



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11051

Entry Year: 2027

Acreage: 1,885

County: Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Katherine Dorvinen

Legal Description:

T51N R36W, Sections 3, 4, 5, 6, 7, and 8.

Identified Planning Goals:

Manage for high quality northern hardwoods. Expand mesic conifers within stands that are scheduled for treatment.

Soil and topography:

Much of the compartment is level. There are hills in Sections 4 and 8. Soils are: Kalkaska sand, Alcona loamy fine sand, Graveraet loam, Graveraet – Ocqueoc – Kalkaska sand, AuGres – Roscommon complex, Graveraet – Misery complex, Kalkaska – Alcona complex, Kalkaska –Halfaday sands, and Dawson peat.

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

The predominant surrounding land use is timber management. The exception is around the lakes where the land use becomes recreational homes and water recreation.

Unique Natural Features:

Loon, Bald Eagle, Farwell's water-milfoil and Fairy bells have been documented in the compartment. Potential for osprey, wood turtle, great blue heron rookery, red-shouldered hawk, goshawk, moose, and gray wolf.

Archeological, Historical, and Cultural Features:

One archaeological site is located within this compartment, it has been buffered from previous harvest activities and has had minimal disturbance.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment contains The West Branch of the Otter River, which is a designated trout stream, a small unnamed lake, Clear Lake, Sandy Lake, Horseshoe Lake, and Kratt Lake. Maintain a buffer to the high bank of the valley wall along the West Branch of the Otter River that runs through the SW portion of stand 21 and parallels the eastern portion of stand 21. Maintain a 50 ft buffer plus 5-ft per 1% increase in slope along Clear Lake in stand 13.

Wildlife Habitat Considerations:

This is summer range for deer. They migrate elsewhere for winter. Hard and soft mast in this compartment supports a good bear population. Mesic conifer regeneration is not impacted by deer browsing. Retain hemlock, except for trees that need to be removed for felling and skidding paths when other tree species are cut. Underplant hemlock in some northern hardwood stands now lacking hemlock seed sources, after selective harvests of hardwoods. Feature oak where present; mark trees growing under and around oaks so as to release oak crowns and to stimulate oak reproduction.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) clay and silt and coarse-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located two miles to the north and there may be some potential. Abandoned copper mines and crushed basalt piles are located two miles to the north. This area has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Access is good within much of the compartment however, there is no road easement across the private land west of the Clear Lake access site.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The water access sites for Sandy Lake, Clear Lake and Horseshoe Lake are within the compartment boundaries. There are no other developed recreational facilities, and there does not appear to be a potential to develop more recreational facilities.

Fire Protection:

This is not a fire prone area.

Additional Compartment Information:

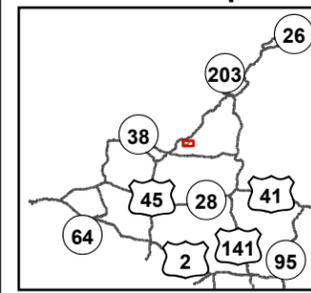
The following reports from the Inventory are attached:

- 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**

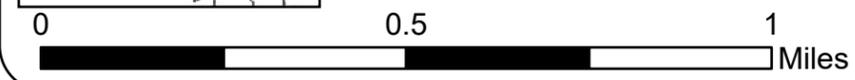
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatments Map

