of invasive plants that occur within the treatment boundary. Monitor effectiveness of control measures and implement follow-up treatments if necessary. Follow standard notification procedures. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Disregard the Cover Type Objective field. This is a multiple-stand treatment with the sole objective of controlling invasive plant species. <u>Comment:</u></p> <p><u>Site Condition:</u> BMPs <u>Proposed Start Date:</u> 1 /1 /2023</p>										
64 72293064-thin	24.1	4310 - Pine, Oak Mix	Sawtimber Well	73	81-110	Harvest	Low Thinning	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Designate-cut all trees (including dead standing) except RP-WP. Cut sapling-pole RP-WP only where necessary for operability, targeting the smallest possible stems, to be scaled and invoiced. Leave open-grown xlog WO wildlife trees. Exclude the steep hill above stand 62 and the 200-foot Mason Tract Plan RMZ. <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> The objective of this treatment is a combination salvage, fuels reduction, and thinning. The steep portion & RMZ have been removed from the draft treatment area. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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65	72293065-Spray	214.4	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	50	81-110	Pesticide	Other - Specify	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Control invasive plant species. Methods may include herbicide application, cutting, and hand-pulling. Note that the herbicide application will be very limited in scope, targeting only the traces of invasive plants that occur within the treatment boundary. Monitor effectiveness of control measures and implement follow-up treatments if necessary. Follow standard notification procedures.

Next Step Treatments: Monitoring, Herbicide Use

Acceptable Regen:

Other Comment: Disregard the Cover Type Objective field. This is a multiple-stand treatment with the sole objective of controlling invasive plant species.

Site Condition: BMPs

Proposed Start Date: 1 /1 /2023

75	72293075-Monitor	10.3	429 - Mixed Upland Conifers	Poletimber Poor	46	1-50	Monitoring	Natural Regen (Re-Inventory)	330 - Low-Density Trees		No
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Prescription Specs: check regen

Next Step Treatments:

Acceptable Regen: Variable distribution in RM, WP & fir, with black cherry.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2022

83	72293083-Spray	62.0	42290 - Natural Mixed Pine	Sawtimber Well	124	111-140	Pesticide	Other - Specify	429 - Mixed Upland Conifers	Two-Aged	No
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Prescription Specs: Control invasive plant species. Methods may include herbicide application, cutting, and hand-pulling. Monitor effectiveness of control measures and implement follow-up treatments if necessary. Note that the herbicide application will be very limited in scope, targeting only the traces of invasive plants that occur within the treatment boundary. Follow standard notification procedures.

Next Step Treatments: Monitoring, Herbicide Use

Acceptable Regen:

Other Comment:

Site Condition: Rare Landforms

Proposed Start Date: 1 /1 /2023



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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92	72293092-ccr	30.5	42220 - Natural Jack Pine	Poletimber Medium	59	51-80	Harvest	Clearcut with Retention	3302 - Low Density Conifer Trees	No
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Prescription Harvest to reduce the encroaching tree cover and facilitate follow-up prescribed burning for Pine Barrens ERA restoration and maintenance.
Specs: Exclude the Downey's access site in the NE, the 200-foot Mason Tract Plan RMZ, and the valley bounded by the Mason Tract Pathway. Extend the harvest west to South Branch Road, cutting the S1/2 of R9 stand 90 which is starting to windthrow.

Next Step Burn, Opening; Monitoring, Prescribed Burn
Treatments: ; Monitoring, Herbicide Use; Pesticide, Other - Specify

Acceptable Regen: Pine Barrens natural community

Other Comment: Comp Review decision: Use retention along linear trails, do not use buffers that could blow down and cause problems along the trails. Also, retention will work better than planting for visual concerns as planted trees will take a while to grow and cause issues protecting them with prescribed fire or other future treatments.

Site Condition:

Proposed Start Date: 10/1 /2023

95	72293095-Monitor	6.6	4130 - Aspen	Sapling Medium	2	Immature	Monitoring	Natural Regen (Re-Inventory)	4136 - Aspen, Mixed Conifer	Even-Aged	No
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Prescription check regen
Specs:

Next Step
Treatments:

Acceptable Regen: Moderate stocking in aspen with MC/MD. Inclusions of poor stocking are expected, particularly on the lower ground.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2031

97	72293097-Monitor	41.3	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	4222 - Natural Jack Pine	Even-Aged	No
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Prescription If natural regen fails, plant RP. Cultivation next steps may include roller chopping, trenching, herbiciding, and pre-commercial thinning.
Specs:

Next Step SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Other, Pre-Commercial Thinning - Hand; Monitoring, Artificial
Treatments: Regen(1yr); Monitoring, Artificial Regen(3yr); Pesticide, Skidder - Site Prep; Pesticide, Skidder - Releas

Acceptable Regen: Moderate stocking in JP with RP-O associates, and BC inclusions.

Other Comment: Monitor concurrent with comp 298 stand 63

Site Condition:

Proposed Start Date: 10/1 /2025



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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
101 72293101-Monitor	10.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6125 - Lowland Black Spruce, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Check regen. This low ground will take longer for regen to establish on.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in JP & spruce, with aspen and lowland shrub inclusions.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2023</p>										
116 72293116-Monitor	11.2	3303 - Mixed Low Density Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Two-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in oak and pine residual and regen from the cut, with BC inclusions.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2031</p>										
117 72293117-Monitor	10.0	6112 - Lowland Aspen	Sapling Medium	1	Immature	Monitoring	Natural Regen (Re-Inventory)	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use; Pesticide, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with WP-fir at moderate stocking on the less saturated ground and poor stocking on the lowest ground and where pockets of residual fir were left.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2031</p>										
123 72293123-Monitor	18.1	6112 - Lowland Aspen	Sapling Medium	2	Immature	Monitoring	Natural Regen (Intermediate)	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> check regen</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Hand Application; Monitoring, Herbicide Use</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen with poorly-stocked areas on the lowest ground.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/1 /2031</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
132	72293132-Spray	41.6	4319 - Mixed Upland Forest	Sawtimber Medium	122	51-80	Pesticide	Other - Specify	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription Specs:</u> Control invasive plant species. Methods may include herbicide application, cutting, and hand-pulling. Note that the herbicide application will be very limited in scope, targeting only the traces of invasive plants that occur within the treatment boundary. Monitor effectiveness of control measures and implement follow-up treatments if necessary. Follow standard notification procedures.</p> <p><u>Next Step Treatments:</u> Monitoring, Herbicide Use</p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Disregard the Cover Type Objective field. This is a multiple-stand treatment with the sole objective of controlling invasive plant species.</p> <p><u>Site Condition:</u> BMPs</p> <p><u>Proposed Start Date:</u> 1 / 1 / 2023</p>											
134	72293134-Monitor	30.8	4136 - Aspen, Mixed Conifer	Sapling Medium	1	1-50	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> check regen</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in A-MD-MC, with poorly stocked inclusions on the lower ground and where residual suppresses the regen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>											
135	72293135-ccr	24.0	4319 - Mixed Upland Forest	Sawtimber Medium	78	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest stems 2"+ DBH except legacy pine. Intact patches of regen may be left if they can be protected during harvesting. For retention exclude the lowest ground on the north edge, the portion SW of the Durant Castle service road, and enough on the east side of that road to reinforce the gate. Apply grouse drumming log spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Herbicide Use; Pesticide, Other - Specify</p> <p><u>Acceptable Regen:</u> Moderate stocking in A-RM-O-MC with poorly stocked inclusions on the lowest ground and where the NPO-JP has been breaking up.</p> <p><u>Other Comment:</u> The exclusions in the SW have been removed from the draft treatment boundary but the lowest ground on the north edge has not. Evaluate ground conditions there during snow-off harvest prep and exclude that ground accordingly.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
138	72293138-ccr	31.5	6130 - Fir, Aspen, Maple	Sawtimber Well	62	81-110	Harvest	Clearcut with Retention	6130 - Fir, Aspen, Maple	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest the RM-F 2"+ DBH, cut the rest merch except legacy pine & NWC. For retention exclude the 150-foot Thayer Creek RMZ and the lowest ground by the floodplain. The adjacent floodplain stand has pockets of P/Q/E cover that are not part of this stand and that fall within the Natural Rivers restricted cutting zone. Apply grouse drumming log spec.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Pesticide, Other - Specify; Monitoring, Herbicide Use</p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with RM-O-MC, and poorly stocked inclusions on the lowest ground and on the uplands where the NPO-JP has been breaking up.</p> <p><u>Other Comment:</u> The RMZ has been excluded from the draft treatment boundary but the lowest ground has not. Evaluate ground conditions there during snow-off harvest prep and exclude that ground accordingly.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
140 72293140-Monitor	3.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	310 - Herbaceous Openland		No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Dry sand prairie natural community characteristics. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
147 72293147-cc	15.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	99	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest 2"+ DBH except for legacy pine. No retention due to small stand size, irregular shape, and aspen objective. Do not incorporate the designated retention left for stand 123 (see Site Condition Layer). Apply grouse drumming log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-RM-O with pine and poorly stocked inclusions. <u>Regen:</u></p> <p><u>Other</u> Aside from at the landing, there is adequate residual & regen in the adjacent recently-harvested stand 151 to address green-up concerns. <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
151 72293151-Monitor	36.4	4130 - Aspen	Sapling Medium	2	Immature	Monitoring	Natural Regen (Re-Inventory)	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen with MC/MD. Inclusions of poor stocking are expected, particularly on the lower ground. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2031</p>										
153 72293153-Monitor	15.4	4130 - Aspen	Sapling Medium	1	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-MD-MC, with poorly stocked inclusions on the lower ground and where residual suppresses the regen. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2031</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
155 72293155-Monitor	26.3	4199 - Other Mixed Upland Deciduous	Sapling Poor	3	1-50	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in RM-A-MC, with low stocking where residual suppresses the regen. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2031</p>										
157 72293157-Spray	422.9	42210 - Natural Red Pine	Sawtimber Well	103	111-140	Pesticide	Other - Specify	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Control invasive plant species. Methods may include herbicide application, cutting, and hand-pulling. Note that the herbicide application will be very limited in scope, targeting only the traces of invasive plants that occur within the treatment boundary. Monitor effectiveness of control measures and implement follow-up treatments if necessary. Follow standard notification procedures. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> Disregard the Cover Type Objective field. This is a multiple-stand treatment with the sole objective of controlling invasive plant species. <u>Comment:</u></p> <p><u>Site Condition:</u> BMPs <u>Proposed Start Date:</u> 1 /1 /2023</p>										
162 72293162-Monitor	20.1	4130 - Aspen	Sapling Medium	1	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Other - Specify; Monitoring, Herbicide Use <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-MC-MD, with poorly stocked inclusions on the lower ground <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2031</p>										
165 72293165-Monitor	29.3	4130 - Aspen	Sapling Medium	1	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-MD-MC, with poorly stocked inclusions on the lower ground. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2031</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
177 72293177-Monitor	9.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Low to moderate stocking in aspen, spruce, fir, RM & WP, with non-stocked inclusions on the lowest ground. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										
183 72293183-ccr	19.7	42290 - Natural Mixed Pine	Sawtimber Well	73	141-170	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Harvest 2"+ DBH except legacy pine and island retention. Incorporate the operable transition ground portion of stand 202, the aspen in the west side of stand 182, and the portion of stand 191 between stands 171 & 179. Apply grouse drumming log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-RM-MC. A longer timeframe for the conifer to establish is expected and accepted. <u>Regen:</u></p> <p><u>Other</u> The draft treatment boundary has been edited to approximate the proposed inclusions but not the retention exclusion. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
182 72293196-SHWD	5.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	50	1-50	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Mark down to 30-40 square feet of residual basal area. No designated retention due to small stand size. Leave all super-canopy RP & WP. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate to low stocking in aspen, BC, conifers, & RM. <u>Regen:</u></p> <p><u>Other</u> Carrying forward the 2014 YOE harvest treatment that was field prepared and put on timbersale proposal 7203618. That proposal has been on hold because of access issues. Stand boundary realignment during 2024 YOE inventory shifted the west half of the original stand 196 to stand 182. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
208	72293208-Monitor	25.1	4130 - Aspen	Sapling Medium	2	1-50	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with MC/MD. Inclusions of poor stocking are expected, particularly on the lower ground.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>											
216	72293216-Monitor	7.7	42290 - Natural Mixed Pine	Sapling Poor	13	1-50	Monitoring	Natural Regen (Intermediate)	42260 - Natural Pine, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate stocking in JP, WP, RP, fir, spruce and black cherry.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
218	72293218-removal	121.3	4123 - Red Oak	Sawtimber Poor	107	51-80	Harvest	Overstory Removal	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Remove the overstory from the well-established regen, cutting merch stems except legacy pine and island retention <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in a combination of released advanced regen and additional regen from the cut.</p> <p><u>Other Comment:</u> Area-based retention has not been edited out of the draft treatment boundary. This and the adjacent stand's established regen is adequate to address green-up for their overstory removal harvests.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
228	72293228-Monitor	51.9	6112 - Lowland Aspen	Sapling Poor	2	Immature	Monitoring	Natural Regen (Re-Inventory)	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with MC/MD. Inclusions of poor stocking are expected, particularly on the lower ground.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</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
230 72293230-Monitor	4.5	6112 - Lowland Aspen	Sapling Medium	4	Immature	Monitoring	Natural Regen (Re-Inventory)	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in aspen with RM-O-pine, and lower stocking on the wettest ground. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										
231 72293231-ccr	15.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest merch stems except legacy pine, excluding that portion of the stand east of South Branch Road. Part of that excluded area will be designated as retention. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in RM-A-O-WP, with poorly-stocked inclusions where the oak has been breaking up. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
247 72293247-ccr	30.8	6112 - Lowland Aspen	Poetimber Well	54	111-140	Harvest	Clearcut with Retention	6111 - Lowland Balsam Poplar	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH except legacy pine & NWC. Include the operable transition ground edge of stand 242. For retention exclude the 150-foot Natural Rivers RMZ and hillside along Douglas Creek and the very low ground in the far NE. Do not allow chipping; the fir tops will be needed for matting. Apply drumming log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Moderate stocking in A-RM-MC, with poorly stocked inclusions on the lower ground. <u>Regen:</u></p> <p><u>Other</u> Draft treatment boundary has been edited to approximate the intended inclusions and exclusions. The adjacent portions of recently-harvested stand 228 are on track to meet green-up criteria by the time this stand is harvested. <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
249 72293249_Monitor	20.7	4125 - Black, N. Pin Oak	Sapling Medium	2	Immature	Monitoring	Natural Regen (Re-Inventory)	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> A moderately-stocked mix of oak and pine regen with at least 50% cover in oak. <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</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
252 7229325_Monitor	7.8	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Intermediate)	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Dry sand prairie natural community characteristics <u>Other Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
250 72293250-ccr	17.5	4126 - White, Black, N. Pin Oak	Sawtimber Well	134	81-110	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+DBH except cut the oak merch, and leave the legacy pine and open-grown xlog wildlife WO. Exclude island retention on the steeper hill on the west edge. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate stocking in a mix of aspen, oak, RM & pine. Sparser cover is expected on the south-center edge where heavier oak mortality has occurred. <u>Other Comment:</u> Residual and BTA regen along the shared boundary within recently-harvested stand 262 is adequate to address green-up. Proposed retention has not been removed from the draft treatment boundary.</p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2023</p>										
255 72293255-Monitor	2.4	4130 - Aspen	Sapling Medium	3	Immature	Monitoring	Natural Regen (Intermediate)	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen/MD with lower stocking accepted on the south edge. <u>Other Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2022</p>										
258 72293258-Monitor	8.0	320 - Upland Shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	320 - Upland Shrub		No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Mast-producing shrub cover. <u>Other Comment:</u></p> <p><u>Site Condition:</u> <u>Proposed Start Date:</u> 10/1 /2022</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
262 72293262-Monitor	23.2	4310 - Pine, Oak Mix	Poletimber Poor	49	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate stocking in a mix of residual and regen from the cut. The middle of the stand where extensive pre-harvest mortality had occurred in the oak is expected to take longer to fill in.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										
265 72293265-Monitor	10.1	4130 - Aspen	Sapling Poor	2	Immature	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Moderate stocking in aspen with MC/MD, and sparse cover on the lower ground in the south.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										
270 72293270-ccr	31.4	429 - Mixed Upland Conifers	Poletimber Well	55	111-140	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest stems 2"+ DBH, except protect oak & WP regen where possible. Exclude the 200-foot Mason Tract Plan RMZ. Scarify if needed to encourage conifer establishment. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate stocking in MC-MD. A longer timeframe to achieve that regen is expected and accepted.</p> <p><u>Other Comment:</u> The draft treatment boundary has been edited to approximate the intended exclusion.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										
274 72293274-Monitor	20.7	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	4126 - White, Black, N. Pin Oak	Two-Aged	No
<p><u>Prescription</u> check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Low to moderate stocking in a combination of residual oak regen and post-harvest regen (oak & pine).</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2031</p>										



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	Habitat Cut
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Total Treatment
Acreage Proposed: 2288.7

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 293

Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions													ed
		With Condition	Not Available		2I	5B	5C	2A	2F	2G	2H	3D	3J	3K	3L	5A	5E	
646	529	11	106	Aspen	11	0	0			2	62	0	36				6	
3	3	0	0	Bog						0								
85	0	0	85	Cedar								4	58	4			19	
99	94	0	5	Herbaceous Openland														5
602	453	13	135	Jack Pine	13		0	71	0		30		11		16		7	
177	170	0	7	Low-Density Trees				2					1				0	4
257	175	0	81	Lowland Aspen/Balsam Poplar					2	11	41		27					1
208	44	0	164	Lowland Conifers			0	7	0	114		0	40	0				3
4	3	0	1	Lowland Deciduous														1
174	32	0	143	Lowland Mixed Forest						10	25	41	52	5			0	9
130	80	0	50	Lowland Shrub					0	0			49					1
59	18	0	41	Lowland Spruce/Fir				2	0	3	4		31					0
74	58	0	15	Marsh						0	0		15					
229	196	10	23	Mixed Upland Deciduous			10				17	0	3	0				4
210	97	0	113	Natural Mixed Pines		0		19			0	26	27	40				1
3	3	0	0	Northern Hardwood														
184	173	0	10	Oak													9	1
21	21	0	0	Planted Mixed Pines									0					
541	303	72	165	Red Pine			72		0	29	25	29	73					10
2	0	0	2	Treed Bog						0					2			
399	91	17	290	Upland Conifers	0		17			1	1	30	213	29	11	0		7
330	120	66	144	Upland Mixed Forest	1	64			19		42		63	10	2	8		0
73	73	0	0	Upland Shrub														0
16	14	0	2	Urban								0	2	0	0			
133	128	0	5	Water									5					
4	4	0	0	White Pine									0					
4,661	2,884	189	1,588	Total Forested Acres	25	64	99	102	20	169	247	130	705	90	29	37	59	0
	62%	4%	34%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified

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Comments: Interior retention islands left when stand 134 was harvested in 2021.							
2	Unavailable	5E: Long-Term Retention	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 106's 2014 YOE harvest. It also encompasses part of the stream's 100-foot RMZ.							
3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	115	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Management access through State land is cut off by a steep hill off the NE end and a stream in a steep-sided valley at the SW end. Previous YOE attempts to gain access permission across adjacent private property have been unsuccessful.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Aside from the perimeter transition ground, this stand has ground water at or near the surface. A stream flows out of the north-center edge.							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the retention left for stand 117's 2021 harvest. The rest falls within the Thayer Creek RMZ.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek's 150-foot Natural Rivers RMZ.							

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7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Douglas Creek 150-foot Natural Rivers RMZ. Was expanded wider in places to pick up the top edge of hills above the creek, and adjacent floodplain edge.							
8	Unavailable	2F: Too steep	12	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Most of the stand occupies a steep sideslope that ends at the swamp.							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: The water table is at or near the surface across much of the stand.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream RMZ							
11	Unavailable	3K: Rare or unique landforms	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI-identified Rich Conifer Swamp ERA							
12	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Part of the retention left for stand 106's 2014 YOE thinning.							

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13	Unavailable	3K: Rare or unique landforms	40	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Most of the stand is within an MNFI-identified Dry-Mesic Northern Forest ERA. Part of it occupies a very steep slope above the river and floodplain.							
14	Available	5B: Maintain for regeneration purposes	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Shelterwood harvested in 2010. Windthrow and decline has reduced the residual in the S1/2.							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of stand 75 was set up for harvest but not cut due to low ground.							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3K: Rare or unique landforms	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI-identified Dry-Mesic Northern Forest ERA							
18	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left along the pathway for stand 57's 2014 YOE harvest.							
19	Unavailable	3D: Recreational / Scenic values	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Naturally established RP stand with a significant xlog component. Encompasses two wetlands and the Mason Tract Chapel parking lot and service road.							

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20	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed harvest last YOE was dropped during the review process. The stand has a significant legacy tree component. The younger pine is not at stocking levels that would benefit from thinning at this time. RP-WP is establishing in canopy gaps. Consider an overstory removal/seed tree harvest in the future, releasing the advanced regen and retaining the legacy trees for additional seed source.							
21	Unavailable	3K: Rare or unique landforms	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MNFI-identified Rich Conifer Swamp ERA							
22	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Proposed harvests from three YOEs were rejected at the 2024 YOE Comp Review due to unresolved access issues (beaver flooding and multiple stream and low ground crossings involved in accessing the proposed treatment area).							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portions of stand 191 outside of the RMZs that aren't currently proposed for harvest.							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Thayer Creek's 150-foot Natural Rivers RMZ, does not factor in the fluctuating ponded water. Where the engineered channel diverges from the natural channel to go around stand 126, the 150-foot RMZ was extended on both branches.							

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25	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention islands left when stand 81 was final harvested in 2006.</p>							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: The north edge of the stand is within Thayer Creek's 150-foot Natural Rivers RMZ. The stand's islands of slightly drier ground are separated by low swales that likely never freeze due to proximity to the Creek.</p>							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Aside from the perimeter transition ground, the stand has groundwater at or near the surface.</p>							
28	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention left for stand 262's 2019 harvest.</p>							
29	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Hickey Creek's 100-foot RMZ and a small triangle in the SW cut off by the RMZ.</p>							
30	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Boundary-excluded retention for stand 123's harvest.</p>							

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32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	2A: Adjacent landowner denied access	Unspecified	Unspecified
Comments: Aside from an upland acre in the SW, the ground likely never freezes due to active groundwater flow toward the stream.							
33	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Stream RMZ							
34	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Shelterwood-seed levels of residual left by the 2012 harvest.							
35	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: The polygon includes both long-term retention for stand 151's 2014 YOE harvest and intermittent stream 100-foot RMZs.							
37	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was flagged as an area to address because it met age - not basal area - criteria. This 80 year old RP plantation is a good candidate for extended rotation and additional thinnings: it is healthy, has good form and LCR, and is relatively small diameter for its age.							

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38	Unavailable	3K: Rare or unique landforms	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: One of the MNFI management recommendations for the Rich Conifer Swamp ERA is to retain an intact buffer of natural communities surrounding the swamp to minimize the threat of hydrological alteration. Leaving intact the stand north of the Dry-Mesic Northern Forest ERA will reduce the risk of windthrow to the super-canopy pines within that ERA.							
39	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	12	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Access is limited by the steep hill on the NW edge. The lower ground likely never freezes due to active groundwater flow toward the river.							
40	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Intermittent streams' 100-foot RMZ. Part of it is also retention excluded from stand 208's 2014 YOE harvest..							
41	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of the beaver pond's 100-foot RMZ that extends into stand 138.							
42	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	487	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The Mason Tract Plan's 200-foot restricted cutting zone along the South Branch of the AuSable River. Includes the 150-foot Natural Rivers RMZ. The Mason Tract Plan only applies to Mason gift lands, but for uniformity, the 200-foot RMZ was also carried across the interspersed parcels that were acquired from other sources. The RMZ width was increased beyond 200 feet in places to pick up outlying slivers of stands that otherwise fell almost entirely within that zone.							

