



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61031

Entry Year 2023

Acreage: 3,100

County Benzie

Management Area: Manistee Plains

Revision Date: 2021-05-18

Stand Examiner: Craig Allen

Legal Description:

T25N-R13W; Sections 20, 21, 28, 29, 31, 32, 33.
Colfax Township of Benzie County, Michigan

Identified Planning Goals:

Vegetation management in the Manistee Plains management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character including the Betsie River (a designated natural river), Bear Creek and the Grass Lake Flooding State Wildlife Management Area; 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 and 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.

Soil and topography:

Most of this compartment lies within a lake plain that is entirely level. Soils within this lake plain consist of deep mucks with some loamy sands intermixed. There is a high water table throughout a majority of the area. Low creek banks and seasonal flooding create wide variability in water levels. There is year-round drainage flows in some areas with wide sheet flow which create flooded timber conditions. The Little Betsie River also flows through two areas of the compartment as do several feeder creeks. Exception to the lake plain is found along the north edge of the compartment which is within an outwash plain with excessively drained deep sands.

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

This is a solid block of State ownership with no private in-holdings. There are a lot of private lands bordering the edges of the compartment. The village of Thompsonville lies very close, just to the southwest, and Nessen City is just outside the compartment to the southeast.

Unique Natural Features:

The Little Betsie River flows through the compartment and is a tributary of the Betsie River, which is a designated Michigan Natural River. Any proposed management treatments near this river system will follow the Natural River Plan.

Archeological, Historical, and Cultural Features:

There are a few known old homestead sites within or near the compartment. Any management activities will avoid disturbing these locations.

Special Management Designations or Considerations:

There is a "GEMs" DNR Wildlife management area within this compartment. Also, the Little Betsie River is managed as a Michigan Natural River due to it being a tributary to the Betsie River.

Watershed and Fisheries Considerations:

The Little Betsie River flows through Compartment 31. The Little Betsie River is a high-quality trout stream tributary to the Betsie River, and supports self-sustaining populations of brook trout, brown trout, steelhead, coho salmon, and Chinook salmon. Due to its cold, groundwater-fed nature, the Little Betsie River helps in maintaining the cold water thermal regime of the Betsie River. Beaver activity within the Little Betsie and its tributaries will negatively affect the trout populations they support by fragmenting habitat and degrading water quality (warmer water temperatures). Therefore, Fisheries Division recommends large enough vegetative buffers for any aspen clearcuts to discourage beaver activity along the Little Betsie River.

Wildlife Habitat Considerations:

State lands in this compartment fall mainly within a flat, very poorly drained lake plain landscape. Mucky soils predominate and harbor large areas of aspen, mixed lowland hardwoods, and lowland brush. This area has a history of aspen cutting, which should continue, resulting in a mosaic of cover types and age classes. Small, better-drained areas have pine

plantations and some natural white pine. Wetter, or inundated areas, should be allowed to succeed to later successional stages, eventually including lowland conifers or upland white pine patches. Small patch cuts emulating natural blowdown pockets would be appropriate in these stands. Mature cover is most important in the riparian area along the Little Betsie River. Red-shouldered hawks are likely inhabitants of this area, and should be accommodated in timber harvest specifications if found. Other species using these habitats include deer, otter, blue racer, woodcock, ruffed grouse, barred owl, golden-winged warbler, and black bear.

Portions of this compartment also fall into flat outwash plain and sandy, flat lake plain. Pine plantations, shrubby openings, and aspen occupy these areas. The northern part of the compartment on outwash plain also has a history of aspen cutting toward increased age class diversity to benefit grouse, woodcock, golden-winged warbler, deer, and other species. Such early successional management should be continued in this area, incorporating snags, leave trees, brush piles, and downed logs to replicate a wildfire-altered forest. Future management of the several pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys.

Opening maintenance will continue in the compartment to benefit openland species such as cedar waxwing, wild turkey, mourning dove, meadow vole, or red fox.

Much of compartment 31 is part of the Little Betsie River Grouse Enhanced Management System, or GEMS. GEMS are managed primarily for aspen, with a short rotation age. Selected two-track logging roads may be planted to herbaceous ground cover and maintained for wildlife foraging areas, as well as to provide easy hunting access for youth hunters, first time hunters and seniors. These trails will provide walking trails through well-managed grouse habitat without concern for passing vehicles. Gates and berms will be used to protect road seedings and provide walk-in access.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is approximately one mile south. There appears to be some sand potential in the compartment, but much of the compartment is covered by wetlands, which limits development potential. There has been some Antrim Shale gas and Guelph reef oil & gas production within the compartment, and all State-owned mineral rights in the compartment are currently leased and held by production. There may be potential for additional wells (both Guelph and Antrim) in the compartment. However, at current gas prices, additional Antrim development in this area is unlikely in the near future. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights. (comments from Peter Rose).

Vehicle Access:

There are several gravel seasonal county roads in and around the compartment offering good access to State lands. Lindy road is a paved road running through the south end of the area. There are also many state forest "2-track" roads in various areas of the compartment that are in mostly good condition and are used for public and DNR land management accessibility.

Survey Needs:

There are survey needs in section 31 along private land edges of stands 49 and 134.

Recreational Facilities and Opportunities:

The Betsie River snowmobile trail travels along the north edge of the compartment then south through the middle of the compartment on to Long road then west on Bentley, turning south on Thurman traveling down to the county line. Various types of dispersed forest recreation occur in the compartment. Examples include hunting, fishing, trapping, cross-country skiing, hiking, orv riding, mushroom/berry picking, biking, horseback riding, and dispersed camping.

Fire Protection:

Wildfire protection is accomplished through coordination of local fire departments along with DNR fire staff. The majority of this compartment and surrounding areas are forested in mesic hardwood deciduous types so the opportunity for large scale wildfires are minimal.

Additional Compartment Information:

The following reports from the Inventory are attached:

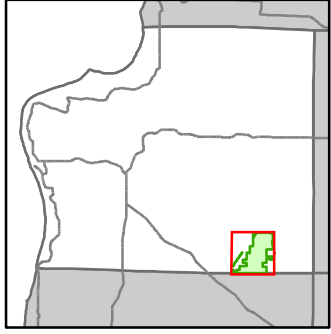
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

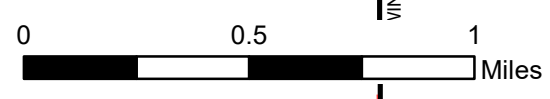
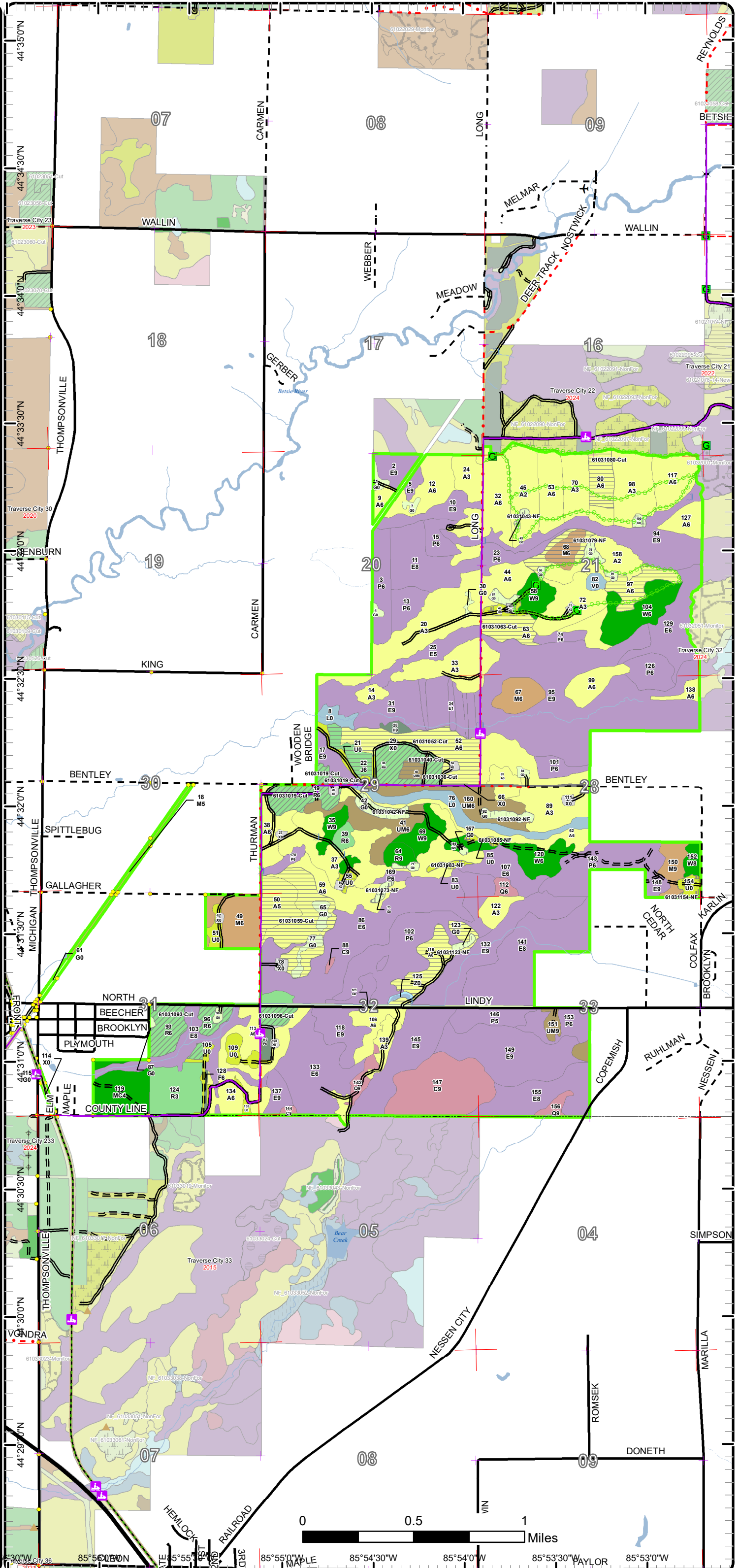
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review



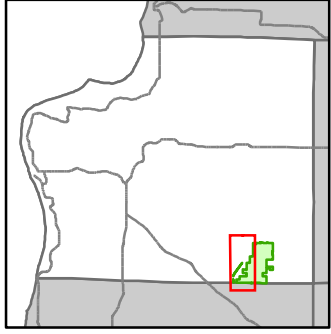
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Hunter Walking Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Gate
- Culvert
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



