



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61019

Entry Year 2028

Acreage: 1,863

County: Benzie

Management Area: Grand Traverse Moraine

Stand Examiner: Craig Allen

Legal Description:

T25N- R13W; Sections 1, 12, 13

Identified Planning Goals:

This compartment is a part of the Grand Traverse Moraine Management Area in the State Forest Management Plan. Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Betsie River (a designated natural river), and the Grass Lake Flooding; threatened, endangered and special concern species; and provide for forest-based recreational uses. The primary attributes and associated uses that influence and drive management in the Manistee Plains management area are wood fiber production, wildlife habitat for existing species along with various recreational uses. Management activities will emphasize the age, size and species distribution within cover types. Expected trends within this 10-year planning period are increased recreation pressure and continued management to balance cover type age-class distributions for timber and wildlife habitat. This age-class management effort is easily seen in this compartment by the current prescriptions for aspen regeneration harvests.

Soil and topography:

The topography is mostly level. Approximately half of the compartment is lowlands. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon- Augres- Croswell soils.

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

This compartment is part of a large block of State ownership. It is bordered by other State land except for the east side and the southeast ¼ of section 13. The private lands in the area have many residential homes and continue to experience much land fragmentation. There are vacation and retirement homes in the area.

Unique Natural Features:

Grass Lake Swamp, Pickeral Creek, Betsie River and Twin Lakes are all natural feature components of this compartment. The part of the Betsie River contained within the compartment is not part of the Michigan Natural River Designation. The designated portion starts at the Grass Lake dam, then extends downstream to Betsie Lake. This compartment contains or is close to the headwaters for the Little Betsie River to the south.

Archeological, Historical, and Cultural Features:

There are no known features of this kind within the compartment. However, early Native Americans would commonly establish settlements along the Betsie River.

Special Management Designations or Considerations:

There are no special Management designations or Considerations for this compartment.

Watershed and Fisheries Considerations:

The Betsie River, the Grass Lake Flooding, Twin Lake, Upper Twin Lake, and several unnamed tributaries are located in Compartment 19. The unnamed tributary in western Section 13 that flows into Twin Lake is a Designated Trout Stream. The Grass Lake Flooding, Twin Lake, and Upper Twin Lake offer fishing opportunities for northern pike, largemouth bass, and panfish. The Grass Lake Dam may be a candidate for removal, depending on the recommendations of Wildlife Division for the Grass Lake Wildlife Flooding. Removing the dam would provide some benefit for brown trout, steelhead, coho salmon, and Chinook salmon in the Betsie River. (Fisheries Division, DNR Cadillac)

Wildlife Habitat Considerations:

Compartment 19 is part of a broad, flat, outwash plain extending to the north and southwest, and comprised of poorly drained peat and muck soils. The low relief and poor soil permeability affect water flow and retention in the Compartment by causing pronounced meandering in the directions of the Betsie River and its tributary, Pickerel Creek. Twin and Upper Twin Lakes, and Grass Lake in Compartment 18 to the north, are shallow lakes surrounded by extensive marsh and forested wetlands creating a landscape resembling a large natural sponge. The Grass Lake Dam, located downstream from this

compartment, spans the Betsie River and helps to maintain water depths throughout the wetland types. A mix of lowland conifer and hardwood types dominate the forested stands. Aspen dominates the forested stands where small intrusions of neighboring Land Type Associations provide a landscape of higher elevations. Ten openings interspersed throughout the compartment are proposed for treatment by Wildlife Division. Wildlife priorities in this compartment focus on managing the mix of wetland and upland cover types to promote a variety of aquatic and semi-aquatic vertebrate species. Beaver, mink, muskrat, bald eagle, osprey, great blue heron, and a variety of waterfowl species use the lakes and streams. The interspersed forested and non-forested stands along a broad hydrological continuum creates a diversity of ecological niches for plants and animals to fill. This mix enhances the value of this compartment as a winter yarding area for white-tailed deer. Black bear, coyote, bobcat, porcupine, black-capped chickadee, raven, and great-horned owl commonly use deer yards. The aspen stands and non-forested openings in the adjacent uplands provide opportunities to manage for species preferring periodic removal of shade intolerant cover types. Clearcutting aspen to create a matrix of smaller stands of differing ages creates optimal habitat for ruffed grouse and can address their habitat needs throughout their life cycle. Younger stands provide cover for drumming and raising broods while older stands provide buds and catkins for food in the winter and spring, respectively. Leaving fruiting shrubs and coarse woody debris in a form suitable for drumming logs further increases the value of managed aspen stands to ruffed grouse and other species using this cover type. Woodcock prefer areas that are similar to grouse, but with a higher water table. The moist soils allow woodcock to forage for earthworms throughout the summer. This compartment contains poorly drained soils and is well suited to nesting and rearing broods. The mix of managed openings and aspen stands providing breeding grounds, feeding, and shelter for woodcock, and are favored habitat for white-tailed deer, downy woodpecker, sharp-shinned hawk, wild turkey, and spotted salamander. Openings managed as rye fields also provide an important food source for white-tailed deer in the fall as they gain weight for winter and in the early spring as they emerge from winter yards in nearby conifer swamps. (Wildlife Division, DNR Traverse City CSC)

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel pits are known to exist in the vicinity of the compartment, and potential for surface mining within the compartment appears limited due to the prevalence of wetlands. The compartment is north of the main Antrim Shale and Silurian reef hydrocarbon plays. Some Antrim wells were drilled in the area around the compartment, but pipelines were never extended to the area, the wells never produced, and have since been plugged and abandoned or, in some cases, orphaned. While there still may be some potential for Antrim gas production from beneath the compartment, it is uneconomical at current gas prices to develop new Antrim wells, and potential future Antrim gas development is considered very low. Some production from Silurian reef reservoirs has occurred within one mile of the compartment, but there has been no recent well permit activity in the area, and there are no active leases within the compartment involving State-owned mineral rights. Potential for oil & gas from other known producing formations beneath the compartment is considered low at this time. (Peter Rose, DNR Geologist, 3/26/26).