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43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: Excluded from stand 265's 2014 YOE harvest, part designated retention and part too wet.</p>							
44	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Boundary-excluded from harvest #036-06</p>							
45	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Natural Rivers 150-foot RMZ</p>							
46	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Steep sideslope.</p>							
47	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Two needed corners could not be located during this YOE's boundary verification.</p>							
48	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This stand was partially harvested in 2012. leaving the O-WP-RP. The overmature residual oak has declined too far to sprout effectively, and the steep ground would limit cultivation options.</p>							

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49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: NE part of stand 229 that falls outside of the 200-foot RMZ. River access footpath crosses through the stand.							
50	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left when stand 56 was harvested in 2017.							
51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2024 YOE proposed treatment to harvest the portion west of the road. Consider managing the portion of the flat ground east of the road concurrent with stand 241. The remainder occupies a short steep hillside down to the lowlands.							
52	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left when stand 61 was harvested in 2017.							
53	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention associated with stand 155.							
54	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 230's 2014 YOE harvest. The NW portion also contains a flooded swale.							
55	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep sideslope							

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56	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	5E: Long-Term Retention	1	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Proposed retention for stand 12's draft treatment.							
58	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
59	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for former stand 182's 2021 harvest. The operable harvested portion was merged with stand 162. The retention and 6 additional acres that were left uncut due low ground were merged with stand 188.							
60	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 165's 2021 harvest.							
61	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Two retention islands left when stand 177 was harvested in 2021.							
62	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portions of stand 188 outside of the 200-foot RMZ. The water table is at or near the surface across much of the area.							

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63	Unavailable	3D: Recreational / Scenic values	31	2F: Too steep	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
<p>Comments: Portions of stand 283 outside of the 200-foot RMZ. There is pathway interface, some steep sidelopes, and low ground inclusions.</p>							
64	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
65	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Proposed retention for the draft harvest treatment.</p>							
66	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Retention island left when stand 153 was cut in 2021.</p>							
67	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
68	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p>Comments: Intermittent stream RMZs. Part of it is also retention left for stand 228's 2014 YOE harvest.</p>							
69	Unavailable	2A: Adjacent landowner denied access	95	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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70	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Small portion of stand 229 that falls outside of hard-factor Site Conditions</p>							
71	Unavailable	3K: Rare or unique landforms	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: MNFI-identified bog ERA.</p>							
73	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
74	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	39	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: There is some transition ground but most of this stand has ground water at or near the surface.</p>							
75	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
76	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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77	Unavailable	3D: Recreational / Scenic values	1	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This portion of the Smith Bridge BAS is on land leased from Consumers Energy for recreation access.</p>							
78	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p>Comments: Natural Rivers RMZ and Smith Bridge BAS.</p>							
79	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Lowest portion of stand 240 that was excluded from harvest.</p>							
81	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Portions of stand 167 outside of the 200-foot RMZ. The water table is at or near the surface across much of the area.</p>							
82	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Intermittent stream's 100-foot RMZ</p>							
83	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Intermittent stream's 100-foot RMZ</p>							

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84	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 228's 2014 YOE harvest.							
85	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Surrounding state land is flooded marsh.							
86	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Intermittent stream's 100-foot RMZ.							
87	Unavailable	5A: Not able to obtain desirable regeneration	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: NWC stand along the river.							
88	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream's 100-foot RMZ.							
89	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Sauger Creek's 100-foot RMZ plus to the top edge of the stream valley.							

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90	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers 150-foot RMZ and trout run 100-foot RMZ.							
91	Available	2I: Survey needed	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Corner on the stand's SE edge was not found during this YOE's boundary verification or last YOE's sale prep.							
92	Unspecified	Unspecified	0				
Comments:							
94	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stream and pond's 100-foot RMZ. The pond area changes with beaver activity.							
97	Unavailable	2A: Adjacent landowner denied access	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand was flagged as an area to address because of its basal area, not its age.							
98	Unavailable	5A: Not able to obtain desirable regeneration	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The oak has declined to the point where stump sprouting will be weak. WP is slowly filling in. Cover on the hilltop is close to being an oak-pine barrens.							
99	Unavailable	3D: Recreational / Scenic values	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: The stand was flagged as an area to address because of its age. The west sites of the Canoe Harbor Campground fall within the middle of the stand. The Mason Tract Pathway crosses through the north end and two small wetlands occur there also.							

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100	Unavailable	3D: Recreational / Scenic values	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Canoe Harbor Campground and Mason Tract Pathway. A harvest to reduce the overmature JP & NPO was carried out across most of the stand in 2008.							
101	Unavailable	5E: Long-Term Retention	1	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Long-term retention associated with stand 75's harvest.							
107	Unavailable	3D: Recreational / Scenic values	44	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: The stand has bands of marginally dry ground separated by flooded swales. The Mason Tract Pathway runs through the S1/2.							
114	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand 185 outside of the 200-foot RMZ. Aside from the transition ground edge, the water table is at or near the surface.							
117	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand 167 outside of the 200-foot RMZ. Aside from the transition ground edge, the water table is at or near the surface.							
153	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	38	5A: Not able to obtain desirable regeneration	3K: Rare or unique landforms	Unspecified	Unspecified
Comments: 5A applies to the NWC. 2G doesn't apply wall-to-wall across the stand, but the lowland-upland mosaic poses management challenges. 3K applies to the SE quarter that wraps around the bog ERA stand 203.							

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154	Unavailable	3L: Other wildlife concerns	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
155	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments: Natural Rivers 150-foot RMZ.							
156	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Portion of stand 26 outside of the RMZ that has a series of flooded swales.							
158	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep hillside above the floodplain.							
160	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream's 100-foot RMZ plus to the top of the stream valley.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	122 - Road/Parking Lot	Nonstocked	2.2		Unspecified	No	Smith Bridge Boating Access Site. This small stand encompasses one-third each of woods, water, and parking lot. The SW 0.5 acres are on land leased from Consumers Energy for recreation access (see Site Condition Layer).			
2	6124 - Lowland Spruce-Fir	Sawtimber Well	9.4	58	81-110	N/A	A groundwater-fed stream flows just within the east edge of the stand. Cover is sparser along the stream, with blowdowns common. Canopy closure is 75-100% west of the stream, starting with an upland acre of WP in the SW, then transitioning onto low ground moving north, where dense spruce cover alternates with patches of NWC.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern White Cedar	20	Log/Pole/XLog	12	129	Tag Alder	Trace	10 - 20 feet	Tall Shrub
		Red Pine	1	Log	14		Balsam Fir	Medium	Variable	Sapling
		Red Maple	5	Log/Pole	15					
		White Pine	5	Log/Pole	11					
		Quaking Aspen	3	Pole/Log	8					
		Paper Birch	1	Log	13					
		Tamarack	1	Log	14					
		Black Spruce	45	Pole/Sap/Log	7	58				
		Balsam Poplar	1	Pole	6					
		Balsam Fir	18	Pole/Sap/Log	6					
3	42290 - Natural Mixed Pine	Sawtimber Medium	20.8	61	81-110	N/A	Heavy DWD from the overmature JP and older fir breaking up, and to a lesser extent from the declining A-NPO-xlog RP. The canopy is now predominantly RP with significant WP-fir components and a minor amount of JP. Most of the JP is in the stand's S1/3. Aspen increases near stand 2. Fir & WP are filling in where the JP-fir dropped out of the canopy.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	5	Pole/Log	8		White Pine	Low	Variable	Sapling
		Balsam Fir	15	Pole/Sapling	6	59	Balsam Fir	Medium	Variable	Sapling
		White Pine	20	Pole/Log	8					
		Red Pine	50	Log/Pole/XLog	12	61				
		Jack Pine	8	Log	11	96				
		Black Cherry	1	Pole/Log	9					
		Northern Pin Oak	1	Log/Pole/XLog	13					
4	42220 - Natural Jack Pine	Sawtimber Poor	19.7	55	1-50	N/A	The stand has two age classes of JP in the canopy: mature poles with a lesser component of overmature saw scattered above. Continuing breakup in the overmature JP & NPO has dropped the canopy closure below 50% and resulted in heavy DWD. Immature poles mix in on the south edge where a wildfire burned into the stand. The NPO was chosen as a surrogate to represent the 2nd age class present in the JP. Regen is below moderate stocking but does make the canopy appear fuller.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Northern Pin Oak	10	Log/XLog	14	100	Balsam Fir	Low	Variable	Sapling
		Balsam Fir	4	Pole/Sapling	6		White Pine	Low	Variable	Sapling
		Red Pine	10	Log/Pole	12		Jack Pine	Low	Variable	Sapling
		Jack Pine	60	Pole/Log	8	55	Black Cherry	Low	Variable	Tall Shrub
		Black Cherry	1	Pole/Log/Sap	7					
		White Pine	15	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
5	42220 - Natural Jack Pine	Poletimber Medium	7.2	35	1-50	N/A	JP regenerated following a wildfire. There are scattered NPO-JP along the perimeter that survived the fire.																																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern Pin Oak</td> <td>3</td> <td>Log/XLog/Pole</td> <td>15</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>95</td> <td>Sapling/Pole</td> <td>4</td> <td>35</td> </tr> <tr> <td>White Pine</td> <td>1</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Oak</td> <td>1</td> <td>Log</td> <td>13</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern Pin Oak	3	Log/XLog/Pole	15		Jack Pine	95	Sapling/Pole	4	35	White Pine	1	Pole	7		White Oak	1	Log	13		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Trace</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Trace	Variable	Tall Shrub																						
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6	42220 - Natural Jack Pine	Poletimber Poor	44.4	60	1-50	N/A	The stand has two age classes of JP in the canopy: mature poles (around 60 years old) with a lesser component of overmature saw (100+ years old) scattered above. The proportion in poles vs saw varies across the stand. NPO-WP increases toward the east side. Continuing breakup in the overmature JP & NPO has dropped the canopy closure below 50% across much of the stand and resulted in heavy DWD. Immature poles mix in on the north & center-west edges where a wildfire burned into the stand. Regen is below moderate stocking but does make the canopy appear fuller.																																																			
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7	3302 - Low Density Conifer Trees	Nonstocked	2.1	0	Unspecified	No	Originally part of stand 6, this upland opening was created after trees were helicopter-lifted and placed in the South Branch of the AuSable River for fish habitat improvement in August 2013 (F72-726). JP established on the disturbed ground.																																																			
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8	6122 - Black Spruce	Poletimber Medium	15.0	64	81-110	N/A	Dense S6 cover alternates with P/Q4 over L3/N. Perennial stream flows through the stand. Lowland ground but not as saturated as expected, even under the L3/N. Carried forward previous inventory age on the fir to represent the secondary older age class present in both the fir and the spruce. Aspen age also from previous inventory.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
9	4319 - Mixed Upland Forest	Poletimber Well	11.8	61	81-110	N/A	Stand occupies a hillside -- some of it very steep -- that ends at the swamp. Canopy is starting to open up as the overmature aspen drops out. WP and fir are filling in. NPO second age estimate drawn from adjacent stand 6's current NPO age.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		3	Pole/Log	7		White Pine		
Bigtooth Aspen		5	Log/Pole	14		Black Cherry		
Quaking Aspen		10	Log/Pole	11	67	Balsam Fir		
Jack Pine		4	Pole/Log	8				
White Oak		5	Log/Pole	11				
White Pine		40	Pole/Log	8	61			
Northern Pin Oak		10	Log/XLog	13	110			
Black Cherry		1	Pole	7				
Balsam Fir		10	Pole/Sapling	7				
Red Maple		10	Pole/Log	8				
Red Pine		2	Log/Pole/XLog	12				
10	4132 - Aspen, Jack Pine	Sawtimber Well	10.7	72	81-110	N/A		Most of this stand was set up and sold in 1987 (#062-87), but the contract was cancelled before being opened because the adjacent landowner retracted their access permission. 2024 YOE only walked the edge when locating survey corners.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		60	Log/Pole	12	72	White Pine		
Jack Pine		20	Pole/Log	8		Black Cherry		
Red Pine		20	Log/Pole/XLog	12				
11	42110 - Planted Red Pine	Poletimber Well	2.7	54	141-170	N/A	RP was planted around residual NPO & RP. JP volunteers established with the planted RP. The NPO is dying and damaging the RP as it deadfalls. JP snags common also. Row spacing is variable from swerving around residual, and is less than 6-foot in places. A couple rows planted on the north side of the road were merged with stand 12.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		85	Pole/Sap/Log	7	54	Red Pine		
Jack Pine		4	Pole/Log	8		Balsam Fir		
White Pine		1	Pole/Sapling	7				
Northern Pin Oak		10	Log/Pole	12	97			
12	42220 - Natural Jack Pine	Poletimber Medium	13.4	58	51-80	N/A	The stand has two age classes of JP in the canopy: mature poles (around 60 years old) with a lesser component of overmature saw (around 100 years old) scattered above. The proportion in pole vs saw JP varies across the stand. Continuing breakup in the overmature JP & NPO has resulted in heavy DWD and snags. WP-Fir increases on the steep hill on the NW edge, 75-100% canopy closure there. A two-acre patch in the middle of the stand has dropped down to 25-50% closure. Two rows of RP were planted along part of the road.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		5	Log/Pole	11		Jack Pine		
Northern Pin Oak		15	Log/Pole/XLog	12	100	White Pine		
White Pine		15	Pole/Log	8		Black Cherry		
Balsam Fir		4	Pole	6		Balsam Fir		
White Oak		1	Pole/Sap/Log	8				
Jack Pine		60	Pole/Log	8	58			



Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

13 6124 - Lowland Spruce-Fir Poletimber Medium 25.7 60 51-80 N/A

Variable lowland stand with L3 & marsh inclusions. Cover changes every couple acres. Windthrow common in the aspen and older fir. Black ash died out on the lowest ground along the river, leaving traces of basswood there. Drier ground in the SE has more WP, including a couple dozen xlog stems. NWC mostly in the N1/2. Carried forward the previous inventory age on the fir to represent the secondary older age class still present in both the fir and spruce.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	30	Pole/Sapling	6	89	Black Spruce	Low	Variable	Sapling
Black Spruce	30	Pole	7	60	Tag Alder	Medium	Variable	Tall Shrub
Northern White Cedar	10	Log/Pole/XLog	12	134	Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	10	Log/Pole/XLog	15					
Paper Birch	1	Pole	5					
Balsam Poplar	1	Log/Pole	11					
Quaking Aspen	14	Log/Pole	10					
Red Maple	4	Pole	8					

14 6127 - Lowland Pine Poletimber Well 7.2 61 111-140 N/A

The stand starts out on lowland ground in the north, gradually transitions onto ground with only a seasonal high water table, and ends on a dry ridge where the road crosses. Windthrow is common in the aspen. Fir is increasing on the lowest ground, and WP has become dominant on the drier ground. Overmature JP mixes in near the road.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	6		Musclewood/Hornbeam	Trace	10 - 20 feet	Tall Shrub
White Pine	60	Pole/Log	9	61	Balsam Fir	Medium	Variable	Sapling
Red Pine	1	Log/XLog	16		Tag Alder	Trace	10 - 20 feet	Tall Shrub
Jack Pine	3	Log	12					
Quaking Aspen	14	Log/Pole	10					
Black Spruce	2	Pole	7					
Red Maple	5	Pole/Log	8					

15 122 - Road/Parking Lot Nonstocked 4.8 Unspecified No

Cleared highway and county road corridors.