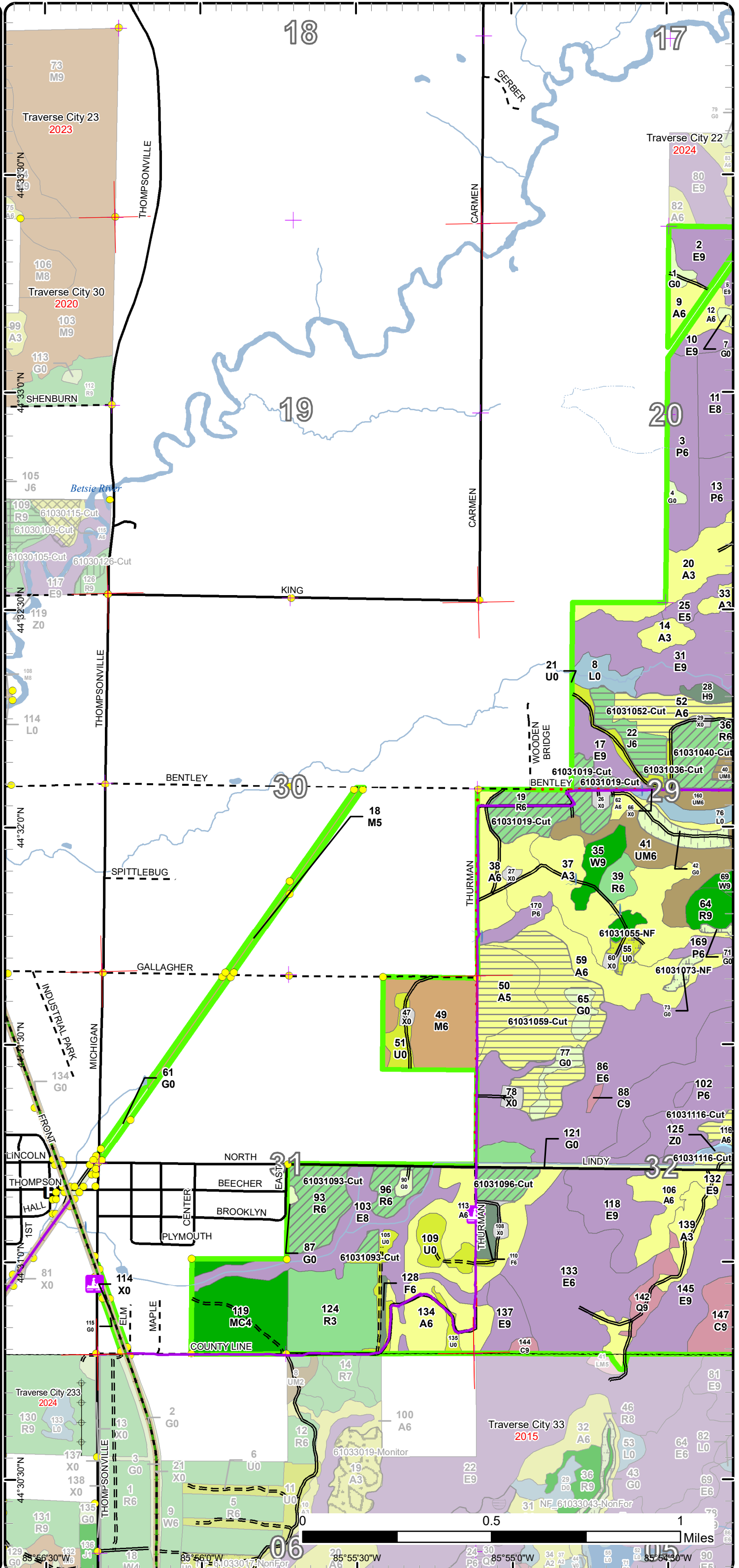
85°56'00"W 85°55'00"W 85°54'30"W 85°54'00"W 85°53'30"W 85°53'00"W

Cover Type & Treatments Map

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review

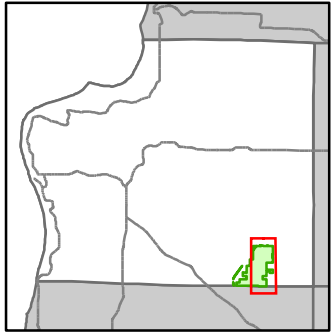


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- ⚡ Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- P Parking Lot
- ⚡ Powerline
- ▭ Compartment Boundary
- ▭ Other Treatment - See Comments
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

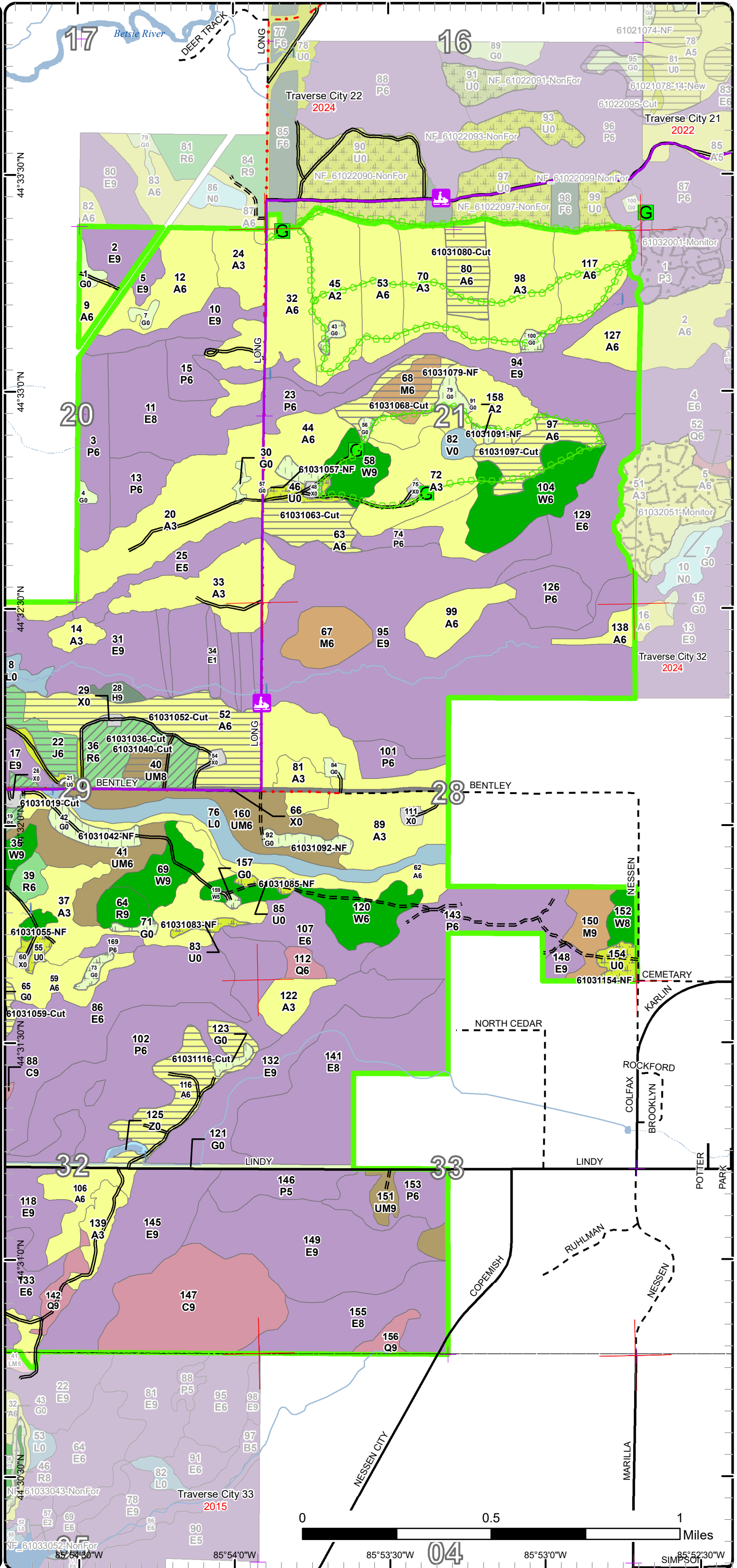


Cover Type & Treatments Map

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review

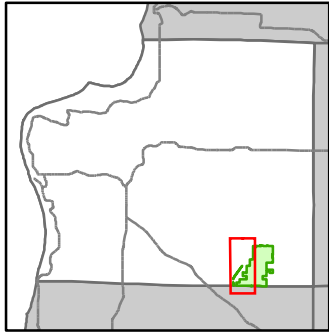


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- 🚙 Snowmobile Trails
- 👤 Designated Hunter Walking Trails
- 👤 Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- Culvert
- Compartment Boundary
- Other Treatment - See Comments
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

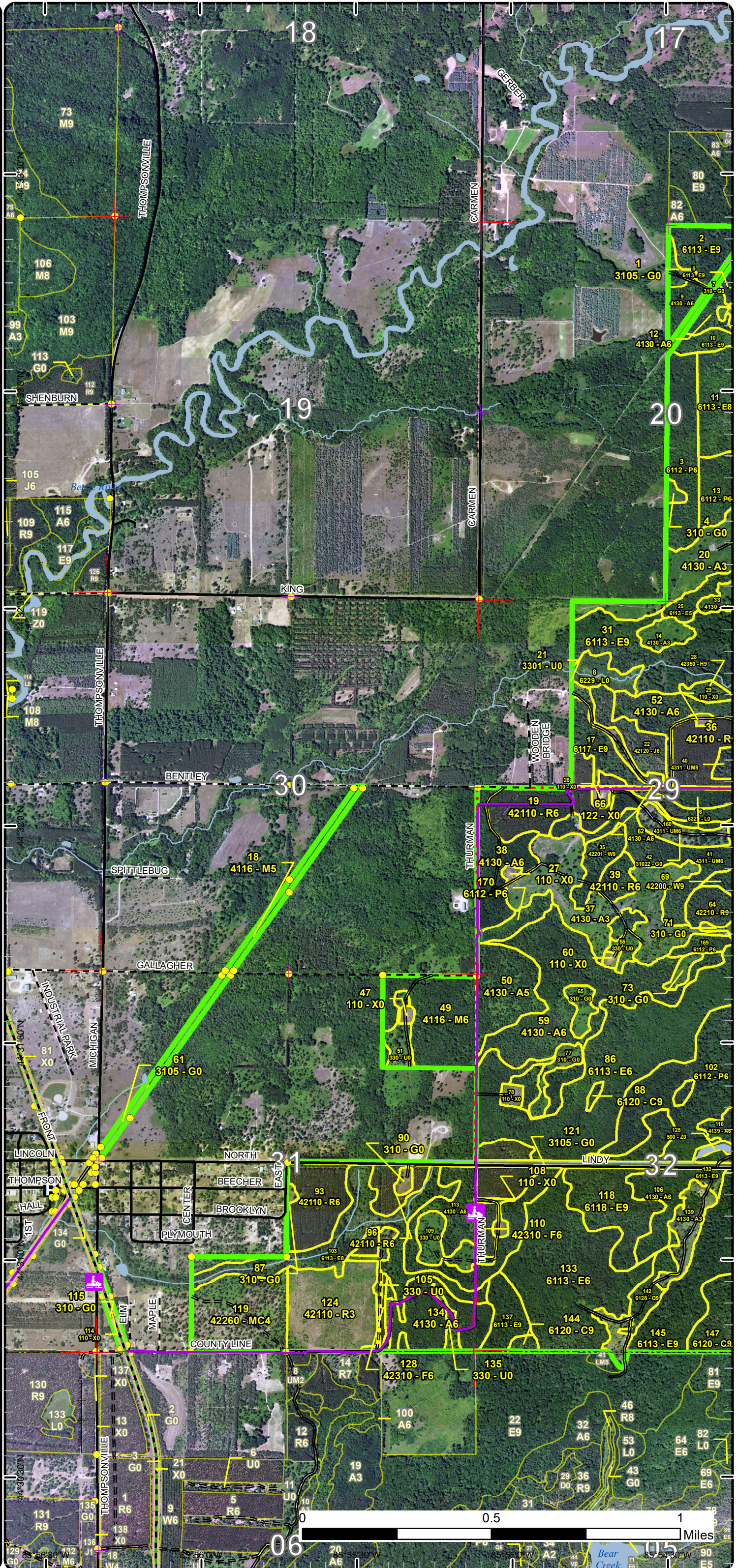


Stand Boundary Map

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review

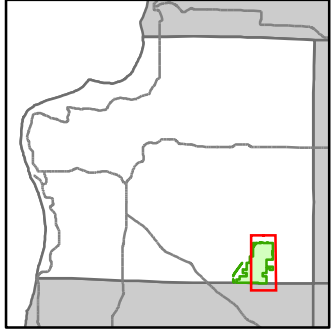


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated RailTrail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- P Parking Lot
- + Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