Vehicle Access:

There are seasonal county roads offering good access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility. Due to its rough condition (water holes, etc.), there may be a need for some road repair work to the seasonal county road located along the east side of section 12 and 1.

Survey Needs:

There are no known survey needs in this compartment at this time.

Recreational Facilities and Opportunities:

The Grass Lake State Forest Campground is located in section 2 to the west of this compartment. There is an informal boat launch / access site to the Betsie River (south off Betsie River Rd.) located on the edge of State land in the NE quarter section of section one. Hunting, fishing, trapping and camping are recreational activities that are enjoyed within the compartment.

Fire Protection:

This area has wildfire protection by the local Fire Departments and the DNR Traverse City Field Office. Access is acceptable in this compartment, and there is only a minor history of wildfire. The majority of this compartment is a hardwood type, so the opportunity for a large fire is minimal.

Additional Compartment Information:

□ Lands recommended for disposal: There are no State lands in this compartment recommended for disposal. □ Lands recommended for acquisition: There is no Private owned lands within the compartment. Although Private lands in the south end of section 13 may possibly be of State interest if they should come up for sale. These lands would make land management easier with better access and allowing more contiguous land area for Public enjoyment and use. This would help connect State ownership to Traverse Road (a county maintained road).

The following reports from the Inventory are attached:

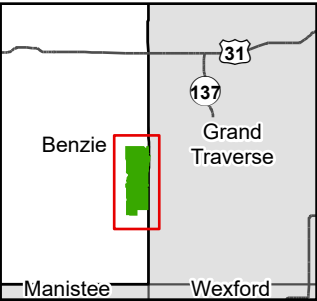
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

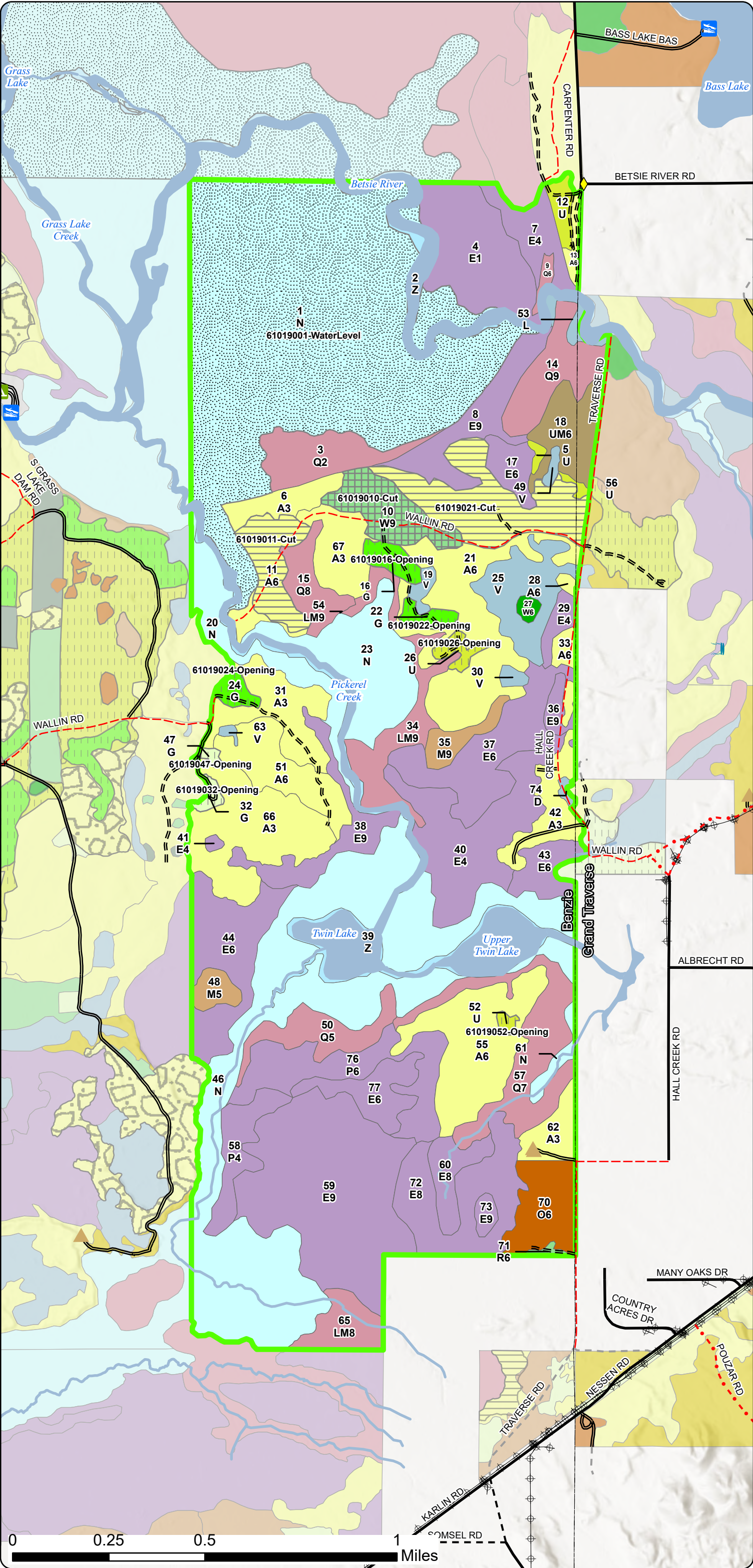
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Field Map

