



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45174

Entry Year 2027

Acreage: 1,810

County: Mackinac

Management Area: St. Ignace Lake Plain

Stand Examiner: Cody Flatt

Legal Description:

T43N-R10W Sections 27, 28, 33 & 34, Garfield Township.

Identified Planning Goals:

The compartment location is the southeast corner of US-2 and M-117, south and east to Lake Michigan. The large cedar swamps, and wooded dune and swale complexes host wintering deer, and are to be left intact. This will also protect any endemic shoreline threatened and endangered species and communities. There has been timber management in accessible stands during the past entries.

Soil and topography:

The majority of the compartment consists of wooded dune and swale complexes. Lowlands primarily consist of Markey and Carbondale mucks, which occupy depressions on ground moraines, lake plains and outwash plains. Minor components of Eastport-Leafriver complex (dune-swale complexes), Markey-Spot-Finch complex (organic depressions; depressions and nearly level areas on lake plains), and Zela muck (swales and depressions on beach ridges) are present. The swale and ridge complex along Lake Michigan is primarily Leafriver-Croswell-Wainola complex. Other associated upland areas consist of Croswell-Wainola complex (nearly level and undulating areas on lake plains), and Eastport sand (nearly level to rolling to very steep areas on dune and beach ridges). The unusual outlier in this compartment is in the SENE of section 28. This corner consists of Amadon-Rock outcrop complex and occupies nearly level to rolling areas on bedrock controlled ground moraines.

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

State lands are adjacent to the west and southwest. These are winter deer yarding areas. Ownership to the north is primarily state lands, including MDOT, and one private forty. This is also considered winter deer yarding areas. Highway US-2 runs along the north edge of the compartment. Two MDOT parcels of 40 acres each abut US-2 to the south. Two private in-holdings (seasonal camps) of 80 acres each also abut US-2 to the south. The adjacent lands to the east are part of the Hiawatha Sportsman's Club. The Hiawatha Club lands are not developed here, except for along the Lake Michigan shoreline to the east where houses are located. There is also a private access road along the eastern boundary of the compartment (Carnegie Trail), which leads to Lake Michigan. The road follows the shoreline to the southwest where high value, deed restricted homes dot the shoreline. This private area along the southern boundary of the compartment is part of the Carnegie Trail Association, with multiple landowners as well as some Nature Conservancy parcels. One of these parcels was recently gifted to the state as part of a wetland mitigation plan.

Unique Natural Features:

There is a known osprey nest within the compartment. With the lakeshore influences, there is potential for several rare, threatened and endangered plant and animal species and communities.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains the Rock River and Miller Lake. The Rock River is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July water temperature of 62.6°F (cold stream). A 300-foot buffer is recommended for the Rock River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these resources in accordance with Best Management Practices. Miller Lake is a small 17-acre natural lake. A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect Miller Lake shoreland areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is in the St. Ignace Lake Plain Management Area where featured wildlife species include American marten, American woodcock, black bear, blackburnian warbler, black-throated blue warbler, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The entire compartment is part of a deer wintering complex. Wooded dune and swale complex is present and should remain protected. Conifer dominates the compartment with a major component of cedar, fir, white pine, and hemlock. This provides habitat for blackburnian warblers, deer, bear, and others.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for economic production of metallic minerals in this area. The closest known active sand & gravel operation is less than two miles west and north of the compartment. Potential for any sand & gravel development within the compartment appears to be limited. 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:

Highway US-2 runs along the northern boundary of the compartment, however, overall access is fair to poor. Rock River Road, a fair dirt/gravel DNR road, runs from Big Knob Road up to this old crossing at Rock River. Carnegie Trail, a private gravel road, is located immediately adjacent on the eastern boundary of the compartment. The road was built in 1979 and is a relatively straight shot south towards Lake Michigan, crossing several ridges and swales along the way.

Survey Needs:

None Needed

Recreational Facilities and Opportunities:

No permanent recreational facilities are located within the compartment. There is evidence of hunting/fishing camps at the old Rock River crossing. Abundant opportunities exist for hunting, trapping and fishing numerous wildlife/fish species. Blueberry, cranberry and mushroom picking is available for those willing to go out of the way. Big Knob campground is located to the southwest of the compartment via Big Knob road. Adjacent to the campground and this compartment are several nature trails.