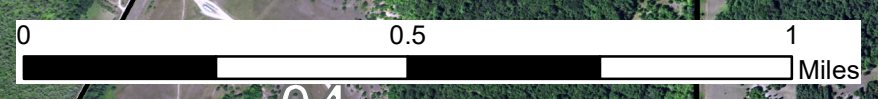
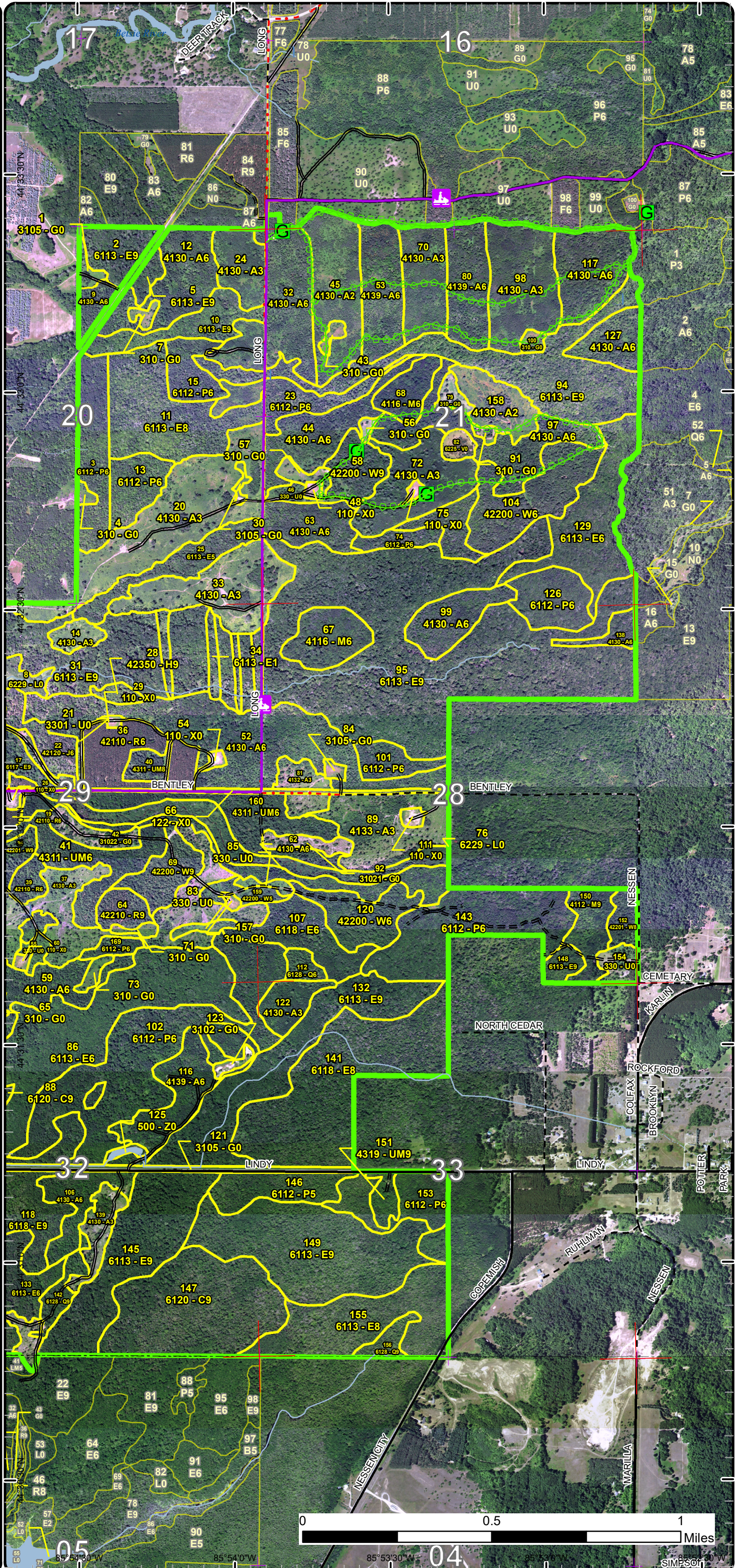


Stand Boundary Map

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review



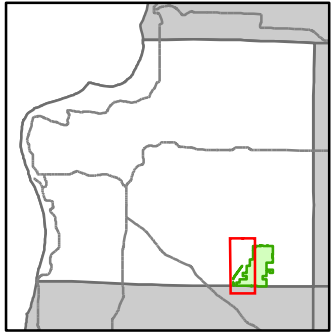
- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Culvert
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub



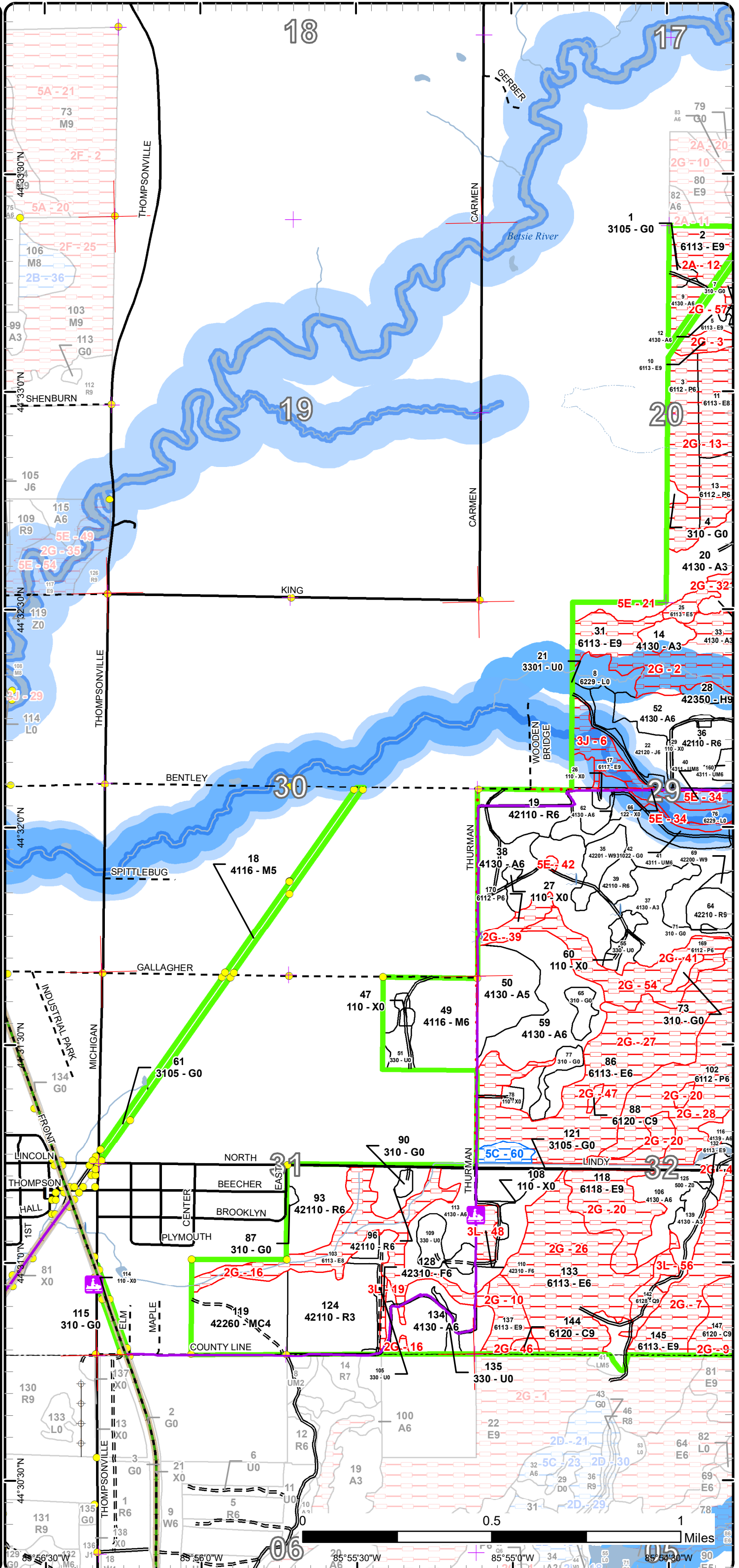
Map coordinates: 85° 54' 30" W, 85° 53' 30" W, 85° 52' 30" W

Special Conservation Areas

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review

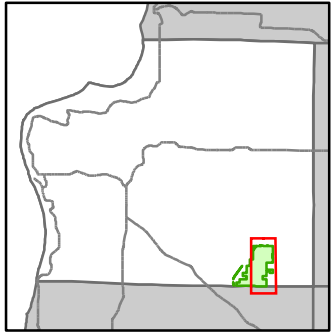


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Culvert
- P Parking Lot
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