Compartment: 61019
T25N R13W 01, 12, 13
County: Benzie
Unit: Traverse City
Mgmt. Area: Grand Traverse Moraine
YOE: 2028
Acres: 1,863.31 GIS Calculated
Examiner: Craig Allen
Date Exported: 06/25/2026
Map Phase: Web Post

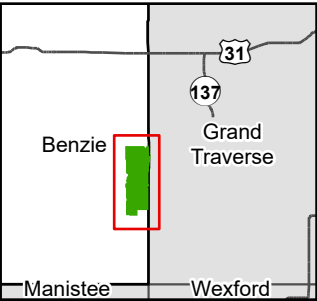


- Survey Grade Corners
- Culvert
- Boating Access Site
- State Forest Campground
- Berm
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Clearcut
- Seed Tree
- Openings Mgmt.
- Water Level Mgmt.
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

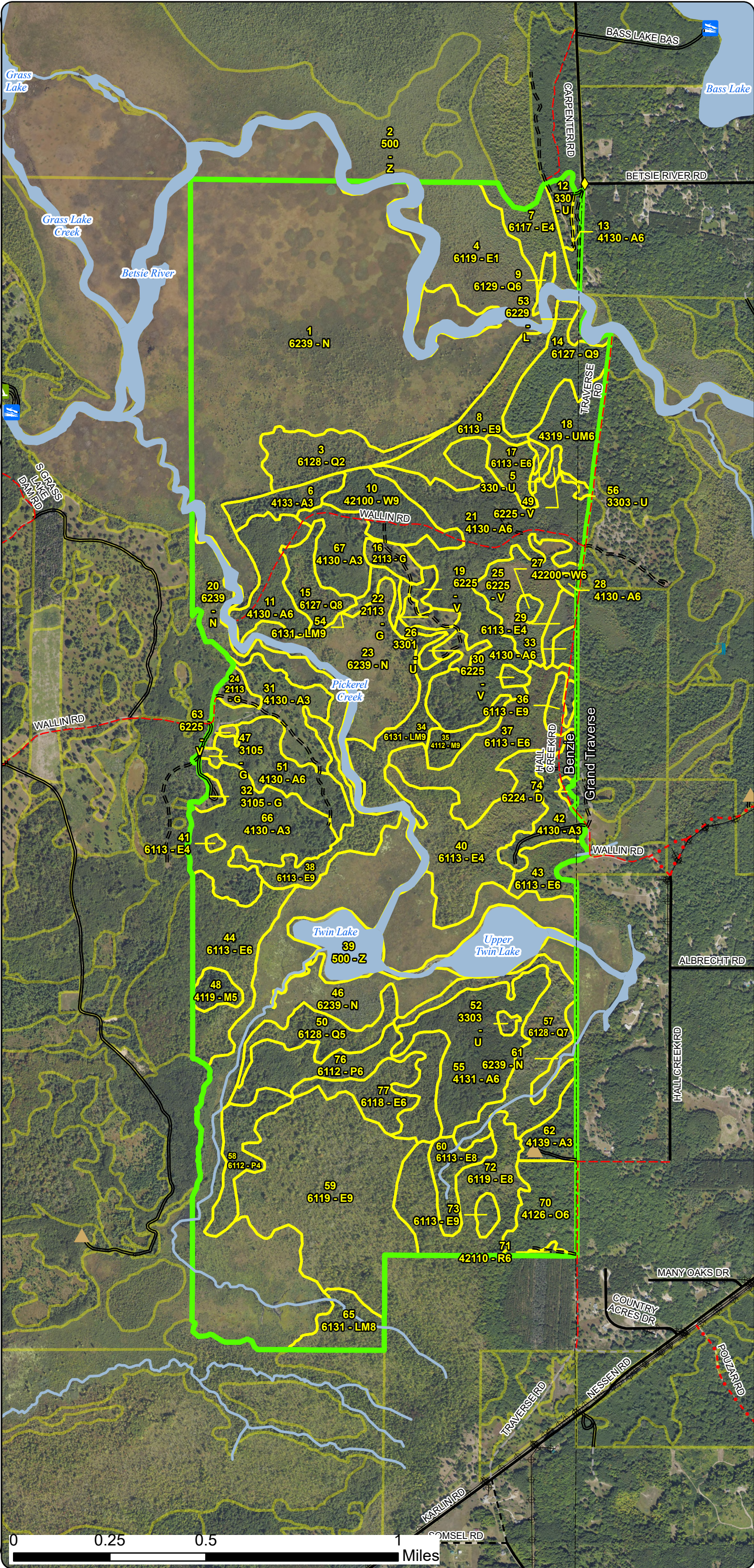


Stand Boundary
Map

Compartment: 61019
T25N R13W 01, 12, 13
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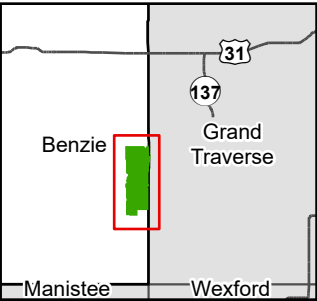