16 42200 - Natural White Pine Poletimber Well 3.8 62 111-140 N/A

A handful of xlog WP seeded in the majority pole cover. Windthrow is common in the aspen. In addition to the listed canopy records, there are traces of NPO, RM & RP. The stand picks up low ground along the NW edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Black Spruce	2	Pole/Log	8		White Pine	Low	Variable	Sapling
Jack Pine	5	Log/Pole	12					
Black Cherry	1	Pole/Log	8					
White Pine	85	Pole/Log	9	62				
Balsam Fir	2	Pole/Sap/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
17	42250 - Pine, Oak	Sawtimber Poor	5.2	99	1-50	N/A	Widespread mortality in the overmature JP & NPO has resulted in heavy DWD and snags, dropping the canopy closure below 50%. The east end of the stand, down the hill, has 50-75% closure and younger JP pole cover. WP & WO also increase there, and the few BTA occur in the SE.																																																																						
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19	42110 - Planted Red Pine	Poletimber Well	7.7	50	81-110	N/A	Middle third of the stand has fairly intact RP plantation with JP volunteers. W1/3 has overmature JP and interplanted RP. East of road has overmature JP, scattered RP-WP, and most of the NPO. Windthrow on the west edge. Increasing LWD.																																																																						
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20	6112 - Lowland Aspen	Sawtimber Medium	25.3	87	51-80	N/A	Aside from the steep hill in the NW by the RP plantation, the stand is on alternating bands of low and transition ground. LWD is building as the overmature aspen breaks up; WP-RM are filling in. Patches of windthrow. There doesn't appear to have been a uniform regen event for the aspen (cored mid-50's in S1/2), but carried forward the previous inventory age to reflect the stand's broadly 2-aged condition. Traces of oak on the steep hillside and traces of basswood along the river. There is log WP present, but due to a MiFI limitation, couldn't split the size class and still list the xlog as a separate canopy record.																																																																						
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23	320 - Upland Shrub	Nonstocked	2.4	0	Unspecified	4211 - Planted Red Pine	Stand was final harvested in 2019 (#032-14). A variance to allow roller chopping, herbicide, and trenching next steps for the planted RP M.O. was passed June 2020. FRD trenched Sept 2021 (C72-886).																																																																						
24	122 - Road/Parking Lot	Nonstocked	2.7	0	Unspecified	No	Chase Bridge Road and Boating Access Site.																																																																						
25	500 - Water	Nonstocked	6.9	0	Unspecified	No	South Branch of the AuSable, a designated Natural River.																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
26	4133 - Aspen, Mixed Pine	Poletimber Medium	20.3	48	81-110	N/A	Aspen-WP on the flats and partially up the hillside. The aspen didn't have a uniform regen event. The overmature component is breaking up. Windthrow and beaver cutting are also reducing the aspen. WP is filling in. There is low ground along the river and flooded swales interior in the SW. Previous inventory aspen age 48 yrs; aspen cored in the SE was 41 yrs.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		65	Pole/Log	8	48	White Pine	Low	Variable	Sapling
White Pine		25	Pole/Log	9		Musclewood/Hornbeam	Trace	10 - 20 feet	Tall Shrub
Northern Pin Oak		1	Log/Pole/XLog	13		Black Cherry	Medium	Variable	Tall Shrub
Jack Pine		4	Pole/Log	8		Quaking Aspen	Low	5 - 10 feet	Sapling
Red Pine		5	Log/Pole	15		Tag Alder	Low	10 - 20 feet	Tall Shrub
						Red Pine	Low	Variable	Sapling
27	4310 - Pine, Oak Mix	Sawtimber Poor	13.2	98	1-50	N/A	NPO-pine stand on the hilltop and steep sideslope. Cover is 50-75% on the hillside (a third of the stand) and almost an oak-pine barrens on the hilltop. Poor quality NPO is breaking up. WP is slowly filling in. Carried forward the previous inventory WP age.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern Pin Oak		50	Log/Pole/XLog	13	98	White Pine	Low	Variable	Sapling
White Pine		35	Pole/Log	8	45	Black Cherry	Medium	Variable	Tall Shrub
Red Pine		5	Log/Pole	12					
Jack Pine		5	Log/Pole	10					
White Oak		1	Log/Pole	11					
Quaking Aspen		3	Pole	8					
Bigtooth Aspen		1	Pole	8					
28	429 - Mixed Upland Conifers	Sawtimber Medium	13.7	65	51-80	N/A	Variable stand on the steep side-slopes and flats by the river. A fishing access site parking lot and stairs are located in the stand. The former Truettner lodge site is in an opening to the NW. A bridge once spanned the river by the lodge. East of the river there is an old wooden bridge that crosses what was noted as a trout run. Three patches of RP were planted on the hillsides above the river, along with traces of Scotch pine and Austrian pine. The aspen on the flats is breaking up and being cut by beaver. Dense patches of tag alder flank the river and trout run. Carried forward the previous inventory ages.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		25	Log/Pole/XLog	12	89	Hawthorn (spp.)	Low	Variable	Tall Shrub
Black Cherry		2	Pole	8		Black Cherry	Low	Variable	Tall Shrub
Black Spruce		10	Pole/Log/Sap	7		Scotch Pine	Trace	10 - 20 feet	Sapling
Red Maple		1	Log/Pole	10		White Pine	Medium	Variable	Sapling
Scotch Pine		2	Log/Pole	11		Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine		20	XLog/Log/Pole	22					
Jack Pine		5	Pole/Log	8					
Quaking Aspen		25	Log/Pole	10	65				
Northern Pin Oak		2	Pole/Log/Sap	7					
Balsam Fir		5	Pole	7					
Northern White Cedar		2	Log	15					
Paper Birch		1	Log/Pole	12					
29	330 - Low-Density Trees	Nonstocked	24.9	0	Unspecified	4211 - Planted Red Pine	Trees from a 3 acre patch in the stand's south end had been helicopter lifted for in-stream placement in the South Branch of the AuSable River in 2013 to improve fish habitat (F72-726). Mixed pine-oak cover was final harvested in 2019 (#045-17) except for scattered RP in the W1/2 (stated cruised residual 7 sq. ft.). FRD trenched April 2022 (C72-892), excluding the steep slope above the road in the SE (shifted to stand 51). The aspen regen is in the stand's NE.		
Sub-Canopy Species		Density	Avg. Height	Size					
Black Cherry		Low	5 - 10 feet	Tall Shrub					
Bigtooth Aspen		Low	5 - 10 feet	Sapling					
Red Pine		Low	>20 feet	Log					
Quaking Aspen		Low	5 - 10 feet	Sapling					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
30	42220 - Natural Jack Pine	Poletimber Medium	89.9	47	1-50	N/A	An overstory removal harvest was carried out across most of the stand in 2007 (#038-06), cutting merch stems except for in the NW end. The advanced JP regen that was released by the harvest is now small pole in size and forms the main canopy, along with residual RP (increases in the west), and NPO (increases in the NE). While merch RP-O were spec'd to cut, a fair amount of it was left. The understory is JP regen from the cut that established in skid trails. Canopy closure drifts off either side of 50-75%, with LDT or regen-dominated inclusions. In the uncut NW 8 acres, the overmature JP has largely died out, releasing advanced regen of the same cohort as the harvest-released JP cover.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		12	Pole/Log	9		Black Cherry		Low	Variable	Tall Shrub	
Jack Pine		80	Pole	6	47	Jack Pine		Low	5 - 10 feet	Sapling	
White Pine		2	Pole/Sap/Log	7							
Black Cherry		1	Pole	6							
Northern Pin Oak		5	Pole/Sapling	6							
31	42220 - Natural Jack Pine	Poletimber Poor	15.5	60	1-50	N/A	Patchy two-aged JP stand dotted with grassy openings. Most of the JP is mature (around 60 yrs old), and there is a lesser overmature component (previous inventory age 81 yrs) that has been breaking up. Small patches of dense JP regen. WP regen is mainly in the north end. Pine barrens plants were encountered during past and current inventories.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		1	Pole	8		White Pine		Trace	5 - 10 feet	Sapling	
Red Pine		1	Log/Pole	12		Black Cherry		Medium	Variable	Sapling	
Jack Pine		90	Pole/Log	8	60	Jack Pine		Low	10 - 20 feet	Sapling	
Black Cherry		3	Pole	6							
32	500 - Water	Nonstocked	101.9	0	Unspecified	No	South Branch of the AuSable, a designated Natural River.				
33	42110 - Planted Red Pine	Sawtimber Well	41.4	55	141-170	N/A	RP plantation on rolling terrain, with variably-distributed WP and O-RM-A pole components. Was cut and planted when in USFS ownership. RP stocking varies widely, from 100-250 BA, ave 160, but with a third of the plantation 200-250 BA. Form is good where plantation stocking held up and poor (high taper and heavy-limbed) where it didn't. Rows are discontinuous. An acre of the plantation that was planted under mature oak was merged into the adjacent stand 35.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		3	Pole/Sapling	6		Black Cherry		Low	< 5 feet	Tall Shrub	
Northern Pin Oak		4	Pole/Sapling	6		Witch Hazel		Low	10 - 20 feet	Tall Shrub	
Bigtooth Aspen		3	Pole/Sap/Log	7							
Jack Pine		1	Pole	7							
Red Pine		75	Log/Pole	10	55						
Quaking Aspen		3	Pole	7							
White Oak		1	Pole	6							
White Pine		10	Log/Pole	12							
34	42110 - Planted Red Pine	Poletimber Well	14.7	55	111-140	N/A	RP was interplanted around NPO and JP when in USFS ownership. The JP is mainly along the road and is dying out. The NPO is dropping out of the canopy also. Planted RP residual ranged from 30-190 sq ft, ave 110 overall, ave 140 where stocking held up. Decent form, slow recent growth. Rows are discontinuous and row spacing is variable.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		1	Pole/Log	9		Red Pine		Trace	Variable	Sapling	
Northern Pin Oak		10	Log/Pole	11		Northern Pin Oak		Low	Variable	Sapling	
White Oak		1	Log/Pole	12							
White Pine		1	Log	10							
Red Maple		2	Pole/Log/Sap	7							
Red Pine		75	Pole/Log	8	55						
Jack Pine		10	Pole/Log	9	90						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
35	4130 - Aspen	Poletimber Well	19.1	58	81-110	N/A	The stand didn't have a uniform regen event. A-RM were cut across most of the stand when in USFS ownership. There is a second age class of residual oak & RM saw. The stand has scattered naturally established RP and picks up pockets of interplanted RP that extend from stand 33's plantation.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Log/Pole	10		White Pine		
White Oak		1	Log	15		Red Pine		
Red Maple		15	Pole/Sap/Log	6		Witch Hazel		
Black Cherry		1	Pole	7				
Red Oak		1	Log/XLog	15				
Red Pine		7	Log/Pole/XLog	12				
Northern Pin Oak		14	Log/XLog	14	108			
Bigtooth Aspen		50	Pole/Log	8	58			
White Pine		1	Pole/Log	9				
36	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	6.7	51	51-80	N/A		Small mixed stand flanking the road. WP with A-O and overmature JP. Carried forward the previous inventory JP age.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		50	Pole	7	51	Quaking Aspen		
Red Pine		5	Log/Pole	12				
Jack Pine		10	Log/Pole	10	80			
Black Cherry		3	Pole	5				
Red Maple		2	Pole	6				
Quaking Aspen		20	Pole	6	37			
Northern Pin Oak		10	Pole/Log/Sap	7				
37	4130 - Aspen	Sapling Well	2.4	25	Immature	N/A	Mature aspen clone was final harvested in 1997 (#071-94), cutting stems 2"+ DBH. Regenerated well to A-RM with perimeter WP.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		70	Sapling/Pole	3	25	White Pine		
Red Maple		15	Sapling	2	25			
White Pine		15	Sapling/Pole	3				
38	310 - Herbaceous Openland	Nonstocked	5.3	0	Unspecified	4211 - Planted Red Pine	RP plantation was final harvested with no retention by early 2018 (#060-15). Was trenched in 2018 (C72-847). Planted 1000 TPA PRT RP in May 2021. Oct 2021 Yr 1 survey: 867 TPA, 92% FTG, 12% mortality. Patches of RM regen in the north side. RP volunteers establishing in the south edge.	
Sub-Canopy Species		Density	Avg. Height	Size				
Black Cherry		Trace	5 - 10 feet	Tall Shrub				
Red Maple		Low	< 5 feet	Sapling				
Red Pine		Low	< 5 feet	Seeding				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
39	4310 - Pine, Oak Mix	Sawtimber Poor	24.4	102	1-50	N/A	Oak-pine stand was shelterwood harvested in 2012 (#022-07), cutting merch stems except RP-WP & green-marked oak (stated cruised residual BA of 15 oak & 15 RP-WP, which included stand 49 also). The residual oak-pine canopy drifts off either side of 25% closure, above moderate-to-full stocking in A-O-RM-pine regen. The stump-sprout oak has recruited. 2nd age estimate drawn from stand 49's current RP age. The overmature NPO continues to break up.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		1	Pole/Sapling	5		Northern Pin Oak		Low	5 - 10 feet	Sapling	
Northern Pin Oak		40	Log/XLog/Pole	13	102	White Pine		Trace	< 5 feet	Seeding	
Red Pine		35	Log/Pole/XLog	13	65	White Oak		Low	Variable	Sapling	
Jack Pine		5	Pole	6		Jack Pine		Trace	< 5 feet	Sapling	
White Pine		9	Log/Pole	11		Bigtooth Aspen		Medium	10 - 20 feet	Sapling	
White Oak		10	Log/Pole/XLog	11		Red Maple		Low	10 - 20 feet	Sapling	
						Red Pine		Low	Variable	Sapling	
						Northern Pin Oak		Low	< 5 feet	Seeding	
40	122 - Road/Parking Lot	Nonstocked	6.2		Unspecified	No		Cleared highway corridor.			
41	4131 - Aspen, Oak	Poletimber Medium	3.1	55	51-80	N/A	The stand was cut along with stand 33 when in USFS ownership but not planted. Has a couple aspen clones and O-RM regen from the cut, along with scattered pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		20	Pole/Sapling	7		Black Cherry		Low	Variable	Tall Shrub	
Jack Pine		2	Pole	6		White Pine		Low	Variable	Sapling	
Black Cherry		1	Pole	6							
Red Maple		20	Pole/Sapling	7							
Red Pine		3	Log/XLog/Pole	16							
Bigtooth Aspen		50	Pole/Log	8	55						
White Pine		4	Log/XLog/Pole	16							
43	42220 - Natural Jack Pine	Poletimber Poor	96.5	48	1-50	N/A		An overstory removal harvest was carried out in 2010 (#023-07), cutting merch JP except for around the Mason Tract Pathway parking lot and between Beaman Valley Road and the river. The advanced JP regen that was released by the harvest is now P-S in size and forms the main canopy, along with residual RP (increases in the NW), and oak-WP (increases in the east). The understory is JP regen from the cut that established in skid trails. There are concrete slab foundations and some piping in a former building site off Brook Trout Lane.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
White Oak		1	Pole/Log	8		Jack Pine			Medium	5 - 10 feet	Sapling
Northern Pin Oak		3	Pole/Log/XLog	8		Black Cherry			Low	Variable	Tall Shrub
White Pine		3	Pole/Log/Sap	8		Northern Pin Oak			Trace	Variable	Sapling
Red Pine		3	Log/Pole	12		Jack Pine			Trace	< 5 feet	Seeding
Jack Pine		90	Pole/Sapling	6	48						



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44	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	25.7	55	111-140	N/A	RP was interplanted through O-A-JP when in USFS ownership. The overmature NPO, JP and aspen continues to drop out of the canopy. The planted RP distribution is patchy, and stem development varies with the level of deciduous competition.																																																											
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45	42110 - Planted Red Pine	Sawtimber Well	32.0	80	111-140	N/A	RP plantation was free-thinned in 2018 (#060-15), cutting marked stems (stated cruised residual 110 sq ft). Was previously thinned in 2007 (#043-04), and 1995 (#002-95, middle third of stand only). On gently rolling terrain. Plantation is uniform, with good LCR (25-30%), and clean boles. Excluding roads and marked-out forwarder routes, ave 130 sq. ft. (range 110-160). NPO is dropping out of the canopy.																																																											
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46	6130 - Fir, Aspen, Maple	Poletimber Well	5.9	85	81-110	N/A	This portion of stand 265 was excluded from harvest due to low ground. Varying mix of spruce-fir and RM-A, with RP-WP and traces of NWC. Standing water and overland flow to the SW. Windthrow along recent harvest boundary.																																																											
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47	4126 - White, Black, N. Pin Oak	Poletimber Poor	5.9	35	1-50	N/A	Was an overmature JP plantation established when in USFS ownership. Merch stems except O-RP-WP were cut in 2012 (#022-07), releasing the advanced O-RM understory. That cover is now the canopy, with regen from the cut below. That regen will likely be recordable in the canopy next YOE.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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49	42210 - Natural Red Pine	Sawtimber Medium	16.1	65	51-80	N/A	Oak-pine stand was shelterwood harvested in 2012 (#022-07), cutting merch stems except RP-WP & green-marked oak (stated cruised residual BA: 15 oak, 15 RP-WP), and an island of JP (1.5 ac). Stand 49 was originally part of stand 39; this portion was split off due to heavier residual cover, but there isn't a bright line between the two stands. Scattered xlog legacy trees seeded in the majority RP cover. The uncut 1.5 ac island near the SW end has overmature JP that is dropping out of the canopy. 2nd age estimate on the oak was drawn from stand 39's current oak age. The stump-origin oak regen has recruited.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		80	Log/Pole	11	65	Northern Pin Oak		Low	5 - 10 feet	Sapling	
White Oak		4	Log	14		Red Pine		Trace	Variable	Sapling	
Jack Pine		4	Log	11		White Oak		Low	Variable	Sapling	
Red Maple		1	Pole/Sapling	6		Red Pine		Trace	< 5 feet	Seeding	
Bigtooth Aspen		1	Pole	6		Red Maple		Trace	10 - 20 feet	Sapling	
White Pine		5	Pole/Log	8							
Northern Pin Oak		5	Log/Pole	11	102						

50	42290 - Natural Mixed Pine	Sawtimber Well	36.4	68	111-140	N/A	Aside from a half-acre of failed RP plantation in the NW corner, the stand's RP was naturally-established from the scattered xlog legacy RP. On rolling terrain. NPO increases on the hilltops, along with some better quality BRO in the NW. JP increases on the lower slopes. The overmature JP-NPO-A are dropping out of the canopy; LWD building as they break up. RP distribution varies with the legacy seed source location.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black/Red (Hybrid) Oak		3	Log/XLog	14		Northern Pin Oak		Trace	Variable	Sapling	
Northern Pin Oak		20	Log/Pole	11	108	Red Pine		Low	Variable	Sapling	
White Oak		2	Log/Pole	11							
Jack Pine		10	Log/Pole	11							
White Pine		3	Pole/Log	8							
Red Pine		58	Log/Pole	11	68						
Red Maple		2	Pole/Sap/Log	7							
Bigtooth Aspen		2	Log/Pole	11							

51	3301 - Low Density Deciduous Trees	Nonstocked	110.1	0	Unspecified	4122 - Oak, Pine	Mature oak-pine stand on rolling terrain was final harvested in 2020 (#045-17), cutting stems 2"+ DBH except xlog RP-WP and island retention. Most of the cut oak stumps didn't sprout. The few that did sprout either fizzled out in the first year or have been heavily browsed. Browse has also kept most of the RM & BTA below 5' tall. Perimeter QA doing the best.
Sub-Canopy Species		Density	Avg. Height	Size			
White Oak		Trace	>20 feet	Log			
Quaking Aspen		Low	5 - 10 feet	Sapling			
Black/Red (Hybrid) Oak		Trace	>20 feet	Log			
Black Cherry		Low	5 - 10 feet	Tall Shrub			
Red Pine		Trace	>20 feet	Log			
Bigtooth Aspen		Low	< 5 feet	Sapling			
White Pine		Low	>20 feet	Log			
White Pine		Trace	Variable	Sapling			
Red Maple		Low	< 5 feet	Seeding			

52	42110 - Planted Red Pine	Sawtimber Well	13.4	80	171-200	N/A	RP plantation was thinned in 2007 (#043-04) and 1995 (#002-95). RP has good form. NPO has largely died out. On rolling terrain. This 80 year old RP plantation is a good candidate for extended rotation and additional thinnings: it is healthy, has good form and LCR, and is relatively small diameter for its age.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern Pin Oak		1	Pole/Log/Sap	6		Red Maple		Medium	5 - 10 feet	Sapling	
White Oak		1	Log/XLog/Pole	15		White Oak		Medium	5 - 10 feet	Sapling	
Red Pine		98	Log/Pole	11	80	Northern Pin Oak		Low	5 - 10 feet	Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
53	42260 - Natural Pine, Mixed Deciduous	Sawtimber Poor	25.8	83	1-50	N/A	This stand contains most of the Canoe Harbor State Forest Campground. A shelterwood harvest was carried out across the S & W 15 acres in 2008 (#044-06), cutting merch stems except RP, WP, & green-marked (ave cruised residual 35 sq. ft. RP-WP-JP-O), and retention islands along the Mason Tract Pathway. The harvested portion has high coverage in oak-pine regen that makes the canopy appear fuller. There are scattered overmature NPO but most of the canopy oak is pole-sized (NPO previous inventory age 101 yrs). Canopy closure ranges from LDT to 50-75%. Traces of low ground with grey dogwood, aspen & paper birch.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	40	Log/Pole	10	83	Black Cherry	Low		Variable	Tall Shrub
White Pine	5	Pole/Log/Sap	7		White Pine	Low		Variable	Sapling
Red Maple	2	Pole/Log/Sap	6		Jack Pine	Low		5 - 10 feet	Sapling
Black Cherry	3	Pole/Log	7		White Oak	Medium		Variable	Sapling
Northern Pin Oak	15	Pole	6	42	Northern Pin Oak	Medium		5 - 10 feet	Sapling
Red Pine	25	Log/Pole/XLog	14		Red Pine	Low		5 - 10 feet	Sapling
White Oak	10	Pole/Log/Sap	6						
54	42210 - Natural Red Pine	Sawtimber Well	15.9	74	81-110	N/A		A removal harvest was carried out in 1987 (#074-86), cutting stems 2"+ DBH except unmarked RP and green-marked oak. The canopy is a mosaic of RP-WP residual and A-O-RM regen from the cut. The RP established naturally from scattered legacy trees. There is a trace of overmature JP along the north edge. On rolling terrain.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Northern Pin Oak	5	Pole/Sapling	6	35	White Oak	Low	Variable		Sapling
Red Pine	65	Log/Pole/XLog	13	74	Northern Pin Oak	Low	Variable		Sapling
Quaking Aspen	1	Sapling/Pole	4	35					
Bigtooth Aspen	7	Pole/Sapling	5	35					
White Oak	1	Pole/Sapling	6						
White Pine	15	Log/Pole	12						
Jack Pine	1	Log	10						
Red Maple	5	Pole/Sapling	5	35					
55	6220 - Alder/willow	Nonstocked	2.3	0	Unspecified	No	Used to be an E-type before the ash died out. Tag alder with nannyberry, hawthorn, black cherry, zanthoxylum, scattered basswood and fir.		
56	4130 - Aspen	Sapling Poor	25.8	5	Immature	N/A	Overmature NPO stand with A-MC components was final harvested in 2017 (#030-15), cutting stems 2"+ DBH except boundary-excluded retention (merged into adjacent stands, see Site Condition layer). Regen is a mosaic of dense aspen clones and sparser O-BC cover. The oak stump-sprouts have recruited. The single-stem oak is browsed low. RP is establishing along the plantation edge. JP-WP are seeding in elsewhere. The stand is on rolling to steep terrain. Good DWD in heavy oak top piles.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	2	Sapling	1		Witch Hazel	Trace		10 - 20 feet	Tall Shrub
Red Maple	10	Sapling	1	5	Jack Pine	Trace		< 5 feet	Seeding
White Oak	1	Sapling	1	5	Northern Pin Oak	Low		< 5 feet	Seeding
Bigtooth Aspen	60	Sapling	1	5	Red Pine	Trace		< 5 feet	Seeding
Black Cherry	10	Sapling	1	5					
Red Pine	2	Sapling	1						
Northern Pin Oak	15	Sapling	1	5					
57	310 - Herbaceous Openland	Nonstocked	93.5	0	Unspecified	4211 - Planted Red Pine		Overmature JP stand was final harvested in 2019 (#032-14), cutting stems 2"+ DBH except island retention. A variance to allow roller chopping, herbicide, and trenching next steps for the planted RP M.O. was passed June 2020. FRD trenched Sept 2021 (C72-886). NPO regen increases in the W, WP in the SE, and JP in the NE. Sapling cover locally reaches LDT levels but not on ave across the stand. Site prep herbicided Aug 2022.	
Sub-Canopy Species	Density	Avg. Height	Size						
Black Cherry	Low	5 - 10 feet	Tall Shrub						
White Pine	Trace	5 - 10 feet	Sapling						
Jack Pine	Low	5 - 10 feet	Sapling						
Northern Pin Oak	Low	< 5 feet	Sapling						
Jack Pine	Low	>20 feet	Pole						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 42141 - Planted Mixed Pine, Mixed Deciduous Poletimber Well 12.4 35 81-110 N/A

Overmature JP stand was final harvested in 1987 (#074-86), cutting stems 2"+ DBH except unmarked RP and green-marked oak. Some WP was also left. RP was inter-planted in 1987. The stocky residual RP-WP is unevenly distributed in a "supercanopy" layer above the main canopy of planted RP and O-A regen from the cut. The aspen is in a one-acre clone along the road. If the MiFI app error were fixed, the residual RP record would be listed as 16" DBH Log/XLog.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	15	XLog	18	85
Northern Pin Oak	5	Pole/Sap/Log	5	
Black Cherry	4	Pole	5	
Jack Pine	3	Pole	6	
White Pine	5	Log/Pole	15	
Red Pine	55	Pole	7	35
Red Maple	1	Pole/Sapling	6	
White Oak	1	Pole/Sap/Log	6	
Quaking Aspen	10	Pole/Sapling	5	35

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	5 - 10 feet	Sapling
Northern Pin Oak	Low	10 - 20 feet	Sapling
Jack Pine	Low	< 5 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Black Cherry	Low	Variable	Tall Shrub

60 42210 - Natural Red Pine Sawtimber Well 14.7 94 81-110 N/A

Naturally established RP-JP stand with interplanted JP-RP. The JP canopy record was chosen to represent that 2nd age class of planted JP & RP. Two low-ground inclusions in the NW: a black spruce bog and a small leatherleaf bog. The stand's middle picks up the east end of the Canoe Harbor Campground. Mason Tract Pathway crosses through.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Pole/Log	8	
Northern Pin Oak	1	Log/XLog	13	
Quaking Aspen	1	Pole	7	
Black Spruce	5	Pole	7	
Red Pine	75	Log/Pole/XLog	15	94
Jack Pine	13	Log/Pole	10	74

Sub-Canopy Species	Density	Avg. Height	Size
White Oak	Trace	Variable	Sapling
Northern Pin Oak	Trace	5 - 10 feet	Sapling
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Spruce	Trace	Variable	Sapling

61 4130 - Aspen Sapling Well 34.6 5 Immature N/A

Variance to herbicide barberry within the compartment was approved in 2012. Japanese barberry was sprayed annually in the stand's south 5 acres in 2012-2017 (C72-711). The 2014 spraying extended to include a majority of the stand. The mature aspen stand & 4 acres of RP plantation were final harvested in 2017 (#030-15), cutting stems 2"+ DBH except boundary-excluded retention (kept w/in the stand, see Site Condition layer). Regen passed at re-inventory to full stocking in A-RM, with a 1.5 acre LDT inclusion where the small RP plantation was cut. Locally high cover in barberry, averages to low overall.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	3	Log	10	
Bigtooth Aspen	1	Log	10	
Red Maple	5	Sapling	1	5
Black Cherry	5	Sapling	1	5
Quaking Aspen	66	Sapling	1	5
Bigtooth Aspen	20	Sapling	1	5

Sub-Canopy Species	Density	Avg. Height	Size
Japanese Barberry	Low	< 5 feet	Tall Shrub

62 4130 - Aspen Sapling Well 4.5 26 Immature N/A

Mature aspen clones were final harvested in 1996 (#004-95), cutting stems 2"+ DBH. Regenerated well to aspen. Most of the BTA is in the east poly.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling/Pole	3	26
White Pine	3	Pole/Sapling	6	
Black Cherry	2	Sapling	3	
Northern Pin Oak	1	Sapling/Pole	3	
Bigtooth Aspen	30	Sapling/Pole	3	26
Red Maple	14	Sapling/Pole	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Cherry	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4122 - Oak, Pine	Sawtimber Poor	10.2	102	1-50	N/A	Merch stems except O-RP-WP were cut in 2012 (#022-07), cruised residual 30 BA oak, 10 BA RP. Stand occupies a steep hill with some flat ground. LWD building as the NPO continues to break up. 2nd age estimate based off stand 64's current RP age.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Northern Pin Oak	50	Log/Pole/XLog	12	102	Bigtooth Aspen	Low		10 - 20 feet	Sapling
White Pine	5	Log/Pole	10		Red Maple	Trace		Variable	Sapling
White Oak	10	Log/Pole	12		Northern Pin Oak	Low		Variable	Sapling
Red Maple	5	Pole/Sapling	6		Red Pine	Low		Variable	Sapling
Red Pine	30	Log/Pole	12	75	White Oak	Low		Variable	Sapling
					Black Cherry	Low	5 - 10 feet	Tall Shrub	
64	4310 - Pine, Oak Mix	Sawtimber Well	26.5	73	81-110	N/A	Variable pine-oak stand occupies a moderate slope above South Branch Road and a steep slope in the NE peninsula. The RP-WP established naturally from a handful of xlog legacy trees. Aspen occurs in small patches. The overmature JP-NPO-A is dropping out of the canopy; LWD is building as those components break up.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	10	Log/Pole	11		Red Pine	Low		Variable	Sapling
Bigtooth Aspen	13	Log/Pole	11		White Pine	Medium		Variable	Sapling
Red Maple	1	Pole/Log/Sap	7						
White Oak	15	Log/Pole/XLog	12	108					
Northern Pin Oak	13	Log/Pole/XLog	11						
White Pine	13	Pole/Log	8						
Red Pine	35	Log/Pole	11	73					
65	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	84.3	50	81-110	N/A	Variable stand along the river and its tributaries. Cover changes every few hundred feet and with slope position. There are inclusions of low ground along the streams and on the South Branch AuSable floodplain but the stand is on majority upland ground, including some very steep slopes above the river. The overmature aspen has been dropping out of the canopy. Balsam fir and WP have been filling in, so the majority cover is relatively young and pole-sized, with mature-overmature log-xlog aspen and pine scattered above. Japanese barberry occurs widely-scattered and in small concentrated patches.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	5	Pole/Log	8		Hawthorn (spp.)	Low		5 - 10 feet	Tall Shrub
White Pine	10	Pole/Log/XLog	8		White Pine	Low		Variable	Sapling
Paper Birch	1	Pole/Log	8		Japanese Barberry	Trace		< 5 feet	Tall Shrub
Basswood	1	Log	15		Balsam Fir	Medium		Variable	Sapling
Quaking Aspen	15	Log/Pole/XLog	12	85	Tag Alder	Trace		10 - 20 feet	Tall Shrub
Tamarack	5	Pole/Log/Sap	7						
Bigtooth Aspen	5	Log/XLog	15						
Balsam Poplar	1	Pole/Log	8						
Balsam Fir	45	Pole	6	50					
Red Pine	2	Log/XLog/Pole	14						
Northern White Cedar	5	Pole/Log	9	130					
Black Spruce	5	Pole/Log	8						
66	42110 - Planted Red Pine	Poletimber Well	3.2	50	141-170	N/A	Small RP plantation with a few rows on the north side of South Branch Road. The plantation edge trees are better developed but the interior is majority pole-sized. Was planted around pockets of JP-NPO. Discontinuous rows near the river from a 1957 planting were merged into the adjacent riparian stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	1	Pole	6		Black Cherry	Low		Variable	Tall Shrub
Northern Pin Oak	1	Log/XLog	15						
Red Pine	90	Pole/Log	8	50					
Jack Pine	7	Log/Pole	11						
White Pine	1	Log	11						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67	4130 - Aspen	Poletimber Well	27.4	35	81-110	N/A	<p>Mature aspen stand was final harvested in 1987 (#075-86), cutting stems 2"+ DBH except islands of oak and pine. One of the oak islands is designated retention for stand 56's 2017 harvest (see Site Condition layer). Part of the stand's middle had been trenched & planted to JP 80 years ago (largely died out). Aspen clone development varies across the stand. Japanese Barberry was herbicided across the NW 4 acres of the stand in 2014 (C72-711) by variance approved in 2012. There is locally high cover in barberry in that area, and widely-scattered elsewhere, averaging to low overall.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	1	Pole	6		White Pine	Trace		Variable	Sapling
White Oak	2	Log/XLog	14		Witch Hazel	Trace		5 - 10 feet	Tall Shrub
Bigtooth Aspen	35	Pole/Sapling	6	35	Black Cherry	Medium		Variable	Tall Shrub
Northern Pin Oak	10	XLog/Log	18	100	Barberry	Low		< 5 feet	Tall Shrub
Red Pine	4	Log/Pole	13		Red Pine	Trace		Variable	Sapling
White Pine	3	Log	14						
Quaking Aspen	35	Pole/Sapling	6	35					
Red Maple	10	Sapling/Pole	3	35					