Fire Protection:

The potential for wildfires exists throughout the upland ridge areas. These areas are mixed stands by nature, but contain moderate to high components of conifer species. Lightning strikes would be the primary source of ignition. Other possibilities include human activities (adjacent homes, camps, and dispersed camping), motorist activities (along US-2, Carnegie Trail, and Rock River Road), and downed power lines. Where fires may occur in the lowlands, mop up may become extensive. Access to fires may be problematic.

Additional Compartment Information:

A Forest Treatment Proposal (FTP) has been approved to treat invasive phragmites along the Lake Michigan shoreline. Treatments as per work instructions and FTP may occur along the shoreline as necessary to eliminate the colonizing invasive phragmites.

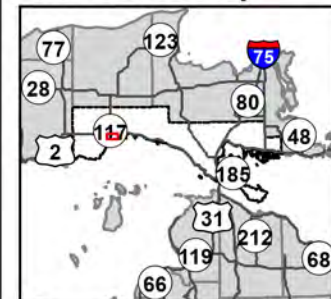
The following reports from the Inventory are attached:

- 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: 45174
T43N, R10W, Sec: 27, 28, 33, 34
County: Mackinac
Unit: Sault Ste. Marie
Mgmt. Area: St. Ignace Lake Plain
YOE: 2027
Acres: 1,810 GIS Calculated
Examiner: Cody Flatt
Date Exported: 07/18/2025
Map Phase: Web Post