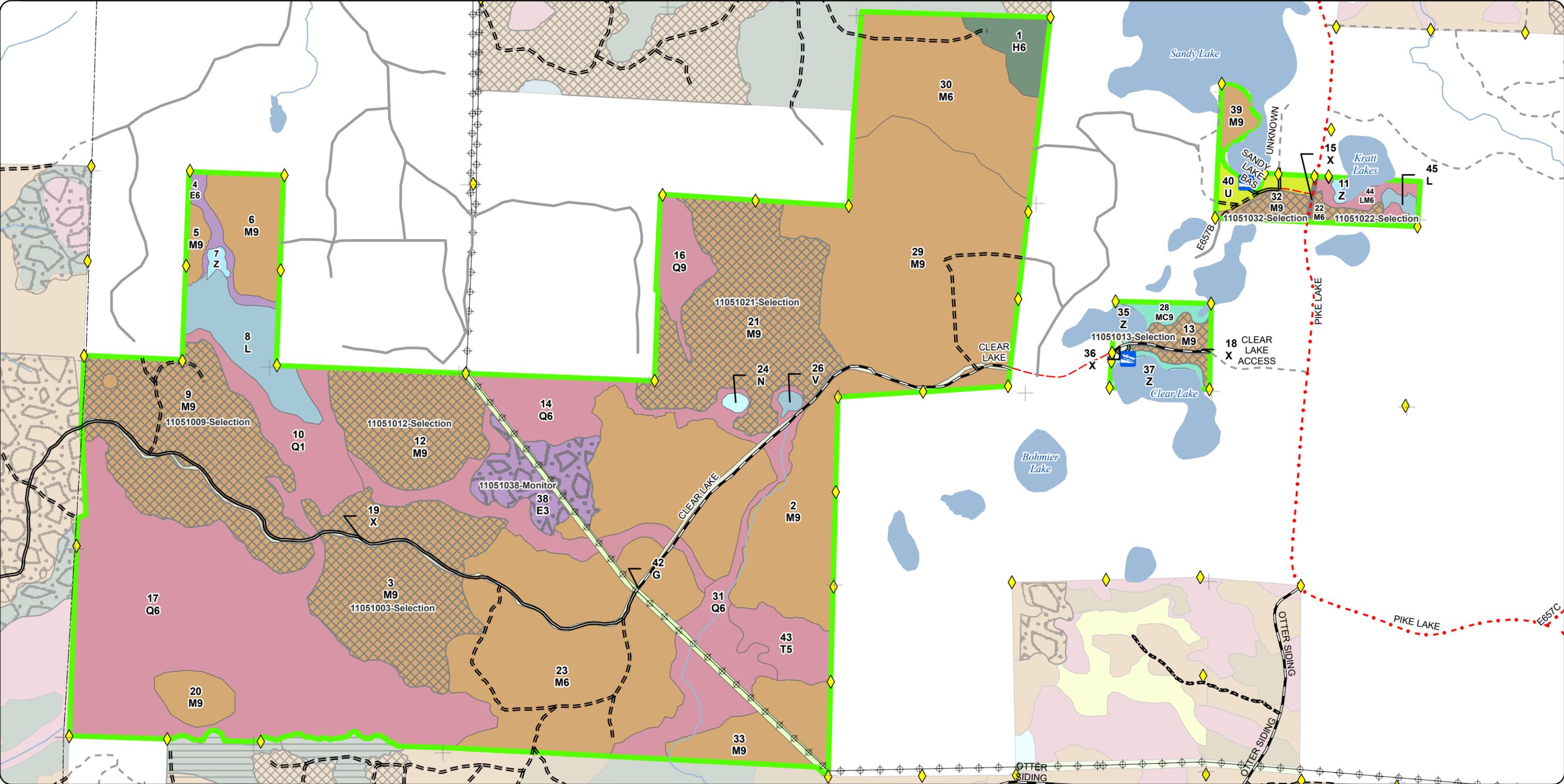


Compartment: 11051
 T51N R36W, Sections 3-8
 County: Houghton
 Unit: Baraga
 Mgmt. Area: Houghton Hardwoods
 YOY: 2027
 Acres: 1,885 GIS Calculated
 Examiner: Katherine Dorvinen
 Date Exported: 04/28/2025
 Map Phase: Web Post

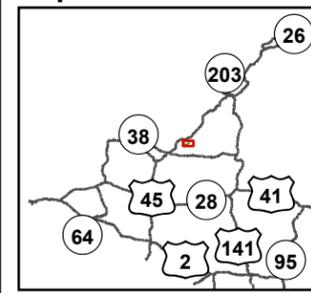


- ⊕ Remonumented Section Corners
- ◆ Survey Grade Corners
- 🚤 Boating Access Site
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- ⋯ County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- ⋯ DNR - Management Access
- Perennial River
- Lakes and Rivers
- ⊠ Counties
- ⊕ Powerline

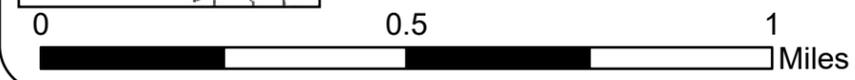
- ▭ Compartment Boundary
- ▨ Selection
- ▨ Monitoring - Regeneration
- ▨ 411 - Northern Hardwood
- ▨ 423 - Other Upland Conifers
- ▨ 429 - Mixed Upland Conifers
- ▨ 500 - Water
- ▨ 611 - Lowland Deciduous Forest
- ▨ 612 - Lowland Coniferous Forest
- ▨ 613 - Lowland Mixed Forest
- ▨ 122 - Road/Parking Lot
- ▨ 310 - Herbaceous Openland
- ▨ 330 - Low Density Trees
- ▨ 622 - Lowland Shrub
- ▨ 623 - Emergent Wetland
- ▨ 790 - Other Bare/Sparsely Vegetated