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- Culvert
- Boating Access Site
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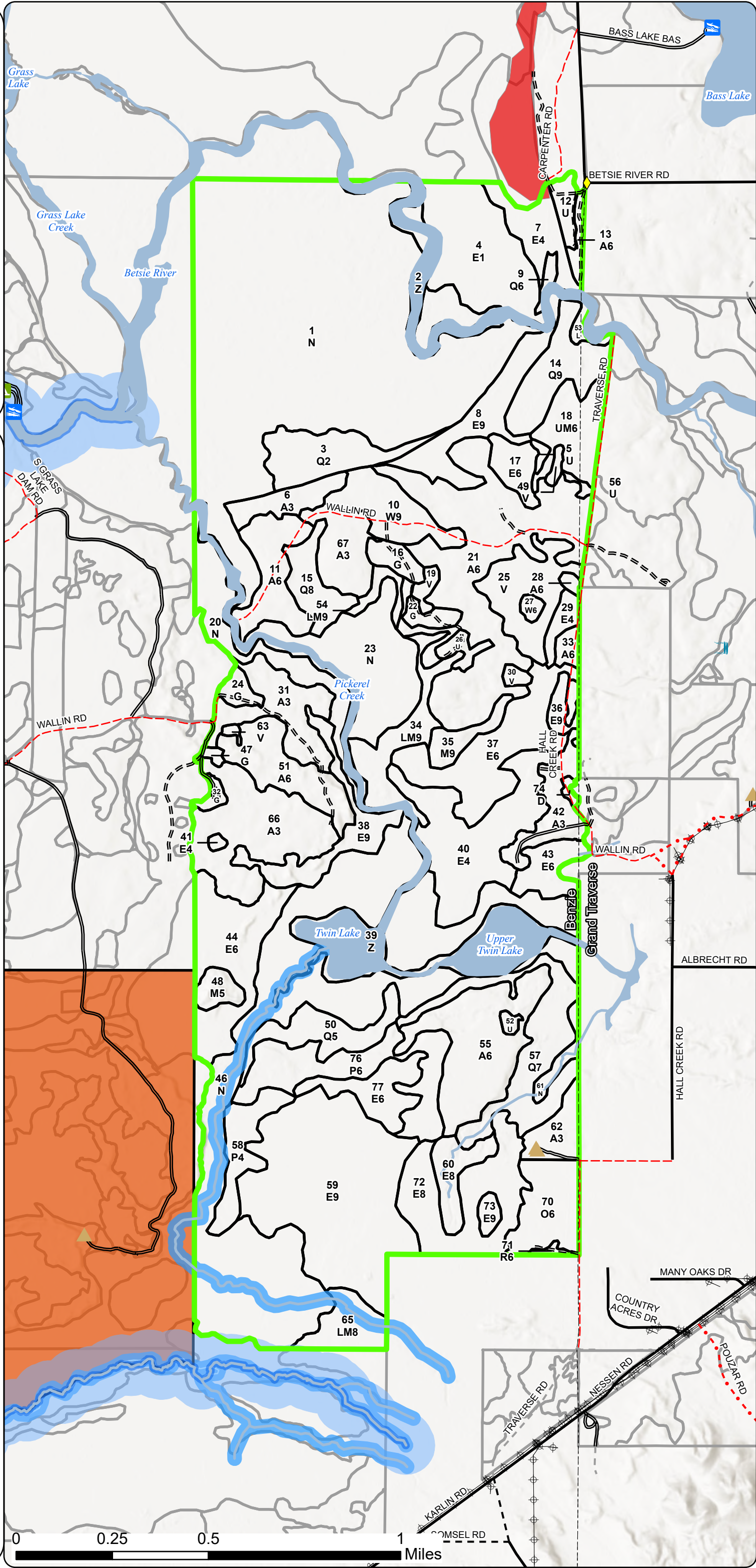


Special Conservation Areas
& Site Conditions Map

Compartment: 61019
T25N R13W 01, 12, 13
County: Benzie
Unit: Traverse City
Mgmt. Area: Grand Traverse Moraine
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- Survey Grade Corners
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- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Streams
- Lakes and Rivers
- Electric
- Compartment Boundary
- Stand Boundaries
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



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	46	92	0	0	0	182	28	0	0	0	0	0	0	0	0	0	0	348
Bog	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Cropland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	39	0	18	0	0	0	0	0	0	0	0	0	57
Lowland Conifers	0	0	0	0	0	0	0	0	24	0	15	28	61	0	0	0	0	0	128
Lowland Deciduous	0	0	0	0	0	52	147	1	6	0	211	48	0	0	0	0	0	0	464
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	27	15	0	0	0	0	0	0	42
Lowland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Marsh	586	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	586
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	14
Oak	0	0	0	0	0	0	0	0	0	0	0	24	0	0	0	0	0	0	24
Red Pine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	22
Water	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
White Pine	0	0	0	0	0	0	23	0	0	0	0	2	0	0	0	0	0	0	25
Total	739	46	92	0	0	52	414	29	48	0	268	117	61	0	0	0	0	0	1863