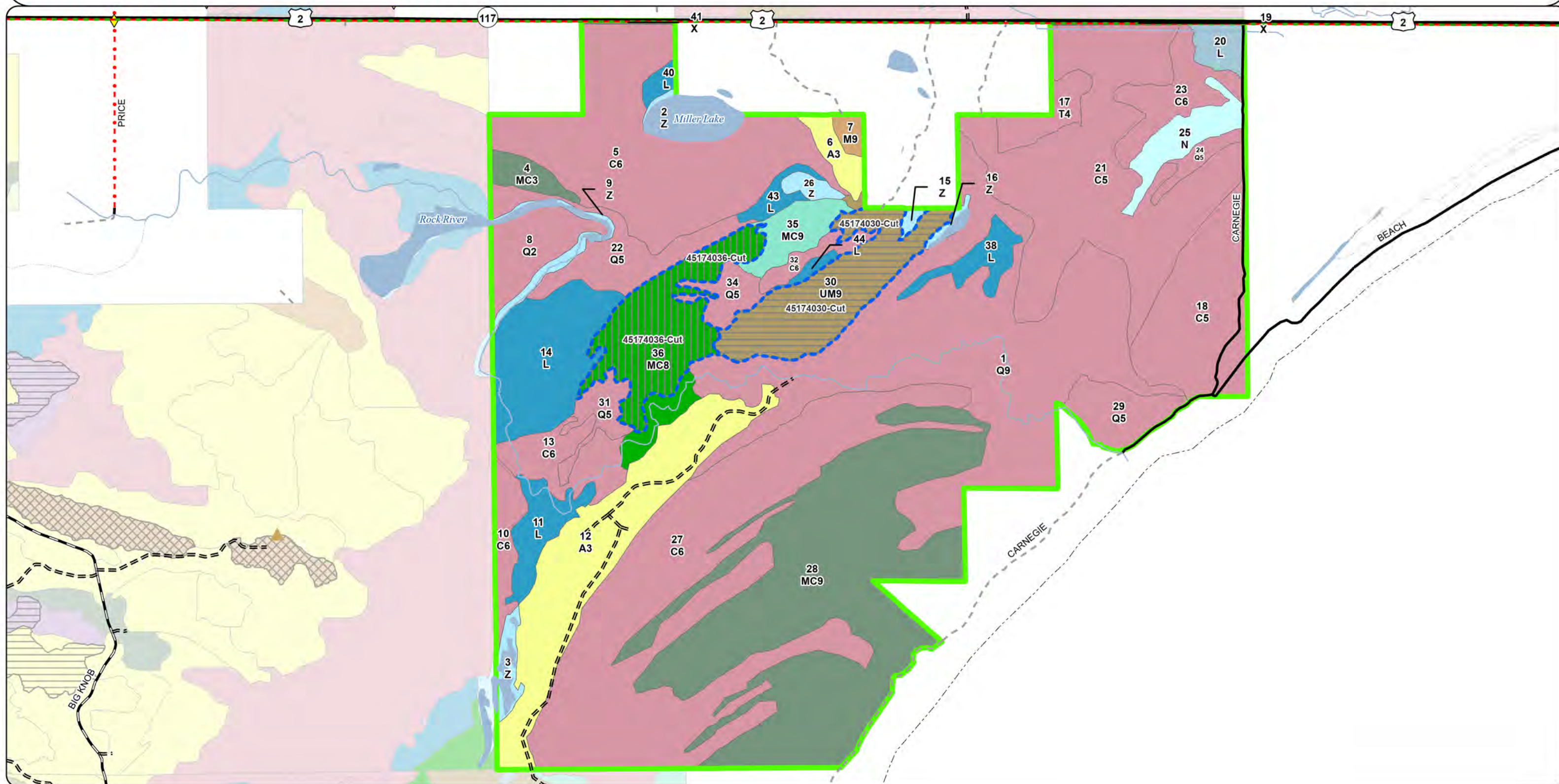
0 0.5 1 Miles

- ◆ Survey Grade Corners
- ▲ Berms
- Designated Bicycle Trails
- ══ DNR - Primary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road














- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut

- Shelterwood
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest

- 500 - Water
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland

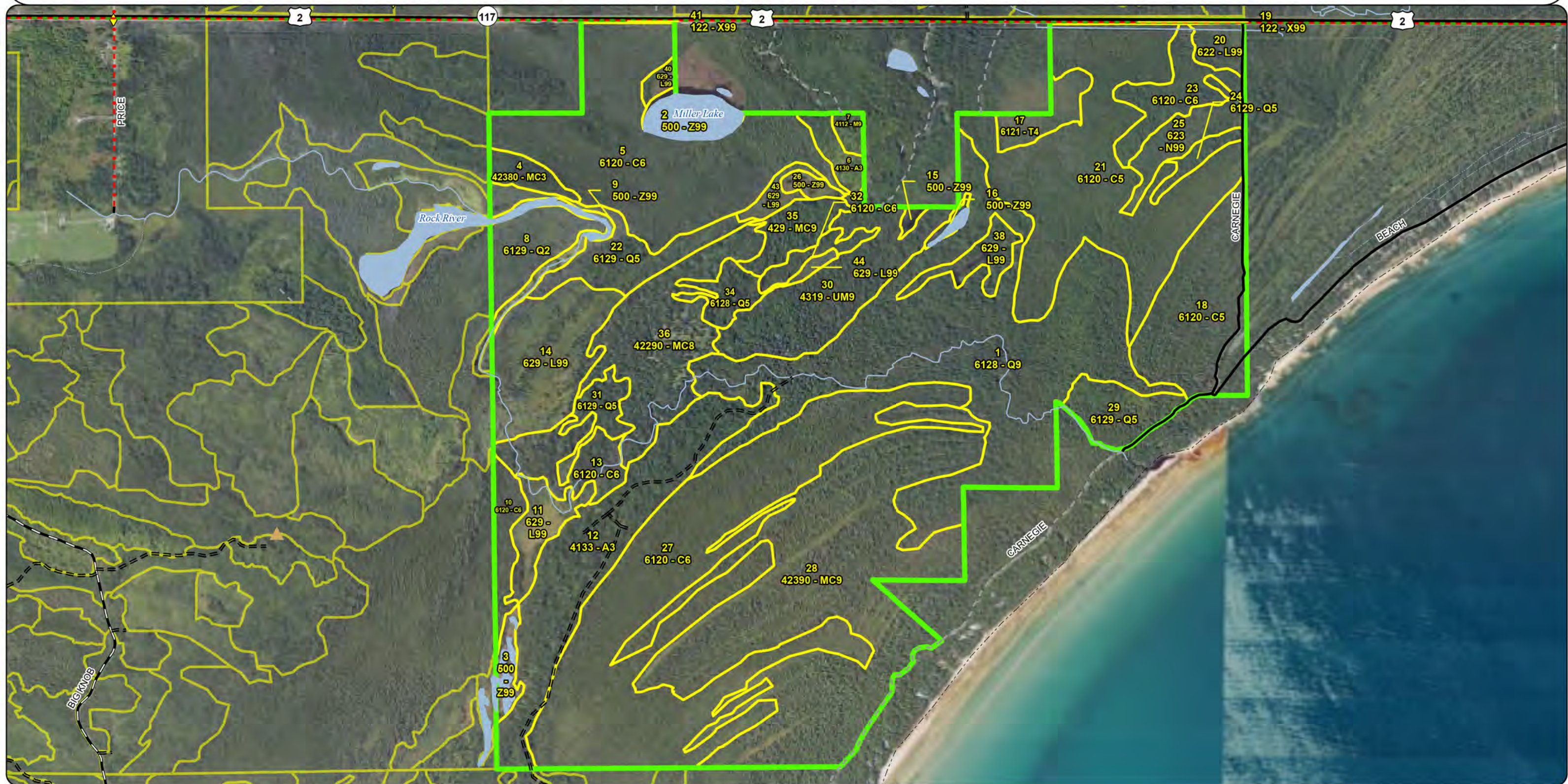




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|---|---------------------------|---|---------------------------------------|
|  | Survey Grade Corners |  | Federal / State / County - Paved Road |
|  | Berms |  | County - Gravel Road |
|  | Designated Bicycle Trails |  | Private - Dirt / Gravel Road |
|  | DNR - Primary Forest Road |  | Intermittent Stream |
|  | DNR - Forest Access Route |  | Perennial River |
|  | Federal / State Highway |  | Lakes and Rivers |
| | |  | Counties |

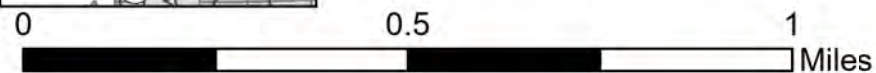
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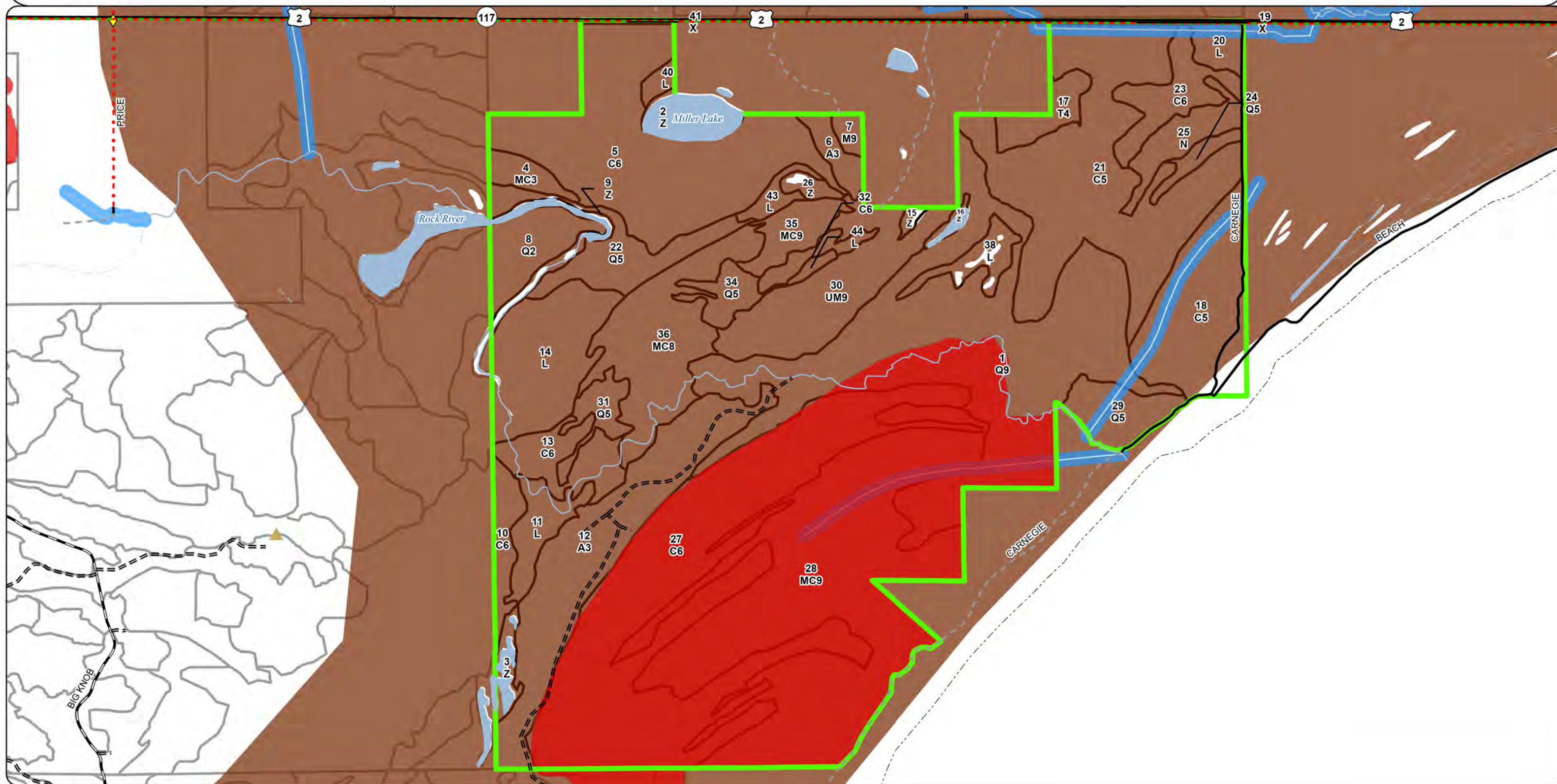