68	429 - Mixed Upland Conifers	Sawtimber Medium	71.2	81	51-80	N/A	<p>Long, narrow stand on the hill above the river, including some very steep slopes. There are four inclusions of low ground on the floodplain, ranging in size from 1 to 3 acres. The majority uplands have a mix of pine, oak and aspen. DWD is building as the overmature JP-A-NPO breaks up. There is a small amount of planted RP by the former Dogtown site. The stand's south end picks up part of the Downey's site. The Mason Tract Pathway runs the length of the stand. Variance to herbicide invasive plants within the compartment was approved in 2012. Spraying was done in 2015, 2016 & 2017 (C72-711) to control Japanese barberry. Additional control is still needed.</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	20	Log/Pole/XLog	12	81	Japanese Barberry	Trace		< 5 feet	Tall Shrub
Jack Pine	10	Log	12	102	Balsam Fir	Low		Variable	Sapling
Red Pine	15	Log/XLog/Pole	16		White Pine	Medium		Variable	Sapling
Red Maple	5	Log/Pole	12						
Quaking Aspen	10	Log/Pole	10						
Northern Pin Oak	15	Log/XLog/Pole	15						
Balsam Fir	15	Pole/Sapling	7						
Black Spruce	5	Pole	8						

71	42290 - Natural Mixed Pine	Poletimber Medium	9.7	40	1-50	N/A	<p>SW of stand contains the float-in portion of the Canoe Harbor Campground. Mason Tract Pathway crosses through. Cover varies from LDT to 75-100% canopy in relatively young RP-O-WP with immature to overmature JP. The youngest JP was planted in the 1980's. Open-grown form common. Traces of overmature NPO (previous inventory age 108 yrs).</p>		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	30	Log/Pole	11	40	White Pine	Low		Variable	Sapling
Red Maple	2	Pole/Sapling	6		Jack Pine	Trace		Variable	Sapling
White Oak	5	Pole	7		Black Cherry	Low		5 - 10 feet	Sapling
Northern Pin Oak	15	Pole	7	54					
White Pine	15	Pole/Log	8						
Balsam Fir	5	Pole	5						
Jack Pine	25	Pole/Log/Sap	6						
Black Cherry	3	Pole	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
72	6122 - Black Spruce	Poletimber Medium	18.4	94	81-110	N/A	Spruce-fir stand on the floodplain with aspen mixed in more toward the hillside. A small island of slightly drier ground has xlog WP. Sauger Creek flows through the stand. 2024 YOE only walked the edge when locating survey corners.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole/Log	8		Balsam Fir		Medium	10 - 20 feet	Sapling
White Pine		10	XLog	26	135	Tag Alder		Low	Variable	Tall Shrub
Balsam Fir		20	Pole/Sapling	6		Red Maple		Low	5 - 10 feet	Sapling
Black Spruce		50	Pole/Log/Sap	7	94					
Quaking Aspen		10	Log/Pole	12						
73	6220 - Alder/willow	Nonstocked	14.7	0	Unspecified	No	Except for the NE & E peninsulas, this stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH, part of the same harvest as stand 237. Beaver significantly reduced the aspen component; that and the flooding dropped the canopy into non-forested levels across much of the stand. There are expanding pockets of fir, spruce & pine on the slightly drier ground away from the creek. The creek's marsh may extend further into the west end of the stand than currently mapped (only visited this stand's east edge).			
75	429 - Mixed Upland Conifers	Poletimber Poor	10.5	46	1-50	N/A	The stand was partially-harvested in 2019 (#032-14), cutting merch O-JP-A. The stand occupies three terraces above the floodplain: the first has 50-75% cover, the middle 25-50% cover, and the top is 0-25%. The residual is relatively young RM-WP-F pole cover with minor saw components. This stand was part of FTP C72-886 along with adjacent stand 57. Stand 57 was trenched in 2021 but this stand was avoided due to the considerable amount of residual tree cover. The previous YOE planting M.O. will be re-evaluated during the 2024 YOE inventory process.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		2	Pole	5		Northern Pin Oak		Trace	< 5 feet	Sapling
Red Maple		35	Pole/Sap/Log	7	46	Hawthorn (spp.)		Trace	10 - 20 feet	Tall Shrub
White Pine		30	Pole/Log	8	52	White Pine		Low	5 - 10 feet	Sapling
Balsam Fir		25	Pole	6		Black Cherry		Low	5 - 10 feet	Tall Shrub
Black Cherry		3	Pole	6						
Red Pine		5	Log/Pole	12						
76	4133 - Aspen, Mixed Pine	Sawtimber Well	12.5	85	81-110	N/A	Most of the stand occupies a hillside, with low ground at the bottom. 2014 YOE noted a lot of dead and down, and heavy WP-Fir understory. 2024 YOE only walked the south edge when locating survey corners.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		5	Pole	7		Balsam Fir		Medium	Variable	Sapling
White Pine		20	Pole/Log/XLog	8		Black Spruce		Low	Variable	Sapling
Bigtooth Aspen		10	Log	14		White Pine		Medium	Variable	Sapling
Paper Birch		2	Log/Pole	12		Black Cherry		Low	Variable	Tall Shrub
Quaking Aspen		45	Log/Pole	14	85					
Balsam Fir		8	Pole/Sapling	6						
Red Maple		5	Log/Pole	14						
Red Pine		5	Pole/Log/XLog	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
77	6124 - Lowland Spruce-Fir	Poletimber Poor	4.1	53	1-50	N/A	Marginal mixed stand on a mosaic of lowland & upland ground. Canopy drifts off either end of 25% closure. Carried forward the previous inventory age on the aspen.																																																																		
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78	4319 - Mixed Upland Forest	Poletimber Well	12.7	25	1-50	N/A	Mature JP plantation was final harvested in 1996 (#004-95), cutting stems 2"+ DBH. JP was furrow-seeded across most of the stand in 1987 (C72-387). The stand has more naturally established O-A-RM than planted JP, so the stand origin codes as Natural. Traces of barberry on the perimeter and in the aspen.																																																																		
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79	6130 - Fir, Aspen, Maple	Poletimber Well	43.9	72	51-80	N/A	The stand had areas of windthrow from the 1997 tornado that resulted in pockets of aspen regen. Fir was used as a surrogate to represent the 2nd age class that is present in the aspen. The stand picks up a steep hillside on the SE edge and flanking the creek. 2024 YOE only walked the edge when locating survey corners.																																																																		
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80	4199 - Other Mixed Upland Deciduous	Poletimber Medium	17.7	55	51-80	N/A	A couple acres near the middle of the stand had been set up and sold in 1987 (#062-87), but the contract was cancelled before being opened because the adjacent landowner retracted their access permission. 2024 YOE only walked the edge when locating survey corners. 2014 YOE comments: Stand is mostly BC and quaking aspen, with scattered larger-diameter JP, NPO, and black spruce, and a pocket of RP.																																																																		
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81	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	62.4	11	Immature	N/A	Mature JP plantation was final harvested in 2006 (#083-04), cutting stems 2"+ DBH except 5 acres in retention islands and 40 BA of JP marked-to-leave within 3 chains of S. Branch Rd. Was trenched in 2009 (C72-574), planted to JP in 2010, then re-planted in 2011. Passed Year 3 regen survey with a mix of planted JP & O-BC-RM. The stand is majority planted, but with significant naturally-established oak & volunteer JP components. Oak increases towards the county road and in the NE. The overmature residual JP is breaking up. Traces of barberry encountered on the stand's N & E edges.																																																							
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82	320 - Upland Shrub	Nonstocked	8.9	0	Unspecified	Managed Opening	A sparse, declining NPO stand was final harvested with no retention in 2018 (#060-15), cutting stems 2"+ DBH. Approved treatment was to trench and plant RP (C72-841). The stand was subsequently designated as a Pine Barrens ERA. ERA boundary was adjusted after a 2021 survey and now is only south of the road. Small clumps of barberry are scattered across the hillside overlooking the county road.																																																							
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83	42290 - Natural Mixed Pine	Sawtimber Well	62.0	124	111-140	N/A	RP-WP stand on rolling to steep terrain, with RM-A-O associates. There is a significant amount of xlog and legacy pine. The legacy pine represents a second age class that couldn't be reflected due to a MiFI limitation. Most of the stand is within an MNFI-identified Dry-Mesic Northern Forest ERA. The stand's east edge starts out near the hilltop, then drops steeply to the river's edge and two areas of floodplain. Ground is upland except for low ground inclusions on the floodplain. The 1997 tornado extended into the south end of the stand and started a new age class of aspen.																																																							
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84	4311 - Pine, Aspen Mix	Sapling Well	18.1	25	1-50	N/A	The May 1997 tornado windthrew most of the stand, leaving scattered RM. 2014 YOE inventory noted good aspen and WP regen. Part of the stand occupies a steep sideslope, then it picks up low ground at the bottom of the hill. 2024 YOE only walked the edge when locating survey corners.																																																							
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85	42220 - Natural Jack Pine	Sawtimber Medium	30.0	98	81-110	N/A	2014 YOE approved harvest treatment on this overmature JP stand was terminated by variance Sept 24, 2018 due to lack of access. This stand had been set up and sold in 1987 (#062-87), but the contract was cancelled before being opened because the adjacent landowner retracted their access permission. 2024 YOE only walked the edge when locating survey corners. The overmature JP is dropping out of the canopy and the fir understory is recruiting to replace it.																																																						
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87	42120 - Planted Jack Pine	Poletimber Well	9.1	25	1-50	N/A	Mature JP plantation was final harvested in 1996 (#004-95), cutting stems 2"+ DBH. JP was furrow-seeded in 1987 (C72-387). Most of the deciduous is in the NW & SE.																																																						
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88	4310 - Pine, Oak Mix	Poletimber Well	7.0	94	51-80	N/A	This stand had been set up and sold in 1987 (#062-87), but the contract was cancelled before being opened because the adjacent landowner retracted their access permission. Only walked the edge when locating survey corners.																																																						
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89	4310 - Pine, Oak Mix	Sawtimber Poor	40.1	127	1-50	N/A	Stand was shelterwood harvested by 2010 (#030-05), cutting merch stems except RP-WP & green-marked (stated cruised ave 40 sq. ft.). Residual cover transitions from pine-oak in the north to oak-pine moving south. Canopy is more open in the oak-dominated south, and there areas that drop into LDT range from mortality and windthrow. There is a high proportion of the canopy in xlog and legacy stems. Cavities common in the xlog WO. Full understory cover in variably-distributed WP-RM-A with traces of oak. On rolling terrain with short steep slopes.																																																						
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90	42110 - Planted Red Pine	Sawtimber Well	5.6	68	171-200	N/A	Roadside windbreak plantation strip was thinned in early 2018 (#060-15), cutting marked RP and all JP, WP, fir and dead oak. The stand is all edge. Recent windthrow and breakage in the west end and a pocket of mortality (HRD conks not seen) in the east end.																																																						
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91	4319 - Mixed Upland Forest	Poletimber Well	15.9	67	81-110	N/A	Fir is replacing the aspen as that older component drops out of the canopy. 2024 YOE only walked the edge when locating survey corners. Noted clumps of Japanese barberry on the hillside.																																											
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92	42220 - Natural Jack Pine	Poletimber Medium	32.9	59	51-80	N/A	The 1938 air photos show this stand as part of a larger maintained field with a single airplane landing strip crossing through and ending near the Downey's place. The ground is level to gently rolling. Two quarter-acre patches of heavily disturbed ground in the SW had RP planted on them (previous inventory noted 65 years old). The stand filled in patchily from scattered "orchard" JP. That older JP has largely died out. Windthrown swaths in the SW in the last year. Variance to herbicide invasive plants within the compartment was approved in 2012. Spraying has been done (mainly along the pathway) in 2015, 2016 & 2017 (C72-711).																																											
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93	4130 - Aspen	Poletimber Well	16.7	25	1-50	N/A	Mature A-O stand was final harvested in 1997 (#071-94), cutting stems 2"+ DBH. Regenerated well to A-RM with scattered WP and traces of oak. Some clones are further into the pole class than others.																																											
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94	6220 - Alder/willow	Nonstocked	19.6		Unspecified	No	Tag alder & salix with patches of marsh and colonizing Q. Traces of barberry on the transition ground.																																											
95	4130 - Aspen	Sapling Medium	6.6	2	Immature	N/A	AMC stand was final harvested in 2020 (#032-17), cutting stems 2"+ DBH except O-WP, green-marked RP, and retention around the intermittent stream. The retention was merged with adjacent stand 65, splitting off this south part of stand 208 as a new stand. A small wetland was also excluded from the harvest on the south edge. BTA is filling in on the uplands, with quaking aspen and traces of balsam poplar on the lower ground. The lowest ground remains sparse. Some breakage and windthrow in the residual pine.																																											
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96	4310 - Pine, Oak Mix	Sawtimber Poor	11.3	50	1-50	N/A	Stand was shelterwood harvested by 2010 (#030-05), cutting merch stems except RP-WP & green-marked (stated cruised 40 sq. ft.). WP-Oak in the west end transitions to Oak-WP moving east. Canopy is more open in the oak-dominated east half. Understory of mainly RM regen from the cut with low amounts of oak and WP. Old LWD in the west end from the 1998 tornado.																																																	
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97	320 - Upland Shrub	Nonstocked	41.3	0	Unspecified	4222 - Natural Jack Pine	Overmature JP (some of it plantation) was final harvested in 2021 (#045-15), cutting stems 2"+ DBH except boundary-excluded retention. The flail operation did a good job of retaining and spreading out the tops and scarifying the ground. Open cones were seen throughout. A variance was approved in 2017 to change the MO to natural JP, and if fails trench and plant jack pine. If nat regen fails, the site will trench well except for the north ten acres where extensive mortality in the planted JP resulted in heavy pre-harvest LWD.																																																	
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98	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	5.3	78	51-80	N/A	The stand occupies slightly drier islands separated by lowland swales																																																	
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99	6122 - Black Spruce	Poletimber Medium	10.1	82	51-80	N/A	Spruce-fir on mostly low ground. Barberry noted on transition ground. Japanese Barberry was herbicided in the stand's S1/2 in 2016 & 2017 (C72-711) by variance approved in 2012.																																																	
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100	42120 - Planted Jack Pine	Poletimber Well	9.2	35	51-80	N/A	Mature JP stand was final harvested in 1987 (#076-86), cutting stems 2"+ DBH. Planted to JP in the fall (C72-108). The JP has persistent dead limbs. BC-O-RM regen from the cut is competitive with the JP.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
101	6229 - Mixed lowland shrub	Nonstocked	10.7	0	Unspecified	6122 - Black Spruce	Lowland-upland spruce-aspen stand was final harvested in late 2021 (#045-15), cutting stems 2"+ DBH except a retention island in the west end and an adjacent area left uncut because the ground was too saturated for harvest operations. That uncut area was split out as stand 103. There is widespread spruce and JP cone dispersal. The stand's NE on the uplands is where the aspen was cut.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Tag Alder	Low	10 - 20 feet	Tall Shrub	
								Musclewood/Hornbeam	Trace	10 - 20 feet	Tall Shrub	
								Red Maple	Trace	>20 feet	Sapling	
Black Spruce	Low	Variable	Sapling									
102	4130 - Aspen	Poletimber Well	6.7	35	51-80	N/A	Mature aspen stand was final harvested in 1987 (#075-86), cutting stems 2"+ DBH. Regenerated well to quaking aspen. Windthrow on west edge.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Black Cherry	5	Pole	5	35
								Quaking Aspen	95	Pole/Sapling	6	35
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	5 - 10 feet	Tall Shrub									
103	6122 - Black Spruce	Poletimber Medium	2.2	60	51-80	N/A	Portion of stand 101 that was not final harvested in 2021 (#045-15). The west end is designated retention; the rest was left during the harvest because the ground was too saturated. Black spruce over saturated sphagnum groundcover. Recent windthrow.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	10	Pole/Sap/Log	7	
								Paper Birch	5	Pole/Sapling	7	
								Black Spruce	85	Pole/Sapling	7	60
Sub-Canopy Species	Density	Avg. Height	Size									
Tag Alder	Medium	10 - 20 feet	Tall Shrub									
Black Spruce	Medium	Variable	Sapling									
104	4133 - Aspen, Mixed Pine	Poletimber Medium	15.8	25	51-80	N/A	Aspen regenerated around residual RP-WP following the 1997 tornado. The traces of residual overmature aspen are windthrowing. The stand occupies low dry ridges flanked by tag alder swales. Japanese Barberry was herbicided in the stand's N1/2 in 2016 & 2017 (C72-711) by variance approved in 2012. Additional control is needed.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	64	Pole/Sapling	5	25
								Red Pine	10	Log/XLog/Pole	16	85
								Balsam Fir	10	Pole	6	
								Paper Birch	1	Sapling/Pole	4	
								Black Cherry	5	Pole	6	
								White Pine	10	Log/Pole/XLog	10	
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Medium	Variable	Tall Shrub									
Japanese Barberry	Trace	< 5 feet	Tall Shrub									
White Pine	Low	Variable	Sapling									
Tag Alder	Low	10 - 20 feet	Tall Shrub									
105	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	15.9	25	Immature	N/A	Salvage harvested in 1997 (#040-97), cutting windthrown and broken trees following the July 1997 tornado. Part of it was a mature JP plantation. Scattered pine, oak and maple that weren't wind-damaged were left uncut; most of that residual is in the north end. Post-salvage regen distribution is variable and includes aspen in the NE, RM in the NW, JP-BC in the middle, and JP-O in the south. Canopy closure is also highly variable, LDT to 100%, roughly averages in the low end of 50-75%. Japanese Barberry was herbicided in the stand's N end in 2016 & 2017 (C72-711) by variance approved in 2012.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	8	Pole/Sap/Log	6	
								Balsam Fir	2	Pole/Sap/Log	5	
								White Oak	1	Pole/Sap/Log	7	
								Red Pine	3	Log/Pole	13	
								Jack Pine	25	Sapling/Pole	4	25
								Black Cherry	15	Sapling/Pole	3	
								Quaking Aspen	25	Pole/Sapling	5	25
								Black/Red (Hybrid) Oak	20	Sapling	2	25
								Sub-Canopy Species	Density	Avg. Height	Size	
								Black Cherry	High	Variable	Tall Shrub	
								Japanese Barberry	Trace	< 5 feet	Tall Shrub	
Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
106	42210 - Natural Red Pine	Sawtimber Medium	39.1	70	51-80	N/A	Mixed pine stand was thinned by Jan 2020 (#003-14), cutting A-RM-S & orange-marked (cruised residual 67 sq. ft.) except on excluded N & S RMZs & SE panhandle. The pine established from a handful of xlog legacy trees. Excluding those pioneer stems, the pine is relatively young (60-80 years old). The designated species removal resulted in widely variable residual stocking and locally full cover in aspen regen. The residual oak continues to break up. Trees in a 1.5 acre patch in the stand's SE corner were helicopter lifted for in-stream placement in the South Branch of the AuSable River for fish habitat improvement in August 2013 (F72-726). Japanese Barberry was herbicided in 2012, 2016 & 2017 (C72-711). There is still a large patch of surviving barberry in the treated area in the north end.																																																																						
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107	6220 - Alder/willow	Nonstocked	2.7	0	Unspecified	No	Tag alder wetland with perimeter fir & aspen, excluded from stand 110's 2009 harvest.																																																																						
108	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	34.3	48	1-50	N/A	Most of the stand was salvage harvested in 1997 (#040-97), cutting trees windthrown and broken by the July 1997 tornado. Part of the stand was a mature JP plantation. 2.3 acres of retention from the adjacent stand 97's harvest were merged into this stand (captured in the Site Condition layer). The south panhandle was final harvested in 1987 (#076-86), cutting stems 2"+ DBH. Difficult to pin a label on this stand, given the varying tornado impact. The current canopy is a mosaic of advanced regen (now pole-sized) that was released by the 1997 salvage, mature residual that survived the tornado, and regen that established after the 1987 harvest. Regen from the 1997 salvage forms the subcanopy. There isn't a distinct line between the subcanopy and the multi-layered canopy. There is xlog oak present but that split size class isn't available to chose from with an ave diam of 7" DBH.																																																																						
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Northern Pin Oak	45	Pole/Log/Sap	7	48																																																																									
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109	3303 - Mixed Low Density Trees	Nonstocked	1.0	0	Unspecified	No	Fishing access site parking lot and rest area. Former site of the Durant Castle.																																																																						
110	6112 - Lowland Aspen	Sapling Well	25.7	13	Immature	N/A	Mature aspen stand was final harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH. Residual pine are scattered across the stand. Aspen filled in well except on the very lowest ground. Traces of overmature aspen east of L3 stand 107. SBW impacting the fir.																																																																						
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111	4130 - Aspen	Poletimber Well	5.7	25	51-80	N/A	Mature aspen stand was final harvested in 1997 (#071-94), cutting stems 2"+ DBH. Regenerated well to BTA. Traces of RP at the former landing.																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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112 42121 - Planted Jack Pine, Mixed Deciduous Poletimber Well 7.6 35 51-80 N/A Mature JP stand was final harvested in 1987 (#076-86), cutting stems 2"+ DBH. Planted to JP, with a few rows of RP down the middle, in the fall (C72-108). The JP has persistent dead limbs. Oak regen is scattered throughout, with heavier concentrations in the S & E that overtopped the planted JP.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	Pole	7		Black Cherry	Low	5 - 10 feet	Tall Shrub
Black Cherry	6	Pole/Sapling	5					
White Oak	5	Sapling/Pole	3					
Northern Pin Oak	20	Pole/Sapling	5	35				
Jack Pine	60	Pole/Sapling	5	35				

113 4319 - Mixed Upland Forest Sawtimber Medium 37.2 78 51-80 N/A Variable mixed stand on the steep sideslope and flats along the river. There are pockets of low ground by the river with spruce, tamarack and NWC, and flooded tag alder swales further back, but the stand is upland overall. The balsam fir component is increasing as the overmature aspen drops out of the canopy. The aspen component is being reduced by beaver felling, windthrow, and age-related decline. The lesser components of NPO & JP are also overmature and contributing to the LWD load. Japanese barberry is scattered across the stand. Carried forward the previous inventory aspen & spruce ages, although there appears to also be younger age classes present, started from subsequent disturbances (high wind events, beaver cutting).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Log	8	108	White Pine	Low	Variable	Sapling
Northern White Cedar	3	XLog/Log	18		Japanese Barberry	Trace	< 5 feet	Tall Shrub
Red Pine	4	Log/Pole/XLog	13		Tag Alder	Low	10 - 20 feet	Tall Shrub
Tamarack	1	Log/Pole	11		Red Pine	Trace	Variable	Sapling
White Pine	4	Log/Pole/XLog	12		Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
Quaking Aspen	38	Log/Pole	10	78	Quaking Aspen	Low	Variable	Sapling
Red Maple	8	Log/Pole/Sap	11		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	1	Pole	7		Black Cherry	Medium	Variable	Tall Shrub
Jack Pine	2	Pole/Log	8					
Balsam Fir	25	Pole/Sapling	6	40				
Northern Pin Oak	4	Log/XLog/Pole	16					

114 500 - Water Nonstocked 13.0 Unspecified No Beaver flooding rimmed with marsh and tag alder. Active lodge. Pair of nesting swans.

