



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61125

Entry Year 2021

Acreage: 1,480

County Kalkaska

Management Area: Grayling Outwash

Revision Date: 2019-06-11

Stand Examiner: Kelly Standerfer

Legal Description:

T26N,R6W,Secs. 20, 21, 22

Identified Planning Goals:

Management in the Grayling Outwash management area (MA) will emphasize continuing balancing the age class of aspen on suitable sites and thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging swamp hardwood and conifer resource where possible. Management will strive to sustainably produce various timber products, enhance game and non-game wildlife habitat, protect areas of unique character, such as the historic Deward Tract and provide for forest-based recreational uses, including the Wetzel Lake Day Use Area leased to Antrim County. Management activities are constrained by poor access in the swampy (16% lowland) portions of this area, some of which fall in the riparian zone of the Manistee River, a dedicated natural river. Expected trends within this 10-year planning period are increased recreational pressure, introduced pests and diseases and the difficulty in regenerating swamp types

Soil and topography:

Flat, with low and wet areas. Saugetuck Sand and Rifle Peat.

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

State land lies to the northeast, north, and south of the compartment. Most of the land to the west is private and in agricultural use. Land use in and around the area is hunting and fishing.

Unique Natural Features:

Natural features lists one species of special concern in section 21. The North Branch of the Manistee River runs through the compartment.

Archeological, Historical, and Cultural Features:

No features listed on the Archeological Inventory sheet. An old logging camp, called "Watson Camp" on local maps, was located in what is now a small opening in the SW corner of Section 22. The area was heavily logged in the late 1800's.

Special Management Designations or Considerations:

North Branch of the Manistee River and one ERA (Sigma Swamp- Stand 46) is in the compartment.

Watershed and Fisheries Considerations:

The North Branch of the Manistee River and several unnamed tributaries flow through Compartment 125. The North Branch is a tributary of the Manistee River, and is a Designated Trout Stream. It is also protected by the Manistee River Natural Rivers Designation. The North Branch of the Manistee River hosts a naturally reproducing population of brook trout. The unnamed tributaries in Compartment 125 are also Designated Trout Streams. For timber operations near the North Branch of the Manistee River and its tributary stream, Natural Rivers buffers should be followed.

Wildlife Habitat Considerations:

A large area of outwash plain consisting of poorly drained organic soils covers much of the compartment (Mecum/Watson Swamps) and is part of the North Branch Manistee River riparian corridor. These wet soils support a variety of lowland communities, including some drier aspen sites. Maintaining conifer cover in various age classes and a component of browse will benefit many species including deer and snowshoe hare. Many other species make use of lowland communities, including: blackburnian warbler, northern saw-whet owl, red squirrel, bobcat, and wood frog.

This compartment has a history of aspen cutting. Such early successional management is appropriate and will be continued in this area, with additional aspen harvests scheduled this inventory cycle in order to increase age class diversity. The incorporation of snags, leave trees, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer.

The east end of the compartment has excessively drained sands, which support several pine plantations, aspen, and

upland brush communities. Fire was a major disturbance on these dry soils and should be considered a valuable treatment tool in perpetuating these fire driven ecosystems. Several upland brush stands have been prescribed for burning to set back woody encroachment and stimulate native herbaceous vegetation. A variety of species make use of habitats found on these dry sandy soils, including: Kirtland's warbler, deer, ruffed grouse, smooth green snake, wild turkey, eastern box turtle, and badger.

This compartment lies within the Grayling Outwash Management Area (MA) of State Forest Land. Featured species associated with the communities in this MA include Eastern massasauga rattlesnake, pileated woodpecker, ruffed grouse, snowshoe hare, turkey, and deer.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel production is occurring in this area, and sand & gravel potential within the compartment appears to be low. Much of the compartment is covered by wetlands. The compartment is located south of the Guelph (Niagaran) reef trend and Antrim Shale gas play and north of the Central Basin production. There has been some minor Collingwood gas production in the area associated with the Bear Lake project, but there is currently little interest in further Collingwood development in the state. There is no active mineral leasing within the compartment. Oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

No new access roads are needed, Some areas are limited access due to low wet ground.

Survey Needs:

None should be needed

Recreational Facilities and Opportunities:

In the east half of Section 22, the Cranberry Lake Snowmobile Trail runs through the compartment. These will need to be protected during any management activity..

Fire Protection:

This compartment is protected by the Kalkaska DNR Field Office, although section 22 is within Zone 5 dispatch, which means units from Grayling, Manton, and Houghton Lake also respond. VFD protection is from the Kalkaska VFD. Access is acceptable, travel time is not an issue. Urban interface is not too much of an issue.

Additional Compartment Information:

The following reports from the Inventory are attached:

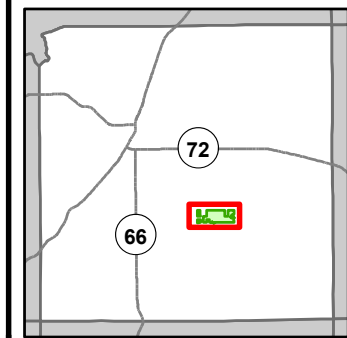
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

