



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12081

Entry Year 2021

Acreage: 2,364

County Dickinson

Management Area: Peavy Moraine

Revision Date: 2019-08-04

Stand Examiner: Deb Goupell

Legal Description:

T41N R30W Sec 36

T40N R30W Sec 3,4

T41N R29W Sec 30,31

Identified Planning Goals:

Optimize sustainable timber production, enhance wildlife habitat and protect riparian areas.

Soil and topography:

Mancelona loamy sand, Zimmerman fine sands are the predominant soil types. Topography ranges from relatively flat and rolling hills to steep rolling hills.

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

Far west edge of State forest boundary in Dickinson county. Some private within compartment, surrounded by private on west and south.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Archaeological hit in database was discussed with Archaeology staff and decided treatments would not impact this feature.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Pine Creek, Hosking Creek, and Harding Creek. All are designated Type 1 trout streams less than 50' in width. 300' buffers are recommended for these waterbodies susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Exceptions: On Hosking Creek, part of the buffer will be less than 300' because of a road. Jen and Deb discussed and agreed to this exception. They also agreed to area 37 A9 by the Pine Creek to be used as a landing/decking area. This is within the 300' buffer area of Pine Creek. However, this area is flat and already relatively cleared.

Wildlife Habitat Considerations:

This compartment is in the Groveland MA with black bear, blackburnian warbler, northern goshawk, and deer. This compartment is conditional deer wintering complex and heavily used by deer in the lowlands, surrounding uplands and upland conifer stands. UP Whitetails maintains 3 hunter walking trails in this compartment. This compartment was newly delineated including adjacent compartment parcels. Goshawk have consistently inhabited the area near Hosking's Creek. Riparian habitat is of particular importance in this area. This compartment contains State Game Fund parcels.

Mineral Resource and Development Concerns and/or Restrictions

Several active sand/gravel pits are located to the southwest, including a pit in Section 3, and there may be potential for sand & gravel within the compartment. Abandoned iron mines are located approximately three miles to the southwest. There does not appear to be iron ore potential within the compartment, but there may be potential for other metallic minerals. A significant magnetic anomaly appears in geophysical survey data within Section 36, but there has been no recorded test drilling in the compartment. There has been metallic mineral leasing in the area in the past ten years. There is no known potential for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Rock Dam accesses the majority of the compartment.

Survey Needs:

Several corners will be needed.

Recreational Facilities and Opportunities:

Heavy ATV use on existing roads and trails. Several hunter walking trails are gated and maintained. Fishing is popular on the Pine Creek.

Fire Protection:

Norway fire protection area.

Additional Compartment Information:

This compartment was re-drawn for 2021 YOE.

The following reports from the Inventory are attached:

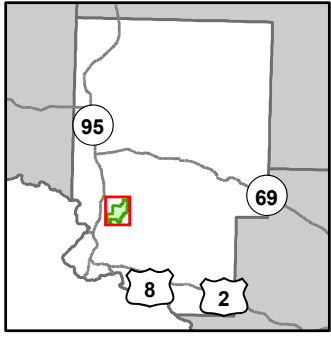
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

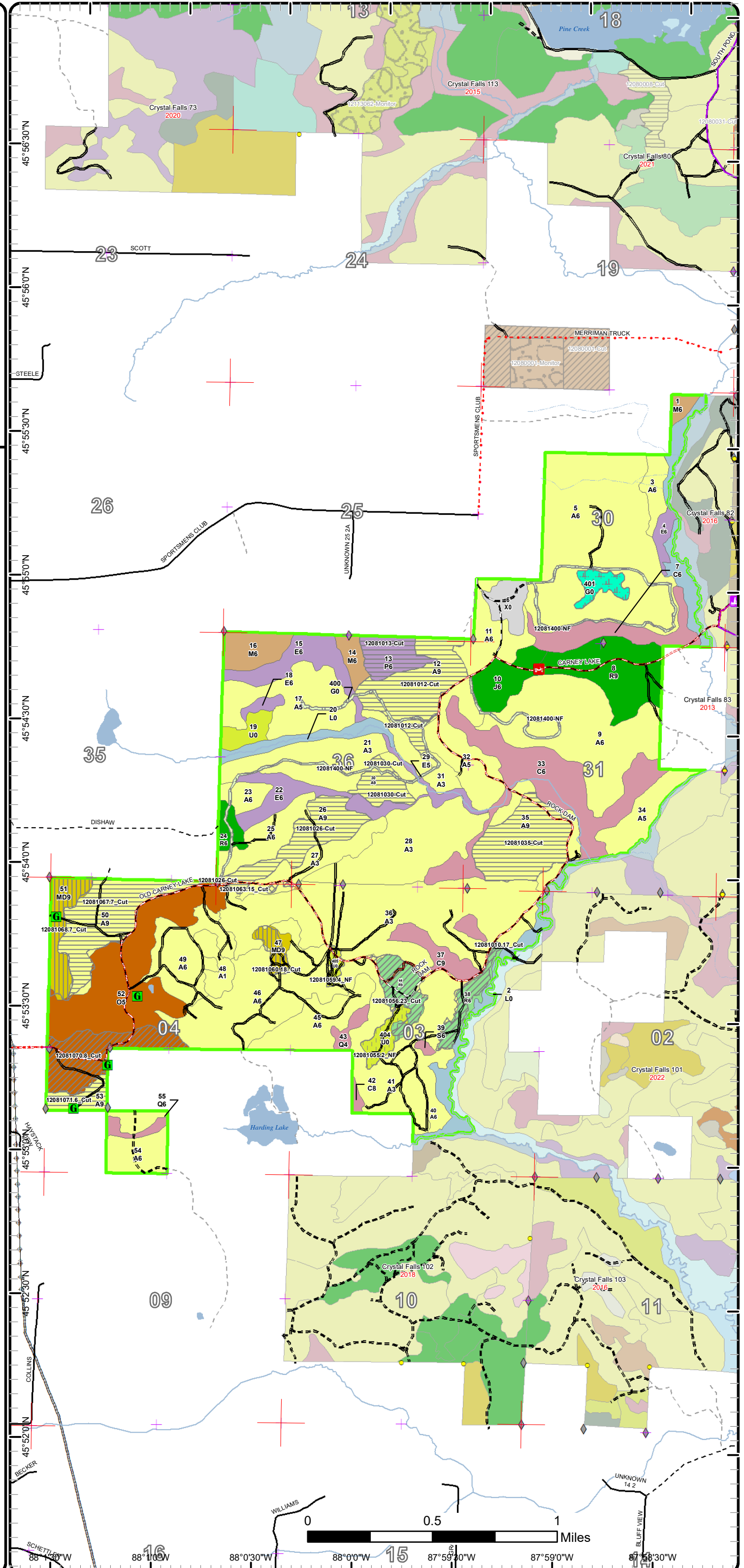
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 81
 T41N, R30W, Sec. 36
 T41N, R29W, Sec. 30, 31
 T40N, R30W, Sec. 2-4
 County: Dickinson
 Unit: Crystal Falls
 Mgmt Area: Peavy Moraine
 YOE: 2021
 Acres: 2,364 GIS Calculated
 Examiner: Deb Goupell
 Map Revised: 1/27/2020
 Map Phase: Post-Review