115 6112 - Lowland Aspen Poletimber Well 11.9 33 51-80 N/A Most of the stand was final harvested in 1989 (#061-87), cutting stems 2"+ DBH. Regenerated to aspen, with some oak & pine on the drier ground. The upland ground is in the NW & far NE; the rest of the stand is on saturated organic soils. Even the uplands see some flooding when beaver activity picks up. The NE poly became isolated by expanded flooding, and beaver have cut most of the aspen there. The SE poly was recently cut off by new flooding; traces of barberry there. Windthrow along the south edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Sapling/Pole	4	33	Gray Dogwood	Trace	5 - 10 feet	Tall Shrub
Jack Pine	2	Pole	6		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
Red Maple	5	Sapling/Pole	3		Japanese Barberry	Trace	< 5 feet	Tall Shrub
Balsam Poplar	5	Pole/Sap/Log	7		Black Cherry	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	63	Pole/Sapling	6	33	Tag Alder	Low	10 - 20 feet	Tall Shrub
Northern Pin Oak	5	Sapling/Pole	4	33				
Red Pine	3	Log/Pole/Sap	13					
Bigtooth Aspen	2	Pole/Log	8					
White Pine	10	Pole/Log/Sap	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
116	3303 - Mixed Low Density Trees	Nonstocked	11.2	0	Unspecified	4122 - Oak, Pine	Stand of overmature JP (part of it plantation) and NPO was final harvested in 2021 (#045-15), cutting stems 2"+ DBH except trees less than 8" DBH w/in 100' of the pathway. Extensive LWD from pre-harvest JP snags and post-harvest oak tops. The advanced oak regen that was cut outside of the pathway zone will re-sprout, but deer browse is a concern.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Northern Pin Oak	Low	10 - 20 feet	Sapling					
								Northern Pin Oak	Low	>20 feet	Pole					
								White Pine	Trace	>20 feet	Pole					
								Black Cherry	Medium	Variable	Tall Shrub					
								Red Pine	Trace	>20 feet	Pole					
								Jack Pine	Low	>20 feet	Pole					
								Black Cherry	Low	>20 feet	Pole					
117	6112 - Lowland Aspen	Sapling Medium	10.0	1	Immature	N/A	Overmature aspen stand was final harvested in 2021 (#065-15), spec'd to cut stems 2"+ DBH except pine and a boundary-excluded strip along the floodplain. Patches of residual fir & WP are scattered along the stand. Aspen regen varies from low to full stocking. Cover on the wettest ground tends to be the sparsest, although balsam poplar is filling in there.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Black Cherry	1	Pole	6		Hawthorn (spp.)	Low	10 - 20 feet	Tall Shrub
								Balsam Poplar	10	Sapling	1	1	Musclewood/Hornbeam	Trace	10 - 20 feet	Tall Shrub
								White Pine	4	Pole/Sap/Log	6		Tag Alder	Low	< 5 feet	Tall Shrub
								Balsam Fir	5	Pole/Sapling	6					
								Quaking Aspen	80	Sapling	1	1				
								118	500 - Water	Nonstocked	4.8	0	Unspecified	No	Beaver flooding on Thayer Creek. Nesting pair of trumpeter swans.	
								119	6123 - Lowland Fir	Sawtimber Well	4.8	78	51-80	N/A	This strip along the Thayer Creek floodplain was excluded from stand 117's 2021 harvest. Decadence and beaver cutting are reducing the overmature aspen component. Fir and WP are filling in.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
Balsam Fir	50	Pole/Sapling	6	45	Balsam Fir	Medium	Variable									Sapling
Northern Pin Oak	3	Pole/Sapling	5		Tag Alder	Medium	10 - 20 feet									Tall Shrub
Paper Birch	2	Log/Pole	12													
White Pine	15	Log/Pole/XLog	10													
Quaking Aspen	30	Log/Pole	12	78												
120	6220 - Alder/willow	Nonstocked	36.1	0	Unspecified	No	Tag alder & salix on the Thayer Creek floodplain, with Q-E-P scattered on the north edge and in patches on the south edge. The stand contains Thayer Creek's natural channel and an engineered channel. Amount of ponded water varies with beaver activity.									
122	6220 - Alder/willow	Nonstocked	6.0	0	Unspecified	No	Tag alder over marsh on the Thayer Creek floodplain.									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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123 6112 - Lowland Aspen Sapling Medium 18.1 2 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3	Sapling	2		Tag Alder	Low	Variable	Tall Shrub
Quaking Aspen	60	Sapling	1	2	Hawthorn (spp.)	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	1	Sapling	2					
Balsam Poplar	10	Sapling	1	2				
Paper Birch	1	Pole/Sapling	7					
Quaking Aspen	2	Log	11	82				
Black Cherry	3	Sapling	1	2				
Northern White Cedar	10	Log/Pole	10	125				
Red Maple	10	Sapling/Pole	3					

Lowland aspen stand was final harvested by Jan 2020 (#003-14), cutting merch stems except NWC (single patch) and boundary-excluded retention by the USFS. Windthrow in the aspen retention. Beaver flooding in stand 115 extended into this stand. Aspen regen cover is 75-100% on the dryer ground and 25-50% on the lowest ground, ave 50-75%. Notable tall hawthorn component. Japanese Barberry was herbicided in the stand's E1/2 in 2012, 2016 & 2017 (C72-711) by variance approved in 2012.

125 4136 - Aspen, Mixed Conifer Poletimber Well 5.1 26 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	15		Black Cherry	Low	5 - 10 feet	Tall Shrub
Red Pine	5	XLog/Log	18		Balsam Fir	Low	5 - 10 feet	Sapling
Northern Pin Oak	2	Sapling/Pole	4		White Pine	Low	5 - 10 feet	Sapling
Balsam Fir	15	Pole	7					
Quaking Aspen	70	Sapling/Pole	4	26				
Jack Pine	3	Sapling/Pole	4					

Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. Scattered WP-RP were also left. The portion south of the road burned in the 1995 wildfire. Regenerated well to aspen with a significant fir component. The stand transitions onto low ground moving north toward Thayer Creek.

126 6139 - Mixed Lowland Forest Sawtimber Medium 5.3 70 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole/Log	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Tamarack	5	Log/Pole	12		White Pine	Medium	10 - 20 feet	Sapling
Jack Pine	15	Log/Pole	10					
Quaking Aspen	40	Log	14	70				
Balsam Poplar	5	Log	12					
White Pine	25	Log/Pole	10					

Island in the Thayer Creek floodplain. The natural stream channel flows on the north side and the engineered channel on the south side crosses through the stand's east end.

127 6112 - Lowland Aspen Sapling Well 3.3 13 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	15		White Pine	Medium	5 - 10 feet	Sapling
Black Cherry	1	Sapling	2	13	Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
Balsam Poplar	5	Sapling	2	13	Black Cherry	Trace	5 - 10 feet	Tall Shrub
White Pine	10	Log	11	60	Musclewood/Hornbeam	Trace	5 - 10 feet	Tall Shrub
White Pine	25	Sapling	1		Willow spp.	Trace	5 - 10 feet	Tall Shrub
Red Maple	12	Sapling	1	13	Tag Alder	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	45	Sapling	2	13				

Mature aspen stand was final harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH, and leaving all WP-RP. The stand occupies a seepy slope. Regen filled in well on all but the lowest ground or where the residual was concentrated. Aspen clones alternate with dense patches of WP regen. The residual WP canopy record would have been listed as L-P-XL, but had to be simplified down in order to accommodate a MiFI limitation and still be able to list the WP regen as a separate canopy record.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
128	6120 - Lowland Cedar	Sawtimber Well	15.1	135	141-170	N/A	MNFI-identified Rich Conifer Swamp ERA, characterized by NWC with WP and E/P/Q associates. An acre of spruce near the road is not part of the ERA boundary but was included in this stand due to being on low ground. Possibly invasive forget-me-not plant found within the stand; need to confirm during flowing.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		5	Log/Pole	10	86	Balsam Fir		
Balsam Fir		10	Pole/Sap/Log	6		Medium		
Black Spruce		10	Pole/Log	8		Variable		
Paper Birch		3	Log/Pole	11		Sapling		
Northern White Cedar		60	Log/Pole/XLog	13	135	10 - 20 feet		
Quaking Aspen		2	Log	14		Tall Shrub		
White Pine		10	XLog/Log/Pole	22		Black Spruce		
						Low		
129	4136 - Aspen, Mixed Conifer	Poletimber Well	8.9	35	51-80	N/A	Mature aspen stand was final harvested in 1987 (#077-86), cutting stems 2"+ DBH except RP-WP. Regenerated well to aspen with a significant fir component. Aspen clones are solidly in the pole class except for the few that are infected with black canker. Fifty-fifty upland/lowland split, with the ground becoming increasingly wet moving north toward Thayer Creek.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		14	Pole/Sapling	7		White Pine		
Black Spruce		1	Pole	6		Low		
White Pine		5	Log/Pole/XLog	14		5 - 10 feet		
Black Cherry		1	Pole	6		Sapling		
Northern Pin Oak		4	Pole	7		5 - 10 feet		
Jack Pine		4	Pole	6		Tall Shrub		
Quaking Aspen		70	Pole/Sapling	6	35	10 - 20 feet		
Red Pine		1	XLog	18		Tall Shrub		
						Hawthorn (spp.)		
						Trace		
						10 - 20 feet		
						Tall Shrub		
						Balsam Fir		
						Low		
						5 - 10 feet		
						Sapling		
130	4130 - Aspen	Poletimber Well	6.3	33	51-80	N/A	Aspen stand was final harvested in 1989 (#061-87), cutting stems 2"+ DBH. Regenerated well to QA with fir. Upland overall, with perimeter low ground.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		85	Pole/Sapling	5	33	Black Cherry		
Black Cherry		3	Sapling/Pole	4	33	Low		
Balsam Fir		10	Pole	5		5 - 10 feet		
White Pine		2	Pole	7		Tall Shrub		
						Balsam Fir		
						Medium		
						Variable		
						Sapling		
						Tag Alder		
						Trace		
						10 - 20 feet		
						Tall Shrub		
132	4319 - Mixed Upland Forest	Sawtimber Medium	26.5	122	51-80	N/A	The portion of the stand north of the river is an MNFI-identified Dry-Mesic Northern Forest ERA, characterized by canopy dominant WP-RP, intermediate RM-Fir, and small inclusions of NWC swamp. A harvest visible on the 1938 air photos extended into the north edge of this stand, leaving scattered large pine. This ERA and stand 128's Rich Conifer Swamp ERA grade into each other. Carried forward previous inventory ages on the WP, RP & RM. Would have split the WP canopy records as XLog-Log and Pole-Log, but had to simplify them in order to accommodate a MiFI limitation and be able to list the two age classes separately.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		15	Pole/Sap/Log	6		Balsam Fir		
Black Spruce		2	Pole/Log	8		High		
Red Pine		15	XLog/Log	20	96	Variable		
Northern White Cedar		5	Log	15		Sapling		
White Pine		20	Pole	8		Red Maple		
Red Maple		20	Log/Pole/Sap	12	109	Medium		
Balsam Poplar		2	Log/Pole	10		Variable		
White Pine		20	XLog	26	122	Sapling		
Northern Pin Oak		1	Pole/Log	8		Tag Alder		
						Trace		
						5 - 10 feet		
						Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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133 6220 - Alder/willow Nonstocked 4.1 0 Unspecified No Tag alder and salix with scattered Q/P.

134 4136 - Aspen, Mixed Conifer Sapling Medium 33.0 1 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10	Log/Pole/XLog	15	
White Pine	5	Log/Pole/XLog	10	
Balsam Fir	4	Pole/Log	8	
Quaking Aspen	60	Sapling	1	1
Black Spruce	1	Pole	7	
Black Cherry	4	Sapling	1	1
Quaking Aspen	10	Log	11	64
Balsam Poplar	3	Sapling	1	1
Bigtooth Aspen	3	Sapling	1	1

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	< 5 feet	Seeding
Willow spp.	Trace	5 - 10 feet	Tall Shrub
Michigan Holly	Trace	5 - 10 feet	Tall Shrub
Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub

Overmature AMC stand was final harvested in 2021 (#037-15), cutting stems 2"+ DBH except WP > 16" DBH, all RP (cruised residual BA: 14 RP, trace WP), three interior retention islands (1.9 acres total, kept as part of the stand), and 16 acres boundary-excluded along Thayer Creek and the river (merged into the adjacent uncut stand). Aspen is filling in well except on the low ground inclusions. The RM stump sprouts are browsed low.

135 4319 - Mixed Upland Forest Sawtimber Medium 24.8 78 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	5	Log/XLog/Pole	16	
Jack Pine	5	Log/Pole	11	
White Oak	1	Log/Pole	11	
Northern Pin Oak	13	Log/XLog/Pole	16	98
Balsam Poplar	2	Pole	7	
Quaking Aspen	20	Log/Pole	12	78
Black Spruce	3	Pole	8	
Balsam Fir	10	Pole	6	
White Pine	20	Log/Pole/XLog	11	60
Red Maple	20	Pole/Log/Sap	7	78
Paper Birch	1	Pole/Log/Sap	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling
Northern Pin Oak	Trace	Variable	Sapling
Tag Alder	Low	10 - 20 feet	Tall Shrub
Black Cherry	Low	Variable	Tall Shrub
Red Maple	Medium	Variable	Sapling

Variable mixed stand is majority upland but transitions down to low ground on the N & S edges. DWD has been building as the overmature JP, NPO & QA breaks up. There is a swath of windthrow on the center-W edge. Most of the species have more than one age class present. Carried forward the previous inventory ages on the RM-A. The SE stand boundary picks up 2.5 acres that were harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH, and leaving a significant amount of WP residual. That harvest resulted in only two sub-acre patches of regen, at the W & E ends of the narrow strip that was cut.

136 4130 - Aspen Poletimber Well 8.7 35 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/XLog/Pole	15	56
Quaking Aspen	70	Pole/Sapling	6	35
Black Cherry	3	Pole	6	
Balsam Fir	5	Pole	6	
Red Pine	2	Log/Pole/Sap	16	
Red Maple	10	Sapling/Pole	4	35

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Trace	10 - 20 feet	Tall Shrub
Black Cherry	Medium	Variable	Tall Shrub
Gray Dogwood	Trace	5 - 10 feet	Tall Shrub

Mature aspen stand was final harvested in 1987 (#077-86), cutting stems 2"+ DBH except RP-WP. Regenerated well to aspen around the residual pine. The stand has low ground inclusions in the north half.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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137 42210 - Natural Red Pine Sawtimber Well 21.6 104 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	9	
Bigtooth Aspen	10	Log/Pole	13	82
Black/Red (Hybrid) Oak	2	XLog/Log	20	
White Pine	3	Log/XLog/Pole	16	
Quaking Aspen	4	Log/Pole	14	
Red Pine	75	Log/XLog/Pole	16	104
Paper Birch	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	Medium	Variable	Sapling
Red Maple	Medium	10 - 20 feet	Sapling

Naturally-established RP stand with a significant amount of xlog stems. A-RM-WP associates. Windthrow in the overmature aspen. The west end occupies a steep hill above the river. The rest of the stand is on rolling terrain that wraps around a couple small wetlands. The Chapel and parking lot are within the stand.

138 6130 - Fir, Aspen, Maple Sawtimber Well 32.5 62 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	1	Pole/Log/Sap	7	
Quaking Aspen	25	Log/Pole	11	62
Black Spruce	7	Pole/Log	7	
Northern Pin Oak	7	Log/Pole/XLog	16	
Paper Birch	2	Log/Pole	11	
White Pine	10	Pole/Log/XLog	8	
Black Cherry	1	Log	12	
Jack Pine	5	Log/Pole	10	
Balsam Poplar	2	Pole/Log/Sap	7	
Red Maple	15	Pole/Log/Sap	7	84
Balsam Fir	20	Pole/Sap/Log	7	
Red Pine	5	Log/Pole/XLog	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Tag Alder	Trace	10 - 20 feet	Tall Shrub
Balsam Fir	Low	Variable	Sapling
White Pine	Medium	Variable	Sapling

The road runs a ridge of dry ground that transitions down onto intermediate and lowland ground on either side. Aspen clones are scattered throughout, but the NPO-JP-RP tends to occur on the driest ground, and the RM-F-S increases on the lower ground. The north side of the stand slopes down to the Thayer Creek floodplain. Lower slope position there doesn't always equate to the most saturated ground; there is some perched lowland ground on the hillside. Sparser P/Q cover that trails down onto the floodplain was merged with L3 stand 120. DWD is building as the overmature NPO-JP-A-F breaks up. There are some pockets of advanced WP-RP-F regen in canopy gaps.

139 42121 - Planted Jack Pine, Mixed Deciduous Sapling Well 2.9 34 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	20	Pole/Sapling	5	35
Jack Pine	65	Sapling/Pole	4	34
Black Cherry	3	Sapling	3	
White Pine	10	Log/Pole	14	
Quaking Aspen	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	< 5 feet	Sapling
Black Cherry	Medium	5 - 10 feet	Tall Shrub

Mature JP stand was final harvested in 1987 (#077-86), cutting stems 2"+ DBH except RP-WP. JP was planted in 1988 around the residual WP and stump-sprout NPO.

140 320 - Upland Shrub Nonstocked 3.8 0 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Medium	5 - 10 feet	Tall Shrub
Northern Pin Oak	Trace	Variable	Sapling
Jack Pine	Trace	< 5 feet	Seeding

Mature JP that was underburned by the 1995 wildfire was final harvested in 2019 (#036-15), cutting merch stems. Was part of a larger maintained field visible on the 1938 air photos. Only traces of JP regen established post-harvest. BC mainly in the east end. Low shrub layer includes blueberry, sweetfern and sand cherry. High coverage in penn sedge, with big bluestem present throughout at lower densities. Widely-scattered thistle basal rosettes. Failed regen survey to natural JP objective.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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141 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 5.6 13 1-50 N/A

Mature JP-RP stand was final harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH. The stand was a mixed JP-RP plantation that had been established around naturally-established RP-WP. Residual RP-WP are variably distributed across the stand. Regen from the cut is primarily RM but there is also vigorous NPO regen and small pole residual. Second age was taken on the planted RP. Previous inventory age of 85 yrs was taken on the naturally-established RP.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	20	Log/Pole/XLog	12	62	White Pine	Low	< 5 feet	Sapling
Red Maple	50	Sapling	2	13	Black Cherry	Medium	Variable	Tall Shrub
Northern Pin Oak	20	Sapling/Pole	2					

143 42290 - Natural Mixed Pine Poletimber Medium 12.4 38 51-80 N/A

JP plantation was established around scattered (now xlog) RP. RP was then supplemental planted in the south-center the following decade. The JP has been breaking up for decades, contributing to heavy DWD and snags. More of the stand is occupied by WP-NPO-WO volunteers than by planted stock. The WP-RP is heaviest in the stand's S1/2 (at 75-100% canopy closure) and the oak and surviving JP is more common in the N1/2 (at 50-75% closure; not all of the oak is recordable in the canopy). The small north peninsula of the stand was split off by the adjacent harvest of stand 134. The stand was prescribed 2 YOEs ago and set up for harvest but not cut. It was not prescribed last YOE.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log/Pole	11	65	Black Cherry	Low	5 - 10 feet	Tall Shrub
Jack Pine	25	Pole/Log	9	78	Northern Pin Oak	Low	Variable	Sapling
Quaking Aspen	2	Log/Pole	11					
Black Cherry	1	Pole	6					
White Oak	5	Pole/Sapling	5					
Balsam Fir	5	Pole	6					
Bigtooth Aspen	2	Log/Pole	12					
Northern Pin Oak	15	Pole/Sapling	6					
White Pine	40	Pole	8	38				

144 42110 - Planted Red Pine Sawtimber Medium 12.1 57 111-140 N/A

The stand's NW 9 acres are a RP plantation and the SE 3 acres are naturally-established RP-WP. The planted part was row-thinned and the natural part was free-thinned in 2019 (#036-15). The WP canopy record was used as a surrogate to represent the older age class of RP-WP present in the SE, which actually accounts for 20% of the stand's RP. The primary age was set to the planted RP. Residual BAs are lower and diameters are larger in the older SE; all of the xlog pine occurs there.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	83	Log/Pole/XLog	11	57	Red Pine	Low	Variable	Sapling
Northern Pin Oak	5	Log/XLog/Pole	16		Balsam Fir	Trace	Variable	Sapling
White Pine	5	Log/Pole/XLog	16	107	Black Cherry	Low	Variable	Tall Shrub
Bigtooth Aspen	1	Log	16					
Jack Pine	5	Pole/Log	9					
Balsam Fir	1	Pole	7					