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 19
Total Compartment Acres: 1,863

Commercial Harvest - 176
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	Oversky Removal	Salvage	Other	Total Acres
Aspen	66	0	0	0	0	0	0	0	0	66
White Pine	0	0	0	23	0	0	0	0	0	23
Total	66	0	0	23	0	0	0	0	0	88

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	88	0	0	0	0	0	0	0	0	424
Next Step	0	0	0	0	0	0	88	0	0	88
Total	88	0	0	0	0	0	88	0	0	513



Standard

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

1	61019001-WaterLevel	315.1	6239 - Mixed Emergent Wetland	99			Water Level Mgmt.	Water Level Mgmt.	500 - Water	Previous Inventory	No
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Prescription .Specs:Next StepTreatments:Acceptable .Regen:OtherComment:Site Condition:Proposed Start Date: 10/01/2027

10	61019010-Cut	22.6	42100 - Planted White Pine	9	56	141-170	Harvest	Seed Tree	4191 - Mixed Upland Deciduous with Conifer	Planting Record	No
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Prescription Seed tree harvest with goal to convert the stand into a natural mixed species stand. Green mark leave trees of good form and health white pine approximately 10-20 BA residual. Residual seed trees will remain long term in the stand as seed producers.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable aspen, maple, white pine, cherryRegen:Other Follow area Retention policy guidelines. Use drumming log spec for grouse.Comment:Site Condition:Proposed Start Date: 10/01/2027

11	61019011-Cut	20.3	4130 - Aspen	6	60	Unspecified	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Clearcut all hardwoods to expand and regenerate aspen. Leave hemlock, cedar, oak. Mark to leave any Legacy tree white pine for seed producer.Specs:Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Aspen, maple, cherry, white pine, birchRegen:Other long term retention is in site conditioned southwest lobe of the stand. Add drumming log spec for grouse.Comment:Site Condition:Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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16	61019016-Opening	6.4	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription This opening is a traditional wildlife opening. May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around pe

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

21	61019021-Cut	45.4	4130 - Aspen	6	50	Unspecified	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
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Prescription Final harvest to regenerate aspen and mixed hardwoods. Keep all oak (or least majority of them)for mast and diversity. Also mark to keep any unique red maple or large white pine. Keep all cedar and hemlock. Protect any vernal pond or wet area from logg

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

Acceptable Aspen, maple, cherry, white pine, oak, birch
Regen:

Other Apply area retention guidelines per policy.Add drumming spec to sale
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

22	61019022-Opening	4.6	2113 - Forage Crops	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription This opening is a traditional wildlife opening. May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around pe

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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24	61019024-Opening	4.6	2113 - Forage Crops	99		Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription This opening is a traditional wildlife opening. May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around pe

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

26	61019026-Opening	4.3	3301 - Low Density Deciduous Trees	99		Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around perimeter and/or in small islands. Maintain as nee

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

32	61019032-Opening	2.6	3105 - Mixed Upland Herbaceous	99		Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Consider planting native shrubs around perimeter and/or in small islands. Maintain as nee

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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47	61019047-Opening	1.5	3105 - Mixed Upland Herbaceous	99			Openings Mgmt. Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix
Specs: (i.e. alfalfa/clover). Consider planting native shrubs around perimeter and/or in small islands. Maintain as nee

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

52	61019052-Opening	1.5	3303 - Mixed Low Density Trees	99			Openings Mgmt. Openings Mgmt.	3205 - Mixed Upland Shrub	Previous Inventory	No
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Prescription This opening has closed in some and should be maintained at it's former acreage. Selectively hand fell woody encroachment to maintain
Specs: upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/01/2027

Total Treatment 428.9
Acreage Proposed:



Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5C	2G	2H	3D	5E
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301	267	18	16	Aspen	18			4	12
34	34	0	0	Bog					
16	16	0	0	Cropland					
4	4	0	0	Herbaceous Openland					
14	14	0	0	Low-Density Trees					
57	0	0	57	Lowland Aspen/Balsam Poplar		57			
126	0	0	127	Lowland Conifers		127			
463	0	0	463	Lowland Deciduous		462			1
43	0	0	43	Lowland Mixed Forest		43			
4	5	0	0	Lowland Shrub					
586	586	0	0	Marsh					
15	8	0	7	Northern Hardwood			7		
24	24	0	0	Oak					
1	1	0	0	Red Pine					
1	1	0	0	Treed Bog					
22	22	0	0	Upland Mixed Forest					
79	79	0	0	Water					
25	23	0	2	White Pine			2		
1,816	1,084	18	714	Total Forested Acres	18	688	9	4	13
	60%	1%	39%	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		2G: Too wet (sensitive soils, does not include access issues)	377	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



2	Unavailable	3D: Recreational/scenic values	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	159	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: This is LT retention for small bog area (stand 63) and for the aspen stand 51.							
5	Unavailable	3G: Other influence zones - See comments	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: possible vernal pond							
9	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	2	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



11	Unavailable	5E: Long-Term Retention	7	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: This is long-term retention area connected to all 3 stands adjacent (stands 31, 51, 66)							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	86	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	4	3G: Other influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is a small upland island that is totally surrounded by lowland/wetlands. Would not be accessible to heavy equipment.							