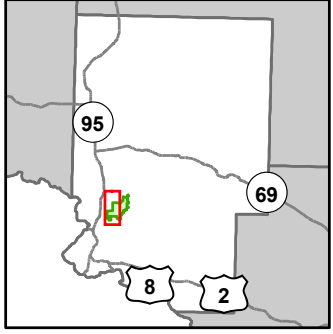


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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- Private - Dirt / Gravel Road
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- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Bridges
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 212 - Non-tilled Herbaceous Agriculture
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub

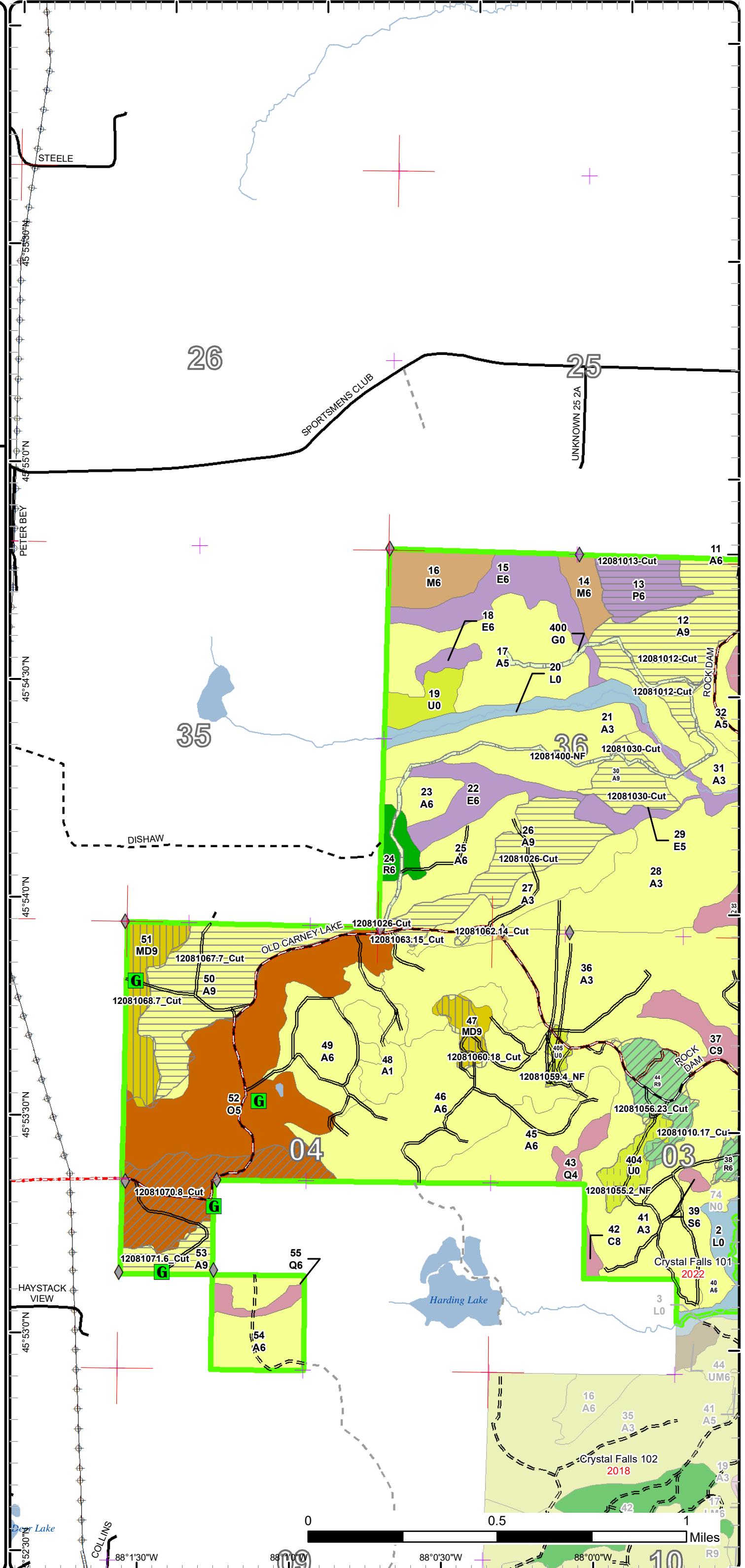


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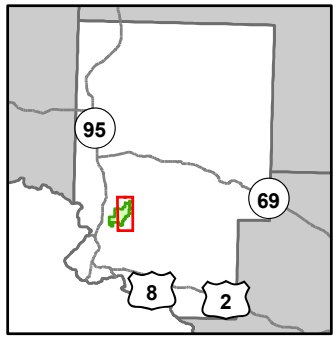


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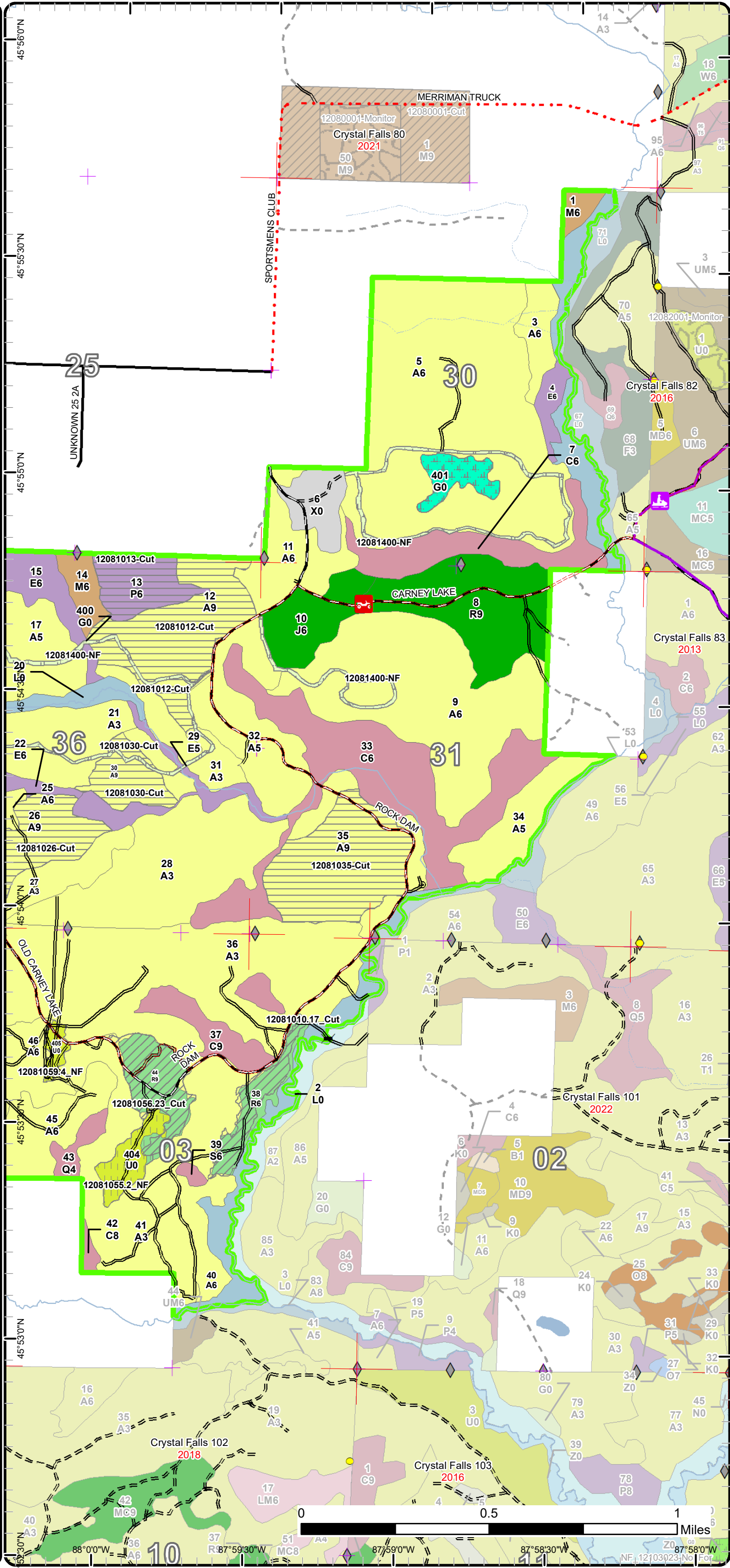