145 4191 - Mixed Upland Deciduous with Conifer Poletimber Poor 5.9 35 1-50 N/A

Mature JP stand was final harvested in 1987 (#077-86), cutting stems 2"+ DBH except RP-WP. The stand is a mosaic of residual, regen and upland shrub cover. Notable component of vigorous stump-origin NPO. The west peninsula picks up a small pocket of low ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	10	Pole/Sapling	5		White Pine	Medium	Variable	Sapling
Northern Pin Oak	35	Pole/Sapling	6	35	Witch Hazel	Low	10 - 20 feet	Tall Shrub
White Pine	20	Log/XLog	16	59	Black Cherry	Medium	5 - 10 feet	Tall Shrub
Black Cherry	25	Pole	6					
Quaking Aspen	4	Pole/Sapling	6	35				
Red Maple	1	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
146	6139 - Mixed Lowland Forest	Poletimber Poor	2.6	68	1-50	N/A	Dense cover on the stand's perimeter becomes sparse on the flooded interior. Spruce cover in the NE transitions to more RM-WP in the SW. There is younger spruce on the perimeter in the same general age class as the RM, but the spruce age was set to the older spruce component in order to record that secondary age for the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		40	Pole/Sapling	7	68	Tag Alder		High	10 - 20 feet	Tall Shrub
Balsam Fir		5	Pole	6		Michigan Holly		Low	5 - 10 feet	Tall Shrub
Jack Pine		2	Pole	8						
White Pine		10	Pole/Log	8						
Paper Birch		3	Pole/Sapling	7						
Black Spruce		40	Pole/Sap/Log	7	95					
147	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	16.2	99	81-110	N/A	Mixed NPO-pine stand with snags & LWD common from the overmature JP & NPO dropping out of the canopy. Overmature BTA also declining. Regen makes the canopy appear fuller. Carried forward previous inventory ages.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		1	Pole	7		Hazelnut (Beaked)		Trace	< 5 feet	Tall Shrub
Red Maple		20	Pole/Log/Sap	8		Red Pine		Trace	Variable	Sapling
Bigtooth Aspen		20	Log/Pole	13	79	Black Cherry		Low	5 - 10 feet	Tall Shrub
Northern Pin Oak		35	Log/XLog	13	99	Red Maple		Low	Variable	Sapling
White Pine		15	Pole/Log	8		Balsam Fir		Trace	Variable	Sapling
Jack Pine		4	Pole/Sap/Log	6		White Pine		Medium	Variable	Sapling
148	6220 - Alder/willow	Nonstocked	5.0	0	Unspecified	No	Tag alder on the river floodplain. Was an E-type before the ash was killed by EAB.			
149	4139 - Aspen, Mixed Deciduous	Sapling Medium	7.3	13	1-50	N/A	Mature A5 stand was final harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH. Residual WP-RP are scattered across the stand. RM filled in the heaviest in the N, BTA in the SE, and QA in the SW. There is a swale of low ground that cuts through the SW peninsula that has sparse tree cover and patches of lowland shrub.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		25	Sapling	2	13	Michigan Holly		Trace	< 5 feet	Tall Shrub
White Pine		5	Log	12		Gray Dogwood		Low	5 - 10 feet	Tall Shrub
Red Pine		5	Log/Pole	12		Black Cherry		Medium	5 - 10 feet	Tall Shrub
Red Maple		40	Sapling	2	13	Black Spruce		Trace	< 5 feet	Seeding
Bigtooth Aspen		20	Sapling	3	13	Tag Alder		Low	Variable	Tall Shrub
Northern Pin Oak		5	Sapling	2	13					
150	42220 - Natural Jack Pine	Poletimber Well	6.9	43	51-80	N/A	JP was established on the north 6 acres of the stand when in USFS ownership. The SW acre was part of a 10-acre final harvest in 1987 (#078-86) that was planted to RP. Most of that RP planting block was burned in a 1995 wildfire and merged into the adjacent burn-regenerated stand 156. There are traces of shallow furrows in the JP block but the cover appears to be majority volunteer. In addition to the planted RP in the SW, there is older naturally-established RP and WP scattered across the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Jack Pine		75	Pole	6	43	Black Cherry		Trace	5 - 10 feet	Tall Shrub
Red Pine		15	Pole/Sap/Log	7	35					
Black Cherry		1	Pole	6						
Balsam Fir		1	Pole	8						
White Pine		4	Log/Pole/XLog	14						
Northern Pin Oak		4	Pole/Sapling	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
151	4130 - Aspen	Sapling Medium	36.4	2	Immature	N/A	AMC stand was final harvested in 2020 (#003-14), cutting merch stems except RP-WP and retention that excluded ephemeral drainage corridors (split out as stand 65). The residual pine is unevenly distributed across the stand, with most of it in the NE & SW. Aspen regen is at 75-100% cover on the uplands and 25-50% on the lowlands, ave 50-75% overall. A lot of windthrow in the retention strips. Scattered windthrown RP.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		5	Sapling	1	2	White Pine		
Red Pine		10	Log/Pole/XLog	14	101	Red Maple		
White Pine		5	Pole/Log/Sap	8		Hawthorn (spp.)		
Quaking Aspen		80	Sapling	1	2			
152	4130 - Aspen	Sapling Well	14.3	26	1-50	N/A	Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. A wide lowland swale cuts across the north end of the stand on the hilltop and a second narrower swale extends into the stand's SE at the bottom of the hill. Cover is sparser on those swales but the rest of the stand filled in well with aspen. Some clones are further into the pole class than others, particularly the BTA, but not enough have transitioned to call the stand pole overall.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		2	Pole/Sap/Log	5		White Pine		
Quaking Aspen		60	Sapling/Pole	4	26	Black Cherry		
Black Spruce		2	Sapling	2		Tag Alder		
Northern Pin Oak		3	Pole/Sap/Log	7		Black Spruce		
Jack Pine		4	Sapling/Pole	4				
Balsam Fir		5	Pole	6				
Bigtooth Aspen		10	Pole	5	26			
Black Cherry		1	Pole	6				
Red Maple		10	Sapling	2	26			
Paper Birch		2	Sapling/Pole	4				
White Pine		1	Log	14				
153	4130 - Aspen	Sapling Medium	15.4	1	Immature	N/A	Overmature AMC stand was final harvested in 2021 (#037-15), cutting stems 2"+ DBH except RP-WP > 16" DBH, a variety of trees left as pathway markers, and a boundary-excluded retention island (1 acre, merged with stand 172). The stand is upland with low ground inclusions. Aspen filled in well on the upland ground. Regen is sparser on the low ground by stand 154. Heavy browse on the RM has kept most of it unrecordable in the canopy. Trees left along the pathway have been snapping and windthrowing across the trail. Regen does not pass at this time to the 6' height standard but likely will after this growing season.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		3	XLog/Log	18		Red Maple		
White Pine		5	XLog	30		Choke Cherry		
Red Maple		2	XLog/Log	20	1			
Balsam Poplar		5	Sapling	1	1			
Quaking Aspen		75	Sapling	1	1			
154	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	12.3	41	1-50	N/A	This was typed as an L3 with low-density tree cover last YOE. Enough Q/P/E has now colonized it to just cross the forested threshold. Ground is flooded, with full lowland shrub cover below the sap-pole colonizers. Pole-log stems line the perimeter and likely represent a second age class, but none were cored to verify.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		3	Pole	8		Tag Alder		
Red Maple		5	Sapling/Pole	2		Willow spp.		
Tamarack		20	Sapling/Pole	3		Michigan Holly		
Balsam Poplar		2	Pole/Sap/Log	6		Wild Raisin		
Black Spruce		40	Sapling/Pole	4	41			
Balsam Fir		5	Pole/Sapling	6				
Paper Birch		5	Sapling/Pole	2				
White Pine		20	Sapling/Pole/Log	4				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
155	4199 - Other Mixed Upland Deciduous	Sapling Poor	26.3	3	1-50	N/A	Mixed pine stand was final harvested in 2019 (#036-15), cutting stems 2"+ DBH except WP-RP >18" DBH and oak (cruised residual BAs: 18 oak, 24 RP). Boundary-excluded retention was merged with adjacent stands (see Site Condition layer). Extensive mortality in the NPO has dropped the residual below 30% cover, so the regen is the featured canopy, with the residual constituting a supercanopy layer above it. Regen is a mosaic of RM, BC and aspen. The RM is experiencing surprisingly light browse. Regen does not pass at this time to either the stocking or height standards.																																																												
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156	42220 - Natural Jack Pine	Sapling Well	75.9	27	1-50	N/A	Excessively-stocked JP regen (2-6" DBH) established after a 1995 wildfire, with less dense NPO-JP cover in the three blocks in the SW (totaling 14 acres) that had been final harvested in 1987 (#078-86), trenched & planted, then burned-over. Mature trees that survived the fire occur mostly on the perimeter, although there is mature JP & NPO scattered interior on the NE 17 acres that were part of a maintained open field visible on the 1938 air photos. Also included in the stand are three acres NE of stand 178 that only partially burned in 1995 and were harvested in 2008 (#011-06), cutting merch stems except RP-WP. Would have called the 27 year old JP sap-pole and the residual JP log-pole, but had to simplify the data in order to accommodate a MiFI limitation. The fire burned into adjacent stand 283 but did not result in canopy replacement there.																																																												
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157	42210 - Natural Red Pine	Sawtimber Well	112.3	103	111-140	N/A	The stand's S1/2 was trenched around xlog legacy pine and planted with a mix of RP-JP and possibly some WP. Most of the planted JP has died out. The furrows are largely vacant except for remnant patches of planted RP and WP-F volunteers. The legacy RP (157 yrs, previous inventory) that is scattered across the stand seeded-in more of the current canopy than was planted. The WP was chosen as a surrogate to represent the planted RP age; the WP itself cored out a decade younger. That naturally-established non-legacy RP ranged from 60-100 years old. Difficult to pin a coherent dominant age on this stand. The overmature aspen has been breaking up (carried forward the previous inventory age). Species distribution and stocking varies across the stand.																																																												
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158	42290 - Natural Mixed Pine	Sapling Well	3.3	26	1-50	N/A	Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. Scattered xlog pine were left. Old notes indicated that this harvest unit completely burned in the June 1995 wildfire. Dense WP regen established in the E & W ends, with JP-RP in the NE, and more S-F in the middle bottleneck. The stand picks up low ground toward the west end. There are a handful of xlog WP within the stand but that size class split is not available to chose from within the sap-pole class, and a MiFI glitch prevents listing it as a separate canopy record.																																																												
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159	4113 - R.Maple, Conifer	Sapling Well	3.4	13	1-50	N/A	Mature JP stand was final harvested in 2009 (#013-06), cutting all JP-RM-O-A-F stems 2"+ DBH, leaving variable distribution in residual RP-WP. Regen is stump-sprout RM with a minor NPO component.																																																						
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161	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	3.5	65	1-50	N/A	The north half of this stand was designated retention for stand 165's 2021 harvest. A-RM-F on saturated ground, with sparser tree cover over L3 on the flooded ground.																																																						
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162	4130 - Aspen	Sapling Medium	21.6	1	Immature	N/A	Mature AMC stand was final harvested in 2021 (#037-15), cutting stems 2"+ DBH except RP-WP >16" DBH, NWC, and two interior and two boundary-excluded retention islands. The north 3 islands (1.3 acres) were kept within the stand. The south island was merged with stand 188 in addition to six more acres of the harvest that were not cut due to unfreezing ground conditions. Aspen regen is filling in well except for on the perimeter low ground and where the pre-harvest canopy was pure conifer. Regen does not pass at this time to the 6-foot height standard but likely will after this growing season. Traces of Japanese barberry were seen in the north half of the harvested area along with larger patches within the two north retention islands.																																																						
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163	500 - Water	Nonstocked	1.2		Unspecified	No	Beaver pond.																																																						
164	4130 - Aspen	Poletimber Well	5.1	35	51-80	N/A	Mature aspen stand was final harvested in 1987 (#077-86), cutting stems 2"+ DBH except RP-WP. The aspen regen transition into the pole class was slower where residual is higher, but the stand is pole overall. Traces of Japanese barberry were encountered. Small parking lot in NW corner. The stand picks up some low ground by the swamp.																																																						
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165	4130 - Aspen	Sapling Medium	29.3	1	Immature	N/A	Mature AMC stand was final harvested in 2021 (#037-15), cutting stems 2"+ DBH except one boundary-excluded retention island (1 acre, merged with adjacent uncut stand). A handful of xlog RP were also left. One band of low ground cuts through the stand's middle; the rest is perimeter and increases in the SW. An ephemeral drainage crosses the SE end Aspen is filling in well on all but the lowest ground and where there was heavy conifer cover. The RM stump sprouts have been heavily browsed. Does not pass the regen check at this time to the 6-ft height standard, but will likely pass by fall.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		94	Sapling	1	1	Hawthorn (spp.)		Trace	10 - 20 feet	Tall Shrub	
Black Cherry		5	Sapling	1	1	Red Maple		Trace	< 5 feet	Seeding	
Red Pine		1	XLog	26							
167	6124 - Lowland Spruce-Fir	Poletimber Well	20.8	45	81-110	N/A	Lowland stand flanking the river. Cover is predominantly fir and spruce with minor A-RM-W-C associates. The fir & spruce both have immature and mature components, but only one age could be assigned to each (carried forward the younger previous inventory age on the fir and the mature age on the spruce). The aspen and older fir are breaking up. The understory cover varies from high fir to high tag alder.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Log/Pole	11		Tag Alder		Medium	5 - 10 feet	Tall Shrub	
Paper Birch		1	Log	11		Prickly Ash		Trace	< 5 feet	Tall Shrub	
Balsam Fir		45	Pole/Sapling	6	45	Balsam Fir		Medium	5 - 10 feet	Sapling	
White Pine		4	Log/Pole/XLog	12							
Red Maple		5	Pole/Log/Sap	7							
Black Spruce		30	Pole	7	86						
Balsam Poplar		5	Pole	8							
Northern White Cedar		5	Log/XLog/Pole	12							
168	6220 - Alder/willow	Nonstocked	8.8	0	Unspecified	No	Lowland shrub cover with scattered Q.				
169	42210 - Natural Red Pine	Sawtimber Medium	40.6	92	81-110	N/A	Naturally-established RP stand w/ WP and RM-O-A associates. Wide range of cored ages (60-199 yrs), but didn't core enough to verify an all-aged condition. Chose the WP canopy record to represent the younger age class present in the RP-WP. Significant legacy tree component in the RP (cored 199 yrs) increases moving N & W. Did not ave the legacy tree age into the dominant RP age. Advanced WP-RP regen in gaps makes the canopy appear fuller. The overmature NPO has been dropping out of the canopy; snags and LWD common. The stand's SW edge drops down a steep slope. The 2010 Meridian Fire burned into the SE end of the stand. Carried forward the previous inventory NPO age.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		10	Pole/Log	8		White Pine		Medium	Variable	Sapling	
Bigtooth Aspen		4	Log/XLog/Pole	15		Red Pine		Medium	Variable	Sapling	
Northern Pin Oak		5	Log/XLog	13	101						
Red Pine		70	Log/Pole/XLog	15	92						
White Pine		10	Pole/Log	8	60						
Balsam Fir		1	Pole	7							
170	6120 - Lowland Cedar	Sawtimber Well	4.1	142	141-170	N/A	Floodplain stand of NWC and spruce. Stream flows out the stand's east end. NWC seedlings were planted and caged along the river by the Cedars for the AuSable volunteer program.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		75	Log/XLog	15	142	Balsam Fir		High	Variable	Sapling	
Black Spruce		15	Pole/Log	8		Tag Alder		Low	Variable	Tall Shrub	
Balsam Fir		5	Pole/Sapling	7							
Quaking Aspen		5	Log	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
171	4130 - Aspen	Poletimber Well	8.4	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Aspen filled in well, along with some fir (mainly perimeter, being impacted by SBW).																																																																													
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172	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	16.1	49	81-110	N/A	The stand encompasses islands of slightly drier ground separated by flooded swales. The ground becomes increasingly wet in the S1/2 and is dotted with sub-acre leatherleaf bogs and tag alder wetlands. There appears to be a younger age class present in the spruce but it was not cored to confirm. An acre of boundary-excluded retention for stand 153's 2021 harvest was merged with this stand at the north end.																																																																													
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173	4130 - Aspen	Sapling Well	10.2	26	1-50	N/A	Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. Scattered WP & RP were left. Filled in well with aspen that is still transitioning into the pole class. The fir is being impacted by SBW. Traces of leatherleaf in the SW.																																																																													
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174	4130 - Aspen	Poletimber Well	10.0	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Filled in well with aspen except for 1.5 acres of sparser pine-fir-BC cover in the NE. The few clones with black canker are smaller diameter.																																																																													
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175	6220 - Alder/willow	Nonstocked	5.2		Unspecified	No	Tag alder and salix on flooded ground, with perimeter Q-E-P.																																																																													