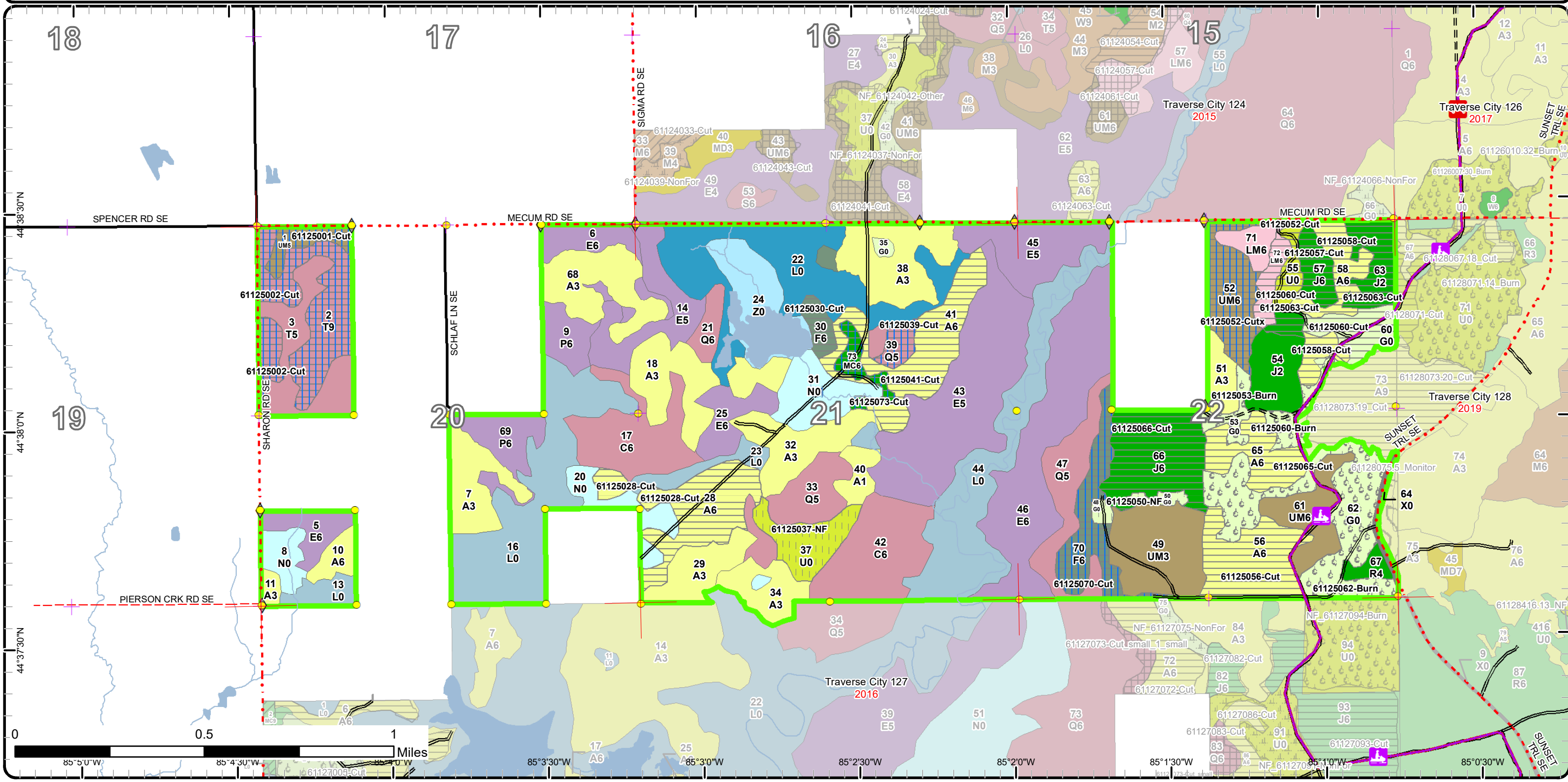
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 125
 T26N-R06W Sec. 20-22
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Outwash
 YOE: 2021
 Acres: 1,480 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 10/30/2019
 Map Phase: Post Review

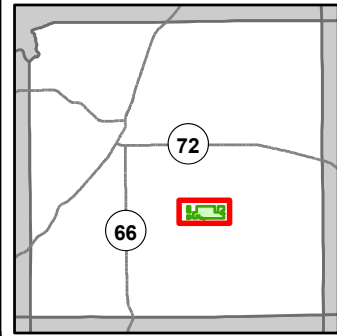


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Culvert
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Opening Maintenance
- 413 - Aspen
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