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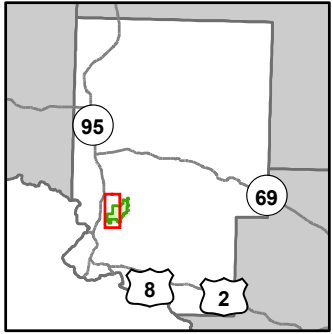


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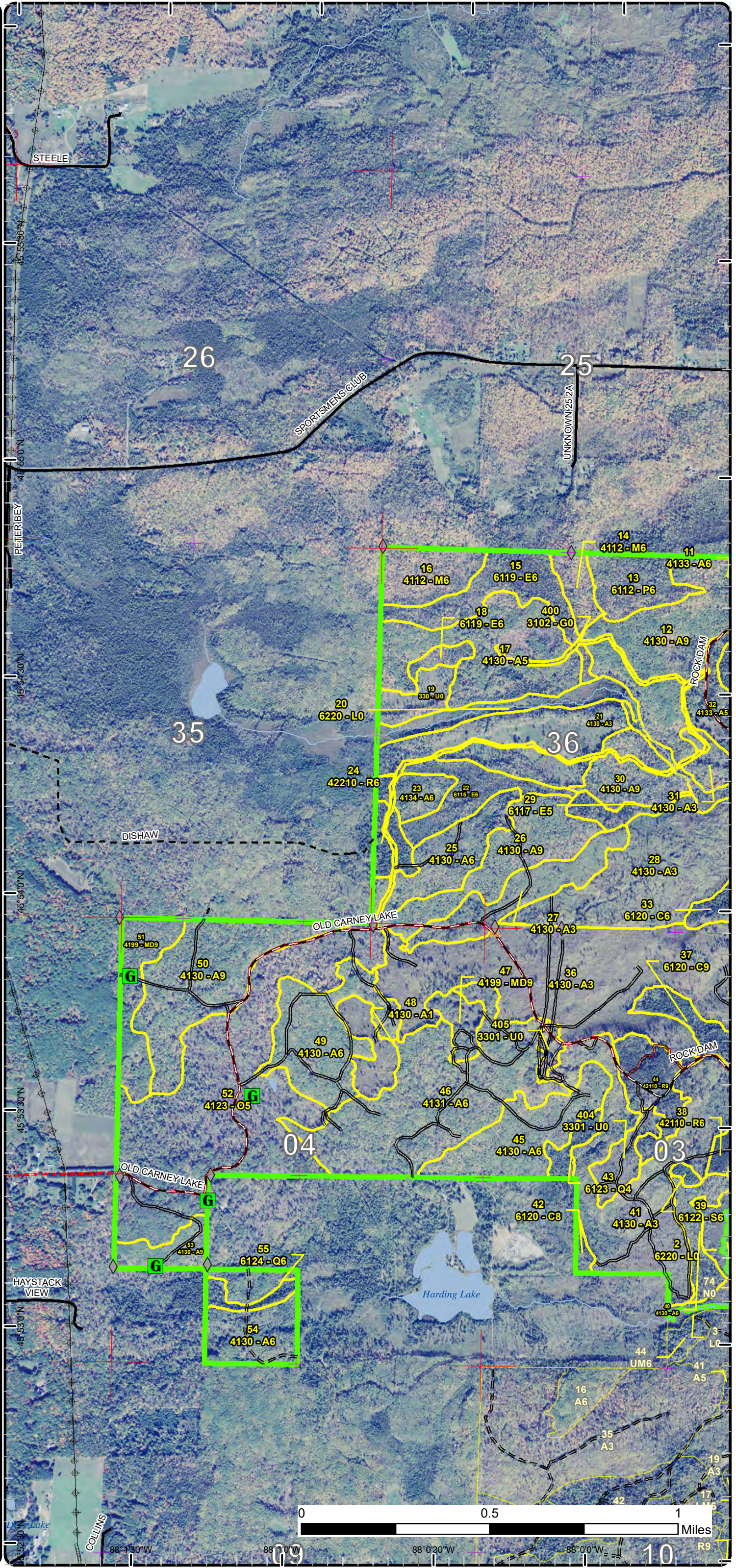


Stand Boundary Map

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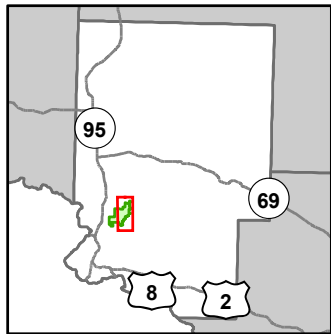