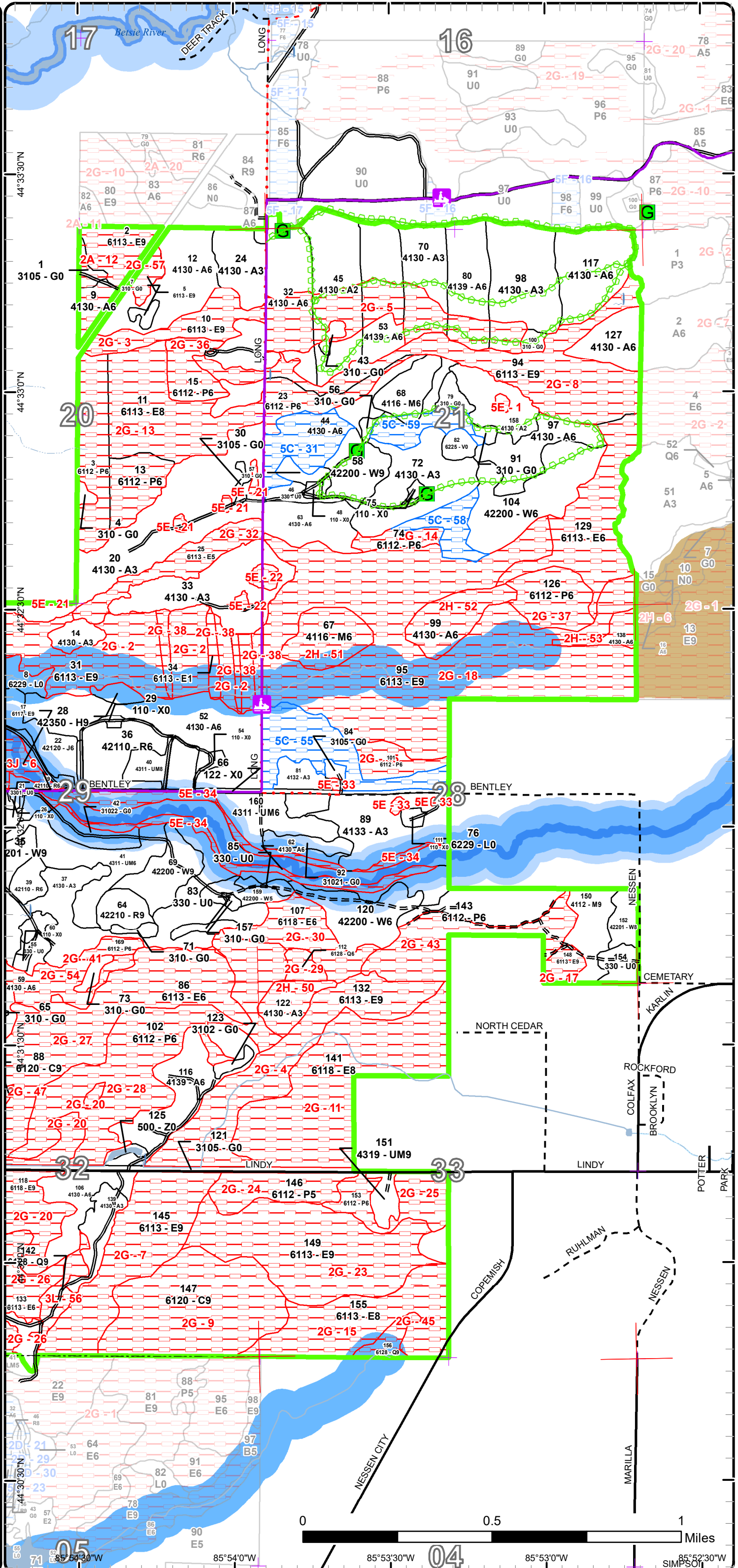


Special Conservation Areas

Compartment: 31
 T25N, R13W, Sec. 20, 21, 28-33
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Manistee Plains
 YOE: 2023
 Acres: 3100 GIS Calculated
 Examiner: Craig Allen
 Map Revised: 9/15/2021
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Snowmobile Trails
- Designated Hunter Walking Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Culvert
- Compartment Boundary
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Forest Habitat Core Interior
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	249	61	101	113	246	210	0	0	0	0	0	0	0	0	0	0	0	978
Bog	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Cedar	0	0	0	0	0	0	0	0	0	0	68	0	3	0	0	0	0	0	71
Hemlock	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Herbaceous Openland	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Jack Pine	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Low-Density Trees	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Lowland Aspen/Balsam Poplar	0	0	0	0	55	179	46	0	0	0	0	0	0	0	0	0	0	0	279
Lowland Conifers	0	0	0	0	0	0	0	5	0	0	14	0	0	0	0	0	0	0	18
Lowland Deciduous	0	0	0	0	32	236	0	0	0	0	333	466	33	0	0	0	0	0	1100
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Natural Mixed Pines	0	0	0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	0	0	43	29	0	0	0	15	0	0	0	0	0	0	0	85
Red Pine	0	34	0	0	6	0	0	92	8	0	0	0	0	0	0	0	0	0	140
Upland Mixed Forest	0	0	0	0	28	0	30	0	0	6	9	0	0	0	0	0	0	0	73
Upland Spruce/Fir	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	6
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	6	0	0	0	69	0	26	7	0	0	0	0	0	0	0	108
Total	189	283	61	142	234	704	315	185	8	32	449	466	36	0	0	0	0	0	3096



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 31
Total Compartment Acres: 3,100

Commercial Harvest - 330
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	216	0	0	0	0	0	0	0	0	216
Northern Hardwood	20	0	0	0	0	0	0	0	0	20
Red Pine	0	0	0	0	0	87	0	0	0	87
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	6
Total	242	0	0	0	0	87	0	0	0	330

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	330	0	0	0	0	0	0	52	0	381
Next Step	0	0	0	0	0	0	242	0	0	242
Total	330	0	0	0	0	0	242	52	0	624



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
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

Approved Treatments:

19	61031019-Cut	25.4	42110 - Planted Red Pine	Poletimber Well	65	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	-----------------------------	--------------------	----	-------------	---------	----------------	----------------------------	-----------	----

Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible. Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

36	61031036-Cut	24.5	42110 - Planted Red Pine	Poletimber Well	65	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	-----------------------------	--------------------	----	-------------	---------	----------------	----------------------------	-----------	----

Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible

Next Step
Treatments:

Acceptable
Regen:

Other Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

40	61031040-Cut	6.1	4311 - Pine, Aspen Mix	Sawtimber Medium	80	1-50	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
-----------	---------------------	-----	---------------------------	---------------------	----	------	---------	----------------------------	-----------------------------	-----------	----

Prescription Harvest all hardwood species to regenerate and expand aspen. Also select mark white pine to harvest to help open up stand for aspen regeneration as needed, remaining pine will stay for retention and diversity. Leave any oak that may be present. No additional retention due to small size of stand.

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

Acceptable aspen, maple, cherry, pine
Regen:

Other Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.
Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
42 61031042-NF	8.6	31022 - Warm Season Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription Specs:</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
43 61031043-NF	1.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription Specs:</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
46 61031046-NF	4.4	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription Specs:</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52 61031052-Cut	58.9	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to expand and regenerate aspen. Retain any oak, if present. Harvest all jack pine but keep all other conifers species.</p> <p><u>Specs:</u> Harvest area only west of long road. Retention via marking scattered large /unique maple, cherry as needed. Also, mark possible retention islands. Add drumming log spec for grouse and debris pile spec for small mammals.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u> Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
55 61031055-NF	2.9	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
56 61031056-NF	1.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	31021 - Cool Season Grass		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Protect with wire cages or tubex. Considering adding native herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> This might be a good opening to try the RGS clover mix.</p> <p><u>Comment:</u> FRD will need to use at least part of this stand for a timber landing.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57 61031057-NF	3.2	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
59 61031059-Cut	73.2	4130 - Aspen	Poletimber Well	41	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwood species for regeneration and expansion of aspen. Retain any conifers. Retain any oak, if present. Mark to retain any unique/ large maple or cherry as needed. Possibly have retention island around any lowland features as needed. Add drumming spec for grouse and add debris pile spec for small mammal use.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, cherry, any conifer species.</p> <p><u>Other Comment:</u> Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
63 61031063-Cut	17.3	4130 - Aspen	Poletimber Well	56	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regenerate and expand aspen component. Leave all conifers. Possibly, mark a few retention islands as well as mark to leave any unique large red maple or cherry for retention as needed. Add drumming log spec. for grouse. and possible add spec for slash piles for small mammals. Landing would be in adjacent natural opening stand 46.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, maple, cherry</p> <p><u>Other Comment:</u> Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
68 61031068-Cut	20.0	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	57	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regenerate and expand aspen component. Leave all conifers and any oak that may exist in stand. Mark a few retention islands as well as mark to leave any unique large red maple or cherry for retention. Add drumming log spec. for grouse. and possible add spec for slash piles for small mammals. Will need to have landing in adjacent opening stand 56.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Aspen, red maple, cherry,</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
71 61031071-NF	1.9	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
73 61031073-NF	2.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
79 61031079-NF	3.6	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
80 61031080-Cut	17.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	37	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regenerate and expand aspen component. Leave all conifers. Leave any oak if present. Mark to leave any unique large red maple or cherry for retention as needed. Most retention is within the stand portion that cannot be harvested due to lowland conditions to the south. Add drumming log spec. for grouse. and possible add spec for slash piles for small mammals.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry</p> <p><u>Regen:</u></p> <p><u>Other</u> Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
83 61031083-NF	3.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										



S
t
a
n
d

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

85	61031085-NF	2.3	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub	No
-----------	--------------------	-----	-------------------------	------------	--	-------------	--------------	---------------------------	-----------------------------	----

Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

91	61031091-NF	1.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
-----------	--------------------	-----	---------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2022

92	61031092-NF	5.6	31021 - Cool Season Grass	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
-----------	--------------------	-----	---------------------------	------------	--	-------------	--------------	---------------------------------	--------------------------------	----

Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. The access road needs improvement.

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
93 61031093-Cut	22.0	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
96 61031096-Cut	15.3	42110 - Planted Red Pine	Poletimber Well	65	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, defect trees then mark others allowing for approximately 1/3 of volume removal with even spacing throughout plantation as much as possible</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Use appropriate methods to protect Snowmobile Trail and its surface during project implementation.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
97 61031097-Cut	18.7	4130 - Aspen	Poletimber Well	57	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all hardwoods to regenerate and expand aspen component. Harvest white pine but mark to leave a few large/unique pine. Leave any cedar, if present. Possibly, mark a few retention islands as well as mark to leave any unique large red maple or cherry for retention as needed. Add drumming log spec. for grouse. and possible add spec for slash piles for small mammals. Landing would be in adjacent opening stand 91</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, maple, cherry, white pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										
100 61031100-NF	2.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										



S
t
a
n
d

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

116	61031116-Cut	30.4	4139 - Aspen, Mixed Deciduous	Poletimber Well	54	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----	--------------	------	-------------------------------	-----------------	----	--------------	---------	-------------------------	-------------	-----------	----

Prescription Harvest all hardwood species. Leave any oak that may be present. Leave all conifer species. Mark for retention any large/unique hardwood
Specs: as needed. Leave retention areas on south end around water features. Also may need retention islands in a few low spots if too wet for logging equipment. Add drumming spec for grouse.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, conifer species

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

123	61031123-NF	2.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
-----	-------------	-----	--------------	------------	--	--------------	--------------	---------------------------------	--------------------------------	--	----

Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for
Specs: wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment: This opening is a traditional wildlife planting. Plant to annual rye for several years and then convert to a pasture mix (i.e. clover/alfalfa) if soil will support it. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment. VERY SANDY SOIL.