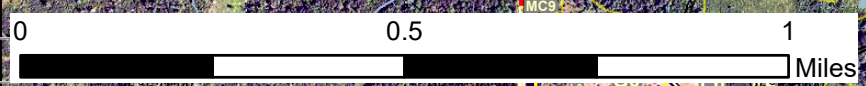
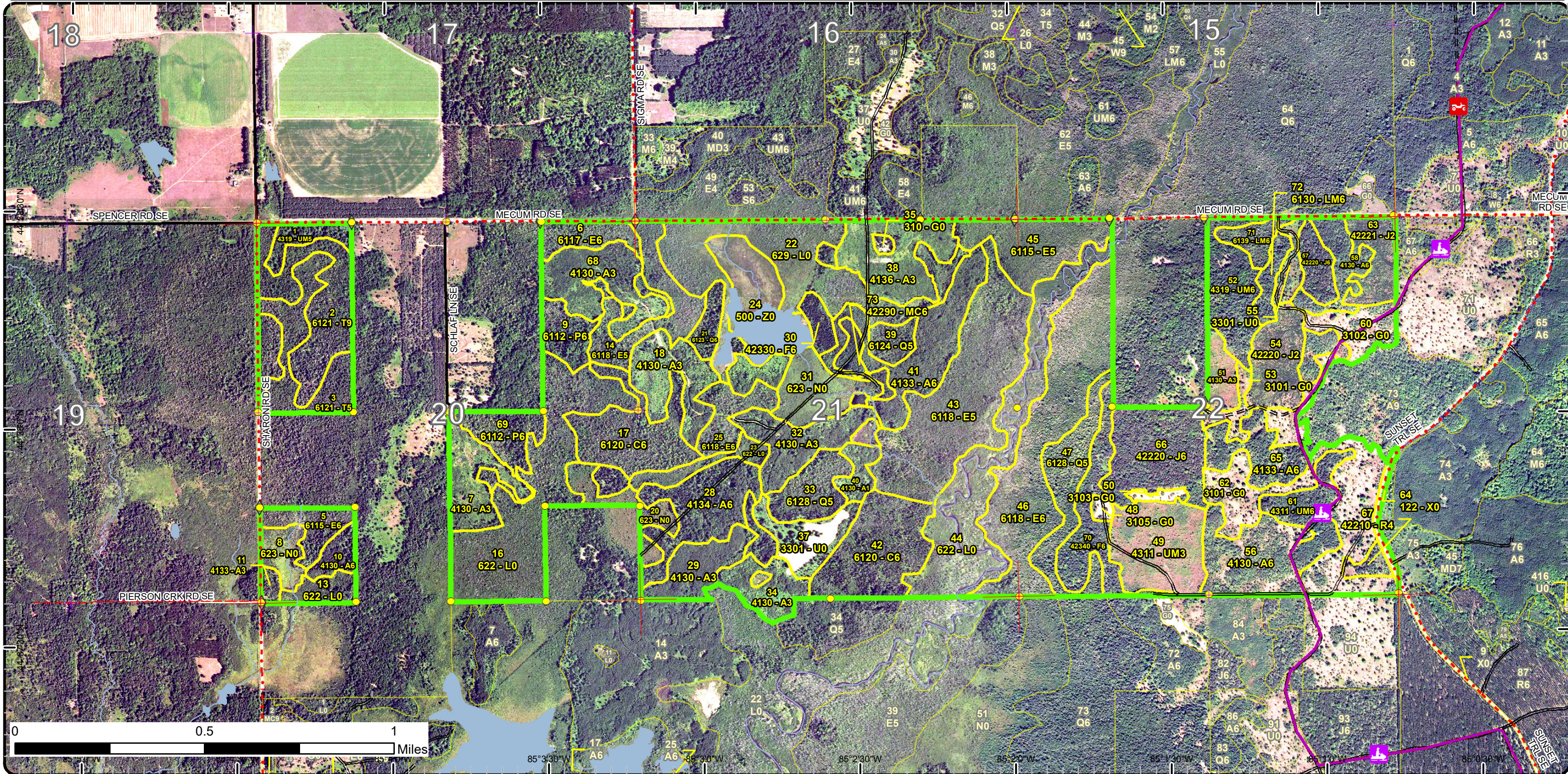


Stand Boundary Map

Compartment: 125
 T26N-R06W Sec. 20-22
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Outwash
 YOE: 2021
 Acres: 1,480 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 10/30/2019
 Map Phase: Post Review