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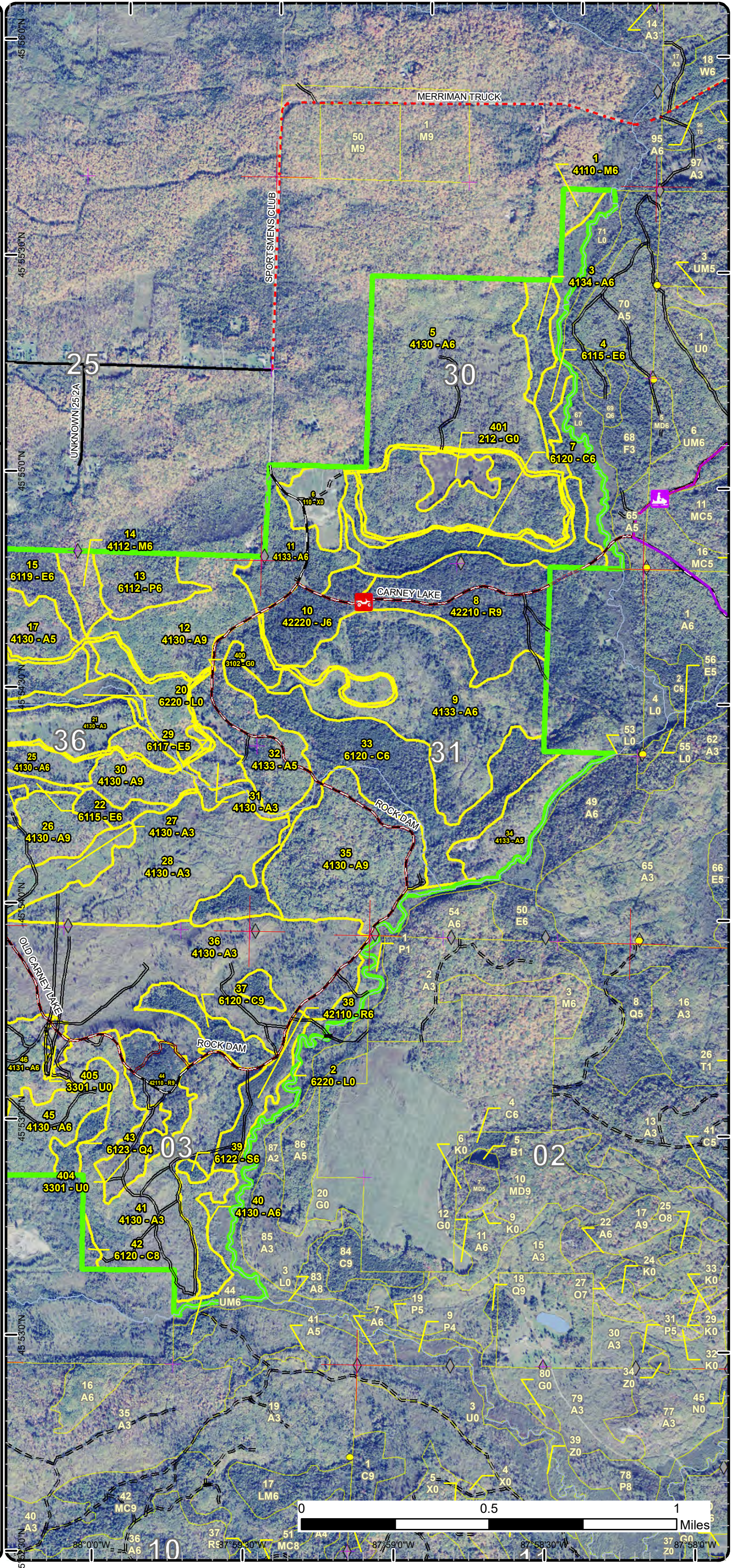


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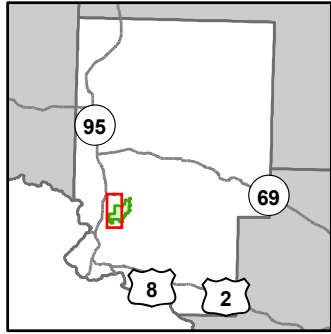


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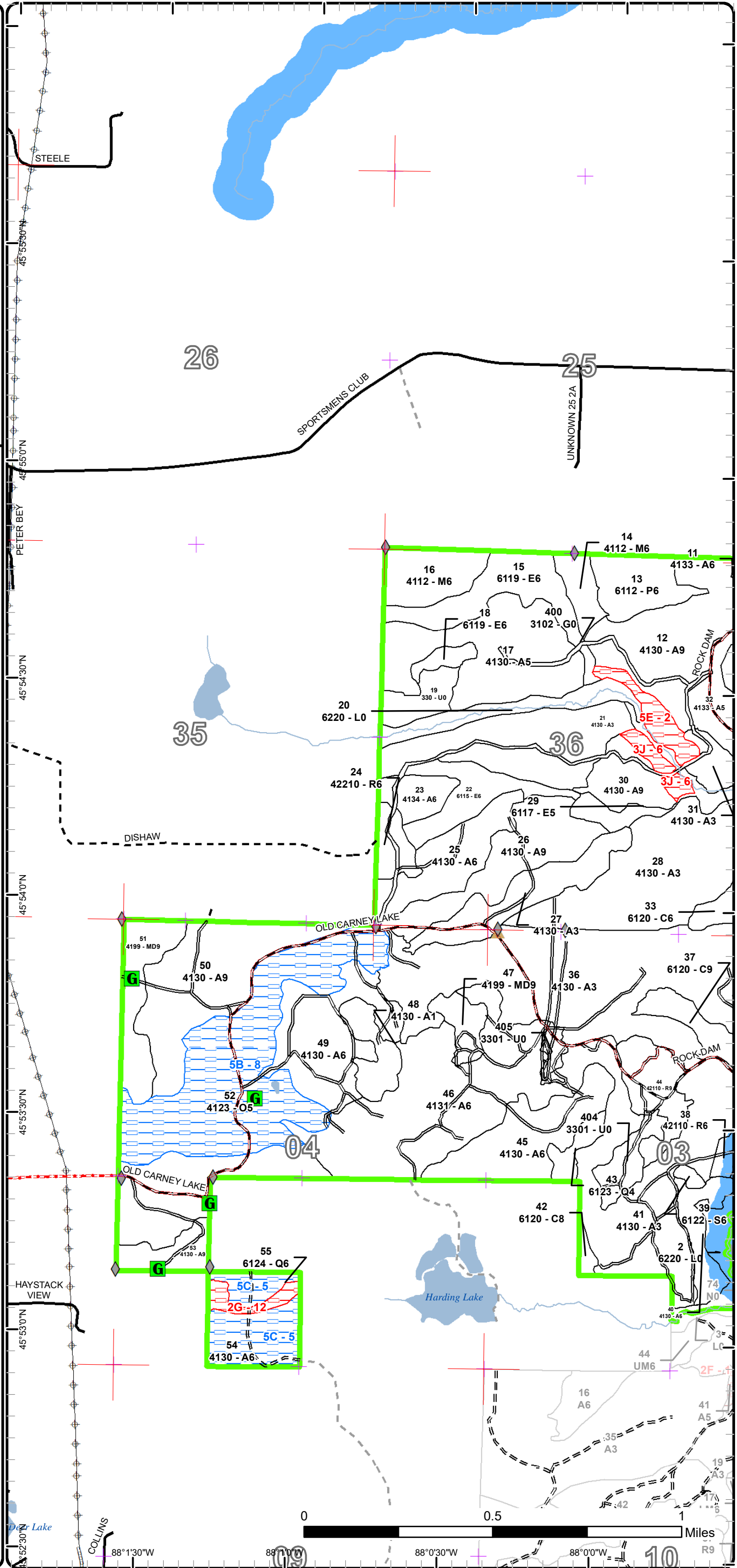


Special Conservation Areas & Site Conditions Map

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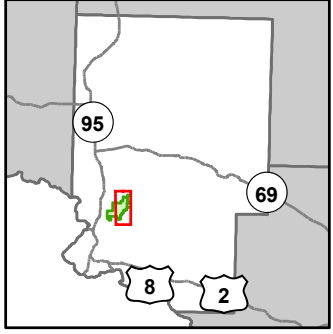