Report 4 – Site Conditions



28	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: very small island stand that is surrounded by a large bog wetland							
32	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: delay this area to harvest at least 10 years to continue staggering age classes of aspen in the area. The adjacent stand to the south was cut in 2010, area to north in 2020.							

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



MICHIGAN

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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
8	6113 - Lowland Maple	Sawtimber Well	27.2	102	Unspecified	N/A																																																									
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9	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	2.4	108	81-110	N/A	Slightly more upland than adjacent stand, but still fragile soil and lowland. open, park-like understory.																																																								
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10	42100 - Planted White Pine	Sawtimber Well	22.6	56	141-170	N/A																																																									
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11	4130 - Aspen	Poletimber Well	24.4	60	Unspecified	N/A	Also contains hemlock and cedar along some stand edges.																																																								
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12	330 - Low-Density Trees	None	5.8			No	Potential for recreation use (camping, hunting, fishing) since this is near an unofficial access site for the Betsie River.																																																								
13	4130 - Aspen	Poletimber Well	3.9	60	Unspecified	N/A	Quite a bit of oak saps (1 to 5 feet tall)Also, has some hemlock in the stand especially in south end near river.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
14	6127 - Lowland Pine	Sawtimber Well	25.1	100	81-110	N/A	Good health and vitality, good multi-layer canopies. Lots of old fire-scar pine stumps. Lots of blue berry. Moist--some water. Good quality WP. Some hemlock seedlings = 1'-2' tall.. Lots of moss & ferns.																																																						
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16	2113 - Forage Crops	None	6.4			Yes	Wildlife Div has cultivated and maintained this opening in the past.																																																						
17	6113 - Lowland Maple	Poletimber Well	9.8	50	Unspecified	N/A	Fern, moss, grass, cattailsWet, standing water in most places.																																																						
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18	4319 - Mixed Upland Forest	Poletimber Well	21.7	50	81-110	N/A	Vernal pond in center area of stand.																																																						
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19	6225 - Bog	None	3.0			No																																																							
20	6239 - Mixed Emergent Wetland	None	27.2			No	Floodplain along Pickerel Creek																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
21	4130 - Aspen	Poletimber Well	102.4	50	Unspecified	N/A	Hummocky ground--comes and goes in spots of wet areas. Some vernal ponds in south east area of stand. Contains some scattered white and red oak of various sizes.blueberry in areas.																																											
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22	2113 - Forage Crops	None	4.6			Yes	Maintained opening by Wildlife Div.																																											
23	6239 - Mixed Emergent Wetland	None	46.1			No	Floodplain along Pickerel Creek																																											
24	2113 - Forage Crops	None	4.6			Yes	Maintained opening by Wildlife Div.																																											
25	6225 - Bog	None	26.6			No																																												
26	3301 - Low Density Deciduous Trees	None	4.3			No																																												
27	42200 - Natural White Pine	Poletimber Well	2.1	100	51-80	N/A	This is an Island surrounded by bog																																											
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Spruce</td><td>20</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Tamarack</td><td>20</td><td>Pole</td><td>8</td><td></td></tr><tr><td>White Pine</td><td>60</td><td>Log/Pole</td><td>10</td><td>100</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		White Spruce	20	Log/Pole	10		Tamarack	20	Pole	8		White Pine	60	Log/Pole	10	100	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tamarack</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Pine</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	Medium	>20 feet	>20 feet	White Pine	High	Variable	Variable														
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28	4130 - Aspen	Poletimber Well	1.4	50	Unspecified	N/A																																												
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29	6113 - Lowland Maple	Poletimber Poor	5.5	70	Unspecified	N/A																																												
<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>100</td><td>Pole/Sapling</td><td>5</td><td>70</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	100	Pole/Sapling	5	70	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Alder</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Alder	High	Variable	Variable																													
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30	6225 - Bog	None	2.0			No																																												



Stand

Level 4 Cover Type

Size Density

Acres

Stand Age

BA Range

Managed Site

General Comments

31

4130 - Aspen

Sapling Well

26.9

6

Immature

N/A

sale 61-028-18
harvested in may of 2020
Contains scattered leave trees red & white oak, beech.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	1	
Quaking Aspen	45	Sapling	1	6
Bigtooth Aspen	45	Sapling	1	6
Black Cherry	5	Sapling	1	

32

3105 - Mixed Upland Herbaceous

None

2.6

No

This opening was used as a timber sale landing to harvest adjacent stand (66) in 2010. This site may be re-used in future for landing for other adjoining stand harvests.

33

4130 - Aspen

Poletimber Well

3.6

50

Unspecified

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	8	
Quaking Aspen	30	Pole	8	50
Bigtooth Aspen	60	Pole	8	50
Black Cherry	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Variable
Red Maple	Low	5 - 10 feet	5 - 10 feet

34

6131 - Hemlock, White Pine, Maple, Birch

Sawtimber Well

22.7

95

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole	15	95
Paper Birch	10	Pole	9	
Bigtooth Aspen	5	Log/Pole	10	
Balsam Fir	10	Pole	8	
White Pine	30	Log/Pole	10	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	>20 feet	>20 feet
Hemlock	Medium	>20 feet	>20 feet
Northern White Cedar	Medium	>20 feet	>20 feet
Balsam Fir	High	5 - 10 feet	5 - 10 feet