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176	4130 - Aspen	Poletimber Well	11.3	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Filled in well with aspen and fir. The east stand boundary has been contracting over the years from beaver activity. Cover is sparse within the stand's current east edge due to ongoing beaver cutting and flooding; the remaining cover there is mostly fir and stressed WP-RP.																																																
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177	6229 - Mixed lowland shrub	Nonstocked	10.6	0	Unspecified	6117 - Lowland Deciduous, Mixed Coniferous	Mature mixed lowland conifer-deciduous stand was final harvested in 2021 (#037-15), cutting stems 2"+ DBH except one interior and one boundary-excluded retention island (0.9 acres total, both kept within the stand boundary). Some aspen regenerated on the perimeter but most of the stand is non-forested. The RM stump sprouts have been heavily browsed.																																																
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178	42110 - Planted Red Pine	Poletimber Well	9.9	35	51-80	N/A	Overmature JP stand was final harvested in early 1987 (#078-86), spec'd to cut stems 2"+ DBH. A considerable amount of RP-WP were left. Later that year, the stand was trenched and planted to RP (C72-184). Rows weave around the residual, and vacant stretches are common. WP was chosen as a surrogate to represent the residual RP age. If not for a MIFI limitation, the RP would have been split into two canopy records: planted: 65%, 6" DBH, P-S, 35 yrs; and residual: 20%, 11" DBH, L-P, 57 yrs. The NW acre of the plantation was burned in a 1995 wildfire and was merged into the adjacent fire-regenerated stand 156.																																																
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179	4130 - Aspen	Poletimber Well	7.2	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Filled in well with aspen and fir. Most of the fir is still in the subcanopy.																																																
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180	4134 - Aspen, Spruce/Fir	Sawtimber Medium	10.1	78	51-80	N/A	Marginal, upland A-MC/MD stand. The aspen didn't have a uniform regen event; there appears to be a range of ages present. The overmature A-JP-NPO are breaking up. Canopy closure drifts off either end of 50%. Two former landings that were sited within the stand have mostly sapling cover. Fir increases in the W1/2, RP is mainly along the NE edge. A clearcut treatment was approved by variance in 2018.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		2	Log/Pole/XLog	12		Balsam Fir		
Bigtooth Aspen		5	Log/Pole/XLog	12		White Pine		
Quaking Aspen		42	Log/Pole	12	78	Red Pine		
Red Maple		1	Log/Pole	12		Quaking Aspen		
Jack Pine		5	Log	14		Black Cherry		
Red Pine		10	XLog/Log/Pole	20				
Balsam Fir		20	Pole	7	48			
Black Cherry		5	Pole	6				
Northern Pin Oak		10	Log/XLog/Pole	12				
181	4130 - Aspen	Sapling Well	11.2	13	1-50	N/A	Aspen stand was final harvested in 2009 (#036-06), cutting stems 2"+ DBH except RP-WP-ash. Filled in well with aspen except for along the east edge and under the heavier pine residual in the north and west. The most intact pine residual was shifted to adjacent stand 183.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		5	Log/Pole/XLog	12		Black Cherry		
Black Cherry		3	Sapling	2		Red Maple		
Balsam Fir		2	Sapling/Pole	2		Choke Cherry		
Red Pine		10	Log/Pole/XLog	13	66			
Quaking Aspen		80	Sapling	2	13			
182	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Poor	6.8	50	1-50	N/A	Marginal mixed stand with heavy mortality in the overmature JP-A-NPO-fir. The W1/2 appears on the air photos to have been open from past disturbance, with tree cover slowly growing in. BC is actually a canopy dominant. There are large RP-WP scattered across the stand. The understory alternates between full cover in WP regen or BC brush. The E1/2 of the stand was part of stand 196 last YOE and set up for shelterwood harvest. There wasn't enough RP-WP to reach 40 BA there, so JP, fir and BC were also marked to leave.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		20	Pole/Log/Sap	7		Red Pine		
Quaking Aspen		20	Log/Pole	11		Balsam Fir		
Red Pine		10	Log/XLog	16	100	Black Cherry		
White Pine		5	Log/Pole/XLog	13		White Pine		
Jack Pine		5	Log	12				
183	42290 - Natural Mixed Pine	Sawtimber Well	10.7	73	141-170	N/A	Variable, naturally-established RP stand with significant WP-A-RM components. The stand's west side has denser, smaller-diam RP cover with scattered aspen. The middle has more xlog pine with RM-A and low ground inclusions. The south end grades down onto transition ground with increasing WP-A. The NE picks up the heavier residual pine from stand 181's 2009 species-removal harvest. The WP canopy record was chosen as a surrogate to represent the older RP age class that is present.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Pine		20	Pole/Log/XLog	9	100	White Pine		
Paper Birch		1	Log	12		Quaking Aspen		
Northern Pin Oak		1	Log/Pole	10		Balsam Fir		
Red Maple		10	Pole/Log	8		Black Cherry		
Balsam Fir		3	Pole	6				
Red Pine		55	Log/Pole/XLog	14	73			
Quaking Aspen		10	Log	14				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																								
184	4130 - Aspen	Sapling Well	9.5	13	Immature	N/A	Mature aspen stand was final harvested in 2009 (#013-06), cutting all A-O-JP-RM-F stems 2"+ DBH. Widely-scattered WP-RP were left. The stand regenerated well to aspen. The fir is being impacted by SBW. A low swale crosses through the SW; balsam poplar was seen there. Beaver are cutting on the south edge closest to the river.																																																																								
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185	6122 - Black Spruce	Poletimber Well	10.3	86	81-110	N/A	Lowland spruce-fir stand flanking the river, with NWC mainly in the SE. There are immature to overmature components in both the spruce and fir. The overmature aspen and fir are breaking up. Second age estimate on the NWC was drawn from stand 170.																																																																								
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186	4130 - Aspen	Poletimber Well	8.9	33	51-80	N/A	Aspen stand was final harvested in 1989 (#061-87), cutting stems 2"+ DBH. Regenerated to aspen with fir-WP increasing on the low, seepy ground in the S, and traces of NPO on the north edge. The 2010 Meridian Fire burned into the SE corner of the stand.																																																																								
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187	4130 - Aspen	Sapling Medium	9.6	13	1-50	N/A	Mature aspen stand was final harvested in 2009 (#036-06), cutting stems 2"+ DBH except RP-WP-ash. The stand is an upland-lowland mosaic, with QA, residual pine, and U-inclusions on the dry ground, balsam poplar mixing in on the lower ground, and tag alder or marsh inclusions on the lowest ground. Residual WP-RP are mainly in the NE and the NW.																																																																								
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190	6120 - Lowland Cedar	Sawtimber Well	36.6	132	171-200	N/A	NWC stand on the river floodplain. Was separated previous YOE from the NWC stand to the SW because it is larger diameter and has less die-back.																																																					
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191	429 - Mixed Upland Conifers	Sawtimber Well	22.8	52	141-170	N/A	Long, narrow stand lies partially within river and tributary RMZs. Cover is predominantly fir with overmature aspen and varying distribution in WP & RM. RP increases in the west end. A lot of deadfall fir and aspen. The stand picks up low ground along the stream that crosses the east end.																																																					
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192	4126 - White, Black, N. Pin Oak	Sapling Medium	6.3	14	1-50	N/A	Mature JP stand was final harvested in 2008 (#011-06), spec'd to cut merch stems except green-marked and balsam fir. WP-RP were also left scattered across the stand. Oak regen passed the 2014 YOE survey. The oak includes vigorous stump-origin regen from the cut, single-stem regen, and large sap/small pole residual from the cut. The NPO has more regen than residual, so its age was set to the harvest. The WO has considerably more in small pole residual than regen, so the second age was based on that older component.																																																					
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193	4130 - Aspen	Poletimber Well	5.5	26	1-50	N/A	Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. Filled in well with aspen. Enough has transitioned into the pole class (30%) that the stand has to be called pole overall. Fir is being impacted by SBW. Beaver have been reducing the aspen in the SE. Traces of Japanese barberry were seen on the old road crossing through the stand.																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
194	4130 - Aspen	Poletimber Well	10.2	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Filled in well with aspen, along with RP-WP-Q scattered and in a patch in the SE. The aspen is smaller diameter on the low ground by the beaver flooding. Beaver are cutting aspen there and flood-killing the pine.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		2	Pole/Sap/Log	7		Black Cherry		Medium	Variable	Tall Shrub	
Quaking Aspen		92	Pole/Sapling	6	35						
White Pine		2	Pole/Sap/Log	6							
Balsam Fir		2	Pole/Sapling	6							
Black Spruce		1	Pole/Sapling	5							
Tamarack		1	Pole/Sapling	5							
195	42210 - Natural Red Pine	Sawtimber Well	13.4	97	171-200	N/A	Naturally-established stand of RP with WP (increases in the N1/2). The pine is tall and clean-boled. A-RM-F are scattered across the stand. There is a pocket of RP mortality in the center-east. The stand was marked for thinning two YOEs ago. The 2014 YOE approved thinning treatment was changed to clearcut by a variance approved in 2018. The redlined harvest area excludes the Natural Rivers restricted cutting zone.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		1	Log/Pole	11		Black Cherry		Low	Variable	Tall Shrub	
Quaking Aspen		5	Log/Pole	15		White Pine		Medium	Variable	Sapling	
Balsam Fir		2	Pole	7		Balsam Fir		Low	Variable	Sapling	
White Pine		25	Log/XLog/Pole	16							
Red Pine		65	Log/XLog/Pole	16	97						
Red Maple		2	Pole/Log/XLog	9							
196	42210 - Natural Red Pine	Sawtimber Medium	3.4	68	111-140	N/A	Small, variable pine stand that doesn't fit neatly into any one DBH class, BA range, or canopy closure category. Even though the stand is less than four acres, it is made up of 3 distinct patches of pine: the NW is heavy to xlog RP-WP at 50-75% canopy closure, the NE has a high-BA pocket of smaller diam RP-WP, and the SW picks up WP-RP residual at 25-50% canopy closure from stand 204's 2009 species-removal harvest. The stand's dominant age was set to the pine in the NE and the secondary age was set to the xlog in the NW. Both ages classes are present in the RP & WP. The stand picks up low ground on the east edge.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		20	XLog/Log/Pole	20	108	Quaking Aspen		Low	10 - 20 feet	Sapling	
Red Maple		5	Log/Pole	12		Balsam Fir		Low	Variable	Sapling	
Red Pine		70	Log/Pole/XLog	13	68	White Pine		Medium	Variable	Sapling	
Quaking Aspen		5	Log/Pole	12		Black Cherry		Low	Variable	Tall Shrub	
198	6123 - Lowland Fir	Sapling Medium	5.5	47	1-50	N/A	Mature aspen stand was final harvested in 1997 (#071-94), spec'd to cut stems 2"+ DBH. The harvest left scattered residual pine and pockets of advanced fir regen. That residual now forms the main canopy, along with patches of aspen and fir regen from the cut. The stand is a lowland-upland mosaic, with balsam poplar, L2 or N on the lowest ground.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		3	Pole	6		Balsam Fir		Low	5 - 10 feet	Sapling	
Balsam Poplar		20	Sapling/Pole	3	25	Black Cherry		Low	Variable	Tall Shrub	
Quaking Aspen		20	Sapling/Pole	3	25	Prickly Ash		Trace	< 5 feet	Tall Shrub	
Black Spruce		2	Sapling/Pole	4		Willow spp.		Trace	5 - 10 feet	Tall Shrub	
White Pine		5	Pole/Log/Sap	6		Tag Alder		Trace	10 - 20 feet	Tall Shrub	
Balsam Fir		50	Sapling/Pole	4	47						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																
200	4310 - Pine, Oak Mix	Poletimber Well	8.5	35	51-80	N/A	Overmature JP stand was final harvested in early 1987 (#078-86), cutting stems 2"+ DBH. Later that year, it was trenched & planted to RP (C72-184). Plantation integrity falls apart in the W1/2 were the oak competition was heaviest. The stump-origin oak regen from the cut is vigorous and competitive with the RP.																																																																																
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201	6220 - Alder/willow	Nonstocked	2.4	0	Unspecified	No	Tag alder on the floodplain.																																																																																
202	6124 - Lowland Spruce-Fir	Poletimber Medium	50.1	50	51-80	N/A	The stand encompasses a mosaic of flooded, intermediate, and marginally dry ground. NWC increases toward the NW: it is healthy and larger diam on the transition ground, but on the core saturated ground it is smaller and top-dying. Flooded swales where the ash died out have sparse fir and balsam poplar cover. There are treed bog inclusions with spruce over leatherleaf. Transition ground in the NE has WP-QA-F. Islands of drier ground in the east-center have sparse F-RM-A cover. Tamarack increases on the south edge. Carried forward previous inventory ages on the spruce & cedar.																																																																																
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203	6224 - Treed Bog	Nonstocked	1.6	0	Unspecified	No	Bog with leatherleaf and labrador tea. Encroaching spruce and pine have reached the level of treed bog. MNFI-identified ERA bog.																																																																																
204	4130 - Aspen	Sapling Medium	7.5	13	Immature	N/A	Aspen stand was final harvested in early 2009 (#010-09), cutting stems 2"+ DBH except RP-WP (not designated as retention). The treatment to final harvest with no retention was approved by variance in 2007. Dense aspen clones alternate with sparse upland shrub openings. Heavier pine residual on the east side was shifted to stand 196 and is set up for shelterwood harvest (#036-18). The stand picks up low ground on its west and south sides.																																																																																
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205	6139 - Mixed Lowland Forest	Sawtimber Poor	6.0	70	1-50	N/A	From the imagery, appears to be patchy P/E/Q cover on islands of slightly drier ground within a large former beaver flooding.																																																																																
206	6220 - Alder/willow	Nonstocked	1.9	0	Unspecified	No	Tag alder with scattered P-Q.																																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
207	4199 - Other Mixed Upland Deciduous	Poletimber Medium	11.0	35	1-50	N/A	JP-O-RM stand was final harvested in 1987 (#079-86), spec'd to cut stems 2"+ DBH, but some merch WP was left. The canopy is primarily O-RM regen from the cut with open-grown WP scattered above. RM increases to the S & W, at 75-100% canopy closure. The N & E has more of the oak, at 25-50% closure.																																																									
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208	4130 - Aspen	Sapling Medium	25.1	2	1-50	N/A	AMC stand was final harvested in 2020 (#032-17), cutting stems 2"+ DBH except O-WP, green-marked RP, and retention around the intermittent stream. That retention was merged with stand 65 (see Site Condition layer). BTA and quaking aspen are filling in. Heavy deer browse on the RM. The S1/4 of the stand is on low ground grading down to the stream corridor; NWC was left there and regen is sparser. There continues to be windthrow and breakage in the residual pine & oak. A lot of LWD, pre- and post-harvest.																																																									
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209	6124 - Lowland Spruce-Fir	Poletimber Medium	39.3	110	51-80	N/A	Cover is a mosaic of spruce, fir, NWC and tamarack, on saturated ground. Cedar diameter and health decreases in the stand's interior. Tamarack occupies the flooded ground in the SE. The understory alternates between high cover in fir and high cover in tag alder. Carried forward the previous inventory ages on the NWC & fir.																																																									
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210	4134 - Aspen, Spruce/Fir	Poletimber Well	6.1	35	81-110	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Regenerated to quaking aspen and fir, on upland ground dissected with low swales. Balsam poplar on the lowest ground. Fir is filling in where beaver have been reducing the aspen.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
211	4130 - Aspen	Poletimber Well	14.7	35	51-80	N/A	Aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Fir & WP were left on the N 1.5 acres. Filled in well with aspen. The few clones with black canker are smaller diameter.																																																										
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213	3301 - Low Density Deciduous Trees	Nonstocked	6.1	0	Unspecified	No	Cleared road corridor, river access parking lot, and low-density tree cover between the road and the RP plantation (BC, pole-sap-log NPO, RP, JP, and traces of barberry).																																																										
214	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	12.9	14	1-50	N/A	Mature JP stand was final harvested in 2008 (#011-06), cutting merch stems except balsam fir and green-marked trees. Three-layered canopy: O-RM-A regen from the cut, sap-pole O-RM released by the cut, and residual pole-log Fir-WP-RP. The oak stump sprouts are vigorous and have recruited. RM increases in the S1/2 and oak in the N1/2. BF occurs mostly in the east third.																																																										
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215	500 - Water	Nonstocked	5.1		Unspecified	No	Terraced beaver pond.																																																										
216	42290 - Natural Mixed Pine	Sapling Poor	7.7	13	1-50	N/A	Mature JP was final harvested in 2009 (#036-06), cutting stems 2"+ DBH except RP-WP-Ash. Residual WP-RP are scattered across the stand and increase on the perimeter (carried forward previous inventory ages on both). JP regen established in opener areas, along with patches of BC. WP-RP-S-F are continuing to seed in. As that seedling layer recruits, the canopy closure will shift into the 50-75% category. Gall rust common on the JP. Stand picks up low ground along the NE edge.																																																										
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217	42210 - Natural Red Pine	Sawtimber Well	14.3	98	201+	N/A	Naturally-established stand of RP with a minor WP component and traces of A-RM-PB. Dense stocking across most of the stand resulted in tall, clean-boled, and relatively small-diameter RP for its age. Excessively-stocked areas are self-thinning, and small pockets of mortality have developed. Stocking is more moderate and diameters are larger on the perimeter and down the hill in the north end. The stand was marked for thinning last YOY but access issues (beaver flooding) have delaying carrying out the treatment.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
218	4123 - Red Oak	Sawtimber Poor	121.6	107	51-80	N/A	Mature oak stand on rolling to steep terrain was shelterwood harvested in 2009 (#051-05), cutting merch stems except RP, WP, green-marked (cruised ave 40 sq ft O-A-WP-RP), a pine island in the middle of the stand and another on the center-W edge. Residual oak-pine is the featured canopy, averaging in the low end of 51-80 BA. Traces of mature BTA were also marked to leave. The mature RO is declining, with upper crown die-back and epicormic branching common. The WP pole component is split between the canopy and subcanopy. Regen from the cut is heavy to RM with patches of aspen and traces of oak. The oak stump-sprouts are fizzling out under the shelterwood levels of residual cover.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	1	Log/XLog	16		White Pine	Low		Variable	Sapling
White Oak	12	Log	13		Witch Hazel	Low		Variable	Tall Shrub
White Pine	10	Pole/Log/XLog	9		White Pine	Low		>20 feet	Pole
Red Pine	2	XLog/Log	20		Red Oak	Trace		10 - 20 feet	Sapling
Red Oak	75	Log/XLog	15	107	Black Cherry	Low		5 - 10 feet	Tall Shrub
					Red Maple	High		>20 feet	Sapling
					White Oak	Trace		Variable	Sapling
					Bigtooth Aspen	Medium		>20 feet	Sapling
219	6120 - Lowland Cedar	Sawtimber Well	29.0	132	171-200	N/A	Long, narrow cedar stand flanking the river. The NWC is larger-diameter and healthier on the slightly drier ground. The more saturated soils have smaller-diameter cedar with increasing top die-back. Numerous groundwater seeps feed into the river. Cedar mortality is heaviest along the west bank of the river, toward the stand's north end.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	4	Log/Pole	11		Balsam Fir	Medium		Variable	Sapling
Balsam Fir	5	Pole	6		Tag Alder	Low		Variable	Tall Shrub
Red Maple	5	Log/Pole	12						
Black Spruce	10	Pole/Log	8	88					
Northern White Cedar	75	Pole/Log	9	132					
White Pine	1	XLog	28						
220	6239 - Mixed Emergent Wetland	Nonstocked	56.7		Unspecified	No	Terraced beaver marsh with patches of tag alder, salix, and P-E-Q.		
222	6112 - Lowland Aspen	Poletimber Well	13.7	35	81-110	N/A	Mature aspen stand was final harvested in 1987 (#060-87), cutting stems 2"+ DBH. Upland ground in the SE gradually transitions to lowland ground moving N & W. Filled in well with quaking aspen and fir, with balsam poplar on the lowest ground. There are mucky seeps on the lower slopes.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	1	Pole	7	35	Black Cherry	Low		5 - 10 feet	Tall Shrub
Red Pine	2	Pole/Sapling	6		Balsam Fir	Medium		Variable	Sapling
White Pine	3	Pole/Sap/Log	6						
Red Maple	5	Sapling/Pole	4	35					
Quaking Aspen	65	Pole	6	35					
Balsam Fir	15	Pole/Sapling	5						
Black Cherry	1	Pole	7						
Balsam Poplar	8	Pole/Sapling	5	35					
224	6112 - Lowland Aspen	Poletimber Well	10.2	35	51-80	N/A	Mature aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Regenerated well to aspen & fir, with sparser cover in the flooded tag alder swales. About a third of the stand is on uplands; the rest is on transition and low ground. The BTA is on the highest ground in the east. The quaking aspen is smaller-diam than expected for its age. Traces of NWC in an uncut pocket on the W edge.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Sapling/Pole	3	35	Choke Cherry	Low		5 - 10 feet	Tall Shrub
Quaking Aspen	60	Pole/Sapling	5	35	Tag Alder	Trace		10 - 20 feet	Tall Shrub
Balsam Fir	15	Pole/Sapling	5		Balsam Fir	Low		Variable	Sapling
White Pine	1	Pole	9		Black Cherry	Medium		5 - 10 feet	Tall Shrub
Bigtooth Aspen	14	Pole	6	35					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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225 42120 - Planted Jack Pine Poletimber Well 4.7 35 51-80 N/A One of 6 blocks of an overmature JP stand that was final harvest in 1987 (#081-86), cutting stems 2"+ DBH. JP was planted in 1987. The JP has persistent dead limbs.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	90	Pole/Sapling	6	35	Black Cherry	Low	5 - 10 feet	Tall Shrub
Black Cherry	4	Sapling/Pole	4	35				
Red Pine	3	Log/Pole	10					
White Pine	1	Log	10					
Northern Pin Oak	2	Pole	6	35				

227 4319 - Mixed Upland Forest Sawtimber Medium 27.6 67 81-110 N/A Narrow, variable AMC stand that separates managed aspen and RP stands. Portions also fall within river and stream RMZ's. Upland ground except along the streams and swamp edge. The overmature aspen and fir components are breaking up. Previous inventory ages on the aspen included in this merged stand were 44, 67 & 84 years. There isn't a bright line between this stand's upland w/ lowland cover and adjacent stand 240's lowland w/ upland cover.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	40	Log/Pole	11	67	White Pine	Medium	Variable	Sapling
Black Cherry	5	Pole	7		Black Cherry	Low	Variable	Tall Shrub
Balsam Fir	25	Pole/Sapling	7	45	Balsam Fir	Medium	Variable	Sapling
Red Pine	5	XLog/Log	18					
Bigtooth Aspen	5	Log/Pole	10					
White Pine	10	Pole/Log/XLog	8					
Black Spruce	3	Pole	7					
Paper Birch	1	Log/Pole	10					
Red Maple	5	Log/Pole	12					
Northern Pin Oak	1	Log/XLog	16					

228 6112 - Lowland Aspen Sapling Poor 52.0 2 Immature N/A AMC stand was final harvested by April 2020 (#032-17), cutting stems 2"+ DBH except RP-WP >26" DBH, boundary-excluded retention, and interior pockets that were too wet to harvest. Quaking aspen is filling in on the intermediate ground. The lowest ground has sparse cover. BTA occurs on the dry SE hillside. Canopy closure ranges from LDT to 50-75%.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	65	Sapling	1	2	Choke Cherry	Low	< 5 feet	Tall Shrub
Balsam Poplar	2	Pole	6		Hawthorn (spp.)	Trace	10 - 20 feet	Tall Shrub
Red Pine	2	XLog	26		Tag Alder	Trace	Variable	Tall Shrub
Bigtooth Aspen	5	Sapling	1	2				
Balsam Fir	1	Sapling/Pole	3					
Black Spruce	1	Sapling/Pole	3					
Black Cherry	20	Sapling	1	2				
Red Maple	2	Sapling/Pole	3					
Tamarack	2	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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229 429 - Mixed Upland Conifers Sawtimber Well 44.5 119 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	2	Log/Pole	11		Balsam Fir	High	Variable	Sapling
Northern Pin Oak	3	Log/XLog/Pole	15					
White Spruce	2	Pole	7					
White Pine	13	XLog	26	130				
Red Pine	25	Log/XLog/Pole	16	119				
Paper Birch	1	Pole/Log	8					
White Pine	25	Pole	8	70				
Bigtooth Aspen	1	Log/XLog	15					
Balsam Fir	5	Pole	6					
Quaking Aspen	3	Log/Pole	11					
White Oak	1	Pole/Log/XLog	9					
Red Maple	15	Log/Pole	11					
Jack Pine	4	Log	11	88				

Variable mixed pine stand along the river. The narrow middle portion on a steep sideslope has RP with WP. The wider N & S ends on flat ground have WP with RM & RP. The largest xlog WP is in the SW & the NE. Hickey Creek crosses through the SW end. There is a younger class of pole-log WP that had to be listed as pole-only in order to list a second canopy record for the xlog WP. Considerable amount of DWD from the overmature JP, aspen, fir, and NPO breaking up. An acre of white spruce was planted along the footpath in the NE. The stand is majority upland with low to intermediate ground in the SW and along the river. Traces of NWC there. Carried forward the previous inventory RP & JP ages.

230 6112 - Lowland Aspen Sapling Medium 4.5 4 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Sapling	1	4	Black Cherry	Low	< 5 feet	Tall Shrub
Red Maple	3	Sapling	3					
Northern Pin Oak	5	Log/XLog/Pole	15					
White Oak	1	Sapling/Pole	4					
White Pine	4	Pole/Log/Sap	7					
Red Pine	2	Log/XLog	17					
Black Cherry	5	Sapling	1	4				

Mature aspen stand was final harvested in 2018 (#033-15), cutting stems 2"+ DBH except oak & pine. Large sap/small pole O-RM were also left. Half of the harvest area was not cut due to rec trail concerns and low ground (split off and merged with adjacent stands). The stand is on a mix of intermediate, low, and dry ground. A flooded swale crosses at the bottleneck. The mature NPO is dying out. Residual is mainly along the south edge, by the pathway. Aspen is continuing to fill in except on the lowest ground.

231 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 27.4 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Pole/Log	8	95	Red Maple	Medium	Variable	Sapling
Red Pine	1	XLog	20		Black Cherry	Low	5 - 10 feet	Tall Shrub
White Oak	15	Log/Pole	13		White Pine	Low	Variable	Sapling
Balsam Fir	1	Pole	7		Witch Hazel	Low	10 - 20 feet	Tall Shrub
Bigtooth Aspen	5	Log/Pole	12					
White Pine	20	Log	12	60				
Quaking Aspen	5	Log/Pole	12					
Jack Pine	1	Log	12					
Red Oak	2	Log/XLog	16					

Marginal stand of stump-origin RM and declining NPO, with lesser components of WP-WO, and scattered aspen. There are traces of NRO on the NW edge. Most of the stand south of the road occupies a sideslope down to the swamp. There are patches of advanced RM and WP regen. Carried forward the previous inventory ages on the NPO & WP.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
232	42120 - Planted Jack Pine	Sapling Medium	14.1	10	1-50	N/A	Mature JP stand was final harvested in early 2009 (#036-06), cutting stems 2"+ DBH except RP-WP. Was trenched in 2009 and planted to JP in 2010 (C72-607). Stand failed Yr 1 regen check & was replanted in 2012. Passed Year 3 regen check to a mix of planted JP and natural regen. Open-grown residual RP-WP and patches of fir are scattered across the stand. Marginal JP plantation with a lot of cherry brush.																																																																		
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234	6239 - Mixed Emergent Wetland	Nonstocked	17.2		Unspecified	No	Marsh with patches of tag alder, salix, and flood-killed perimeter Q-P.																																																																		
235	4130 - Aspen	Poletimber Well	12.7	25	51-80	N/A	Mature aspen stand was final harvested in 1997 (#071-94), cutting stems 2"+ DBH. BTA occupies most of the uplands, with quaking aspen and fir on the transition and low ground. There are two small wetlands flanking the road. Most of the low ground is in the W & SW.																																																																		
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236	42220 - Natural Jack Pine	Poletimber Poor	7.6	35	1-50	N/A	One of six blocks of an overmature JP stand that was final harvested in 1987 (#081-86), cutting stems 2"+ DBH. The stand was partially furrowed but not planted. The naturally-established JP is very open-grown. Almost a pine barrens.																																																																		
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237	4130 - Aspen	Poletimber Well	4.8	35	51-80	N/A	Mature aspen stand was final harvested in 1987 (#082-86), cutting stems 2"+ DBH. Filled in well with aspen and mixed conifers. Beaver cutting on the west edge has reduced the aspen, shifting the cover to more fir, pine & spruce. A tag alder swale cuts through the stand's middle.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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238 42210 - Natural Red Pine Sawtimber Poor 36.5 56 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	85	Log/Pole/XLog	13	56	Jack Pine	Medium	5 - 10 feet	Sapling
White Pine	14	Pole/Log	9	94	Black Cherry	Medium	Variable	Tall Shrub
Balsam Fir	1	Pole	6		Balsam Fir	Trace	Variable	Sapling
					White Pine	Low	Variable	Sapling
					Northern Pin Oak	Trace	10 - 20 feet	Sapling

Mature JP was final harvested in early 2009 (#036-06), cutting stems 2"+ DBH except RP-WP. Open areas were trenched in 2009 and planted to JP in 2010 (C72-607). Stand failed Yr 1 regen check & was replanted in 2012. Passed Year 3 regen check to a mix of planted JP and natural oak regen. The variably-distributed residual is the featured canopy, composed of relatively young RP (mid-50's) with a second older age class (mid-90's) and scattered legacy stems. The WP component is also relatively young (mid-50's) but that canopy record was chosen as a surrogate to represent the older RP class. A current MiFI "rule" prevents listing the same species twice unless they differ by 2 size classes. Small portion of the stand east of Willows Rd was excluded from the harvest.

239 42290 - Natural Mixed Pine Sawtimber Poor 9.5 72 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	1	Log/Pole	11		Northern Pin Oak	Medium	5 - 10 feet	Sapling
Bigtooth Aspen	3	Log/Pole/XLog	15		White Pine	Low	< 5 feet	Sapling
Red Pine	55	Log/Pole/XLog	13	72	Jack Pine	Medium	5 - 10 feet	Sapling
Red Maple	10	Pole/Log	8		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Northern Pin Oak	10	Log/XLog	13	102	Red Maple	Low	10 - 20 feet	Sapling
Jack Pine	2	Log/Pole	10					
White Pine	15	Log/Pole/XLog	11					
Balsam Fir	4	Pole	7					

The 2010 Meridian Fire burned through most of the stand, entirely killing strips of the canopy, thinning out some patches, and leaving the north end largely intact. There is planted RP in the south half and naturally established RP with RM in the north. WP & NPO occur throughout. Locally full understory cover in advanced NPO-JP regen in the heavily burnt areas. Canopy closure varies widely (LDT - 100%), ave toward the high end of 25-50%. Didn't core the planted RP for age.