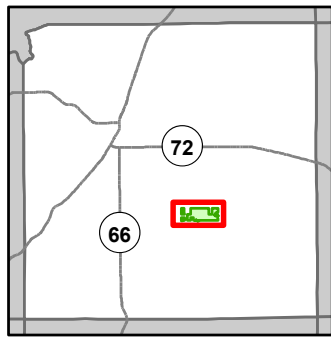
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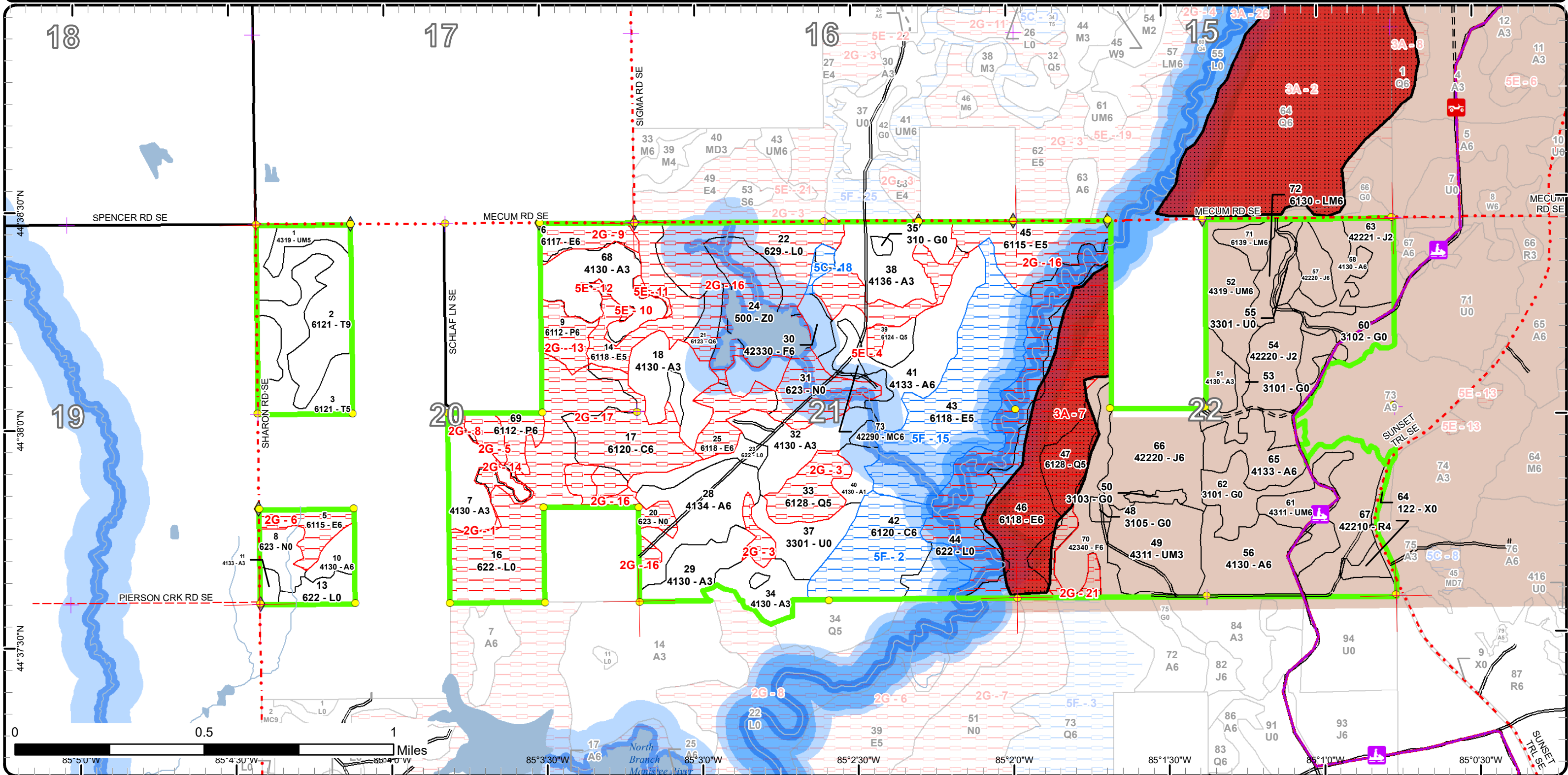
85° 3' 30" W
85° 3' 0" W
85° 2' 30" W
85° 2' 0" W
85° 1' 30" W
85° 1' 0" W
85° 0' 30" W

Special Conservation Areas & Site Conditions Map

Compartment: 125
 T26N-R06W Sec. 20-22
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Outwash
 YOE: 2021
 Acres: 1,480 GIS Calculated
 Examiner: Kelly Standerfer
 Map Revised: 10/30/2019
 Map Phase: Post Review



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- Snowmobile Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Culvert
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Habitat Corridor



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	94	80	18	0	45	88	21	0	0	0	0	0	0	0	0	0	0	346
Cedar	0	0	0	0	0	0	0	0	40	0	0	0	34	0	0	0	0	0	74
Herbaceous Openland	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86
Jack Pine	0	0	37	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	85
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	17	15	0	0	0	0	0	0	0	0	0	0	32
Lowland Conifers	0	0	0	0	0	0	0	15	23	0	27	0	0	0	0	0	0	0	65
Lowland Deciduous	0	0	0	0	0	0	76	29	103	14	0	11	0	0	0	0	0	12	245
Lowland Mixed Forest	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Lowland Shrub	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	223
Marsh	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Natural Mixed Pines	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
Tamarack	0	0	0	0	0	0	28	0	0	0	0	44	0	0	0	0	0	0	72
Upland Mixed Forest	0	35	0	0	0	0	29	25	0	0	0	0	0	0	0	0	0	0	89
Upland Spruce/Fir	0	0	0	0	0	0	0	8	0	0	26	0	0	0	0	0	0	0	34
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Total	413	129	117	18	0	53	238	180	166	14	53	55	34	0	0	0	0	12	1482



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 125
Total Compartment Acres: 1,480

Commercial Harvest - 364
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	147	0	0	0	0	0	0	0	0	147
Herbaceous Openland	21	0	0	0	0	0	0	0	0	21
Jack Pine	67	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	5	0	0	0	0	0	5
Lowland Mixed Forest	8	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	0	8	0	0	0	0	0	8
Tamarack	0	0	0	44	0	0	0	0	0	44
Upland Mixed Forest	0	0	0	33	0	0	0	0	0	33
Upland Spruce/Fir	6	0	0	26	0	0	0	0	0	32
Total	248	0	0	116	0	0	0	0	0	364

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	364	0	0	0	65	0	0	0	23	452
Next Step	0	0	0	0	21	0	364	0	65	450
Total	364	0	0	0	86	0	364	0	88	902



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

1	61125001-Cut	8.6	4319 - Mixed Upland Forest	Poletimber Medium	52	1-50	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> green tree leave mixed species... save some of the woolfy sugar maple up by Mecum road and and save some white pine for seed and retention. bulk of the retention will be in the uncuteable portions of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed conifer and mixed deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
2	61125002-Cut	43.9	6121 - Tamarack	Sawtimber Well	100	81-110	Harvest	Seed Tree with Retention	612 - Lowland Coniferous Forest	Even-Aged	No
<p><u>Prescription</u> some upland and some wet... wont know how much of the stand we can treat untill lines are run however it looks like there is enough upland to make the bulk of it doable in a good winter or extremely dry summer try to save some advanced regen where possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed swamp conifer and upland conifer and mixed deciduous is ok post harvest</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
28	61125028-Cut	36.2	4134 - Aspen, Spruce/Fir	Poletimber Well	50	51-80	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> final harvest but save some larger white pine via green tree marking or via specification. ok to put retention along edges and possibly along the private line as the blue will be very difficult to run.</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, mixed deciduous and mixed conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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30	61125030-Cut	6.1	42330 - Upland Fir	Poletimber Well	65	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription final harvest but save fringe along beaver flooding for retention, possibly save all fir under 3 or 4" dbh, will know how much there is when
Specs: cruising stand, make the call then.

