

## **Compartment Review Presentation**

**Traverse City Forest Management Unit** 

Compartment 61021 Entry Year 2022 Acreage: 1,469

County Benzie

Management Area: Benzie Outwash

Revision Date: 2020-07-27 Stand Examiner: Craig Allen

**Legal Description:** 

T25N-R13W; sections 3, 10, 15

Colfax Township of Benzie County, Michigan

## **Identified Planning Goals:**

Compartment 21 is a part of the Benzie Outwash management area (MA). Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character, including the Betsie River which is a designated natural river; and threatened, endangered and special concern species and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially emerald ash borer and beech bark disease.

### Soil and topography:

The terrain is mostly level, particularly in section 15. The soils in the area are mostly Deer Park fine sands, Kalkaska-Rubicon association with Roscommon-AuGres-Croswell association in the lowland areas.

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

Compartment 21 is part of a large contiguous block of State land ownership around the Grass Lake flooding and Betsie River system. There are some large blocks of private ownership within the compartment. Most of this private land is undeveloped, although there are a few scattered year-round houses and seasonal cabins mainly fronting or near the Betsie River. There are no paved roads within the compartment; however, Reynolds road is heavily traveled as a seasonal County gravel road.

### **Unique Natural Features:**

The Betsie River, flowing through the middle of the compartment. The Betsie River system is a Michigan Natural River. The designation begins at the Grass Lake Dam, then extending downstream to its mouth at Betsie Lake in Frankfort and includes all tributaries.

### Archeological, Historical, and Cultural Features:

Early Native Americans would commonly establish settlements, camps and trails along the River/ creek corridors. There are also a few old homestead sites within or near the compartment. There are old railroad grades within or near the compartment that were used during the original logging operations in this area and used for various transportation reasons connecting communities around the turn of the 20th century.

### **Special Management Designations or Considerations:**

All proposed land management activities near the Betsie River should reference the Betsie River Natural River Plan for guidance and consideration.

### Watershed and Fisheries Considerations:

This compartment contains portions of the Betsie River near the Grass Lake Dam. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) and restrictions should be adhered to around all streams in this compartment. The Betsie River and its tributaries in this areas are cool/warm water streams; existing buffers appear to be appropriate for the proposed treatments. (Comments by Heather Hettinger, DNR Fisheries Management Biologist).

### Wildlife Habitat Considerations:

This compartment falls onto two different glacial formations, or land type associations (LTA). State lands in sections 3 and 10 are part of a broad, flat outwash plain with excessively drained sandy soils. These upland areas should continue to be managed for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings.

consistent with the fire-driven dynamics that historically shaped vegetation on this LTA. Where harvesting is to occur in these types, we should maintain within stand structural diversity by retaining various leave trees (particularly mast producers), snags, and down logs. Tops should be left unchipped and scattered around the sale area, preferably in piles for wildlife cover. The hilly landscape in the northwest corner of section 3 should be managed for uneven-aged northern hardwoods. Several openings need treatment, including warm season grass/forb maintenance and possibly some planting of native fruiting shrubs. As red pine plantations approach final harvest, conversion of some stands to more natural mixes of forest vegetation should be considered. Also, incorporating small (2-5 acre) islands that are left relatively un-thinned within mature pine stands would provide winter roosting cover for turkeys. There are several wetland inclusions within this dry outwash plain that support lowland tree and shrub communities. Such stands could be cut in small patches but may not regenerate well in wet periods. Aside from some small, periodic patch cuts, these low areas should mostly be allowed to succeed to uneven-aged red maple and balsam fir dominated stands.

State lands in section 15 are part of the Little Betsie GEMS (Grouse Enhanced Management System). This section of State land is part of a poorly drained, flat outwash plain. This swamp complex does include scattered dry sandy ridges with upland aspen communities. These upland aspen stands should be included into the cutting plans of the GEMS site if they can be commercially accessed. Non-commercial cuts should be considered if commercial access is unattainable. Small habitat cuts near (but >50' from) the Betsie River may enhance habitat conditions for riparian associates requiring young deciduous habitat. Parts of the lowland deciduous forest in section 15 (and in section 03) has been treated in the past with mediocre results. Habitat cuts here should be small and carefully designed to optimize regeneration and to mimic naturally occurring blowdown pockets. (Comments by Steve Griffith, DNR Wildlife Biologist).

### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. There is no current economic use for the Ellsworth Shale. The nearest gravel pit is within two miles to the west in the SW of Section 8. Gravel potential in the compartment is considered good. This area is located northwest of the Antrim Shale gas play. There are no current leases for oil and gas development, but the Antrim Shale appears to have potential. This area is just north of the Niagaran reef trend, but potential is limited. A "deep" Prairie du Chien Field is located in section 24, but production was minor (< 100,000 mcf

### **Vehicle Access:**

There are many gravel and seasonal county roads throughout the compartment within this area offering good access to State lands. There are also many forest "2-track" state forest roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility.

## **Survey Needs:**

There are no known survey needs at this time.

### **Recreational Facilities and Opportunities:**

The Platte River Snowmobile trail travels through the entire length of this compartment. It travels on and off seasonal county roads. Other popular recreational activities enjoyed on these lands include, hiking, biking, hunting, fishing, trapping, kayaking, orv riding, mushroom hunting and dispersed camping.

### **Fire Protection:**

DNR Wildfire Protection is accomplished primarily out of the Traverse City office. Access in this compartment is good. There are scattered residences within this compartment, but urban interface issues are not too much of a concern. Mesic Cover types in this area do not normally support large catastrophic fires. Volunteer fire departments in the area also assist in wildfire response.

## **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

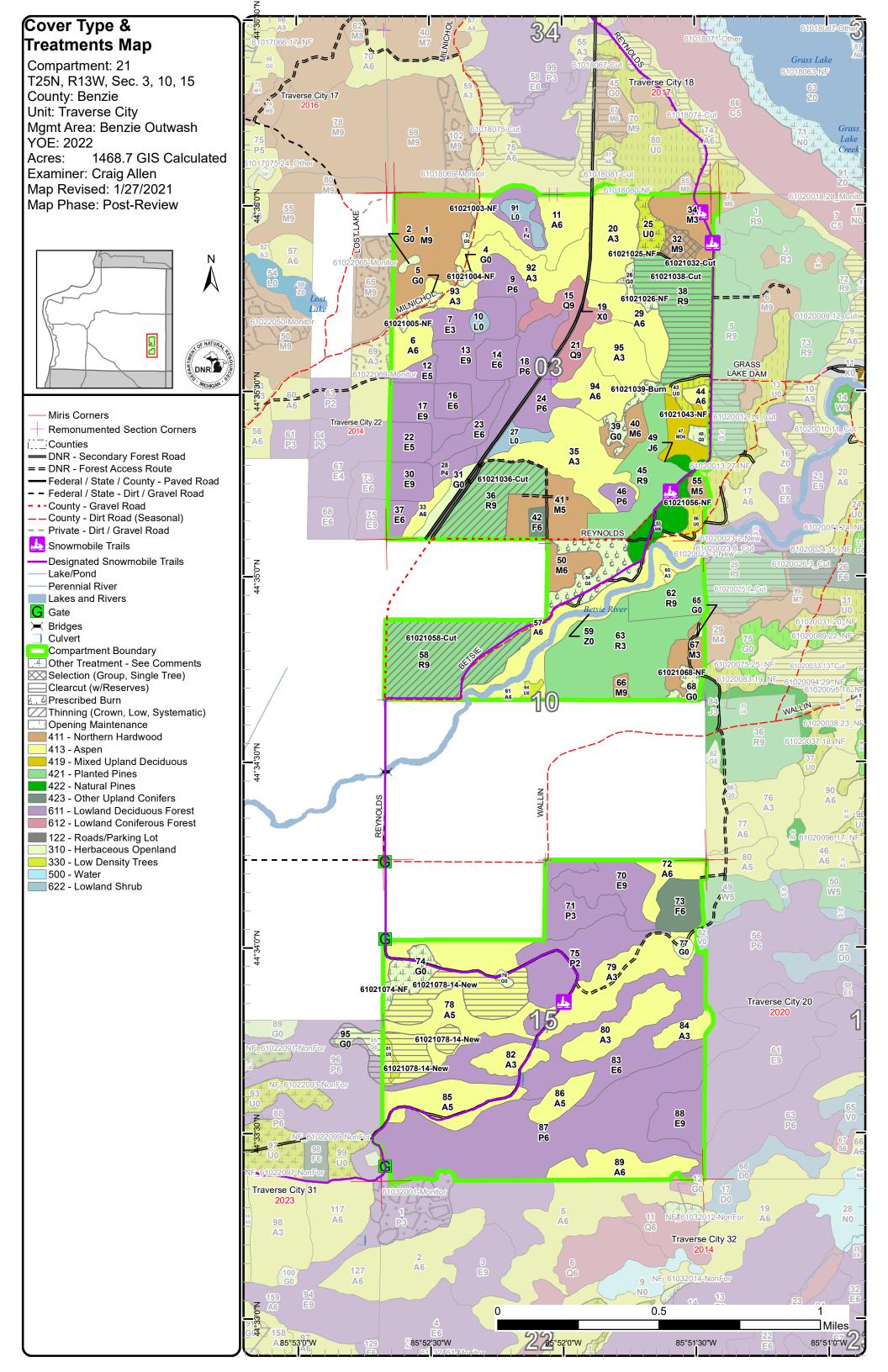
The following information is displayed, where pertinent, on the attached compartment maps:

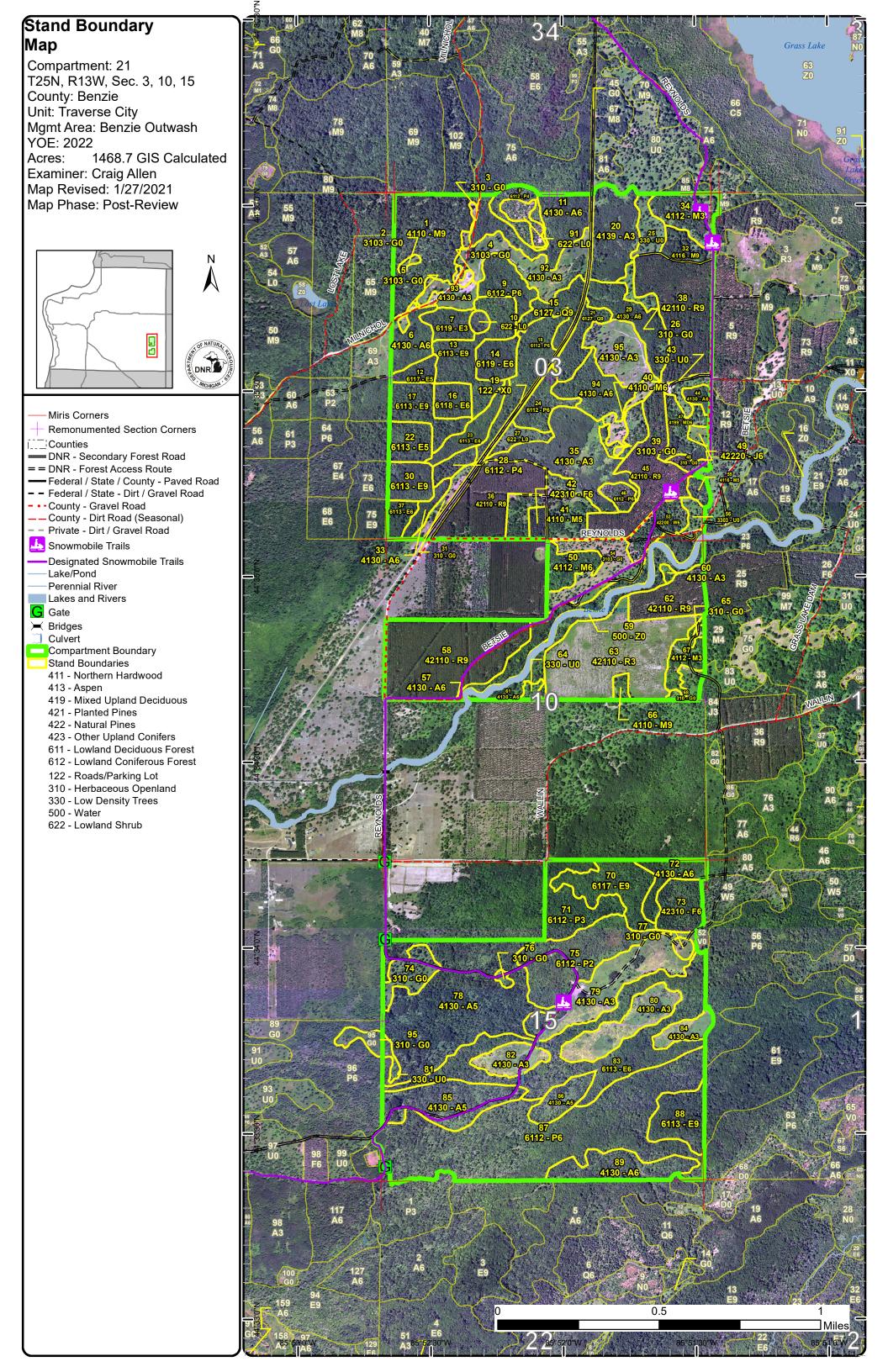
Base feature information, stand boundaries, cover types, and numbers