Site Condition

Proposed Start Date: 10/1 /2022

154	61031154-NF	6.0	330 - Low-Density Trees	Nonstocked		Unspec ified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
-----	-------------	-----	-------------------------	------------	--	--------------	--------------	---------------------------	-----------------------------	--	----

Prescription Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for
Specs: wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022



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
157 61031157-NF	1.0	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Brush hog (or hand fell) around select leave trees and/or patches . Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex. Considering establishing herbaceous/forbs ground cover for wildlife food source.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

Total Treatment Acreage Proposed: 383.2

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 31
 Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		5C	2A	2G	2H	3J	3L	5E
944	745	69	131	Aspen	69	6	65	34		0	25
4	4	0	0	Bog							
70	0	0	70	Cedar			70				
3	3	0	0	Hemlock							
77	74	0	3	Herbaceous Openland		3	0				
12	12	0	0	Jack Pine							
48	48	0	0	Low-Density Trees							
279	18	0	261	Lowland Aspen/Balsam Poplar			261				
18	0	0	18	Lowland Conifers			10			8	
1100	5	0	1095	Lowland Deciduous		14	1,070		12		
35	35	0	0	Lowland Shrub							0
35	35	0	0	Natural Mixed Pines							
86	68	1	18	Northern Hardwood	1			18			
139	135	5	0	Red Pine	5						
73	61	0	12	Upland Mixed Forest							12
6	0	0	6	Upland Spruce/Fir						6	
23	23	0	0	Urban							0
2	2	0	0	Water							
108	108	0	0	White Pine							
3,064	1,375	74	1,615	Total Forested Acres	74	22	1,477	52	12	14	37
	45%	2%	53%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	71	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Little Betsie River flows thru							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	57	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Little Betsie River flows thru							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	119	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2A: Adjacent landowner denied access	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	88	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	202	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3L: Other wildlife concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	73	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
 Craig Allen : Examiner

Compartment: 31
 Year of Entry: 2023

26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	65	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	108	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay harvest in order to stagger age classes of aspen with adjacent stands.							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: these are two retention island that were left for sale #61-096-13-01. which was harvested in Nov.2015							
34	Unavailable	5E: Long-Term Retention	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: drainage area...usually has standing water and seasonal flow							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
43	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	3L: Other wildlife concerns	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave for wildlife thermal and hiding cover.							
50	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

52	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
53	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
55	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments: delay harvest of this area in order to stagger age classes of aspen with adjacent stands. Stands to south were harvested in 2015.							
56	Unavailable	3L: Other wildlife concerns	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment: 31

Year of Entry: 2023

58	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: harvest this area when adjacent stand 104 is harvested.							
59	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
60	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion has less volume than other portions of this plantation at this time so this portion is not in need of thinning at this time.							

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



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
1	3105 - Mixed Upland Herbaceous	Nonstocked	2.9		Unspecified	No																																	
2	6113 - Lowland Maple	Sawtimber Well	13.6	104	Unspecified	N/A																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>100</td> <td>Log/Pole</td> <td>18</td> <td>104</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	100	Log/Pole	18	104	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	100	Log/Pole	18	104																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Medium	Variable	Sapling																																				
3	6112 - Lowland Aspen	Poletimber Well	25.9	37	Unspecified	N/A																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>6</td> <td>37</td> </tr> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Pole</td> <td>6</td> <td>37</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Pole</td> <td>6</td> <td>37</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole	6	37	Quaking Aspen	65	Pole	6	37	Black Cherry	15	Pole	6	37	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Black Cherry	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	20	Pole	6	37																																			
Quaking Aspen	65	Pole	6	37																																			
Black Cherry	15	Pole	6	37																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Medium	Variable	Sapling																																				
Black Cherry	Low	Variable	Sapling																																				
4	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No																																	
5	6113 - Lowland Maple	Sawtimber Well	4.4	95	Unspecified	N/A																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>80</td> <td>Log/Pole</td> <td>14</td> <td>95</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	80	Log/Pole	14	95	Quaking Aspen	20	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Pole	Red Maple	Medium	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	80	Log/Pole	14	95																																			
Quaking Aspen	20	Log/Pole	11																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Low	Variable	Pole																																				
Red Maple	Medium	Variable	Sapling																																				
7	310 - Herbaceous Openland	Nonstocked	2.0		Unspecified	No																																	
8	6229 - Mixed lowland shrub	Nonstocked	7.7		Unspecified	No	flood plain of little betsie river....lots of clumps of alder and grasses.																																
9	4130 - Aspen	Poletimber Well	6.0	37	Unspecified	N/A																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>20</td> <td>Pole</td> <td>4</td> <td>37</td> </tr> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Pole</td> <td>4</td> <td>37</td> </tr> <tr> <td>Black Cherry</td> <td>15</td> <td>Pole</td> <td>4</td> <td>37</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	20	Pole	4	37	Quaking Aspen	65	Pole	4	37	Black Cherry	15	Pole	4	37	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Black Cherry	Low	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	20	Pole	4	37																																			
Quaking Aspen	65	Pole	4	37																																			
Black Cherry	15	Pole	4	37																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Medium	Variable	Sapling																																				
Black Cherry	Low	Variable	Sapling																																				
10	6113 - Lowland Maple	Sawtimber Well	18.4	95	51-80	N/A																																	
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>100</td> <td>Log/Pole</td> <td>12</td> <td>95</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	100	Log/Pole	12	95	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	American Elm	Low	Variable	Sapling	Red Maple	Medium	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	100	Log/Pole	12	95																																			
Sub-Canopy Species	Density	Avg. Height	Size																																				
American Elm	Low	Variable	Sapling																																				
Red Maple	Medium	Variable	Sapling																																				
11	6113 - Lowland Maple	Sawtimber Medium	46.6	95	Unspecified	N/A	standing water in most locations year round.																																
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>70</td> <td>Log/Pole</td> <td>14</td> <td>95</td> </tr> <tr> <td>Quaking Aspen</td> <td>30</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	70	Log/Pole	14	95	Quaking Aspen	30	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Red Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Pole	Red Maple	High	Variable	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																			
Red Maple	70	Log/Pole	14	95																																			
Quaking Aspen	30	Log/Pole	10																																				
Sub-Canopy Species	Density	Avg. Height	Size																																				
Red Maple	Medium	Variable	Pole																																				
Red Maple	High	Variable	Sapling																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4130 - Aspen	Poletimber Well	27.7	37	Unspecified	N/A	Has some lowland spots.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole	8	37	Red Maple	
Quaking Aspen		75	Pole	7	37	Quaking Aspen	
Black Cherry		5	Pole	8	37	Density	
						Avg. Height	
						Size	
13	6112 - Lowland Aspen	Poletimber Well	15.0	57	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole/Log	9	60	Red Maple	
Quaking Aspen		80	Pole/Log	9	57	Density	
						Avg. Height	
						Size	
14	4130 - Aspen	Sapling Well	5.6	7	Immature	N/A	small island stand...was cut in summer of 2014.
Canopy Species		% Cover	Size Class	DBH	Age		
Bigtooth Aspen		100	Sapling	1	7		
15	6112 - Lowland Aspen	Poletimber Well	12.6	37	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	5	37	Black Cherry	
Quaking Aspen		90	Pole	5	37	Density	
						Avg. Height	
						Size	
17	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	11.6	95	Unspecified	N/A	little betsie river flood plain
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		15	Log/Pole	11	95	American Elm	
Quaking Aspen		5	Log/Pole	12		Red Maple	
White Pine		35	Log/Pole/XLog	15	95	Tag Alder	
Black Cherry		45	Log/Pole	11	95	Density	
						Avg. Height	
						Size	
18	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	10.5	40	51-80	N/A	portion of old railroad grade going from Bentley road towards Thompsonville road.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		60	Pole	8	40	Red Maple	
Quaking Aspen		40	Pole	8	40	Alder	
						Aspen (spp.)	
						Density	
						Avg. Height	
						Size	
19	42110 - Planted Red Pine	Poletimber Well	25.4	65	171-200	N/A	Thinned twice: 1993 3rd row, 2004 every 3rd tree.
Canopy Species		% Cover	Size Class	DBH	Age		
Red Pine		100	Pole/Log	9	65		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
20	4130 - Aspen	Sapling Well	64.3	7	Immature	N/A	Regen harvest done in July of 2014. Retention islands and individual trees within cut area.																																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>60</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	1		Quaking Aspen	60	Sapling	1	7	Bigtooth Aspen	10	Sapling	1	7	Black Cherry	20	Sapling	1	7																													
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	10	Sapling	1																																																										
Quaking Aspen	60	Sapling	1	7																																																									
Bigtooth Aspen	10	Sapling	1	7																																																									
Black Cherry	20	Sapling	1	7																																																									
21	3301 - Low Density Deciduous Trees	Nonstocked	6.4		Unspecified	No	slender travel area with two track																																																						
22	42120 - Planted Jack Pine	Poletimber Well	11.9	65	51-80	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>100</td> <td>Pole</td> <td>7</td> <td>65</td> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	100	Pole	7	65	Black Cherry	Low	Variable	Sapling																																				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Jack Pine	100	Pole	7	65	Black Cherry	Low	Variable	Sapling																																																					
23	6112 - Lowland Aspen	Poletimber Well	13.2	57	Unspecified	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>65</td> <td>Pole/Log</td> <td>9</td> <td>57</td> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole/Log</td> <td>9</td> <td>57</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/XLog/Pole</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	10	Log/Pole	10		Red Maple	Medium	Variable	Sapling	Quaking Aspen	65	Pole/Log	9	57	Black Cherry	Low	Variable	Sapling	Bigtooth Aspen	10	Pole/Log	9	57					White Pine	5	Log/XLog/Pole	15						Black Cherry	10	Log/Pole	10					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Red Maple	10	Log/Pole	10		Red Maple	Medium	Variable	Sapling																																																					
Quaking Aspen	65	Pole/Log	9	57	Black Cherry	Low	Variable	Sapling																																																					
Bigtooth Aspen	10	Pole/Log	9	57																																																									
White Pine	5	Log/XLog/Pole	15																																																										
Black Cherry	10	Log/Pole	10																																																										
24	4130 - Aspen	Sapling Well	29.2	18	Unspecified	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td>18</td> </tr> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling/Pole</td> <td>3</td> <td>18</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Sapling/Pole</td> <td>3</td> <td>18</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling/Pole</td> <td>3</td> <td>18</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling/Pole	3	18	Quaking Aspen	40	Sapling/Pole	3	18	Bigtooth Aspen	40	Sapling/Pole	3	18	Black Cherry	10	Sapling/Pole	3	18																													
Canopy Species	% Cover	Size Class	DBH	Age																																																									
Red Maple	10	Sapling/Pole	3	18																																																									
Quaking Aspen	40	Sapling/Pole	3	18																																																									
Bigtooth Aspen	40	Sapling/Pole	3	18																																																									
Black Cherry	10	Sapling/Pole	3	18																																																									
25	6113 - Lowland Maple	Poletimber Medium	19.1	37	Unspecified	N/A																																																							
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>90</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>5</td> <td></td> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Tag Alder</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	90	Pole/Sapling	5	37	American Elm	Low	Variable	Sapling	Quaking Aspen	10	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling						Tag Alder	Medium	Variable	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																																					
Red Maple	90	Pole/Sapling	5	37	American Elm	Low	Variable	Sapling																																																					
Quaking Aspen	10	Pole/Sapling	5		Red Maple	Medium	Variable	Sapling																																																					
					Tag Alder	Medium	Variable	Tall Shrub																																																					
26	110 - Low Intensity Urban	Nonstocked	1.4		Unspecified		active oil/gas well site																																																						
27	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
28	42350 - Upland Hemlock	Sawtimber Well	3.3	96	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Log/Pole	12		Red Maple	Low	Variable	Pole
Hemlock		70	Log/Pole	11	96	Hemlock	Low	Variable	Pole
29	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified		active oil/gas well site.		
30	3105 - Mixed Upland Herbaceous	Nonstocked	1.4		Unspecified	No			
31	6113 - Lowland Maple	Sawtimber Well	71.0	105	Unspecified	N/A	Little Betsie River flows thru		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		100	Log/Pole	18	105	American Elm	Low	Variable	Sapling
						Red Maple	Low	Variable	Sapling
						Blue Ash	Low	Variable	Sapling
32	4130 - Aspen	Poletimber Well	31.2	37	Unspecified	N/A	has some drainages		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	7	37	Black Cherry	Medium	Variable	Sapling
Quaking Aspen		80	Pole	7	37				
Black Cherry		15	Pole	7	37				
33	4130 - Aspen	Sapling Well	37.1	7	Immature	N/A	regen cut in summer of 2014. retention islands and individual trees left within		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		10	Sapling	1					
Quaking Aspen		44	Sapling	1	7				
Bigtooth Aspen		43	Sapling	1	7				
Black Cherry		3	Sapling	1					
34	6113 - Lowland Maple	Sapling Poor	12.6	32	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
American Elm		20	Sapling	3					
Red Maple		80	Sapling	3	32				
35	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	11.6	85	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Pole	7	41	White Pine	Medium	Variable	Sapling
White Pine		70	Log/Pole	16	85	Black Cherry	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
36	42110 - Planted Red Pine	Poletimber Well	24.5	65	171-200	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		100	Log/Pole	11	65				
37	4130 - Aspen	Sapling Well	68.3	6	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Sapling	1	6	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Sapling	1	6				
Bigtooth Aspen		25	Sapling	1	6				
Black Cherry		10	Sapling	1	6				
38	4130 - Aspen	Poletimber Well	19.3	41	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Pole	8	41				
Bigtooth Aspen		25	Pole	8	41				
Black Cherry		10	Pole	8	41				
39	42110 - Planted Red Pine	Poletimber Well	5.6	39	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		5	Pole	6		White Pine	Low	< 5 feet	Sapling
Red Pine		90	Pole	6	39	Black Cherry	Low	< 5 feet	Sapling
Black Cherry		5	Pole	6		Bigtooth Aspen	Low	Variable	Sapling
40	4311 - Pine, Aspen Mix	Sawtimber Medium	6.1	80	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		50	Log/Pole	12	80	Black Cherry	Medium	< 5 feet	Sapling
Bigtooth Aspen		30	Pole	8					
Black Cherry		20	Log/Pole	12					
41	4311 - Pine, Aspen Mix	Poletimber Well	27.5	39	51-80	N/A	Was underplanted with red pine in 1982, but some areas did not take well		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Pole	7	41	White Pine	Low	Variable	Sapling
Bigtooth Aspen		20	Pole	7	41	Black Cherry	Low	Variable	Sapling
White Pine		10	Pole	6	41	Bigtooth Aspen	Low	Variable	Sapling
Red Pine		40	Pole	6	39				
42	31022 - Warm Season Grass	Nonstocked	8.6		Unspecified	Managed Opening			
43	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4130 - Aspen	Poletimber Well	24.9	57	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Log/Pole	10		Red Maple	
Quaking Aspen		65	Pole/Log	9	57	Medium	
Bigtooth Aspen		10	Pole/Log	9	57	Variable	
White Pine		5	Log/XLog/Pole	15		Low	
Black Cherry		10	Log/Pole	10		Variable	
						Sapling	
						Sapling	
45	4130 - Aspen	Sapling Medium	33.4	26	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		65	Sapling/Pole	4	26	Black Cherry	
Black Cherry		35	Sapling/Pole	4	26	Medium	
						< 5 feet	
						Sapling	
46	330 - Low-Density Trees	Nonstocked	4.4		Unspecified	No	
47	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified	No	Active oil/gas well site.
48	110 - Low Intensity Urban	Nonstocked	1.2		Unspecified	No	Active oil/gas well site.
49	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	32.0	43	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		60	Pole	8	43	Red Maple	
Quaking Aspen		15	Pole	8	43	High	
Bigtooth Aspen		10	Pole	8	43	Variable	
Black Cherry		15	Pole	8	43	Sapling	
50	4130 - Aspen	Poletimber Medium	22.0	41	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		45	Pole	7	41	Quaking Aspen	
Bigtooth Aspen		20	Pole/Log	9	41	Medium	
Black Cherry		35	Pole	7	41	Variable	
						Sapling	
51	330 - Low-Density Trees	Nonstocked	5.8		Unspecified	No	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
52	4130 - Aspen	Poletimber Well	77.1	55	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		15	Pole/Log	9	55	Red Maple	Low	Variable	Sapling
Quaking Aspen		65	Pole	7	55	White Pine	Low	Variable	Sapling
Bigtooth Aspen		5	Pole/Log	8		Black Cherry	Medium	Variable	Sapling
Black Cherry		15	Pole/Log	9	55				
53	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.5	37	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	7	37	Black Cherry	Medium	< 5 feet	Sapling
Quaking Aspen		30	Pole	6	37				
Bigtooth Aspen		15	Pole	7	37				
Black Cherry		25	Pole	7	37				
54	110 - Low Intensity Urban	Nonstocked	1.3		Unspecified		active oil/gas well site.		
55	330 - Low-Density Trees	Nonstocked	2.9		Unspecified	No			
56	310 - Herbaceous Openland	Nonstocked	1.2		Unspecified	Managed Opening			
57	310 - Herbaceous Openland	Nonstocked	3.2		Unspecified	Managed Opening			
58	42200 - Natural White Pine	Sawtimber Well	14.1	86	81-110	N/A	highly variable , lots of weevil damage . offers thermal coverage for deer and aesthetic for highly used campsite.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	12		Red Maple	High	Variable	Sapling
Quaking Aspen		5	Pole	8		White Pine	Low	Variable	Sapling
White Pine		75	Log/Pole	16	86				
Black Cherry		10	Log/Pole	12					
59	4130 - Aspen	Poletimber Well	65.3	41	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Pole	8	41				
Bigtooth Aspen		25	Pole	8	41				
Black Cherry		10	Pole	8	41				
60	110 - Low Intensity Urban	Nonstocked	1.2		Unspecified		active oil/gas well site.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	3105 - Mixed Upland Herbaceous	Nonstocked	2.4		Unspecified	No	old abandoned railroad grade leading into Thompsonville.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
62	4130 - Aspen	Poletimber Well	24.1	41	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Pole	8	41				
Bigtooth Aspen		25	Pole	8	41				
Black Cherry		10	Pole	8	41				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
63	4130 - Aspen	Poletimber Well	27.9	56	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole/Log	9		Red Maple	Full	Variable	Sapling
Quaking Aspen		60	Pole/Log	9	56				
Black Cherry		10	Log/Pole	11					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
64	42210 - Natural Red Pine	Sawtimber Well	8.0	75	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine		20	Log/Pole	13		White Pine	Low	< 5 feet	Sapling
Red Pine		80	Log/Pole	13	75	Red Pine	Medium	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	310 - Herbaceous Openland	Nonstocked	4.6		Unspecified	No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	122 - Road/Parking Lot	Nonstocked	7.0		Unspecified	No	Bentley road