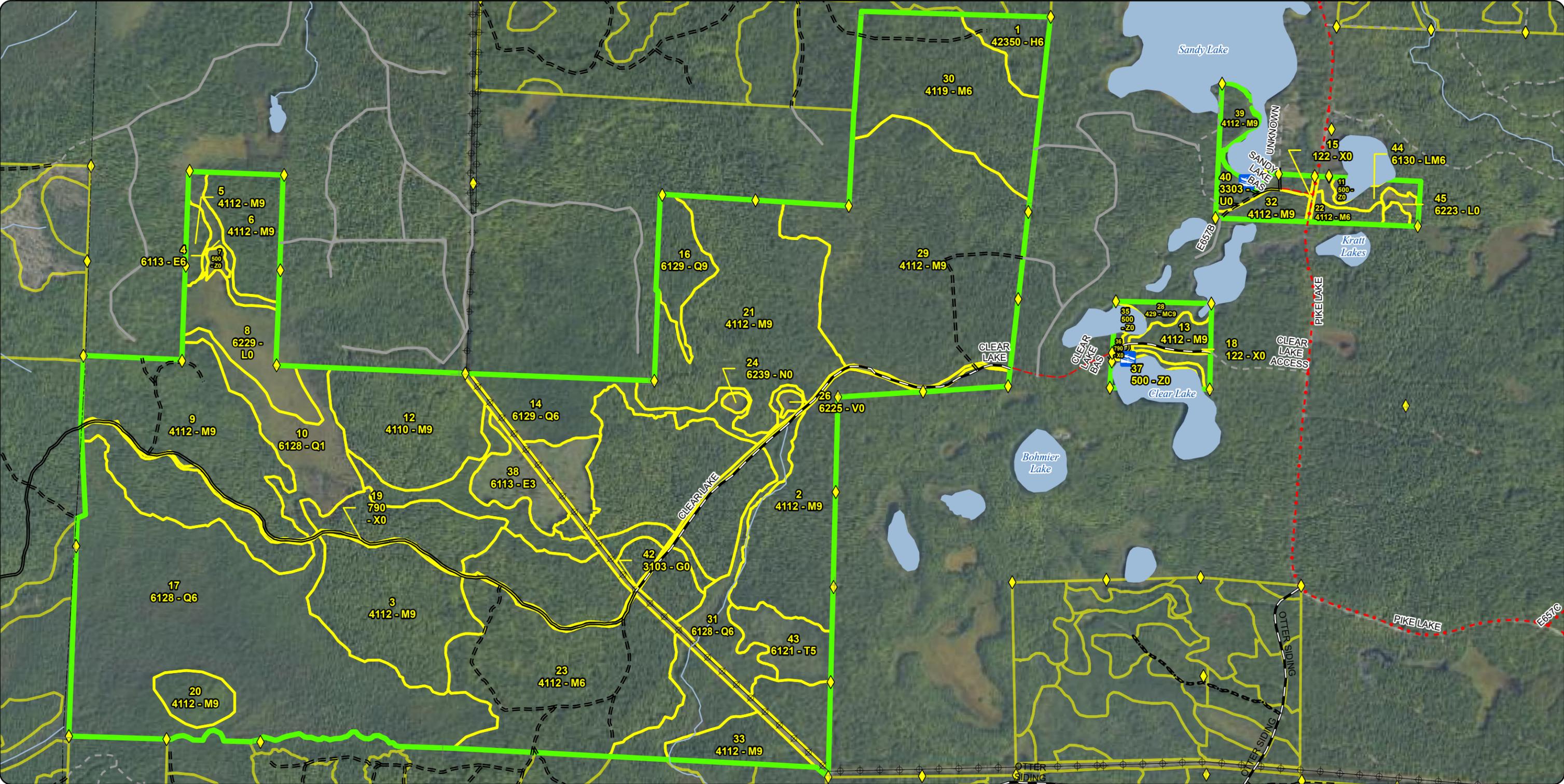
Stand Boundary Map



Compartment: 11051
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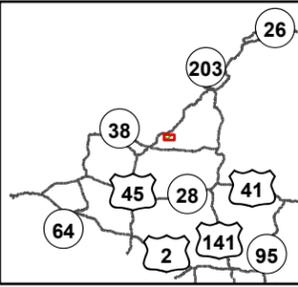
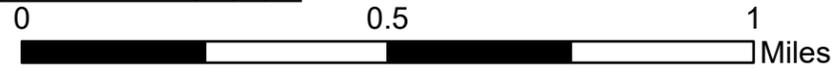