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

Acceptable mixed fir, spruce, conifer and mixed deciduous is ok post harvest
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

37	61125037-NF	17.6	3301 - Low Density Deciduous Trees	Nonstocked			Immature	NonForestMgt /Grass Planting	Herbaceous/Crop Upland Herbaceous	3105 - Mixed Upland Herbaceous	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. 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. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

39	61125039-Cut	5.4	6124 - Lowland Spruce-Fir	Poletimber Medium	68	51-80	Harvest	Seed Tree	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription green tree save some larger white pine and a few pockets of seed trees or leave fringe on west side to act as seed trees..
Specs:

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

Acceptable any mix of current overstory, deciduous areas will likely push back to deciduous and conifer will be mixed conifer
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41 61125041-Cut	38.1	4133 - Aspen, Mixed Pine	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription</u> final harvest but save cedar, hemlock and paint out a few islands along edge for retention. stand could hold if needed as well as stand 39, 73 & 30. depends on what MA says for targets.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed aspen, deciduous and conifer.</p> <p><u>Regen:</u></p> <p><u>Other</u> if we need to find areas to treat until next YOE stands 41, 39, 73 & 30 can easily be saved.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
48 61125048-NF	2.1	3105 - Mixed Upland Herbaceous	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting adjacent to the Black Creek Deer Yard. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</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 /2020</p>										
50 61125050-NF	2.8	3103 - Rubus-Fern	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting adjacent to the Black Creek Deer Yard. Plant to annual rye. Consider alternative seed mixes as soil conditions allow. Resulting forage should be suitable for early spring and late fall grazing. Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</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 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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72	61125052-Cut	7.7	6130 - Fir, Aspen, Maple	Poletimber Well	65	1-50	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	No
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Prescription burned up in late july of 2018, chapter 8 done to do a salvage cut here. final harvest, will seed in from edge and has some deciduous and
Specs: aspen mixed in as well so should regenerate nicely post harvest

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

Acceptable Regen: mixed conifer and mixed deciduous and low density is OK post harvest, most should fill in nicely

Other Comment:

Site Condition

Proposed Start Date: 12/20/2018

52	61125052-Cutx	24.8	4319 - Mixed Upland Forest	Poletimber Well	65	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription green tree leave some conifer for seed and cover, aspen and maple areas will be more of a clear cut and the pine areas more of a seed tree/
Specs: shelterwood cut. Leave some brush piles for grouse and hare. Will likely leave retention along swamp edge and green marked trees will count .

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

Acceptable Regen: any mix of overstory, aspen and maple wil likely push to aspen and maple and conifer should seed in with white pine and fir.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

53	61125053-Burn	6.2	3101 - Poverty Grass, Cladonia	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
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Prescription The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be
Specs: based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020

56	61125056-Cut	31.9	4130 - Aspen	Poletimber Well	57	1-50	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription cut all aspen, red maple and most oak...save some or all pine... either green tree oak and pine to save or orange some to cut depending on
Specs: density, definitely better pine ground than aspen

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

Acceptable Regen: aspem, red maple, oak and mixed pine.

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57 61125057-Cut	9.8	42220 - Natural Jack Pine	Poletimber Well	66	51-80	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> area burned july 2018, salvage sale to cut and utilize this area, bulk of the conifer is dead but deciduous mixed in seems to have survived, final harvest and let stand push to mixed aspen, deciduous and jack pine.</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> let stand push to mixed aspen, deciduous and jack pine, some areas more open OK post harvest and fully stocked is ok post harvest,</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
58 61125058-Cut	20.8	4130 - Aspen	Poletimber Well	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> area burned july 2018, salvage this area but will save some fir under 3" dbh that didnt burn up for retention and diversity.</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, mixed conifer and mixed deciduous ok post harvest, this will come back mainly to aspen.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
60 61125060-Burn	8.0	3102 - Grass	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
60 61125060-Cut	20.9	3102 - Grass	Nonstocked			Harvest	Clearcut	330 - Low-Density Trees		No
<p><u>Prescription</u> Burn this stand at least once per entry period in order to set back woody encroachment, increase species diversity, stimulate native herbaceous vegetation, promote berry production, and recycle nutrients. Stand burned july 2017 so no need to burn :-) talked with wildlife and we will be cutting the cherry out of the U types except we will save some cherry via green paint.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Burn, Opening</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> low density trees but some areas with aspen will come back to aspen, Open is ok post harvest and soem areas with thicker trees post harvest is OK.</p> <p><u>Other Comment:</u> If FMFM agrees, aspen clones in stands 53 and 55 have been prescribed for cutting with timber sale in stand 51. These areas would then be left out of burn.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/20/2018</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62 61125062-Burn	51.0	3101 - Poverty Grass, Cladonia	Nonstocked			Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
63 61125063-Cut	19.2	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	16	Immature	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> area burned July 2018, salvage cut, giving the logger the option to chip harvest the younger jack pine in the sale area or if they want to leave it we are OK with that as well, should fill back in with jack pine either way.</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> jack pine, mixed conifer and mixed deciduous, expect mainly jack pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
65 61125065-Cut	19.6	4133 - Aspen, Mixed Pine	Poetimber Well	56	51-80	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> cut all aspen, red maple and oak and save some or all pine for seed, ok to save some oak for seed and mast production but try to regenerate the oak along with the aspen and maple. could green tree pine to save or orange mark some to cut... most is scattered but a couple of thick pockets so green may be the way to go.</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, oak mixed with pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
66 61125066-Cut	37.8	42220 - Natural Jack Pine	Poletimber Well	67	51-80	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> final harvest but save some pockets for ~3% retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> expect mostly jack and red maple however some will likely push to aspen where its present. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
70 61125070-Cut	25.9	42340 - Upland Spruce/Fir	Poletimber Well	98	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> leave fringe of seed trees on west and advanced conifer regen where possible. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> fir mixed with conifer and deciduous, aspen areas will go to aspen and rest should go to fir and red maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
73 61125073-Cut	7.5	42290 - Natural Mixed Pine	Poletimber Well	44	141-170	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> green tree mark 0-20 BA where aspen not present, more of a clear cut where aspen is present. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed conifer and mixed deciduous ok post harvest. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment 451.9
Acreage Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 125
Year of Entry: 2021