A map of the United States with a focus on the Southeast. A red box highlights a specific area in the Southeast, near the intersection of Interstate 75 (I-75) and Interstate 80 (I-80). The map shows major highways and state boundaries. The highlighted area is located in the state of Georgia, near the city of Atlanta.

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- | | | |
|---|---|---|
|  Survey Grade Corners |  Federal / State / County - Paved Road |  Compartment Boundary |
|  Berms |  County - Gravel Road |  Stand Boundaries |
|  Designated Bicycle Trails |  Private - Dirt / Gravel Road |  Ecological Reference Areas |
|  DNR - Primary Forest Road |  Intermittent Stream |  Cold Water Streams |
|  DNR - Forest Access Route |  Perennial River |  High Priority Trout Stream Buffer |
|  Federal / State Highway |  Lakes and Rivers |  Deer Winter Range |
| |  Counties | |



Report 1 – Total Acres by Cover Type and Age Class

Cody Flatt: Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	10	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109
Cedar	0	0	0	0	0	0	0	0	0	0	73	191	186	16	0	0	240	0	706
Lowland Conifers	0	0	0	0	0	0	0	51	36	0	20	0	0	0	0	0	0	263	369
Lowland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Marsh	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	73
Northern Hardwood	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Tamarack	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	10	0	0	0	0	18	0	0	0	0	0	0	257	285
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	65	0	0	0	0	0	0	65
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Total	182	0	10	99	0	10	15	51	41	0	111	191	251	16	0	0	240	593	1809



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 174
Total Compartment Acres: 1,810

Commercial Harvest -
Harvests with Site Condition - 372
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
Natural Mixed Pines	0	0	0	0	61	0	0	0	0	61
Upland Mixed Forest	64	0	0	0	0	0	0	0	0	64
Total	64	0	0	0	61	0	0	0	0	126

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	126	0	0	0	0	0	0	0	0	126
Next Step	0	61	0	0	61	0	126	0	0	248
Total	126	61	0	0	61	0	126	0	0	374



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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Proposed Treatments:

30	45174030-Cut	64.3	4319 - Mixed Upland Forest	9	117	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Planting Record	No
<u>Prescription</u> Cut all deciduous trees that are two (2) inches or more at DBH and all conifer that are four (4) inches or more at DBH, except do not cut any <u>Specs:</u> cedar and hemlock. Leave 1-2 white pine over 14" per acre where possible. Exclude overly wet areas. Retention wi <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Maple, birch, cherry, aspen, spruce, fir, pine <u>Regen:</u> <u>Other</u> Access is limited, either through private or with bridge across rock river. Harvest may be restricted to Dec 1- March 31 due to deer <u>Comment:</u> wintering complex. (Access may not allow) <u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026											
36	45174036-Cut	61.3	42290 - Natural Mixed Pine	8	104	81-110	Harvest	Shelterwood	42290 - Natural Mixed Pine	Current	No
<u>Prescription</u> Extended irregular shelterwood to 20-60 BA average 40BA. Cut larger diameter trees and leave smaller diameter crop trees. Basal area <u>Specs:</u> should be patchy with diversity in form and species. **Follow most current natural pine guidance. ** <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Understory; SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> pine, spruce, fir, aspen, maple, birch, cherry <u>Regen:</u> <u>Other</u> Buffer rock river and leave as long term retention <u>Comment:</u> <u>Site Condition:</u> Unknown Access <u>Proposed Start Date:</u> 10/01/2026											