- Remonumented Section Corners
- Survey Grade Corners
- Boating Access Site
- DNR - Primary Forest Road
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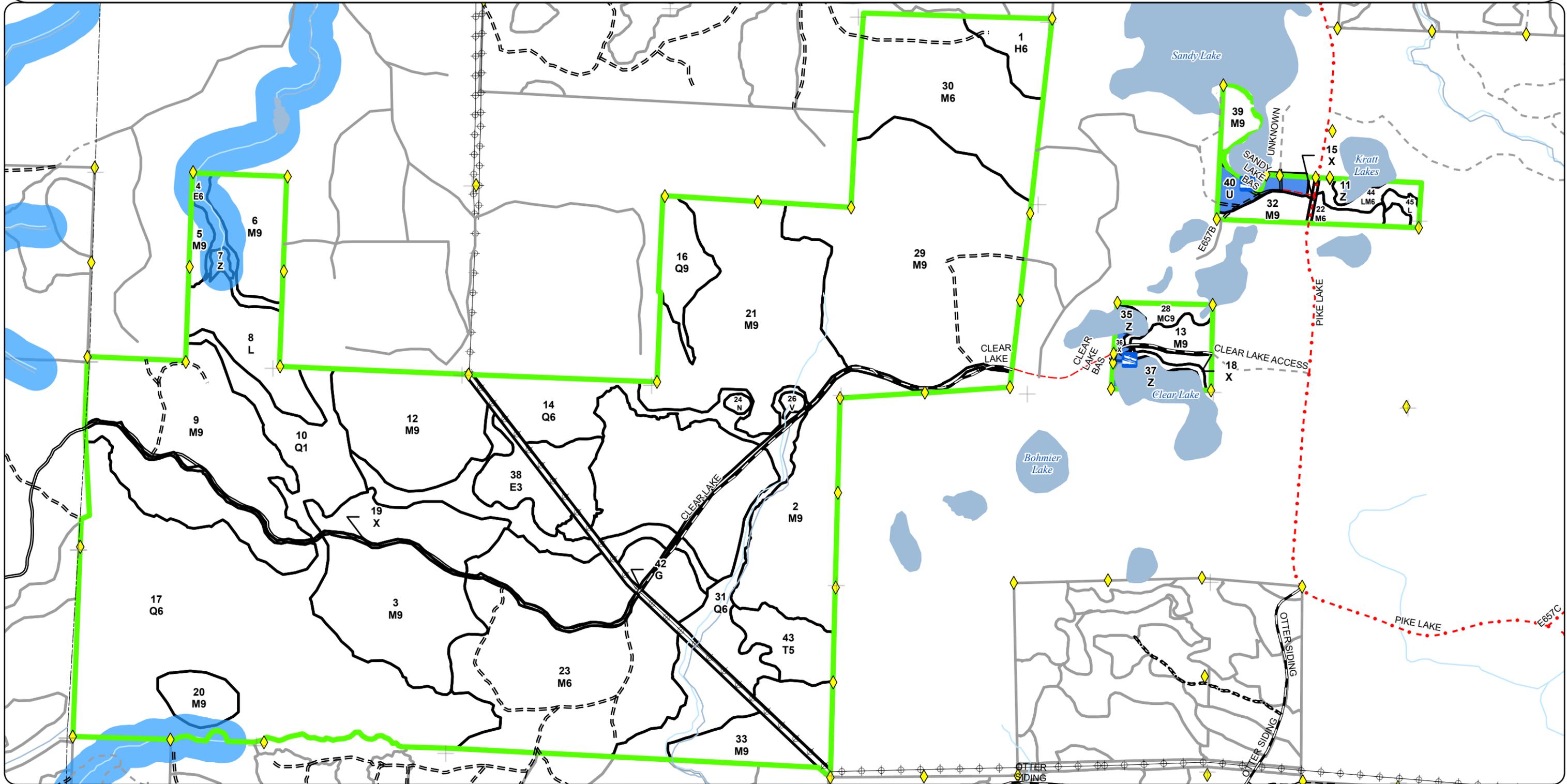


Special Conservation Areas & Site Conditions Map

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 T51N R36W, Sections 3-8
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- 🚤 Boating Access Site
- DNR - Primary Forest Road
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- == DNR - Forest Access Route
- ⋯ DNR - Management Access
- Perennial River
- Lakes and Rivers
- ⋯ Counties
- ⊕ Powerline
- ▭ Stand Boundaries
- ▨ SCA
- Cold Water Streams
- ▭ High Priority Trout Stream Buffer
- ▭ Boat Access Site
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▭ Compartment Boundary



Report 1 – Total Acres by Cover Type and Age Class

Baraga Mgt. Unit

Compartment 51

Year of Entry 2027

Katherine Dorvinen: 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
Bare/Sparsely Vegetated	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hemlock	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	18
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Low-Density Trees	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	425	470
Lowland Deciduous	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	43
Lowland Mixed Forest	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	9
Lowland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1205	1205
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	23
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	107	34	0	45	0	0	0	0	27	0	0	0	23	0	0	0	0	1649	1885



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 51
Total Compartment Acres: 1,885

Commercial Harvest - 329
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
Northern Hardwood		0	329	0	0	0	0	0	0	0	329
	Total	0	329	0	0	0	0	0	0	0	329

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		329	0	0	0	0	34	0	0	0	363
	Total	329	0	0	0	0	34	0	0	0	363



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:

32	11051032- Selection	7.5	4112 - Maple, Beech, Cherry Association	9	87	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".