240 6112 - Lowland Aspen Sawtimber Well 46.8 66 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Log/Pole	10	66	Black Cherry	Low	Variable	Tall Shrub
Red Pine	1	Log/Pole/XLog	11		Tag Alder	Low	Variable	Tall Shrub
Black Spruce	6	Pole	7		Balsam Fir	Medium	Variable	Sapling
Bigtooth Aspen	3	Log	12					
Balsam Poplar	5	Log/Pole	10					
Balsam Fir	20	Pole/Sap/Log	6	46				
Red Maple	10	Log/Pole	11					
White Pine	2	Pole/Log/Sap	7					
Paper Birch	1	Log	16					
Northern White Cedar	2	Log/XLog	15					

Aspen-fir stand on intermediate to low ground, with dry ground on the hillside around stand 254 (the BTA is on that hill). More fir by BA than canopy % due to intermediate canopy position, generally below the aspen. This was several small aspen stands 2 YOE's ago, with a range of ages ave'd together for the current stand's dominant age. The older fir and aspen components are breaking up. The stand is dissected with flooded swales, the largest being: from stand 206 south to the comp boundary, between stands 206 and 244, and along the stream that flows NE from stand 244 out to Douglas Creek. Transition ground in the north end was prescribed and set up for harvest last YO'E but has been delayed by access issues (beaver flooding).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
241	4130 - Aspen	Poletimber Well	7.1	35	51-80	N/A	Overmature aspen stand was final harvested in 1987 (#079-86), cutting stems 2"+ DBH. BTA in the NW transitions to QA moving downhill to the east. Scattered WP were left, mainly on the perimeter.																																																				
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242	6122 - Black Spruce	Poletimber Medium	7.4	54	81-110	N/A	Spruce-fir stand on a mosaic of low and intermediate ground. Locally full cover in tag alder on the lowest swales. Tree cover is dense on the intermediate ground and sparser on the more saturated ground. Intermittent stream crosses through the stand. RM-fir increase NW of the stream.																																																				
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243	4131 - Aspen, Oak	Poletimber Well	15.1	44	81-110	N/A	The stand was harvested in the late 1970's when in USFS ownership, leaving a few pine and excluding a one-acre strip on the SE edge that was already in state ownership. That uncut strip has overmature aspen and oak (combined 2nd age cohort). The 44 year-old aspen and oak is pole-sized, and the log component is the mature residual. The stump-origin oak from the harvest is vigorous and codominant with the A-RM. The oak increases in the middle of the stand, at 50-75% canopy closure. The A-RM cover is at 75-100% closure. WP is mainly in the valley through the center of the stand.																																																				
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244	6124 - Lowland Spruce-Fir	Poletimber Medium	7.0	58	51-80	N/A	The stand is very wet except on the transition ground perimeter. There is dense, younger spruce cover on the perimeter and older, sparser spruce cover in the interior. Cedar on the perimeter is healthy and larger diameter. On the core interior, the cedar is smaller diameter and struggling. A stream flows out of the north-center edge of the stand.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
247	6112 - Lowland Aspen	Poletimber Well	34.5	54	111-140	N/A	Aspen stand starts out on uplands by the RP plantation, then transitions onto lowland soils moving N & W. The 2010 Meridian Fire burned into the upland portion. Dominant cover is A-F-RM with pockets of RP. The largest patch of RP is 3 acres in the NW. The far NE has flooded ground and some windthrow. More fir by BA than by canopy percentage. WP increases on the Douglas Creek RMZ hillside. Traces of JP & paper birch.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	50	Pole/Log	8	54	Tag Alder	Trace		10 - 20 feet	Tall Shrub
Black Spruce	2	Pole/Log	8		Black Cherry	Low		5 - 10 feet	Tall Shrub
Northern Pin Oak	2	Log/XLog	14		Balsam Fir	Medium		Variable	Sapling
Bigtooth Aspen	2	Pole/Log	9						
Northern White Cedar	1	Log/XLog	13						
Balsam Fir	20	Pole	6						
Red Maple	10	Pole/Log	8						
Red Pine	10	XLog/Log/Pole	20	106					
White Pine	3	Pole/Log/XLog	8						
249	4125 - Black, N. Pin Oak	Sapling Medium	22.2	2	Immature	N/A		Mature JP plantation was final harvested in 2020 (#032-17), cutting stems 2"+ DBH. The 2010 Meridian Fire had burned through the stand and top-killed patches in the E1/2. Those heavily-burnt areas have advanced oak-JP regen from the fire at 75-100% canopy closure. The rest of the stand has oak regen from the cut at 25-50% closure. Combined ave at the low end of 50-75% canopy closure. That younger oak is experiencing some browse but a few stems per stump clump are making it. Roughly 60-40 split between 2 & 12 year old regen, Heavy LWD from downed snags.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
White Oak	4	Sapling	1		Jack Pine	Trace	< 5 feet		Seeding
Jack Pine	20	Sapling	1	12	Black Cherry	Medium	< 5 feet		Tall Shrub
Black Cherry	5	Sapling	1	12					
Paper Birch	1	Sapling	1	2					
Red Maple	5	Sapling	1	12					
Northern Pin Oak	65	Sapling	1	2					
250	4126 - White, Black, N. Pin Oak	Sawtimber Well	17.6	134	81-110	N/A	Most of this oak-pine stand is on a dry south aspect. The BRO has almost entirely died out. There's a surprising amount of dieback and mortality in the majority WO cover. The WO is older than expected (130+ yrs, not including the xlog oak). WO seedlings form carpets around the seed trees. There is some advanced WO sapling regen and patches of RM. BTA is scattered across the stand. The more sheltered west aspect by the highway has denser, smaller-diameter cover and more pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black/Red (Hybrid) Oak	2	Log/XLog/Pole	16		Black Cherry	Low		Variable	Tall Shrub
Red Maple	5	Pole	7		Red Maple	Low		10 - 20 feet	Sapling
White Oak	65	Log/Pole/XLog	13	134	White Oak	Low		Variable	Sapling
Bigtooth Aspen	7	Log/Pole	11		White Oak	Medium		< 5 feet	Seeding
Red Pine	5	Log/Pole	12		Witch Hazel	Low		5 - 10 feet	Tall Shrub
White Pine	15	Log/Pole/XLog	14	72	Hawthorn (spp.)	Trace		5 - 10 feet	Tall Shrub
Jack Pine	1	Log/Pole	10		Northern Pin Oak	Low		< 5 feet	Sapling
251	4131 - Aspen, Oak	Sapling Well	11.4	26	1-50	N/A		Overmature aspen stand was final harvested in 1996 (#072-94), cutting stems 2"+ DBH. Aspen filled in well on the upper slopes and oak is widespread in the stand's S1/3.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density			Avg. Height
Northern Pin Oak	10	Sapling/Pole	3	26	White Pine	Low	5 - 10 feet		Sapling
Jack Pine	1	Sapling	3		Witch Hazel	Medium	5 - 10 feet		Tall Shrub
Black Cherry	1	Sapling	3		Black Cherry	Low	Variable		Tall Shrub
White Pine	1	Pole	6		White Oak	Medium	< 5 feet		Seeding
Red Maple	7	Sapling/Pole	2	26					
White Oak	10	Sapling/Pole	3						
Bigtooth Aspen	70	Sapling/Pole	4	26					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
252	320 - Upland Shrub	Nonstocked	8.3	0	Unspecified	No	Overmature JP stand with scattered RP was final harvested in 2020 (#035-18), cutting stems 2"+ DBH except a handful of green-marked xlog RP. The stand has patches of big and little bluestem, along with a diverse mast-producing shrub layer (not just BC).					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Red Pine	Trace	>20 feet	Log	
								Black Cherry	Low	5 - 10 feet	Tall Shrub	
								Sand Cherry	Low	< 5 feet	Tall Shrub	
								Serviceberry (Juneberry)	Low	< 5 feet	Tall Shrub	
								Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub	
Sweet Fern	Low	< 5 feet	Tall Shrub									
253	42120 - Planted Jack Pine	Poletimber Well	32.0	35	51-80	N/A	Four of six blocks of an overmature JP stand that were final harvested in 1987 (#081-86), cutting stems 2"+ DBH. JP was planted in 1987. JP in the NE block has persistent dead limbs. Form improves in the south blocks but ave diam is smaller. More NPO in the south blocks.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Northern Pin Oak	4	Pole/Sapling	5	35
								White Pine	1	Log	14	
								Jack Pine	90	Pole/Sapling	6	35
								Black Cherry	4	Sapling/Pole	4	35
								Red Pine	1	Pole/Log	8	
Sub-Canopy Species	Density	Avg. Height	Size									
Black Cherry	Low	Variable	Tall Shrub									
254	42220 - Natural Jack Pine	Poletimber Medium	4.5	44	1-50	N/A	Hilltop stand appears to have regenerated after having been cut-over in the late 1970's. JP seeded in and the oak stump-sprouted. Canopy closure is 75-100% on the perimeter where the WP increases, and 25-50% in the SW where the 2010 Meridian Fire killed part of the canopy JP.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Balsam Fir	3	Sapling/Pole	4	
								White Pine	10	Pole/Log	8	
								Jack Pine	60	Pole	6	44
								Northern Pin Oak	20	Pole	7	
								Red Pine	4	Log	12	
								White Oak	2	Pole/Log	8	
								Red Maple	1	Pole/Sapling	7	
								Sub-Canopy Species	Density	Avg. Height	Size	
Black Cherry	Low	Variable	Tall Shrub									
Jack Pine	Low	Variable	Sapling									
255	4130 - Aspen	Sapling Medium	2.4	3	Immature	N/A	Overmature aspen stand was final harvested in 2019 (#033-15), cutting stems 2"+ DBH. BTA is filling in but cover is sparser in the south end where there was more oak-pine.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Bigtooth Aspen	85	Sapling	1	3
								Black Cherry	5	Sapling	1	
								Northern Pin Oak	5	Sapling	1	3
Red Maple	5	Sapling	1	3								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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256 4199 - Other Mixed Upland Deciduous Sapling Medium 49.3 14 Immature N/A

Mature mixed oak-pine stand was final harvested in 2008 (#011-06), cutting stems 2"+ DBH. There is RM-A and brushy areas but the stand is notable for its vigorous 10-20' tall stump-origin oak. Canopy closure varies from 75-100% in the A-RM to 25-50% where oak-dominated, roughly averages 50-75%. Occasional O-RM small poles and scattered WP.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	5	Sapling/Pole	2		Choke Cherry	Low	< 5 feet	Tall Shrub
Quaking Aspen	10	Sapling	2	14	Black Cherry	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	15	Sapling	3	14				
Northern Pin Oak	30	Sapling	2	14				
Black Cherry	15	Sapling	2	14				
Red Maple	20	Sapling	1	14				
Jack Pine	2	Sapling	1					
White Pine	3	Pole/Log/Sap	7					

257 42220 - Natural Jack Pine Sapling Medium 5.1 12 Immature N/A

The stand was created when the 2010 Meridian Fire killed this patch of the RP plantation. JP seeded in and NPO re-sprouted after the fire. Heavy LWD from the downed snags.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	75	Sapling	1	12
Northern Pin Oak	10	Sapling	1	12
Black Cherry	15	Sapling	2	

258 320 - Upland Shrub Nonstocked 8.2 0 Unspecified 4211 - Planted Red Pine

Mixed pine-oak stand was final harvested in 2019 (#033-15), cutting stems 2"+ DBH. Boundary-excluded island retention along the road was merged with the adjacent uncut stand (see Site Condition layer). Extensive mortality in the JP-NPO was noted in the previous inventory. The pre- and post-harvest LWD will limit cultivation. The small amount of oak regen from the harvest is heavily browsed. The stand has widespread cherry regen.

Sub-Canopy Species	Density	Avg. Height	Size
Choke Cherry	Low	< 5 feet	Tall Shrub
Northern Pin Oak	Trace	< 5 feet	Sapling
White Pine	Trace	5 - 10 feet	Sapling
White Oak	Trace	10 - 20 feet	Sapling
Black Cherry	High	5 - 10 feet	Tall Shrub

259 42110 - Planted Red Pine Poletimber Medium 45.1 54 111-140 N/A

RP plantation was row-thinned by April 2020 (#032-17). Rows were difficult to follow and tight in places, so operable rows were marked to cut during tsale admin. Windthrow along the edges of stands 228 and 257. The 2010 Meridian Fire burned through most of the stand, killing sub-acre patches and one larger spot (stand 257). The RP plantation is fragmented by roads and has poorly-stocked unplanted inclusions along those corridors. There are naturally-established WP & xlog RP scattered across the stand. The planted RP is growing best by stand 265, and moves into a split pole-log size class on that edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	2	Pole	6		Black Cherry	Low	5 - 10 feet	Tall Shrub
White Pine	2	Log/XLog/Pole	16		Red Maple	Trace	Variable	Sapling
Northern Pin Oak	1	Pole	6					
Red Maple	1	Pole/Sapling	6					
Red Pine	4	XLog	18					
Red Pine	90	Pole	8	54				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
260	6130 - Fir, Aspen, Maple	Sawtimber Well	66.4	78	111-140	N/A	The stand is on low to intermediate ground, mostly separated from the river by the cedar swamp stand 219. The Mason Tract Pathway crosses the stand's lowest swales with segments of boardwalk, then runs along a marginally drier whaleback ridge. The overmature A-F is breaking up. Black spruce and NWC mix in more to the NE.																																																														
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262	4310 - Pine, Oak Mix	Poletimber Poor	23.2	49	1-50	N/A	Mixed O-JP-A stand was final harvested in 2019 (#033-15), cutting stems 2"+ DBH except RP-WP-WO. Boundary-excluded island retention along the road was merged with the adjacent uncut stand (see Site Condition layer). An unharvested acre on the center-north edge was merged into this stand because it has similar LDT cover. Extensive mortality in the JP-NPO was noted in the previous inventory, leaving the middle third of the stand at not much above LDT status pre-harvest. Tree cover just makes the forested benchmark through a combination of residual and regen. The residual and regen is unevenly distributed across the stand, separated by upland shrub inclusions. The aspen regen is in the NW. WP residual increases in the N, W & E. The oak cover includes regen from the cut, immature patches protected by the harvest, and scattered mature residual. The oak regen is seeing some browse but appears to be recruiting.																																																														
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264	42140 - Planted Mixed Pine	Sapling Medium	8.4	10	1-50	N/A	Mature JP stand was final harvested in early 2009 (#036-06), cutting stems 2"+ DBH except RP-WP. Open areas were trenched in 2009 and planted to JP in 2010 (C72-607). Stand failed Yr 1 regen check & was replanted in 2012. Passed Year 3 regen check to a mix of planted JP and natural oak regen. Variable distribution in residual WP and some RP.																																																														
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265	4130 - Aspen	Sapling Poor	10.1	2	Immature	N/A	RM-A-MC stand was final harvested by April 2020 (#032-17), cutting stems 2"+ DBH except RP-WP >26" DBH and boundary-excluded low ground. Uncut low ground split out as stand 46. Aspen is filling in on the uplands but the narrow SW peninsula on low ground has only sparse, heavily-browsed RM regen and traces of spruce and paper birch seedlings.																																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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266	429 - Mixed Upland Conifers	Poletimber Well	37.0	60	81-110	N/A	<p>Most of this stand appeared on the 1938 air photos to have been partially cut-over. The east two-thirds of the stand had seed-tree levels of residual cover. The west third had residual cover in the shelterwood range. The harvest had excluded a swath along Chase Bridge Road, as well as the strip between Mason Tract Trail road and the former subdivision road that parallels it to the north. Opener areas south of the road were furrowed and planted with JP, WS, and possibly some WP. The furrows are largely vacant except for remnants of planted JP-WS, and WP-F volunteers. DWD has been building as the overmature JP & NPO breaks up. The oak cover has overmature saw and immature pole components. Carried forward previous inventory ages on the RP & NPO.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		1	Pole/Log	8		Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub	
Northern Pin Oak		15	Log/XLog/Pole	15	108	Choke Cherry		Low	< 5 feet	Tall Shrub	
Balsam Fir		19	Pole/Sapling	6		White Pine		Low	Variable	Sapling	
White Spruce		5	Pole/Log	8		Black Cherry		Low	Variable	Sapling	
Red Pine		5	Log/XLog	16	96	Balsam Fir		Low	Variable	Sapling	
Jack Pine		10	Pole/Log	8							
White Oak		5	Log/Pole	11							
White Pine		40	Pole/Log/XLog	8	60						

267	6225 - Bog	Nonstocked	3.1		Unspecified	No	Leatherleaf and labrador tea bog. Scattered RP-WP-JP-spruce but not enough to call it a treed bog.
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268	4132 - Aspen, Jack Pine	Sapling Medium	6.4	12	Immature	N/A	<p>Burned in the May 2010 Meridian Fire. W 1/2 has more A-RM, E 1/2 more JP-RM-O. Picks up low ground by the bog. Heavy LWD from downed snags.</p>	
Canopy Species		% Cover	Size Class	DBH	Age			
Black Cherry		5	Sapling	1	12			
Quaking Aspen		40	Sapling	2	12			
Red Maple		20	Sapling	1	12			
Jack Pine		20	Sapling	1	12			
Northern Pin Oak		15	Sapling	2	12			

270	429 - Mixed Upland Conifers	Poletimber Well	49.1	55	111-140	N/A	<p>The stand occupies three terraces above the river. The top and middle terraces were partially furrowed, with JP and some scotch pine planted on the top terrace and white spruce planted on the middle terrace. The furrows are more occupied by volunteer stems than by planted stock. Balsam fir is most concentrated on the middle and bottom terraces. The stand's only low ground is along the north edge. LWD is building as the overmature fir, NPO & JP components break up. Two age classes of oak occur across the stand (immature poles and overmature saw).</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		20	Pole/Log	9		Black Cherry		Low	Variable	Tall Shrub	
White Oak		3	Log/Pole	12		Balsam Fir		Medium	< 5 feet	Sapling	
Quaking Aspen		3	Log/Pole	11		White Oak		Trace	10 - 20 feet	Sapling	
Red Pine		1	Log/Pole	11		Tag Alder		Trace	5 - 10 feet	Tall Shrub	
Northern Pin Oak		5	Log/Pole/XLog	14							
Balsam Fir		45	Pole/Log/Sap	7	55						
White Spruce		3	Pole/Log	8	64						
Red Maple		3	Pole/Log/Sap	7							
Scotch Pine		2	Pole/Log	8							
White Pine		15	Pole/Log/XLog	8							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
271	4130 - Aspen	Poletimber Well	4.3	35	51-80	N/A	Mature JP-A stand was final harvested in 1987 (#080-86), cutting stems 2"+ DBH. This hillside portion of the harvest regenerated to aspen except for a sub-acre patch in the SW corner that was planted to JP concurrent with stand 273. A tag alder swale cuts through the west side of the stand.																																															
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272	42120 - Planted Jack Pine	Sapling Well	8.0	34	1-50	N/A	Mature JP stand was final harvested in 1987 (#080-86), cutting stems 2"+ DBH. JP was planted in 1988. JP is small diameter for its age. NPO stump sprouts are competitive with the planted JP.																																															
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273	42120 - Planted Jack Pine	Sapling Well	4.2	34	1-50	N/A	Mature JP stand was final harvested in 1987 (#080-86), cutting stems 2"+ DBH. JP was planted in 1988. The JP is small diameter for its age. An isolated pocket of this planting was was picked up within stand 271.																																															
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274	3301 - Low Density Deciduous Trees	Nonstocked	21.4	0	Unspecified	412 - Oak Types	Overmature JP stand with NPO was final harvested in 2020 (#035-18), cutting stems 2"+ DBH except for protecting pockets of advanced oak regen and excluding a 30-50 foot wide strip along the south line. A variance was approved in 2018 to drop the follow-up planting Rx and accept mixed natural regen (oak, pine & aspen). Regen did not pass at time of re-inventory, two years post-harvest. Because the oak regen from the cut was below 3' tall and unrecordable in the canopy, the tree cover didn't reach the 25% closure threshold. Even if that new regen fails to recruit, the stand will cross into the forested category as the advanced oak regen that was protected during the harvest fills out.																																															
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275	4130 - Aspen	Sapling Well	3.2	10	1-50	N/A	Merch stems except O-RP-WP were cut in 2012 (#022-07). Main canopy is A-RM regen with residual O-WP saw above, mainly in the SE. Trace of barberry.																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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280 6130 - Fir, Aspen, Maple Poletimber Well 8.4 45 51-80 N/A River floodplain stand of relatively young RM-F-WP pole cover with minor mature Log/Xlog components & overmature aspen. Beaver continue to fell the aspen. On PARVCo ground cut by marshy tag alder swales.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	1	Log	12		Balsam Fir	Medium	Variable	Sapling
Red Maple	40	Pole/Sap/Log	6	45	Tag Alder	Low	10 - 20 feet	Tall Shrub
Quaking Aspen	15	Log/Pole	10	58	White Pine	Low	Variable	Sapling
Black Spruce	1	Log/Pole	10					
White Pine	12	Pole/Log/XLog	8					
Red Pine	1	Log/XLog/Pole	12					
Balsam Fir	30	Pole/Sapling	6					

283 429 - Mixed Upland Conifers Sawtimber Medium 56.5 60 81-110 N/A Long narrow stand above the river floodplain was excluded from adjacent upland harvests. Cover changes every few hundred feet and with slope position. There is supercanopy pine, declining NPO, patches of overmature aspen, and WP-F filling in where the canopy is opening up. Some RP was planted in 1957 north of the Durant Castle site. The Mason Tract Pathway runs the length of the stand. The stand picks up low ground inclusions along its south edge. Carried forward previous inventory ages on the RP and QA.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	25	Log/Pole/XLog	11	60	White Pine	Medium	Variable	Sapling
Bigtooth Aspen	10	Log/XLog	15		Tag Alder	Trace	Variable	Tall Shrub
Red Maple	7	Log/Pole	11		Black Cherry	Low	Variable	Tall Shrub
Jack Pine	4	Log	12					
Quaking Aspen	10	Log/XLog	16	78				
White Oak	1	Pole/Log	8					
Northern Pin Oak	10	Log/XLog/Pole	16					
Paper Birch	1	Pole/Log	8					
Red Pine	15	Log/XLog/Pole	16	144				
Balsam Fir	15	Pole/Log/Sap	7					
Black Spruce	2	Pole	8					

285 6130 - Fir, Aspen, Maple Poletimber Medium 3.4 50 51-80 N/A This portion of stand 228 was excluded from harvest (#032-17) due to low ground, RMZs, and for long-term retention. Balsam fir is filling in as the overmature aspen breaks up. Windthrow along the harvest edge. Overland flow to the west through the flooded tag alder swale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sap/Log	8		Tag Alder	Medium	10 - 20 feet	Tall Shrub
Quaking Aspen	20	Log/Pole/XLog	15	84				
Balsam Fir	50	Pole/Sapling	6	50				
Bigtooth Aspen	5	Log/XLog	16					
White Pine	1	Log/XLog	15					
Red Pine	4	Log/XLog/Pole	15					