35

4112 - Maple, Beech, Cherry Association

Sawtimber Well

8.4

95

81-110

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	90	Log/Pole	14	95
Paper Birch	5	Log/Pole	14	
Hemlock	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	>20 feet
Red Maple	Medium	>20 feet	>20 feet
White Pine	Medium	Variable	Variable
Northern White Cedar	Low	>20 feet	>20 feet

36

6113 - Lowland Maple

Sawtimber Well

4.8

100

51-80

N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	85	Log/Pole	15	100
Hemlock	15	Log/Pole	11	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	>20 feet
Hemlock	Low	>20 feet	>20 feet
Red Maple	Medium	>20 feet	>20 feet

MICHIGAN



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
44	6113 - Lowland Maple	Poletimber Well	39.5	95	Unspecified	N/A	Standing water throughout stand. Lots of ground vegetation. Lots of swamp cabbage.																																														
<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>80</td><td>Log/Pole</td><td>10</td><td>95</td></tr><tr><td>Paper Birch</td><td>10</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Northern White Cedar</td><td>10</td><td>Log/Pole</td><td>10</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	80	Log/Pole	10	95	Paper Birch	10	Log/Pole	10		Northern White Cedar	10	Log/Pole	10		<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>>20 feet</td><td>>20 feet</td></tr><tr><td>Northern White Cedar</td><td>Medium</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	>20 feet	>20 feet	Northern White Cedar	Medium	>20 feet	>20 feet	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet													
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Balsam Fir	Medium	10 - 20 feet	10 - 20 feet																																																		
46	6239 - Mixed Emergent Wetland	None	192.8			No	Contains Pickerel Creek and its Headwaters. Also, mixed swamp/marsh surrounding Twin LakesFrom previous inventory: has some Dogwood and marsh grass - some scattered cedar and lowland hardwood areas.																																														
47	3105 - Mixed Upland Herbaceous	None	1.5			No	This opening has been a landing site used for stand 31 and will be used again for stand 51. May also be used for adjacent stand 42 in compartment 20 as well.																																														
48	4119 - Mixed Northern Hardwoods	Poletimber Medium	6.5	95	81-110	N/A	Also has a few W. oak trees.																																														
<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>75</td><td>Log/Pole</td><td>14</td><td>95</td></tr><tr><td>Quaking Aspen</td><td>10</td><td>Pole</td><td>9</td><td></td></tr><tr><td>Balsam Fir</td><td>15</td><td>Pole</td><td>8</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	75	Log/Pole	14	95	Quaking Aspen	10	Pole	9		Balsam Fir	15	Pole	8		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	High	Variable	Variable	Balsam Fir	High	Variable	Variable																		
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49	6225 - Bog	None	1.7			No																																															
50	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	19.5	117	111-140	N/A																																															
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51	4130 - Aspen	Poletimber Well	26.4	54	81-110	N/A	Also contains red & white oak, beech.																																														
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52	3303 - Mixed Low Density Trees	None	1.5			No																																															
53	6229 - Mixed Lowland Shrub	None	4.5			No																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
54	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Well	4.6	95	81-110	N/A																																																								
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55	4131 - Aspen, Oak	Poletimber Well	48.4	50	Unspecified	N/A	Also contains some scattered fir, cedar, hemlock and occasional large legacy white pine. Heavy bracken fern.																																																							
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56	3303 - Mixed Low Density Trees	None	1.2			No	This was an old timber landing area. Will likely be used again for a landing in the future.																																																							
57	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Poor	40.6	110	Unspecified	N/A	Small creek feeding into marsh from the southwest lobe of the stand and from adjoining stand 60. Various wetland plants, many ferns & grasses.																																																							
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Black Ash	Low	Variable	Variable																																																											
58	6112 - Lowland Aspen	Poletimber Poor	17.8	75	1-50	N/A	Skunk cabbage, wetland ferns, dogwood, and other wetland plants. Alder so thick...is very difficult to walk through stand.																																																							
		<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>15</td><td>Pole</td><td>8</td><td></td></tr><tr><td>Paper Birch</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>60</td><td>Log/Pole</td><td>12</td><td>75</td></tr><tr><td>Black Cherry</td><td>10</td><td>Pole</td><td>8</td><td></td></tr></table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	8		Paper Birch	15	Log/Pole	10		Quaking Aspen	60	Log/Pole	12	75	Black Cherry	10	Pole	8				<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Alder</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Alder	Full	10 - 20 feet	10 - 20 feet																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
59	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	108.0	95	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood		45	Log/Pole	10	95	Basswood	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		30	Log/Pole	10		Northern White Cedar	Low	>20 feet	>20 feet
Red Maple		25	Pole/Log	9		Paper Birch	Low	>20 feet	>20 feet
						Black Ash	High	5 - 10 feet	5 - 10 feet

60	6113 - Lowland Maple	Sawtimber Medium	12.9	100	81-110	N/A	Natural spring/ drainage going through stand.Majority of stand is wet. Some ridges dry that have large RM, hemlock, ash, sm, intermingled with lowland drainages and wetland marshes.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		15	Log/Pole	12		Red Maple	Medium	>20 feet	>20 feet
Red Maple		55	Log/Pole	16	100	Sugar Maple	Medium	>20 feet	>20 feet
Basswood		5	Log/Pole	16		Beech	Low	>20 feet	>20 feet
Paper Birch		5	Pole	6					
Hemlock		15	Log/Pole	14					
White Pine		5	Log/Pole	16					