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
67	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	17.8	58	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Pole/Log	9	58	Red Maple	High	Variable	Sapling
Quaking Aspen		15	Pole/Log	9	58				
Bigtooth Aspen		20	Pole/Log	9	58				
Black Cherry		25	Log/Pole	10	58				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
68	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	11.3	57	111-140	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		40	Log/Pole	10	57	Red Maple	High	Variable	Sapling
Quaking Aspen		15	Pole/Log	8	57	Black Cherry	Low	Variable	Sapling
Bigtooth Aspen		15	Pole/Log	9	57				
Black Cherry		30	Log/Pole	10	57				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
69	42200 - Natural White Pine	Sawtimber Well	15.2	65	111-140	N/A	more open grown. Offering good cover for wildlife.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		10	Pole	7	41	White Pine	Medium	Variable	Sapling
White Pine		90	Log/Pole	12	65				
70	4130 - Aspen	Sapling Well	21.9	26	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	4	26	Black Cherry	Low	< 5 feet	Sapling
Quaking Aspen		50	Sapling	4	26				
Bigtooth Aspen		20	Sapling	4	26				
Black Cherry		20	Sapling	4	26				
71	310 - Herbaceous Openland	Nonstocked	1.9		Unspecified	No			
72	4130 - Aspen	Sapling Well	31.3	18	Unspecified	N/A	scattered mature leave trees of mainly white pine, and cherry.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		40	Sapling	3	18				
Bigtooth Aspen		40	Sapling	3	18				
Black Cherry		20	Sapling	3	18				
73	310 - Herbaceous Openland	Nonstocked	2.5		Unspecified	No			
74	6112 - Lowland Aspen	Poletimber Well	6.4	37	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Pole	6	37	Red Maple	Medium	Variable	Sapling
Quaking Aspen		50	Pole	6	37	Blue Ash	Medium	Variable	Sapling
75	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified		Active oil/gas well site		
76	6229 - Mixed lowland shrub	Nonstocked	27.3		Unspecified	No	flood plain/ Betsie River Bottom land. Vegetation mostly alder bushes and grasses.		
77	310 - Herbaceous Openland	Nonstocked	5.1		Unspecified	No			
78	110 - Low Intensity Urban	Nonstocked	2.1		Unspecified		active oil/gas well site.		
79	310 - Herbaceous Openland	Nonstocked	3.6		Unspecified	Managed Opening			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	4139 - Aspen, Mixed Deciduous	Poletimber Well	23.1	37	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Pole	7	37	Black Cherry	
Quaking Aspen		30	Pole	6	37	Low	
Bigtooth Aspen		15	Pole	7	37	Variable	
Black Cherry		25	Pole	7	37	Sapling	
81	4132 - Aspen, Jack Pine	Sapling Well	10.0	6	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
Red Maple		15	Sapling	1	6		
Quaking Aspen		35	Sapling	1	6		
Bigtooth Aspen		15	Sapling	1	6		
White Pine		10	Log/Pole/XLog	16			
Jack Pine		25	Sapling	1	6		
82	6225 - Bog	Nonstocked	3.8		Unspecified	No	
83	330 - Low-Density Trees	Nonstocked	3.0		Unspecified	No	
84	3105 - Mixed Upland Herbaceous	Nonstocked	1.5		Unspecified	No	old abandoned oil/gas well site.
85	330 - Low-Density Trees	Nonstocked	2.3		Unspecified	No	
86	6113 - Lowland Maple	Poletimber Well	108.1	41	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
American Elm		3	Pole	6	41	Red Maple	
Red Maple		87	Pole	8	41	Medium	
Quaking Aspen		10	Pole	8	41	Variable	
						Sapling	
87	310 - Herbaceous Openland	Nonstocked	1.3		Unspecified	No	
88	6120 - Lowland Cedar	Sawtimber Well	1.0	116	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	8		Black Ash	
Quaking Aspen		15	Pole	7		Low	
Northern White Cedar		80	Log/Pole	12	116	< 5 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
89	4133 - Aspen, Mixed Pine	Sapling Well	32.1	6	Immature	N/A	Harvest in November of 2015 to regen and expand aspen.																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>40</td> <td>Sapling</td> <td>1</td> <td>6</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	40	Sapling	1	6	Bigtooth Aspen	40	Sapling	1	6	White Pine	20	Log/Pole	14		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	White Pine	Medium	Variable	Sapling	Black Cherry	Low	< 5 feet	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																								
Quaking Aspen	40	Sapling	1	6																																								
Bigtooth Aspen	40	Sapling	1	6																																								
White Pine	20	Log/Pole	14																																									
Sub-Canopy Species	Density	Avg. Height	Size																																									
Red Maple	Low	Variable	Sapling																																									
White Pine	Medium	Variable	Sapling																																									
Black Cherry	Low	< 5 feet	Sapling																																									
90	310 - Herbaceous Openland	Nonstocked	1.7		Unspecified	No																																						
91	310 - Herbaceous Openland	Nonstocked	1.4		Unspecified	No																																						
92	31021 - Cool Season Grass	Nonstocked	5.6		Unspecified	Managed Opening	wildlife division managed/cultivated opening.																																					
93	42110 - Planted Red Pine	Poletimber Well	22.0	65	171-200	N/A	Thinned twice; 1994, 2004																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Log/Pole</td> <td>10</td> <td>65</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	10	65																																	
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Pine	100	Log/Pole	10	65																																								
94	6113 - Lowland Maple	Sawtimber Well	64.8	100	Unspecified	N/A																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>100</td> <td>Log/Pole</td> <td>14</td> <td>100</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	100	Log/Pole	14	100	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Pole</td> </tr> <tr> <td>Blue Ash</td> <td>Medium</td> <td>>20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	American Elm	Low	Variable	Sapling	American Elm	Low	Variable	Pole	Blue Ash	Medium	>20 feet	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Maple	100	Log/Pole	14	100																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
American Elm	Low	Variable	Sapling																																									
American Elm	Low	Variable	Pole																																									
Blue Ash	Medium	>20 feet	Sapling																																									
95	6113 - Lowland Maple	Sawtimber Well	202.3	105	Unspecified	N/A	Little Betsie River flows through stand. a lowland drainage area....sheet flow water within year-round.																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>100</td> <td>XLog/Log/Pole</td> <td>18</td> <td>105</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	100	XLog/Log/Pole	18	105	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	American Elm	Low	Variable	Sapling	Red Maple	Low	Variable	Sapling	Black Ash	Medium	Variable	Sapling															
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Maple	100	XLog/Log/Pole	18	105																																								
Sub-Canopy Species	Density	Avg. Height	Size																																									
American Elm	Low	Variable	Sapling																																									
Red Maple	Low	Variable	Sapling																																									
Black Ash	Medium	Variable	Sapling																																									
96	42110 - Planted Red Pine	Poletimber Well	19.9	65	171-200	N/A	Was thinned once in 1995 2nd thinning done by select mark approx. 1/3 volume cut in fall of 2015.																																					
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>100</td> <td>Log/Pole</td> <td>11</td> <td>65</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	100	Log/Pole	11	65																																	
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Pine	100	Log/Pole	11	65																																								
97	4130 - Aspen	Poletimber Well	32.1	57	Unspecified	N/A																																						
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Pole</td> <td>7</td> <td>57</td> </tr> <tr> <td>Quaking Aspen</td> <td>75</td> <td>Pole</td> <td>7</td> <td>57</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Pole</td> <td>7</td> <td>57</td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	7	57	Quaking Aspen	75	Pole	7	57	Bigtooth Aspen	10	Pole	7	57	Black Cherry	10	Log/Pole	11		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Black Cherry	Low	Variable	Sapling	Quaking Aspen	Low	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																								
Red Maple	5	Pole	7	57																																								
Quaking Aspen	75	Pole	7	57																																								
Bigtooth Aspen	10	Pole	7	57																																								
Black Cherry	10	Log/Pole	11																																									
Sub-Canopy Species	Density	Avg. Height	Size																																									
Red Maple	Low	Variable	Sapling																																									
Black Cherry	Low	Variable	Sapling																																									
Quaking Aspen	Low	Variable	Sapling																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
98	4130 - Aspen	Sapling Well	35.9	26	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Sapling	5	26	Black Cherry	Medium	< 5 feet	Sapling
Quaking Aspen		40	Pole/Sapling	5	26				
Bigtooth Aspen		25	Pole/Sapling	5	26				
Black Cherry		25	Pole/Sapling	5	26				
99	4130 - Aspen	Poletimber Well	17.7	58	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		5	Pole	8	58	Red Maple	High	Variable	Sapling
Quaking Aspen		90	Pole	8	58				
Black Cherry		5	Pole	8	58				
100	310 - Herbaceous Openland	Nonstocked	2.1		Unspecified	No			
101	6112 - Lowland Aspen	Poletimber Well	9.8	36	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Black Ash	Low	Variable	Sapling
Quaking Aspen		90	Pole	7	36	Tag Alder	Medium	< 5 feet	Tall Shrub
102	6112 - Lowland Aspen	Poletimber Well	81.1	41	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		45	Pole	8	41				
Bigtooth Aspen		15	Pole	8	41				
Black Cherry		10	Pole	8	41				
103	6113 - Lowland Maple	Sawtimber Medium	40.2	95	Unspecified	N/A	wet with creeks and drainages.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		60	Log/Pole	12	95	Black Ash	Medium	Variable	Sapling
Quaking Aspen		40	Pole/Log	9		Dogwood (spp.)	Medium	Variable	Tall Shrub
						Willow spp.	Medium	Variable	Tall Shrub
104	42200 - Natural White Pine	Poletimber Well	33.7	67	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		20	Pole	8	57	Black Cherry	Low	< 5 feet	Sapling
White Pine		75	Log/Pole	11	67				
Black Cherry		5	Pole	8					
105	330 - Low-Density Trees	Nonstocked	6.0		Unspecified	No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
106	4130 - Aspen	Poletimber Well	16.0	41	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Pole	7	41	Red Maple	
Bigtooth Aspen		70	Pole	7	41	Medium	Variable
							Sapling
107	6118 - Lowland Deciduous with Cedar	Poletimber Well	22.8	41	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8	41	Balsam Fir	
Quaking Aspen		52	Pole	8	41	Low	Variable
Balsam Fir		15	Pole	8		Medium	Variable
Northern White Cedar		20	Log/Pole	12		Medium	Variable
Tamarack		3	Pole/Log	9			Tall Shrub
108	110 - Low Intensity Urban	Nonstocked	1.9		Unspecified		Active oil/gas well site.
109	330 - Low-Density Trees	Nonstocked	9.0		Unspecified	No	
110	42310 - Planted Spruce	Poletimber Well	4.9	60	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Spruce		100	Pole	7	60		
111	110 - Low Intensity Urban	Nonstocked	1.8		Unspecified		Active oil/well site.
112	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.5	65	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	6		Balsam Fir	
Quaking Aspen		20	Pole	6		Medium	Variable
Balsam Fir		10	Pole	6		Medium	Variable
Northern White Cedar		40	Pole	7	65	Low	< 5 feet
White Pine		20	Pole/Log	9	55		Tall Shrub
113	4130 - Aspen	Poletimber Well	30.2	41	Unspecified	N/A	Also has a few scattered apple trees.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Pole	8	41	Red Maple	
Quaking Aspen		85	Pole	8	41	Medium	Variable
Black Cherry		10	Pole	8	41	Medium	Variable
							Sapling
114	110 - Low Intensity Urban	Nonstocked	1.1		Unspecified		old abandoned railroad grade..now part of rails/ trails Betsie Valley Trail