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5C 5F 2G 3A 5E

345	339	0	6	Aspen	0	40	6	31	0
73	2	40	31	Cedar					
86	86	0	0	Herbaceous Openland					
85	85	0	0	Jack Pine					
24	24	0	0	Low-Density Trees					
32	0	0	32	Lowland Aspen/Balsam Poplar			29		3
64	8	0	56	Lowland Conifers			37	18	2
246	1	78	167	Lowland Deciduous		78	103	64	0
15	15	0	0	Lowland Mixed Forest					
223	20	12	191	Lowland Shrub	1	11	190	1	
45	11	0	34	Marsh			34		
7	7	0	0	Natural Mixed Pines					
4	4	0	0	Red Pine					
71	71	0	0	Tamarack					
88	88	0	0	Upland Mixed Forest					
34	31	2	1	Upland Spruce/Fir	2		0	1	
4	4	0	0	Urban					
31	0	0	31	Water			31		
1,480	798	132	550	Total Forested Acres	3	128	462	83	6
	54%	9%	37%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 125
Year of Entry: 2021

2	Available	5F: Evaluated for Forest Health Considerations	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Watson Swamp - Rich Conifer Swamp							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 125
Year of Entry: 2021

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Mecum Swamp Mix, 61-047-11-01.							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Mecum Swamp Mix, 61-047-11-01.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Mecum Swamp Mix, 61-047-11-01.							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Kelly Standerfer : Examiner