61	6239 - Mixed Emergent Wetland	None	4.9			No	Wetland with drainage going into twin lakes. AlsoVarious wetland plants, many ferns & grasses.
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62	4139 - Aspen, Mixed Deciduous	Sapling Well	11.8	15	Unspecified	N/A	Site was harvested in fall of 2010 to regen aspen, cherry, red maple. left all existing oak, conifers and other marked leave trees as retention and for species diversity.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Maple		15	Sapling	2	15			
Bigtooth Aspen		55	Sapling	2	15			
Black Cherry		5	Sapling	2	15			
Red Oak		5	Log/Pole	14				
White Oak		10	Log/Pole	10				
White Pine		10	Log/Pole	16				

63	6225 - Bog	None	0.9			No	Wet
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65	6131 - Hemlock, White Pine, Maple, Birch	Sawtimber Medium	15.4	100	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Log/Pole/XLog	14	100	Black Ash	Medium	Variable	Variable
Paper Birch		5	Log/Pole	10					
Northern White Cedar		15	Pole	8					
Hemlock		10	Log/Pole	10					
White Pine		20	Log/Pole/XLog	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
66	4130 - Aspen	Sapling Well	48.9	16	Unspecified	N/A	Contains scattered red & white oak, beech. Harvested in fall of 2010																																						
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Black Cherry	10	Sapling/Pole	3	16																																									
67	4130 - Aspen	Sapling Well	19.3	15	Immature	N/A	Harvested in fall of 2010 for aspen and mixed deciduous regen.																																						
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Black Cherry	10	Sapling	3	15																																									
70	4126 - White, Black, N. Pin Oak	Poletimber Well	24.0	100	51-80	N/A	Also a few hemlock trees and cedar.																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>20</td><td>Log/Pole</td><td>14</td><td></td></tr><tr><td>White Oak</td><td>60</td><td>Pole/Log</td><td>9</td><td>100</td></tr><tr><td>Red Maple</td><td>15</td><td>Log/Pole</td><td>14</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>5</td><td>Pole</td><td>9</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Oak</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>White Pine</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	20	Log/Pole	14		White Oak	60	Pole/Log	9	100	Red Maple	15	Log/Pole	14		Bigtooth Aspen	5	Pole	9		Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Medium	Variable	Variable	White Pine	Low	Variable	Variable	
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71	42110 - Planted Red Pine	Poletimber Well	1.3	50	111-140	N/A	small edge of a pine plantation that is mostly on adjacent private land																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>90</td><td>Log/Pole</td><td>10</td><td>50</td></tr><tr><td>Scotch Pine</td><td>10</td><td>Pole</td><td>9</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Log/Pole	10	50	Scotch Pine	10	Pole	9		Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	Low	< 5 feet	< 5 feet															
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Red Oak	Low	< 5 feet	< 5 feet																																										
72	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	41.5	95	1-50	N/A	moist, muck soil. Lots of skunk cabbage & ferns. some blow- downs. a few elm treesQuite open (park-like).																																						
<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>35</td><td>Log/XLog/Pole</td><td>17</td><td>95</td></tr><tr><td>Yellow Birch</td><td>15</td><td>Log/Pole</td><td>10</td><td></td></tr><tr><td>Hemlock</td><td>5</td><td>Pole</td><td>9</td><td></td></tr><tr><td>Basswood</td><td>40</td><td>Log/XLog/Pole</td><td>14</td><td>95</td></tr><tr><td>Sugar Maple</td><td>5</td><td>Log/Pole</td><td>10</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Ash</td><td>High</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	35	Log/XLog/Pole	17	95	Yellow Birch	15	Log/Pole	10		Hemlock	5	Pole	9		Basswood	40	Log/XLog/Pole	14	95	Sugar Maple	5	Log/Pole	10		Sub-Canopy Species	Density	Avg. Height	Size	Black Ash	High	Variable	Variable
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73	6113 - Lowland Maple	Sawtimber Well	3.3	100	81-110	N/A																																							
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Black Ash	High	Variable	Variable																																										
Sugar Maple	Low	Variable	Variable																																										
Hemlock	Low	Variable	Variable																																										
74	6224 - Treed Bog	None	1.3			No																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	6112 - Lowland Aspen	Poletimber Well	38.8	50	Unspecified	N/A	Also contains some scattered fir and cedar. Lots of skunk cabbage. Various wet areas and drainages.
Canopy Species					Sub-Canopy Species		
% Cover	Size Class	DBH	Age		Density	Avg. Height	Size
Red Maple	10	Log/Pole	10		Black Ash	Medium	Variable
Quaking Aspen	50	Pole/Log	9	50			
Bigtooth Aspen	10	Pole	8				
Basswood	20	Pole	8				
Black Ash	5	Pole	5				
Slippery Elm	5	Pole	7				
77	6118 - Lowland Deciduous with Cedar	Poletimber Well	17.7	50	Unspecified	N/A	
Canopy Species					Sub-Canopy Species		
% Cover	Size Class	DBH	Age		Density	Avg. Height	Size
Quaking Aspen	40	Pole/Log	9	50	Black Ash	Low	Variable
Northern White Cedar	30	Log/Pole	14				
Basswood	10	Log/Pole	10				
Slippery Elm	5	Log/Pole	12				
Red Maple	10	Log/Pole	14				
Black Ash	5	Pole	5				