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
115	310 - Herbaceous Openland	Nonstocked	1.6		Unspecified	No	grassy vegetative sides of old abandoned railroad grade..now part of rails/ trails			
116	4139 - Aspen, Mixed Deciduous	Poletimber Well	30.4	54	Unspecified	N/A	also contains some scattered white pine, fir, cedar mostly upland but some lowland mixed in.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	40	Pole	8	54	Red Maple	Medium	Variable	Sapling
		Bigtooth Aspen	57	Pole/Log	9	54				
		Black Cherry	3	Pole	8					
117	4130 - Aspen	Poletimber Well	26.4	46	Unspecified	N/A	Some scattered bur oak in NE corner of stand of various age class.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	3	Pole	8		Black Cherry	Medium	Variable	Sapling
		Quaking Aspen	72	Pole	8	46	Quaking Aspen	Medium	Variable	Sapling
		Black Cherry	25	Pole	8					
118	6118 - Lowland Deciduous with Cedar	Sawtimber Well	32.9	116	Unspecified	N/A				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	50	Log/Pole	13	116	American Elm	Low	Variable	Sapling
		Quaking Aspen	10	Pole	8		Black Ash	Low	Variable	Sapling
		Northern White Cedar	40	Log/Pole	11	116				
119	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	34.5	25	Immature	N/A	Also contains scattered old apple trees and ground juniper.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Pine	35	Sapling/Pole	4	25	Red Pine	Medium	Variable	Sapling
		Jack Pine	20	Sapling/Pole	3		Jack Pine	Medium	Variable	Sapling
		Black Cherry	35	Pole	8		Black Cherry	Medium	Variable	Sapling
		White Pine	10	Sapling/Pole	3		White Pine	Low	Variable	Sapling
120	42200 - Natural White Pine	Poletimber Well	20.7	65	111-140	N/A	nice quality natural pine. Some larger DBH's mixed in as well.			
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
		Red Maple	5	Pole/Log	9		Red Maple	Low	Variable	Sapling
		White Pine	95	Log/Pole	10	65	White Pine	Medium	Variable	Sapling
121	3105 - Mixed Upland Herbaceous	Nonstocked	15.8		Unspecified		cleared power line area along north edge of Lindey road. small drainage creek also running through the stand.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
122	4130 - Aspen	Sapling Well	10.6	24	Unspecified	N/A	mostly upland, but some wet areas																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Bigtooth Aspen</td> <td>75</td> <td>Sapling/Pole</td> <td>4</td> <td>24</td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	75	Sapling/Pole	4	24	Balsam Fir	5	Sapling/Pole	4		White Pine	5	Log/Pole	12		Paper Birch	5	Sapling/Pole	4		Red Maple	10	Sapling/Pole	4		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	White Pine	Low	< 5 feet	Sapling			
Canopy Species	% Cover	Size Class	DBH	Age																																												
Bigtooth Aspen	75	Sapling/Pole	4	24																																												
Balsam Fir	5	Sapling/Pole	4																																													
White Pine	5	Log/Pole	12																																													
Paper Birch	5	Sapling/Pole	4																																													
Red Maple	10	Sapling/Pole	4																																													
Sub-Canopy Species	Density	Avg. Height	Size																																													
Balsam Fir	Low	< 5 feet	Sapling																																													
White Pine	Low	< 5 feet	Sapling																																													
123	3102 - Grass	Nonstocked	2.1		Unspecified	Managed Opening	cultivated opening by wildlife Div.																																									
124	42110 - Planted Red Pine	Sapling Well	33.6	9	Immature	N/A	This was a mature red pine stand that was clearcut (red pine project) and trenched and replanted to red pine.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>7</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> <tr> <td>Red Pine</td> <td>90</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> <tr> <td>Jack Pine</td> <td>3</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	7	Sapling	1	9	Red Pine	90	Sapling	1	9	Jack Pine	3	Sapling	1	9	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Pine</td> <td>High</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Pine	High	< 5 feet	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																												
Black Cherry	7	Sapling	1	9																																												
Red Pine	90	Sapling	1	9																																												
Jack Pine	3	Sapling	1	9																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Pine	High	< 5 feet	Sapling																																													
125	500 - Water	Nonstocked	1.6		Unspecified	No	small pond with drainage creek coming in one end and flowing out other.																																									
126	6112 - Lowland Aspen	Poletimber Well	18.6	46	Unspecified	N/A																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>15</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> <tr> <td>Quaking Aspen</td> <td>85</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	15	Pole	8	46	Quaking Aspen	85	Pole	8	46	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	High	Variable	Sapling																						
Canopy Species	% Cover	Size Class	DBH	Age																																												
Red Maple	15	Pole	8	46																																												
Quaking Aspen	85	Pole	8	46																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Red Maple	High	Variable	Sapling																																													
127	4130 - Aspen	Poletimber Well	13.5	44	Unspecified	N/A	sparse stocking Treat when stand in adjacent compartment 32 is treated. (all the same stand). Majority is in comp 32																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>97</td> <td>Pole</td> <td>7</td> <td>44</td> </tr> <tr> <td>Black Cherry</td> <td>3</td> <td>Pole</td> <td>7</td> <td>44</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	97	Pole	7	44	Black Cherry	3	Pole	7	44	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	Sapling	Quaking Aspen	Low	Variable	Sapling																		
Canopy Species	% Cover	Size Class	DBH	Age																																												
Quaking Aspen	97	Pole	7	44																																												
Black Cherry	3	Pole	7	44																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
Black Cherry	Low	< 5 feet	Sapling																																													
Quaking Aspen	Low	Variable	Sapling																																													
128	42310 - Planted Spruce	Poletimber Well	1.6	60	51-80	N/A																																										
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>White Spruce</td> <td>100</td> <td>Pole</td> <td>8</td> <td>60</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	100	Pole	8	60																																					
Canopy Species	% Cover	Size Class	DBH	Age																																												
White Spruce	100	Pole	8	60																																												
129	6113 - Lowland Maple	Poletimber Well	40.7	46	Unspecified	N/A	Standing water and sheet flow drainage throughout the year.																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>80</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> <tr> <td>Quaking Aspen</td> <td>20</td> <td>Pole</td> <td>8</td> <td>46</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	80	Pole	8	46	Quaking Aspen	20	Pole	8	46	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>American Elm</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Ash</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	American Elm	Low	Variable	Sapling	Red Maple	Medium	Variable	Sapling	Black Ash	Low	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																												
Red Maple	80	Pole	8	46																																												
Quaking Aspen	20	Pole	8	46																																												
Sub-Canopy Species	Density	Avg. Height	Size																																													
American Elm	Low	Variable	Sapling																																													
Red Maple	Medium	Variable	Sapling																																													
Black Ash	Low	Variable	Sapling																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
132	6113 - Lowland Maple	Sawtimber Well	56.5	102	Unspecified	N/A	many blowdowns. lots of woody debris. standing water most of the year.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		100	XLog/Log/Pole	18	102	Red Maple	
						Medium	
						Variable	
						Sapling	
						Pole	
						Sapling	
133	6113 - Lowland Maple	Poletimber Well	64.6	41	Unspecified	N/A	also contains some scattered cedar
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		80	Pole/Log	9	41	American Elm	
Quaking Aspen		20	Pole	8	41	Red Maple	
						High	
						Variable	
						Sapling	
						Sapling	
134	4130 - Aspen	Poletimber Well	23.0	41	Unspecified	N/A	mostly upland but a few drainages.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
American Elm		3	Pole	7		Red Maple	
Red Maple		25	Pole/Log	8	41	Black Ash	
Quaking Aspen		37	Pole	7	41	Low	
Bigtooth Aspen		25	Pole	7	41	Variable	
Black Cherry		10	Pole	7		Sapling	
135	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No	
137	6113 - Lowland Maple	Sawtimber Well	10.5	96	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		100	XLog/Log/Pole	18	96	Red Maple	
						Low	
						Variable	
						Sapling	
						Sapling	
138	4130 - Aspen	Poletimber Well	5.8	46	Unspecified	N/A	a small upland ridge surrounded by lowland maple
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	7	46	Red Maple	
Quaking Aspen		90	Pole	7	46	Black Ash	
						Low	
						Variable	
						Sapling	
139	4130 - Aspen	Sapling Well	15.7	6	Immature	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		35	Sapling	1	6	White Pine	
Bigtooth Aspen		65	Sapling	1	6	Medium	
						< 5 feet	
						Sapling	