Compartment: 125
Year of Entry: 2021

14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5F: Evaluated for Forest Health Considerations	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	272	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	106	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water 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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4319 - Mixed Upland Forest	Poletimber Medium	8.6	52	1-50	N/A	Scattered Red Maple and White Pine - bracken		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		50	Log/Pole	10	52	White Pine	Low	10 - 20 feet	Sapling
White Pine		50	Pole	8	52	Balsam Fir	Low	10 - 20 feet	Sapling
2	6121 - Tamarack	Sawtimber Well	43.9	100	81-110	N/A	Some very big tamarack areas, mostly tamarack, over understory to mid canopy for and cedar. Look to try to treat maybe half the stand this entry year and half next. Few ridges in stand to work off of.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Balsam Fir	Medium	10 - 20 feet	Sapling
Quaking Aspen		10	Pole/Log	9					
Northern White Cedar		15	Pole	7					
Tamarack		55	Log/Pole	12	100				
3	6121 - Tamarack	Poletimber Medium	27.6	51	1-50	N/A	Wet stand and lower stocking. Likely not manageable ground, ok to dip into with adjacent cut if ground and timber warrants it.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		15	Pole	5		Tamarack	Medium	5 - 10 feet	Sapling
Balsam Fir		15	Pole	5					
Tamarack		70	Pole	6	51				
5	6115 - Lowland Ash	Poletimber Well	12.0	78	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Pole/Sapling	5		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar		10	Pole	7		Black Ash	Medium	10 - 20 feet	Pole
Black Ash		60	Pole/Sapling	6	78				
6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	11.4	100	1-50	N/A	Small pocket of upland for along north end. Likely won't be able to get to stand, wet ditch and from south is a no go.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		15	Log/Pole	10		Balsam Fir	Medium	< 5 feet	Sapling
Balsam Fir		25	Pole	8		Black Ash	Low	< 5 feet	Sapling
Black Ash		50	Pole	7	100				
7	4130 - Aspen	Sapling Well	21.3	5	Immature	N/A	fully regenerated to nice aspen mixed deciduous and conifer. Age class diversity - final harvest. Will need private access		
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		75	Sapling	1	5				
Red Maple		25	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
8	623 - Emergent Wetland	Nonstocked	9.8			No	wetlands with scattered fir/ash. standing water most of the year.																														
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9	6112 - Lowland Aspen	Poletimber Well	15.4	60	51-80	N/A	Rest of original stand was treated as Mecum Swamp Mix, 61-047-11-01. This is retention or was too wet.																														
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10	4130 - Aspen	Poletimber Well	7.1	41	1-50	N/A	Stand will be ready for final harvest next entry period 2021- May have private access issues																														
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11	4133 - Aspen, Mixed Pine	Sapling Well	3.0	5	1-50	N/A	Looks like they saved all for under 3" and all pine. Nice aspen regen, thick pine and for along road.																														
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White Pine	Low	Variable	Sapling																																		
13	622 - Lowland Shrub	Nonstocked	8.3			No	Scattered Black Ash and Aspen - small pocket of Aspen in SE corner < 1 acre.																														
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14	6118 - Lowland Deciduous with Cedar	Poletimber Medium	24.9	71	1-50	N/A	Not manageable ground																														
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17	6120 - Lowland Cedar	Poletimber Well	34.0	111	81-110	N/A																					
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18	4130 - Aspen	Sapling Well	32.4	16	Immature	N/A	Cut last YOE. Looks great																				
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20	623 - Emergent Wetland	Nonstocked	14.4			No	Scattered Jack Pine, White Pine and Balsam																				
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21	6123 - Lowland Fir	Poletimber Well	7.1	66	51-80	N/A	Some spruce Areas but most is fir ?? maple aspen and little birch.																				
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22	629 - Mixed non-forested wetland	Nonstocked	65.5			No	Scattered balsam,Cedar , Black Ash & Black Spruce mostly dead or dying - could also be a Low density mixed lowland trees classification. Definately non-commercial - fluctuating water levels.																				
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23	622 - Lowland Shrub	Nonstocked	11.2			No	Scattered Black Spruce, Black Ash some Cedar- drainage during high water.																																										
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24	500 - Water	Nonstocked	31.1			No	grasses and water -																																										
25	6118 - Lowland Deciduous with Cedar	Poletimber Well	14.3	83	1-50	N/A																																											
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28	4134 - Aspen, Spruce/Fir	Poletimber Well	36.2	50	51-80	N/A	final harvest now for age class diversity... stand could probably hold 10 if needed according to what the MA plan calls for.																																										
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31	623 - Emergent Wetland	Nonstocked	20.6			No	Scattered White Pine and Balsam - drainage through the north end of stand.																																										
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33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	22.7	78	1-50	N/A	When surrounding aspen is cut could cut the transition ground of this stand, nice fire and spruce around most of the stand 100' wide then to low wet and low stocked Q type																																																						
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34	4130 - Aspen	Sapling Well	15.7	16		N/A																																																							
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35	310 - Herbaceous Openland	Nonstocked	1.5			No	Old well site - scattered aspen black cherry pretty steep slopes on north end, white pine along edge of stand on slope.																																																						
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37	3301 - Low Density Deciduous Trees	Nonstocked	17.6		Immature	Managed Opening	Part of Stand has a managed opening																																																						
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38	4136 - Aspen, Mixed Conifer	Sapling Well	30.9	7	Immature	N/A	Clearcut 10/2012, Mecum Swamp Aspen, 61-038-11-01. Pretty wet along edges. Some residual hemlock, white pine, paper birch and white cedar was left but not described in Canopy Species.																																																						
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39	6124 - Lowland Spruce-Fir	Poletimber Medium	7.5	68	51-80	N/A	Mostly lowland but some bracken. Younger spruce n fir mixed with some mature as wel. Some big white pine. Looks to be manageable. Cut or hold with aspen stand.																																						
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40	4130 - Aspen	Sapling Poor	7.5	16	Immature	N/A	Could probably merge with stand 32, little more open and more fir here but will likely be managed together as they are the same age																																						
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41	4133 - Aspen, Mixed Pine	Poletimber Well	38.1	44	81-110	N/A	Healthy stand, could cut or hold, if needed to cut green tree areas heavy to pine to seed tree density if no aspen present and mark some retention along edge to save. per pre review push over some of the larger boundary trees into the adjacent swamp for hare cover																																						
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42	6120 - Lowland Cedar	Poletimber Well	39.5	76	51-80	N/A																																							
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43	6118 - Lowland Deciduous with Cedar	Poletimber Medium	78.2	78	1-50	N/A	Heavier Spruce/Fir BA to the north end of stand- Stand very wet, no opportunity for harvests at this time. small habitat cut on ridge in stand and regenerated very nicely.																																						
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44	622 - Lowland Shrub	Nonstocked	66.9			No	North Banch of the Manistee River corridor - Tag Alder - Willow lowlands																																						
45	6115 - Lowland Ash	Poletimber Medium	29.3	60	1-50	N/A	Not manageable ground																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46	6118 - Lowland Deciduous with Cedar	Poletimber Well	75.9	50	1-50	N/A	wet. ERA area, Not manageable ground.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole	6	
Northern White Cedar	30	Pole	7	
Black Ash	60	Pole	6	50

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Alder	Medium	5 - 10 feet	Tall Shrub

47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	26.9	98	81-110	N/A	wet ground, doesn't look to be manageable ground and this area is in ERA for Swamp conifer complex.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	7	
Quaking Aspen	10	Pole	7	
Black Spruce	10	Pole	8	98
White Pine	10	Log/Pole	12	
Northern White Cedar	35	Pole	7	98
Black Ash	15	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

48	3105 - Mixed Upland Herbaceous	Nonstocked	2.1			Managed Opening	Old well site - with scattered Red Maple and Cherry
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Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High		Non-Wood
Black Cherry	Trace		Log
Poverty Grass	Low		Non-Wood
Red Maple	Trace		Pole