Next Step Treatments:

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Site Condition:

Proposed Start Date: 10/01/2026

22	11051022- Selection	5.7	4112 - Maple, Beech, Cherry Association	6	87	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".

Next Step Treatments:

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Site Condition:

Proposed Start Date: 10/01/2026

21	11051021- Selection	128.2	4112 - Maple, Beech, Cherry Association	9	119	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
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Prescription Specs: Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q cover type stand. Follow all guidelines set forth in "The Complete Marker".

Next Step Treatments:

Acceptable Regen: Any combination of the original stand's over story species prior to harvest.

Other Comment: Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.

Site Condition:

Proposed Start Date: 10/01/2026



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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
13 11051013-Selection	12.5	4112 - Maple, Beech, Cherry Association	9	84	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species</p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/01/2026</p>										
12 11051012-Selection	66.4	4110 - Sugar Maple Association	9	84	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest</p> <p><u>Other Comment:</u></p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/01/2026</p>										
9 11051009-Selection	128.2	4112 - Maple, Beech, Cherry Association	9	87	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Site Condition:</u></p> <p>Proposed Start Date: 10/01/2026</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
3 11051003-Selection	108.9	4112 - Maple, Beech, Cherry Association	9	84	81-110	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription</u> Selectively thin hardwoods to 70-90 square feet of basal area. Target large diameter trees for removal first to lower overall stand diameter, retaining one legacy tree per acre. Favor red oak, hemlock, white pine and cedar, where present. Red oak and black cherry should be released on 3 sides to an average basal area of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of basal area. Around areas of heavy hemlock open up the drip edge to encourage hemlock seedling establishment. Where feasible, push sale boundary into Q6 cover type stand. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Regen:</u></p> <p><u>Other</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>										

Approved Treatments:

38 11051038-Monitor	34.2	6113 - Lowland Maple	3	5	Immature	Monitoring	Monitoring - Regeneration	6128 - Lowland Coniferous, Mixed Deciduous	Planting Record	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> 2025 - regen is mostly red maple, needs check in snow free conditions. Majority of leave trees (cedar and hemlock) are now dead. A composition of the current overstory species with an emphasis hemlock. Immediate regeneration may be more deciduous with coniferous establishing later.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/07/2020</p>										

Total Treatment 0
Acreage Proposed:

Report 4 – Site Conditions

Compartment: 51
Year of Entry: 2027



Baraga Mgt. Unit
Katherine Dorvinen: Examiner

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2G	2H	3J
		With Condition	Not Available				
19	19	0	0	Bare/Sparsely Vegetated			
2	2	0	0	Bog			
18	18	0	0	Hemlock			
16	16	0	0	Herbaceous Openland			
10	10	0	0	Low-Density Trees			
470	0	0	470	Lowland Conifers	337		134
43	34	0	9	Lowland Deciduous	9		
9	0	0	9	Lowland Mixed Forest	9		
38	35	0	3	Lowland Shrub	3		
2	2	0	0	Marsh			
1205	1190	0	15	Northern Hardwood		15	
23	23	0	0	Tamarack			
10	0	0	10	Upland Conifers			10
2	2	0	0	Urban			
15	15	0	0	Water			0
1,881	1,365		516	Total Forested Acres	358	15	144
	73%		27%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	134	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: 2025 - See compartment narrative for Wildlife Habitat Consideration. 2015- Wildlife Div. prefers FRD not to cut in these stands.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Compartment: 51
Year of Entry: 2027