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

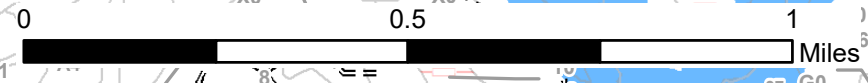
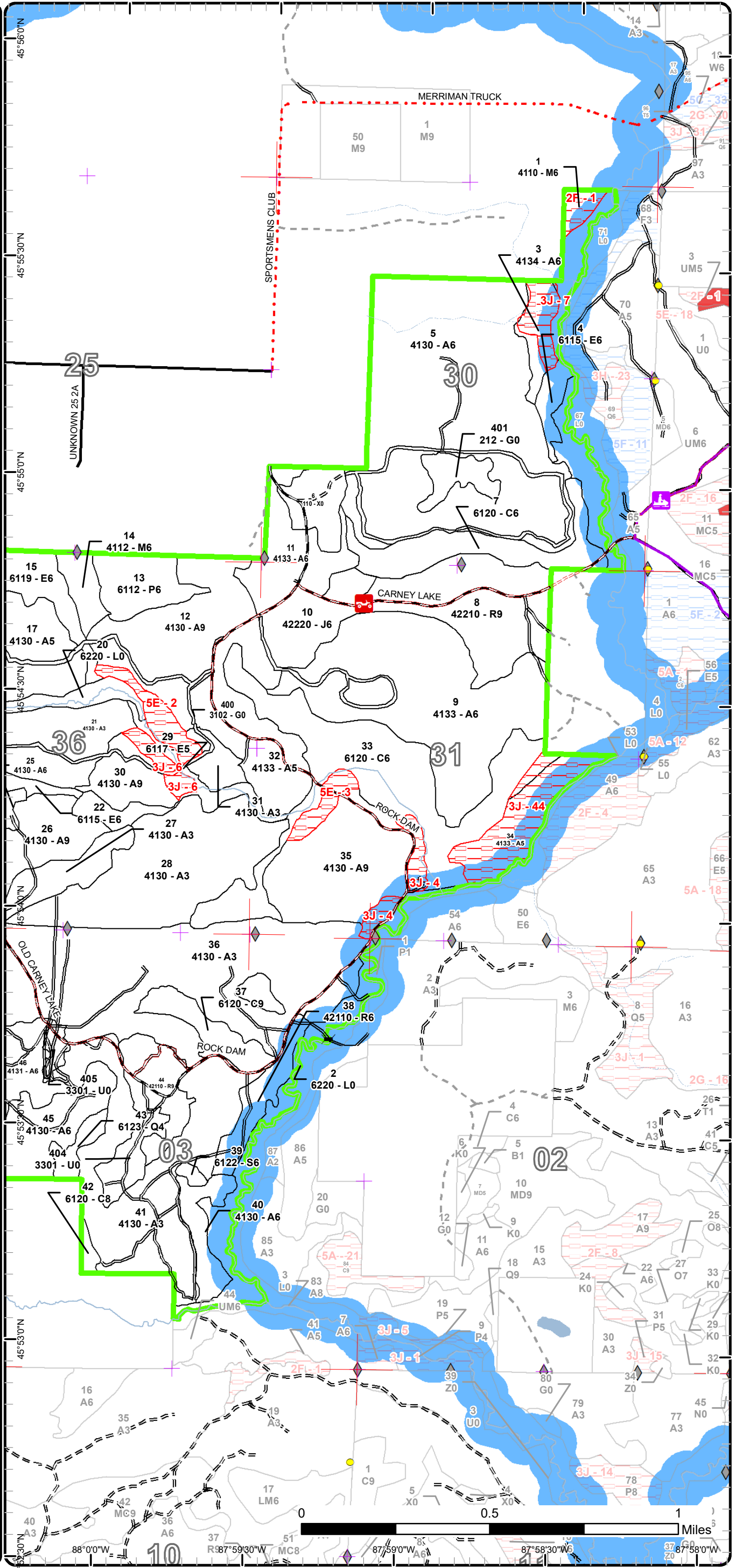


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- Perennial River
- Lakes and Rivers
- Bridges
- Compartment Boundary
- Unavailable
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



45° 56' 00" N, 45° 55' 30" N, 45° 55' 00" N, 45° 54' 30" N, 45° 54' 00" N, 45° 53' 30" N, 45° 53' 00" N, 45° 52' 30" N, 45° 52' 00" N, 45° 51' 30" N, 45° 51' 00" N, 45° 50' 30" N, 45° 50' 00" N
 88° 0' 0" W, 87° 59' 30" W, 87° 59' 0" W, 87° 58' 30" W, 87° 58' 0" W, 87° 57' 30" W, 87° 57' 0" W

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	78	279	153	151	530	98	144	120	0	0	0	0	0	0	0	0	0	1552
Cedar	0	0	0	0	0	0	0	0	0	0	37	0	22	0	0	0	0	99	157
Cropland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Herbaceous Openland	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Jack Pine	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	27
Low-Density Trees	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	7	0	0	0	6	0	0	0	0	0	0	0	0	13
Lowland Deciduous	0	0	0	0	0	0	33	8	0	0	0	0	0	0	0	0	0	45	86
Lowland Shrub	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Lowland Spruce/Fir	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	26	10	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	28	39
Oak	0	0	0	0	0	0	0	0	0	0	160	0	0	0	0	0	0	0	160
Red Pine	0	0	0	0	0	0	62	40	0	0	0	0	0	0	0	0	0	10	112
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Total	161	78	279	153	151	564	215	220	130	6	208	0	22	0	0	0	0	182	2367



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2021

Compartment 81
Total Compartment Acres: 2,364

Acres of Harvest

Commercial Harvest - 395
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	251	1	0	0	0	0	0	0	0	253
Lowland Aspen/Balsam Poplar	22	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	35	0	0	0	0	35
Oak	0	0	0	0	0	48	0	0	0	48
Red Pine	0	0	0	0	0	38	0	0	0	38
Total	274	1	0	0	35	85	0	0	0	395

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	395	0	0	0	0	0	0	52	0	447
Next Step	0	23	0	0	9	0	275	0	0	307
Total	395	23	0	0	9	0	275	0	52	754



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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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Proposed Treatments:

12	12081012-Cut	56.5	4130 - Aspen	Sawtimber Well	66	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" dbh and greater except oak, white/red pine, cedar, hemlock. Retention along Hosking ck =19%. Leave hardwood pocket in north for diversity. WLD prefers winter harvest to avoid using walking trail. if used during non frozen conditions, spec will be needed requiring re-disking, re-seeding to restore to original conditions. Harvest shall extend 1 chain south of hunter walking trail directly off Rock Dam Rd.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood</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 /2020</p>											

13	12081013-Cut	22.2	6112 - Lowland Aspen	Poletimber Well	56	Unspecified	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" dbh and greater except pine, cedar, hemlock. Request no retention due to excessive retention on stand due south (19%) in creek buffer. Recommend winter harvest; if non frozen conditions, if trail system is used, it must be returned to original condition (disking/seeding). Pockets of cedar of 40BA or higher to be excluded with paint.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwood, mixed softwood</p> <p><u>Regen:</u></p> <p><u>Other</u> cedar pockets are along west center and north center. Wildlife wants to leave balsam/spruce 2 stick and less (6" stump diameter) and black ash 2 stick and less (8" stump diameter).</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