49	4311 - Pine, Aspen Mix	Sapling Well	35.4	5	Immature	N/A	Stand was harvested and has regenerated nicely to mixed jack pine - aspen-red maple.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	45	Sapling	1	5
Quaking Aspen	25	Sapling	1	5
Black Cherry	10	Sapling	1	5
Red Maple	20	Sapling	1	5

50	3103 - Rubus-Fern	Nonstocked	2.8			Managed Opening	Scattered Black Cherry, Red Maple and Aspen - Jack Pinewill make excellent landing for adjacent Jack Pine harvest/ coordinate any opening maintenance with harvest or wait until harvest is complete.
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Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Trace		Pole
Red Maple	Trace		Pole
Poverty Grass	High		Non-Wood
Jack Pine	Trace		Pole
Bracken Fern	High		Non-Wood
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
51	4130 - Aspen	Sapling Well	9.1	6	Immature	N/A	site has great aspen regen with mixed deciduous and mixed conifer.																																										
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52	4319 - Mixed Upland Forest	Poletimber Well	24.9	65	81-110	N/A	Took out wettest portion of stand. Most is mixed fir, aspen, maple and pine.																																										
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53	3101 - Poverty Grass, Cladonia	Nonstocked	6.2			No	Scattered Aspen and Cherry																																										
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54	42220 - Natural Jack Pine	Sapling Medium	21.8	16	Immature	N/A																																											
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55	3301 - Low Density Deciduous Trees	Nonstocked	6.7			No	Scattered Cherry, Aspen																																										
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56	4130 - Aspen	Poletimber Well	31.9	57	1-50	N/A	Some sparse and some is decent. Save fir Under 6" and maybe all red n white pine to seed in as this is pine ground.																																										
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57	42220 - Natural Jack Pine	Poletimber Well	9.8	66	51-80	N/A	bulk of stand burned up in july 2018 wildfire, salvage sale being done in the sale area.																																										
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58	4130 - Aspen	Poletimber Well	20.7	61	51-80	N/A	Portions of stand burned in July 2018. Cutting this stand with surrounding burned area to regenerate to aspen. Cutting out of YOE via chapter 7 to salvage dead wood																																
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60	3102 - Grass	Nonstocked	22.6			Managed Opening	Scattered Aspen/Cherry/grass, cutting with surrounding burn area... this area has less aspen and cherry and should stay pretty open post harvest.																																
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61	4311 - Pine, Aspen Mix	Poletimber Well	19.5	57	1-50	N/A	White and Red Pine along stand edges and scattered thoguhtout, some is pretty thick in areas and more of a pine coverytype.but overall aspen throughout. final harvest now except leave some red and white pine to help with windbreak on snowmobile trail and to help with visual.																																
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62	3101 - Poverty Grass, Cladonia	Nonstocked	51.0			Managed Opening	Scattered Cherry, Aspen/ upland brush/grass																																
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63	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Medium	15.6	16	Immature	N/A	Bulk of stand burned July 2018. Doing salvage harvest here for burn area																																
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64	122 - Road/Parking Lot	Nonstocked	3.7			Managed Opening	Sunset Trail/ county road																																
65	4133 - Aspen, Mixed Pine	Poletimber Well	19.6	56	51-80	N/A	Aspen but some areas of thick red pine. Some younger understory pine too. Final harvest but save some pine																																
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66	42220 - Natural Jack Pine	Poletimber Well	37.8	67	51-80	N/A	High mortality in jack pine - should harvest , naturally regenerate to mixed jack pine -aspen-red maple																																														
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67	42210 - Natural Red Pine	Poletimber Poor	4.4	63	1-50	N/A	Stand was harvested in 2012, all red pine was left.																																														
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68	4130 - Aspen	Sapling Well	29.7	6	Immature	N/A	Cut Feb-Mar 2013, Mecum Swamp Mix, 61-047-11-01. Some difficulty freezing in road. Left all paper birch and oak, and black cherry and balsam fir < 6" dbh.																																														
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69	6112 - Lowland Aspen	Poletimber Well	16.9	59	51-80	N/A	Age class diversity - final harvest. Will need private access																																														
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70	42340 - Upland Spruce/Fir	Poletimber Well	25.9	98	81-110	N/A	Separated this stand out from stand to the west. this area is more transition ground mixed spruce fir Maple and Aspen, mature to over mature, final harvest but ok to save some white pine and 3-10% retention.																																														
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71	6139 - Mixed Lowland Forest	Poletimber Well	7.4	65	1-50	N/A	This seemed to be the wettest area of stand to the west, not merchantable ground or timber.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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72	6130 - Fir, Aspen, Maple	Poletimber Well	7.7	65	1-50	N/A	Southern half of stand has a bit higher Aspen BA. this is area of stand to the west that burned July 2018. Mostly scorched fir and spruce with some maple and aspen here. Cutting with salvage sale
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	45	Pole	8	65	Quaking Aspen	Low	< 5 feet	Sapling
Balsam Fir	20	Pole	7		Balsam Fir	Medium	< 5 feet	Sapling
Northern White Cedar	10	Pole	7					
Tamarack	20	Pole	7					

73	42290 - Natural Mixed Pine	Poletimber Well	7.5	44	141-170	N/A	Healthy stand, could cut or hold, if needed to cut green tree to seed tree density, will likely push to red maple and aspen mixed with red and white pine.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Pole	6	44	Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	35	Log/Pole	10		Red Maple	Medium	10 - 20 feet	Sapling
Red Pine	45	Log/Pole	10					