Baraga Mgt. Unit
Katherine Dorvinen: Examiner

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	271	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: 2025 - See compartment narrative for Wildlife Habitat Consideration.2015 - Wildlife Div. prefers FRD not to harvest in these stands.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Wildlife Div. prefers FRD not to cut in these stands.							
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	42350 - Upland Hemlock	Poletimber Well	18.3	79	51-80	N/A	This stand experience a large amount of blowdown from the summer storm of 2016. Sandy Lake Hdwd cut in 1998 and again in 2019 as "Sandy Lake Hdwds" 11-026-17.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5		20		Yellow Birch	Low	10 - 20 feet	10 - 20 feet
Yellow Birch		5	Seedling	8		Red Oak	High	5 - 10 feet	5 - 10 feet
Red Oak		20		16	5	White Spruce	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		10		13		Hemlock	Full	10 - 20 feet	10 - 20 feet
Hemlock		60		14	79	Balsam Fir	Low	10 - 20 feet	10 - 20 feet
						Sugar Maple	High	>20 feet	>20 feet
						Red Maple	Full	10 - 20 feet	10 - 20 feet
2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	79.3	84	81-110	N/A	Clear Hdwds cut 2018. 007 and Clear Lake Hdwd, cut in 1997.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		5	Seedling	9		Black Cherry	Full	5 - 10 feet	5 - 10 feet
Sugar Maple		35		10	61	Red Oak	Low	5 - 10 feet	5 - 10 feet
Red Maple		41	Seedling	8	84	Hemlock	Low	>20 feet	>20 feet
Red Oak		1		14		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
White Spruce		2		10		Yellow Birch	Medium	10 - 20 feet	10 - 20 feet
Hemlock		3		14		Sugar Maple	Full	Variable	Variable
Black Cherry		8		10					
Basswood		5		12					
3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	108.9	84	81-110	N/A	2015 - scattered white Spruce, and red Oak. Cut as part on "Horse Shoe Hdwds" by Northern Hardwoods in the winter of 07-08.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		5	Seedling	6		Balsam Fir	Low	Variable	Variable
Yellow Birch		6	Seedling	9		Red Oak	Trace	10 - 20 feet	10 - 20 feet
Sugar Maple		66		14	84	White Pine	Low	>20 feet	>20 feet
Red Maple		23		12	73	Sugar Maple	Medium	>20 feet	>20 feet
						Red Maple	Medium	>20 feet	>20 feet
4	6113 - Lowland Maple	Poletimber Well	8.8	119	81-110	N/A	wet		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		5		8		Balsam Fir	Medium	>20 feet	>20 feet
Tamarack		2	Seedling	9		Northern White Cedar	Medium	>20 feet	>20 feet
White Spruce		10		10	81	Hemlock	Medium	>20 feet	>20 feet
Red Maple		80	Seedling	8	119	Red Maple	Medium	>20 feet	>20 feet
White Pine		3		14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5 4112 - Maple, Beech, Cherry Association Sawtimber Well 6.4 84 81-110 N/A Sleeping Hdwd, cut in 1997.2018: E Huff Hdwd, cut winter 2017-2018.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5		10		Basswood	Low	>20 feet	>20 feet
Yellow Birch	3	Seedling	9		White Spruce	Medium	10 - 20 feet	10 - 20 feet
White Spruce	2		12		Yellow Birch	Full	Variable	Variable
Sugar Maple	60		9	84	Maple (spp.)	Full	Variable	Variable
Red Maple	30	Seedling	9	61	Balsam Fir	Full	10 - 20 feet	10 - 20 feet

6 4112 - Maple, Beech, Cherry Association Sawtimber Well 32.5 84 81-110 N/A Sleeping Hdwd, cut in 1997.2018: E Huff Hdwd, cut winter 2017-2018.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	3	Seedling	8		Basswood	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	2	Seedling	8		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Basswood	3		12		Maple (spp.)	Full	Variable	Variable
White Spruce	1		11		Yellow Birch	High	10 - 20 feet	10 - 20 feet
Sugar Maple	61		12	84	Black Cherry	High	10 - 20 feet	10 - 20 feet
Red Maple	30		8	61				

7 500 - Water Unspecified 2.2 No

8 6229 - Mixed Lowland Shrub Unspecified 35.1 No

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Trace	5 - 10 feet	5 - 10 feet
Black Spruce	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	Trace	5 - 10 feet	5 - 10 feet
White Pine	Low	10 - 20 feet	10 - 20 feet

9 4112 - Maple, Beech, Cherry Association Sawtimber Well 129.1 87 81-110 N/A 2025- cut in 2007, Hawkeye hdwds. Hawkeye Hdwd, cut in 1997.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	3		12		Yellow Birch	Low	>20 feet	>20 feet
Black Cherry	4		10		Red Oak	Trace	10 - 20 feet	10 - 20 feet
Hemlock	2		16		Northern White Cedar	Low	>20 feet	>20 feet
Yellow Birch	2	Seedling	6		Hemlock	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	60		11	87	Balsam Fir	Medium	>20 feet	>20 feet
Red Maple	29		10	73	Sugar Maple	Full	Variable	Variable
					Red Maple	Full	Variable	Variable
					White Pine	Trace	10 - 20 feet	10 - 20 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
10	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	45.0	23	1-50	N/A	2015 - Winter data collection, wet. Beaver have flooded out stand in 2010ish. Almost all snags now. 2025 - Canopy closure for stand is at low end of 25% cover. Keeping as Q1.																																																																																	
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White Spruce	1	Log	1																																																																																					
Hemlock	45	Pole	2	23																																																																																				
11	500 - Water	Unspecified	3.3			No	Property line (blue) is in along South side.																																																																																	
12	4110 - Sugar Maple Association	Sawtimber Well	66.4	84	81-110	N/A	2025 - heavy regenStand was thinned with "Horse Shoe Hdws", cut by Northern Hdws in 2007.																																																																																	
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13	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.5	84	81-110	N/A	Cut in 2007.																																																																																	
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14	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	78.2	119	111-140	N/A	Wet																																																																																	
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15	122 - Road/Parking Lot	Unspecified	0.9			No	Pike Lake Road--County Road																																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 6129 - Mixed Coniferous Lowland Forest Sawtimber Well 21.2 119 141-170 N/A Wet, w/good Hemlock regen. established