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

141 6118 - Lowland Deciduous with Cedar Sawtimber Medium 81.4 92 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	10	Pole	8		American Elm	Low	Variable	Sapling
Red Maple	45	Log/Pole	11	92	Red Maple	Medium	Variable	Sapling
Quaking Aspen	15	Pole	8		Red Maple	Medium	Variable	Pole
Balsam Fir	5	Pole	9		Northern White Cedar	Low	Variable	Pole
Northern White Cedar	25	Log/Pole	12	92	Black Ash	Medium	Variable	Sapling

142 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 7.9 90 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low	Variable	Pole
Bigtooth Aspen	10	Pole	8		Hemlock	Medium	Variable	Pole
White Pine	30	Log/Pole	18	90				
Hemlock	50	Log/Pole	12	90				

143 6112 - Lowland Aspen Poletimber Well 49.0 41 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Pole/Log	8	41	Red Maple	High	Variable	Sapling
Quaking Aspen	25	Pole	8	41	White Pine	Low	< 5 feet	Sapling
Bigtooth Aspen	20	Pole/Log	8	41				

144 6120 - Lowland Cedar Sawtimber Well 1.8 110 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Log/Pole	14		Black Ash	Low	Variable	Sapling
Northern White Cedar	90	Log/Pole	13	110				

145 6113 - Lowland Maple Sawtimber Well 52.5 102 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	100	XLog/Log/Pole	18	102	Red Maple	Medium	Variable	Sapling
					Red Maple	Medium	Variable	Pole
					Black Ash	Low	Variable	Sapling
					Tag Alder	Medium	< 5 feet	Tall Shrub

lots of woody debris. quite a few blowdowns, standing water most of year.

146 6112 - Lowland Aspen Poletimber Medium 18.0 55 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole	8	55	Red Maple	Medium	Variable	Sapling
Quaking Aspen	40	Pole	7	55	Black Ash	High	Variable	Sapling
Northern White Cedar	15	Pole	8					

Recent Ash die-off causing lots of blow-downs and woody debris and crown gap openings.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
147	6120 - Lowland Cedar	Sawtimber Well	67.5	92	51-80	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	13	92	Red Maple	Medium	Variable	Sapling
Northern White Cedar	60	Log/Pole	13	92	Black Ash	Medium	Variable	Sapling
148	6113 - Lowland Maple	Sawtimber Well	5.1	100	111-140	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Log/Pole	12	100	Red Maple	Medium	Variable	Sapling
Hemlock	30	Log/Pole	11	100	Red Maple	Medium	Variable	Pole
Red Oak	5	Log	16		Hemlock	Medium	Variable	Pole
White Pine	5	XLog/Log	22					
149	6113 - Lowland Maple	Sawtimber Well	73.1	96	Unspecified	N/A	mostly lowland, but a few small upland ridges.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	100	Log/Pole/XLog	17	96	Red Maple	Medium	Variable	Sapling
					Red Maple	Medium	Variable	Pole
					Black Ash	Medium	Variable	Sapling
150	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.5	90	81-110	N/A	also contains some beech, ash, paper birch.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	12	90	Sugar Maple	Low	Variable	Sapling
Red Maple	52	Log/Pole	14	90	Sugar Maple	Low	Variable	Pole
Red Oak	10	Log/Pole	14		Red Maple	Low	Variable	Sapling
Black Cherry	3	Log/Pole	10		Red Maple	Medium	Variable	Pole
					Hemlock	Low	>20 feet	Pole
					Ironwood	Medium	5 - 10 feet	Sapling
151	4319 - Mixed Upland Forest	Sawtimber Well	9.2	94	51-80	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	55	Log/Pole	12	94	Red Maple	Low	Variable	Sapling
Bigtooth Aspen	3	Log/Pole	12		Red Maple	Medium	Variable	Pole
White Pine	7	XLog/Log/Pole	18		Northern White Cedar	Low	Variable	Pole
Hemlock	35	Log/Pole	12	94	Hemlock	Medium	Variable	Pole
152	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Medium	6.9	90	1-50	N/A		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	8		White Pine	Medium	Variable	Sapling
White Pine	65	Log/Pole	14	90	Red Maple	Low	Variable	Sapling
Black Cherry	25	Pole/Log	8					



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

153	6112 - Lowland Aspen	Poletimber Well	19.5	44	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		19	Pole	6	44	Red Maple	
Paper Birch		3	Pole	6	44	Black Ash	
Quaking Aspen		75	Pole	6	44	Density	
Hemlock		3	Log/Pole	12		Avg. Height	
						Size	

154	330 - Low-Density Trees	Nonstocked	6.0		Unspecified	No	
------------	-------------------------	------------	-----	--	-------------	----	--

155	6113 - Lowland Maple	Sawtimber Medium	46.9	96	51-80	N/A	Swampy/lowlands area around the headwaters of Dutchman creek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		70	Log/Pole	15	96	Yellow Birch	
Yellow Birch		5	Log/Pole	10		Northern White Cedar	
Quaking Aspen		5	Pole	8		Hemlock	
Hemlock		20	Log/Pole	12	96	Black Ash	
						Density	
						Avg. Height	
						Size	

156	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	5.7	96	51-80	N/A	headwaters of dutchman/bearcreek.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole	13	96	Red Maple	
Northern White Cedar		35	Pole/Log	9	96	Black Ash	
Hemlock		45	Log/Pole	13	96	Density	
						Avg. Height	
						Size	

157	310 - Herbaceous Openland	Nonstocked	1.0		Unspecified		
------------	---------------------------	------------	-----	--	-------------	--	--

158	4130 - Aspen	Sapling Medium	16.4	7	Immature	N/A	final harvest/regen cut was made in summer of 2014. This unit cut during period of heavy rains.
Canopy Species		% Cover	Size Class	DBH	Age		
Quaking Aspen		70	Sapling	1	7		
Bigtooth Aspen		15	Sapling	1	7		
Red Maple		5	Sapling	1			
White Pine		10	Pole/Log	8			

159	42200 - Natural White Pine	Poletimber Medium	6.0	21	1-50	N/A	
Canopy Species		% Cover	Size Class	DBH	Age		
White Pine		100	Pole/Sapling	6	21		



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

160	4311 - Pine, Aspen Mix	Poletimber Well	30.4	53	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		25	Pole	8	53	Red Maple	Low	Variable	Sapling
Bigtooth Aspen		25	Pole/Log	9	53	White Pine	Medium	Variable	Sapling
White Pine		50	Log/Pole/XLog	15	53	Black Cherry	Low	< 5 feet	Sapling

169	6112 - Lowland Aspen	Poletimber Well	4.0	41	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Pole	8	41				
Bigtooth Aspen		25	Pole	8	41				
Black Cherry		10	Pole	8	41				

170	6112 - Lowland Aspen	Poletimber Well	6.3	41	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		30	Pole	8	41	Red Maple	Medium	Variable	Sapling
Quaking Aspen		35	Pole	8	41				
Bigtooth Aspen		25	Pole	8	41				
Black Cherry		10	Pole	8	41				