26	12081026-Cut	40.0	4130 - Aspen	Sawtimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" dbh and greater except white/red pine, oak, hemlock, cedar (if found).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed softwood, mixed hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> watch for goshawk nest</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
30 12081030-Cut	17.2	4130 - Aspen	Sawtimber Well	57	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> harvest all stems 2" dbh and greater except cedar and pine (hemlock, oak if found) Leave 1 stick and less spruce fir.. retention is along Hosking Creek and already excluded from sale treatment boundary. Protect hardwood pocket around old nest. Wildlife requests winter cut to protect road system. Spec of re-disking and re-seeding will apply if during non frozen conditions.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed softwood, mixed hardwood, aspen</p> <p><u>Other Comment:</u> See draft for GPS</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
35 12081035-Cut	60.1	4130 - Aspen	Sawtimber Well	71	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Final harvest all stems 2" dbh and greater except red/white pine, oak, cedar, hemlock. Leave 1 stick and less WS/BF/Bk ash. Retention will be within Hosking & Pine creek buffers. 2/287/19 discussed w//FSH biologist Jen J about using road as treatment buffer on east edge within Hosking Ck Buffer, which she agreed to. In addition, open area was agreed to use as potential landing/access area (prevent any sedimentation with BMP practices) (also within Pine Ck buffer) on southeast edge, but maintain 300 ft buffer further south.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> mixed hardwood, mixed softwood</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
400 12081400-NF	23.2	3102 - Grass	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> Hunter walking trail opening maintenance</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 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
401 12081401-NF	11.6	212 - Non-tilled Herbaceous Agriculture	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	3102 - Grass		No
<p><u>Prescription</u> WLD- Opening maintenance via mechanical/prescribed burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Grass</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 /2019</p>										

Approved Treatments:

38 12081010.17_ Cut	13.9	42110 - Planted Red Pine	Poletimber Well	62	111- 140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine basal area down to 110-120. Leave all white pine. Concentrate cutting to trees that are forked, suppressed, or otherwise poor quality. Potential for future utility poles.</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> Good quality red pine trees. Scattered white pine. Well established skid trails from previous row thin.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>										
404 12081055.2_N F	12.5	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> WLD- Treat opening. Herbaceous/opening maintenance</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 /2017</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
44 12081056.23_ Cut	23.7	42110 - Planted Red Pine	Sawtimber Well	60	141- 170	Harvest	Crown Thinning	42210 - Natural Red Pine	Even-Aged	No
<u>Prescription</u> Thin red pine to 110-120 or remove no more than 1/3 of the basal area in the thicker red pine areas. Remove all aspen. Leave all white pine, oak, and cherry.										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u> Fair to good form red pine, 5-6 sticks. Scattered red pine and jack pine seedlings and oak saplings and poles.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2017										
405 12081059.4_N F	4.4	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<u>Prescription</u> WLD- Treat opening. Herbaceous/opening maintenance										
<u>Specs:</u>										
<u>Next Step</u>										
<u>Treatments:</u>										
<u>Acceptable</u>										
<u>Regen:</u>										
<u>Other</u>										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2017										
47 12081060.18_ Cut	8.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	74	1-50	Harvest	Shelterwood	412 - Oak Types	Even-Aged	No
<u>Prescription</u> Leave all oak and maple. Remove all aspen. Leave all birch snags and some healthy trees for a seed source and diversity. Leave white pine. Prescribe burn or scarify after harvest. Do not cut April-July to prevent oak wilt.										
<u>Specs:</u>										
<u>Next Step</u> Burn, Understory; SitePrep, Scarification										
<u>Treatments:</u>										
<u>Acceptable</u> Oak, birch, white pine										
<u>Regen:</u>										
<u>Other</u> The oak is of fairly good quality with some decent log trees. There is an opening on the NW side with scattered trees. There are pockets of aspen and birch but scattered individuals as well throughout the stand. The aspen is good quality but the birch is really starting to fall apart. The red maple is very low quality.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2017										
27 12081062.14_ Cut	1.4	4130 - Aspen	Sapling Well	22	Immature	Harvest	Group Selection	413 - Aspen	Even-Aged	No
<u>Prescription</u> Remove all jack pine while protecting the aspen and white pine saplings as much as possible. Some aspen might have to be cut to make paths to the jack pine and not leave broken stems behind.										
<u>Specs:</u>										
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)										
<u>Treatments:</u>										
<u>Acceptable</u> Aspen, white pine, oak										
<u>Regen:</u>										
<u>Other</u> Cut with stand 20 and 7After harvest this stand should eventually be merged with stand 7.										
<u>Comment:</u>										
<u>Site Condition</u>										
<u>Proposed Start Date:</u> 10/1 /2017										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 12081063.15_Cut	2.2	4130 - Aspen	Sawtimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Remove all aspen. Leave all white pine, fir, and oak. Leave paper birch snags and a few healthy trees for seed and diversity. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, white pine, birch <u>Other Comment:</u> Very scattered oak and fir. <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017										
50 12081067.7_Cut	61.1	4130 - Aspen	Sawtimber Well	64	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<u>Prescription</u> Clearcut leaving oak, paper birch, and any conifers <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Aspen, oak, paper birch, conifers <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017										
51 12081068.7_Cut	25.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	64	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Even-Aged	No
<u>Prescription</u> Thin entire stand down to 50-60 BA. Target red maple and aspen for removal. Do not cut conifers. The goal is to increase volume growth in the oak and promote conifer regeneration under the aspen. Do not harvest from April-July to prevent oak wilt. Scarify with root rake after harvest. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> Oak, paper birch, conifers <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017										
52 12081070.8_Cut	47.7	4123 - Red Oak	Poletimber Medium	94	1-50	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	No
<u>Prescription</u> Thin stand to 70-90 BA to add volume to the oak. Leave the BA on the higher end on the south and east lines and around the pockets to prevent aspen spread. Target red maple, paper birch, and poor form oak for removal. Thin aspen to 50-60 BA to promote pine regen. Do not cut any conifers. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable Regen:</u> Oak and pine <u>Other Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2017										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53 12081071.6_C ut	14.3	4130 - Aspen	Sawtimber Well	79	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut all aspen and leave all oak and conifer</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, Oak, Conifer</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>										

Total Treatment 446.6
Acres Proposed:



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		5B	5C	2F	2G	3H	3J	5E	
1551	1445	33	73	Aspen		33					54	19
158	155	0	3	Cedar							3	
12	12	0	0	Cropland								
23	23	0	0	Herbaceous Openland								
27	27	0	0	Jack Pine								
29	29	0	0	Low-Density Trees								
22	22	0	0	Lowland Aspen/Balsam Poplar								
13	7	0	6	Lowland Conifers				6				
85	85	0	0	Lowland Deciduous					0			
80	80	0	0	Lowland Shrub						0		
2	2	0	0	Lowland Spruce/Fir								
36	36	0	0	Mixed Upland Deciduous								
39	33	0	6	Northern Hardwood			6					
159	47	113	0	Oak	113							
111	111	0	0	Red Pine								
17	17	0	0	Urban								
2,364	2,131	146	87	Total Forested Acres	113	33	6	6	0	57	19	
	90%	6%	4%	Relative Percent								

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2F: Too steep	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 81
 Year of Entry: 2021



2	Unavailable	5E: Long-Term Retention	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	7	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	9	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand was combined with another compartment. It was agreed that since it was inventoried and went through compartment review only 2 years ago that no additional treatments would be prescribed until next entry.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 300 ft to trout stream Pine ck							