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Seedling	9	109	Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Red Maple	10	Seedling	9	109	Hemlock	Medium	>20 feet	>20 feet
White Spruce	2		11	109	Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	20	Seedling	9	119				
Hemlock	61		12	119				
White Pine	2		16	109				

17 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 270.6 119 81-110 N/A Stand is wet throughout. Some evidence of dieback in hardwood stands to the North from beaver flooding.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	3		16	109	Black Spruce	Low	>20 feet	>20 feet
Black Ash	2	Seedling	8	109	Northern White Cedar	Low	>20 feet	>20 feet
Yellow Birch	5	Seedling	9	109	Hemlock	Low	>20 feet	>20 feet
Black Spruce	5		12	109	Balsam Fir	Medium	>20 feet	>20 feet
Northern White Cedar	5	Seedling	8	109				
Hemlock	50		16	119				
Red Maple	30	Seedling	9	109				

18 122 - Road/Parking Lot 0.7 Yes PRD developed access site for Clear Lake and Horseshoe Lake

19 790 - Other Bare/Sparsely Vegetated Unspecified 16.8 No Clear Lake Road. Sides of road are grass and brush.

20 4112 - Maple, Beech, Cherry Association Sawtimber Well 15.2 119 111-140 N/A 2025 - unable to get to stand. A bird told Fred it was the same though...Unique stand of poor quality over mature hardwood. Small upland "island" surrounded by large swamp.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	10		10		Black Cherry	Low	>20 feet	>20 feet
Hemlock	3		16		White Spruce	Low	>20 feet	>20 feet
Yellow Birch	2		20		Yellow Birch	Low	>20 feet	>20 feet
Sugar Maple	50		12	119	Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Red Maple	35	Seedling	7	109	Sugar Maple	Low	>20 feet	>20 feet
					Red Maple	Low	>20 feet	>20 feet

21 4112 - Maple, Beech, Cherry Association Sawtimber Well 128.2 119 111-140 N/A Summer 2016 blow down event. Timber salvage activities took place during the fall of 2016 throughout the stand. Some scattered Hemlock, and a few Red Oak. Cut as part of "Holey Road Hardwoods" by Longyear in 07-08.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3	Seedling	9	50	Maple (spp.)	Full	Variable	Variable
Red Oak	1		14		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Hemlock	1		16		Yellow Birch	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	65		10	119	Ironwood	Low	5 - 10 feet	5 - 10 feet
Red Maple	28		10	61				
Black Cherry	2		11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22 4112 - Maple, Beech, Cherry Association Poletimber Well 5.7 87 81-110 N/A Holey Road Hdwd, cut in 2007.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5		10		Balsam Fir	High	Variable	Variable
Red Oak	1		16		Red Oak	Medium	Variable	Variable
White Spruce	1		9		Hemlock	Low	Variable	Variable
Hemlock	2		16		Red Maple	Low	Variable	Variable
Yellow Birch	3	Seedling	8					
Sugar Maple	24		9	61				
Red Maple	64		9	87				

23 4112 - Maple, Beech, Cherry Association Poletimber Well 274.5 84 81-110 N/A north of road was No Bunch Hdwd, and south of road was 007 Hdwd both cut 1n 1997. Harvested in the summer of 2018, Bear Bunch Hardwoods 11-011-17.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	8		12		Ironwood	Full	10 - 20 feet	10 - 20 feet
Yellow Birch	2	Seedling	9		Sugar Maple	Full	Variable	Variable
Sugar Maple	70		12	84	Red Maple	Full	Variable	Variable
Red Maple	20		10	61	Hemlock	Low	10 - 20 feet	10 - 20 feet

24 6239 - Mixed Emergent Wetland Unspecified 1.8 No

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	10 - 20 feet
White Pine	Trace	10 - 20 feet	10 - 20 feet
Tamarack	Low	5 - 10 feet	5 - 10 feet

26 6225 - Bog Unspecified 1.9 No

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Trace	10 - 20 feet	10 - 20 feet
White Pine	Trace	10 - 20 feet	10 - 20 feet
Black Spruce	Trace	10 - 20 feet	10 - 20 feet
Hemlock	Trace	10 - 20 feet	10 - 20 feet