Total Treatment 125.6
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2G

109	109	0	0	Aspen	
705	705	0	0	Cedar	
370	321	0	49	Lowland Conifers	49
118	118	0	0	Lowland Shrub	
20	20	0	0	Marsh	
73	73	0	0	Natural Mixed Pines	
5	5	0	0	Northern Hardwood	
15	15	0	0	Tamarack	
285	285	0	0	Upland Conifers	
65	65	0	0	Upland Mixed Forest	
4	4	0	0	Urban	
40	40	0	0	Water	
1,810	1,761		49	Total Forested Acres	49
	97%		3%	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		3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		3H: Deer Wintering Area - habitat is incompatible with harvest at this time	456	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



3	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	36	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3A: Conservation values incompatible with harvest at this time	586	Unspecified	Unspecified	Unspecified	Unspecified
Comments: WDS ERA							

Report 4 – Site Conditions



8	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	148	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	126	2D: Portable bridge needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
1	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	250.4	100	81-110	N/A	Infinitely variable stand. Predominantly low ground with white pine on the island areas of upland scattered throughout. Smaller diameter spruce and tamarack in wettest areas.																																																											
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2	500 - Water	None	11.6			No																																																												
3	500 - Water	None	8.8			No																																																												
4	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Well	10.1	40	1-50	N/A	Stand was cut in 1985. Regeneration is mix of aspen with spruce and balsam. Poor site and trees are small diameter. Some pretty wet ground in some areas. Data taken from when stand was visited in 2022.																																																											
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Tag Alder	Low	Variable	Variable																																																															
6	4130 - Aspen	Sapling Well	10.1	15	Immature	N/A	Stand was cut in 2011. Good looking aspen regeneration.																																																											
<table> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> <tr><td>Quaking Aspen</td><td>75</td><td>Log</td><td>2</td><td>15</td></tr> <tr><td>Northern White Cedar</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr> <tr><td>Bigtooth Aspen</td><td>15</td><td>Log</td><td>3</td><td></td></tr> <tr><td>Balsam Fir</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	75	Log	2	15	Northern White Cedar	5	Seedling	6		Bigtooth Aspen	15	Log	3		Balsam Fir	5	Seedling	6																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.8	75	81-110	N/A	Thinned in 2011. Decent looking poles. Heavy deer browse. Not much for regeneration.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>20</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>75</td><td></td><td>10</td><td>75</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>8</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	Red Maple	20		10		Sugar Maple	75		10	75	Paper Birch	5	Seedling	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Striped Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	< 5 feet	< 5 feet	Striped Maple	Low	< 5 feet	< 5 feet										
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8	6129 - Mixed Coniferous Lowland Forest	Sapling Medium	27.1	67	Unspecified	N/A	Data taken from previous inventory. No access.																																									
9	500 - Water	None	10.3			No																																										
10	6120 - Lowland Cedar	Poletimber Well	15.8	128	141-170	N/A	Small part of larger stand in adjacent compartment. Very wet in some places with sparse basal area. Mix of cedar, balsam, spruce, birch and some hardwoods. Not very merchantable.																																									
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11	629 - Mixed non-forested Wetland	None	19.5			No	Rock River flows though stand																																									
12	4133 - Aspen, Mixed Pine	Sapling Well	98.8	25	51-80	N/A	Stand was cut in 2003. Cut all species except WP and RP. Aspen, birch, maple mix regenerating nicely.																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>15</td><td></td><td>16</td><td>90</td></tr><tr><td>Quaking Aspen</td><td>20</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>60</td><td>Pole</td><td>3</td><td>25</td></tr></table>			Canopy Species	% Cover	Size Class	DBH		Age	White Pine	15		16	90	Quaking Aspen	20	Pole	4		Red Pine	5		14		Bigtooth Aspen	60	Pole	3	25	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Tag Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Paper Birch</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>			Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Tag Alder	Low	5 - 10 feet	5 - 10 feet	Paper Birch	Low	Variable	Variable	
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13	6120 - Lowland Cedar	Poletimber Well	28.5	119	Unspecified	N/A	Stand contains rock river																																									
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