Report 4 – Site Conditions

Crystal Falls Mgt. Unit
 Deb Goupell : Examiner

Compartment: 81
 Year of Entry: 2021



8	Available	5B: Maintain for regeneration purposes	113	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Not sure why this is being flagged. Stand was cut 21 years ago with agreement to leave oak. Overstory is oak with a mixed deciduous understory. Managing for understory.</p>							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
44	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	2F: Too steep	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	4110 - Sugar Maple Association	Poletimber Well	5.6	93	51-80	N/A	OPIC - FMD: very steep hillside with mature Aspen, fir, spruce in transition to lowland. Scattered hemlock. Low quality mixed hardwood, mainly r maple. No access.																																
2	6220 - Alder/willow	Nonstocked	60.4		Unspecified	No																																	
3	4134 - Aspen, Spruce/Fir	Poletimber Well	13.8	65	Unspecified	N/A	Several small creeks draining the area with tag alder. S end of stand is lower with heavier component of tag alder in understory. Adjacent to Pine Creek. Any access for future logging will be to build a winter road from the south along the base of the adjacent steep hill; much of stand is within 300 ft of Pine Ck which will limit what can be harvested.																																
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4	6115 - Lowland Ash	Poletimber Well	7.9	66	Unspecified	N/A	Cedar pocket in south corner. A few scattered white birch. Very wet.																																
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5	4130 - Aspen	Poletimber Well	193.1	47	Unspecified	N/A	Poor Aspen, looks to be burned over in the past, short. South end of stand has slightly better quality with r pine poletimber/sawtimber inclusions and w pine component. semi open with several small grass/bracken/sweetfern openings in north half. W pine, fir saplings throughout. Northwest against private has some older residual aspen, mixed hardwood, conifer and is wetter. Drainage runs east/west in north 1/3 of stand. Very steep terrain on far east. Far south/southeast of stand has some red pine inclusions that can be thinned next entry, 10-12" dbh.																																
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6	110 - Low Intensity Urban	Nonstocked	17.1		Unspecified	No	gravel pit/shooting area																																
7	6120 - Lowland Cedar	Poletimber Well	34.4	99	Unspecified	N/A	East and north end has more tamarack, lower density. Tag alder understory.																																
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8	42210 - Natural Red Pine	Sawtimber Well	61.9	59	111-140	N/A	Small pockets of successful aspen regen where the stand was more open. Thinned in 2004. Jack pine scattered but more present on south lobe and east edge. Heaviest BAs of red pine are north center of stand and south of road. Not overly tall red pine. BAs: 110,210,110,130,150,160																																
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9	4133 - Aspen, Mixed Pine	Poletimber Well	121.8	29	Immature	N/A	Aspen 3-6" dbh, Scattered w spruce, r pine, w pine. Small cedar inclusion in N and central part of stand. Fir, spruce saplings and tag alder pockets in scattered low ground areas. Soil: Zimmerman fine sand																																
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11	4133 - Aspen, Mixed Pine	Poletimber Well	32.7	43	Unspecified	N/A	Aspen lower quality, sand soil asp. Thick fir sapling understory. Scattered r pine, w pine with j pine in pockets. Will hold for next entry.																																								
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12	4130 - Aspen	Sawtimber Well	68.0	66	111-140	N/A	Beautiful stand, ready for cut.																																								
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13	6112 - Lowland Aspen	Poletimber Well	22.2	56	Unspecified	N/A	There is some blow down on north central line, ~1/4 acre. Center of stand more red maple, quaking aspen, young red maple. Upland knob of young RM in center of stand.. Wet. Recommend winter cut.																																								
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14	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.6	95	81-110	N/A	sale #12-058-11-01 Compartment 81 Mix, thinned summer 2013. Most of birch is dead.																																								
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15	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	32.6	55	Unspecified	N/A	Scattered cedar and hemlock. Heavy tag alder in areas, notably in N part of the stand. Intermittant drainage running in southeast. Ash dbh range from 4-10"; red maple dbh range from 4-16". Many depressions to classify as lowland.																																								
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16	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.5	95	81-110	N/A	Compartment 81 Mix sale #12-058-11-01. sale completed 7/12/13. Most of birch is dead. Couple of hemlock																										
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17	4130 - Aspen	Poletimber Medium	62.2	48	Unspecified	N/A	Many red maple stump sprout regen 3-5" dbh with aspen sapls. Associated older aged aspen throughout. Red maple 8" dbh was 42 years old! Scattered fir, spruce poletimber and saplings.Hazel understory. Rocky stand, shallow soils. Stand will hold to allow the red maple understory to add volume. Anticipate cutting next entry.																										
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18	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	5.1	81	Unspecified	N/A	Low quality stems but nice lowland pocket for wildlife. Fir and b ash seedlings/saplings. Widely scattered hemlock. Windthrow prevalent. Low site - swamp grass, tag alder and hazel understory.																										
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19	330 - Low-Density Trees	Nonstocked	12.5	0	Unspecified	4191 - Mixed Upland Deciduous with Conifer	Compartment 81 Mix sale #12-058-11-01 cut 2012. Couple of white spruce/balsam fir 3-4' tall, some balm of gilead 6' tall.(Bg, RM, WS, BF all 1" dbh). This stand will need to be re-evaluated at next cycle for possible regeneration work. South side of stand is 300 ft buffer to Hosking Ck.																										
20	6220 - Alder/willow	Nonstocked	19.5		Unspecified	No	OPIC - FMD: tag alder, swamp grass along Hosking Creek. Old beaver meadows. Soil: Waucedah Cathro complex																										
21	4130 - Aspen	Sapling Well	53.6	7	Immature	N/A	Pockets of spruce and fir left. Hosking Creek Mix TS cut 2013.																										
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22	6115 - Lowland Ash	Poletimber Well	22.4	86	Unspecified	N/A	Scattered balm of gilead. Tag alder throughout. B ash seedlings - heavily browsed.Wet ground - flooded out in spring.																										
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23	4134 - Aspen, Spruce/Fir	Poletimber Well	11.6	35	Immature	N/A	Conifer rather thick on west side of trail and along north edge of stand.																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
24	42210 - Natural Red Pine	Poletimber Well	9.5	76	111-140	N/A	Aspen, jack pine and selected pine was removed with Hosking Creek Mix TS# 12-071-11-01 completed 12/11/13. Some aspen whips coming in on south or open areas. Very light white spruce																														
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25	4130 - Aspen	Poletimber Well	30.1	35	Immature	N/A	Aspen 2-5" dbh Occasional larger Aspen left from previous cut. Scattered fir, spruce, w pine, r pine. N end of stand has heavy fir saps and widely scattered hemlock.																														
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26	4130 - Aspen	Sawtimber Well	41.6	56	Unspecified	N/A	Aspen 6-10" dbh. Fir, spruce saplings - thick in areas. Scattered w pine, r pine with w pine seedlings in S end of the stand. W birch inclusion along the NE side with more mature Aspen mixed in. Hazel understory.																														
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27	4130 - Aspen	Sapling Well	30.6	22	Immature	N/A	Trace of jack pine and oak. C102 Windblow Salvage TS cut 1998																														
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28	4130 - Aspen	Sapling Well	84.2	18	Immature	N/A	Raucous Ravens TS cut 2002.																														