28 429 - Mixed Upland Conifers Sawtimber Well 9.8 105 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	4		14		Hemlock	High	10 - 20 feet	10 - 20 feet
Black Spruce	5	Seedling	8		Balsam Fir	Full	10 - 20 feet	10 - 20 feet
Hemlock	20		16					
Yellow Birch	2		12					
Red Maple	15		12	61				
White Pine	52		18	105				
Black Cherry	2		14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29 4112 - Maple, Beech, Cherry Association Sawtimber Well 197.2 84 81-110 N/A Clear Hdws cut 2018-19. 007 and Clear Lake Hdwd, cut in 1997. North Part was Sandy Lake Hardwoods 11-026-17.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5		12		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Black Cherry	8		10		White Ash	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	5	Seedling	9		Sugar Maple	Full	Variable	Variable
Sugar Maple	35		10	61	Red Maple	Medium	10 - 20 feet	10 - 20 feet
Red Maple	41	Seedling	8	84	Hemlock	Low	>20 feet	>20 feet
Red Oak	1		14		Yellow Birch	Medium	10 - 20 feet	10 - 20 feet
White Spruce	2		10		Ironwood	Low	10 - 20 feet	10 - 20 feet
Hemlock	3		14					

30 4119 - Mixed Northern Hardwoods Poletimber Well 92.7 79 81-110 N/A Sandy Lake Hdwd cut in 1998 and Sandy Lake Hdws 11-026-17 in 2019

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	10		10		Sugar Maple	High	>20 feet	>20 feet
Red Oak	1		14	61	White Ash	Medium	5 - 10 feet	5 - 10 feet
White Spruce	2		12		Ironwood	Medium	5 - 10 feet	5 - 10 feet
Hemlock	3		14		Red Oak	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	59		10	79	Hemlock	Low	5 - 10 feet	5 - 10 feet
Red Maple	20		9		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	5	Seedling	8					

31 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 55.4 119 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5		16		Balsam Fir	Low	>20 feet	>20 feet
Red Maple	25		9	61	Red Maple	Low	>20 feet	>20 feet
Yellow Birch	10		12		White Spruce	Low	>20 feet	>20 feet
White Spruce	5		12		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Black Spruce	5	Seedling	7		Hemlock	Medium	>20 feet	>20 feet
Northern White Cedar	5	Seedling	8					
Hemlock	45		16	119				

32 4112 - Maple, Beech, Cherry Association Sawtimber Well 8.8 87 111-140 N/A cut in 2007 "Holey Road Hdws"

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	5		10		White Pine	Low	5 - 10 feet	5 - 10 feet
Yellow Birch	3	Seedling	8		Balsam Fir	Low	Variable	Variable
Sugar Maple	65		9	87	Sugar Maple	Full	Variable	Variable
Red Maple	24	Seedling	9	61	Red Maple	Medium	Variable	Variable
Red Oak	1		16		Red Oak	Low	5 - 10 feet	5 - 10 feet
Hemlock	2		16		Hemlock	Low	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.8	84	81-110	N/A	Power siding cut in fall 2017, unit 3 & 4. High voltage Hdwd, cut in 1997.																																																						
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35	500 - Water	Unspecified	3.1			No	Horseshoe Lake Access site on south shore																																																						
36	790 - Other Bare/Sparsely Vegetated	Unspecified	1.8			Yes	PRD developed access site for Clear Lake and Horseshoe Lake.																																																						
37	500 - Water	Unspecified	9.6			No	Clear Lake. Access site on north shore.																																																						
38	6113 - Lowland Maple	Sapling Well	34.3	5	Immature	N/A	2025 - regen is mostly red maple, needs check in snow free conditions. Majority of leave trees (cedar and hemlock) are now dead. Harvest by Acciacca Forest Product during the winter of 2019/20 as Fifty One Hemlock 11-031-17.																																																						
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39	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.5	87	81-110	N/A	2025 - Very heavy regeneration, looks to have been cut hard in '07 Small isolated stand along Sandy Lake shore. Holey Road Hdwd, cut in 2007																																																						
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40	3303 - Mixed Low Density Trees	Unspecified	10.0			No	This includes the Sandy Lake access site managed by PRD. Maintained by Twin Lakes State Park.																																																						
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42	3103 - Rubus-Fern	Unspecified	15.7			No	Power line R-O-W.																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	6121 - Tamarack	Poletimber Medium	23.1	115		N/A	2025 - 30% of stand are snags. Majority is Tamarack with some spruce

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	50	Seedling	6	115
Black Spruce	40	Seedling	6	
White Pine	10		14	

44	6130 - Fir, Aspen, Maple	Poletimber Well	9.3	77	111-140	N/A	Too wet
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	10		12		Balsam Fir	Medium	>20 feet	>20 feet
Black Spruce	10	Seedling	9		White Pine	Low	10 - 20 feet	10 - 20 feet
Hemlock	4		10		Hemlock	Low	5 - 10 feet	5 - 10 feet
White Pine	2		22					
Red Maple	48		10	77				
Bigtooth Aspen	2		14					
Balsam Fir	20	Seedling	8					
Tamarack	4	Seedling	9					

45	6223 - Inundated Shrub Swamp	Unspecified	2.9			No	
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