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29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	17.1	86	Unspecified	N/A	Tag alder inclusions. Scattered balm and small b ash. Hosking Creek runs through the stand.																														
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30	4130 - Aspen	Sawtimber Well	23.9	57	Unspecified	N/A	This portion of stand was not cut with adjacent stand to west due to nesting hawk. Needs evaluation if hawk is still in area.																														
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31	4130 - Aspen	Sapling Well	9.3	7	Immature	N/A	aspen regen with oak, maple, birch, leave trees. pockets of conifer residual Cut Hosking Ck Mix 2013. South half of stand is the retention, 300 ft buffer to Hosking Creek.																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	4133 - Aspen, Mixed Pine	Poletimber Medium	47.5	48	Unspecified	N/A	Aspen dbh range from 6-12", age 47/55. More jack pine and conifer in northeast lobe. Red maple saplings around wetter pocket in northwest lobe. SBW has killed some trees along road. Hold for next entry.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Pole/Log	9	48	Hazelnut (Spp.)	
Jack Pine		10	Pole	8		Medium	
Bigtooth Aspen		20	Pole	8		Balsam Fir	
						Medium	
						Variable	
						Sapling	
33	6120 - Lowland Cedar	Poletimber Well	98.5	98	Unspecified	N/A	More ash on far east finger. Good cedar cover
Canopy Species		% Cover	Size Class	DBH	Age		
Northern White Cedar		80	Log/Pole	10	98		
Black Ash		15	Pole	8			
34	4133 - Aspen, Mixed Pine	Poletimber Medium	29.0	71	Unspecified	N/A	R pine scattered throughout. Associated fir, r maple poletimber and fir, spruce sapls. VERY STEEP rock outcrop/bluff - inaccessible. S end of stand makes up N end of a rock gorge (Rock Dam) Over half of stand is within 300 ft buffer to Pine Creek.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		60	Log/Pole	10	71		
Red Pine		40	Log/Pole	12			
35	4130 - Aspen	Sawtimber Well	76.7	71	81-110	N/A	SW corner has heavier fir, spruce component. Steep on north and west. treatment will need buffer 300'
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		25	Pole/Log	9		Hazelnut (Spp.)	
Bigtooth Aspen		40	Log/Pole	11	71	Medium	
Paper Birch		10	Log/Pole	10		Balsam Fir	
						Medium	
						Variable	
						Sapling	
						White Spruce	
						Low	
						Variable	
						Sapling	
						White Pine	
						Low	
						5 - 10 feet	
						Sapling	
36	4130 - Aspen	Sapling Well	194.5	12	Immature	N/A	Old Carney Dam TS, cut 2008. Residual oak not holding well. Some oak seedlings knee high are browsed hard along Old Carney Dam Rd. Many rolling hills and knobs.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		35	Sapling	1	12		
Bigtooth Aspen		40	Sapling	1	12		
Red Oak		10	Log	12			
37	6120 - Lowland Cedar	Sawtimber Well	22.0	117	Unspecified	N/A	Minor component of white pine. There are springs in the stand and evidence of deer usage. The cedar canopy is well established. The tag alder and black ash are more to the east end.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		80	Log/Pole	10	117	Tag Alder	
Black Spruce		10	Log	14		Low	
						5 - 10 feet	
						Tall Shrub	
38	42110 - Planted Red Pine	Poletimber Well	16.5	62	111-140	N/A	has treatment
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Log/Pole	10	62		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
39	6122 - Black Spruce	Poletimber Well	2.0	62	Unspecified	N/A	Wet. Good wet pocket for wildlife refuge																																
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40	4130 - Aspen	Poletimber Well	15.4	39	Unspecified	N/A	Poorer quality aspen; more jack pine in the south																																
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41	4130 - Aspen	Sapling Well	93.6	32	Immature	N/A	Some scattered jack pine in far south. Black cherry in more open areas. Harding Creek TS cut 1988.																																
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43	6123 - Lowland Fir	Poletimber Poor	7.2	47	Unspecified	N/A	Intermittent bed and bank on far south end. poorly stocked low area.																																
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45	4130 - Aspen	Poletimber Well	41.5	44	Unspecified	N/A	A couple red pine scattered in here as well. Hold for next entry. Rolling hills and steep north hill.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
46	4131 - Aspen, Oak	Poletimber Well	103.8	48	Unspecified	N/A	Stand has more "older" trees than adjacent aspen stands but more oak and much more red maple 2-6" dbh. Realistically all 3 aspen stands here should be cut together but in effort to break stands up, cut this stand first and aspen on either side the next entry.																																						
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47	4199 - Other Mixed Upland Deciduous	Sawtimber Well	10.4	74	1-50	N/A	The oak is of fairly good quality with some decent log trees. There is an opening on the NW side with scattered trees. There are pockets of aspen and birch but scattered individuals as well throughout the stand. The aspen is good quality but the birch is really starting to fall apart. The red maple is very low quality. (MM) Stand is set up for sale and sold. (DG)																																						
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48	4130 - Aspen	Sapling Poor	14.6	9	Immature	N/A	Scattered residual paper birch (10") and oak (16") throughout Not regenerating well; the south half is regenerating better than north.																																						
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49	4130 - Aspen	Poletimber Well	48.7	41	Unspecified	N/A	Aspen dbhs range from 6-13". Hold for next entry.																																						
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50	4130 - Aspen	Sawtimber Well	62.3	64	Unspecified	N/A	Scattered oak and paper birch. Excellent quality aspen(MM) Stand is set up and sold on sale. Much big tooth aspen, white pine, some birch. (DG)																																						
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51	4199 - Other Mixed Upland Deciduous	Sawtimber Well	25.6	64	111-140	N/A	Excellent quality aspen and ok. Paper birch, aspen, and oak have their own respective small pure pockets but are also mixed together throughout the stand. Turns to more oak as you go from to the west and south. More white pine and other conifers as you move south. Scattered red pine and sugar maple Some top dieback in the paper birch Fair amount of oak and white pine seedlings (MM) Stand was set up and sold, merged into new compartment. (DG)																																						
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52	4123 - Red Oak	Poletimber Medium	159.5	94	1-50	N/A	Red maple tops dying. Some oak seedlings and saplings are coming in along the roads. Punkin Junction TS cut 1999. South half of this stand is set up for a sale now.																																
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53	4130 - Aspen	Sawtimber Well	13.8	79	Unspecified	N/A	Good quality aspen. North stand line is on top of very steep slope (MM) Sale is set up and sold; merged into new compartment. Will reinventory at sale closure. (DG)																																
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54	4130 - Aspen	Poletimber Well	32.9	50	Unspecified	N/A	Some open areas in south half. Scattered red pine																																
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55	6124 - Lowland Spruce-Fir	Poletimber Well	6.2	89	Unspecified	N/A																																	
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400	3102 - Grass	Nonstocked	23.4	0	Unspecified	Managed Opening	Hunter walking trail opening maintenance																																
401	212 - Non-tilled Herbaceous Agriculture	Nonstocked	11.6	0	Unspecified	No	OPIC - FMD: Poor Aspen, looks to be burned over in the past. S end of stand has slightly better quality with r pine poletimber/sawtimber inclusions and w pine component. semi open with several small grass/bracken/sweetfern openings. W pine, fir saplings throughout. Heavy deer usage during early winter. Hunter walking trail through the stand. Wildlife division plans on planting the north portion of the walking trail.																																
404	3301 - Low Density Deciduous Trees	Nonstocked	12.0		Unspecified	Managed Opening	Semi open, cherry, white pine, aspen encroaching.																																
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