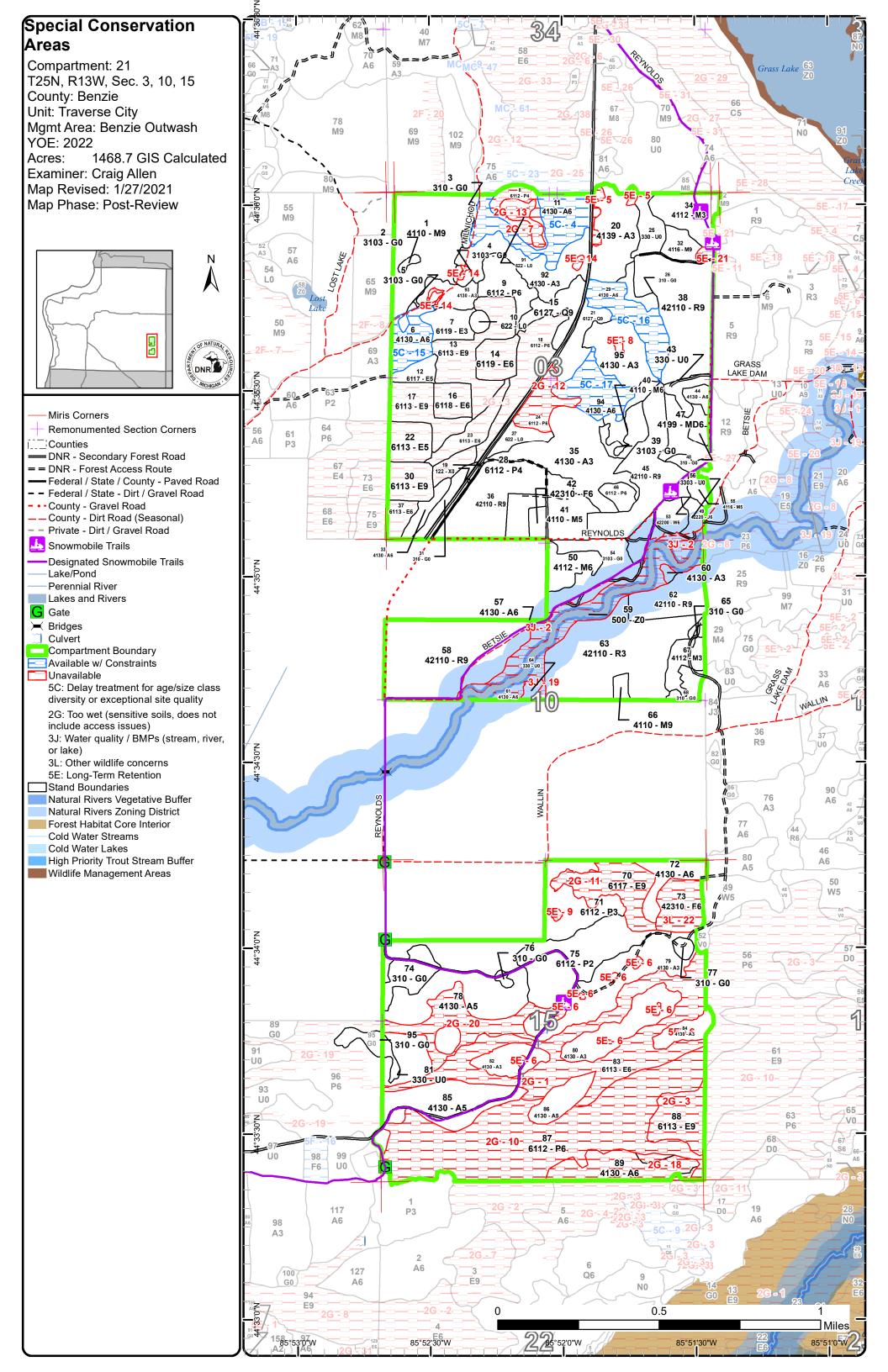
**Proposed treatments** 

Site condition boundaries

Details on the road access system







Craig Allen: Examiner

it Compartment 21 Year of Entry 2022



### Age Class

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	, Age	Kor C											70,7					No.	To To
Aspen	0	123	62	0	8	158	73	0	37	0	0	0	0	0	0	0	0	0	461
Herbaceous Openland	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Jack Pine	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Aspen/Balsam Poplar	0	21	0	0	13	162	40	8	0	0	0	0	0	0	0	0	0	0	243
Lowland Conifers	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	58	71	0	73	0	17	0	0	0	0	0	0	0	0	219
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	68	0	0	0	2	8	42	0	0	0	0	0	0	0	120
Red Pine	0	61	0	0	0	0	0	31	150	0	0	0	0	0	0	0	0	0	242
Upland Spruce/Fir	0	0	0	0	0	0	14	3	0	0	0	0	0	0	0	0	0	0	17
Urban	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Total	117	205	62	0	164	403	127	136	189	25	42	0	0	0	0	0	0	0	1469



## **Report 2 – Treatment Summary**

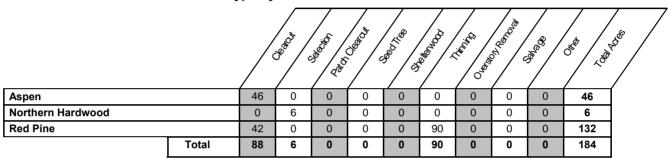
Traverse City Mgt. Unit Year of Entry: 2022

### **Acres of Harvest**

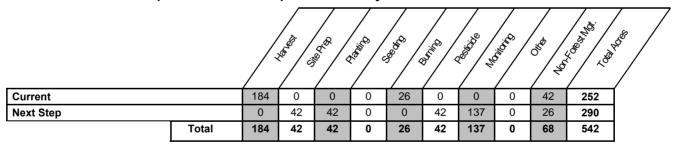
Compartment 21
Total Compartment Acres: 1,469

Commercial Harvest - 138 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 46

## **Cover Type by Harvest Method**



## **Proposed and Next Step Treatments by Method**



Report 3 -- Treatments

Compartment: 21 Year of Entry: 2022



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

### **Proposed Treatments:**

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3 61021003-NF 1.4 310 - Herbaceous Nonstocked Unspec NonForestMgt Herbaceous/Crop 3105 - Mixed No Openland ified /Grass Planting Upland Herbaceous

Prescription Specs: Work around any beneficial vegetation (raspberry patch, mast bearing shrub) to maintain the wildlife planting in an appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, reseeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment and invasives. May want to plant some mast producing trees/shrubs and create brush piles for cover.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

4 61021004-NF
1.4 3103 - Rubus-Fern Nonstocked Unspec NonForestMgt Herbaceous/Crop 3105 - Mixed No ified /Grass Planting Upland Herbaceous

Prescription Specs: Work around any beneficial vegetation (raspberry patch, mast bearing shrub) to maintain the wildlife planting in an appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, reseeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment and invasives. May want to plant some mast producing trees/shrubs and create brush piles for cover.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

5 61021005-NF 2.0 3103 - Rubus-Fern Nonstocked Unspec NonForestMgt Herbaceous/Crop 3105 - Mixed No ified /Grass Planting Upland Herbaceous

Prescription Specs: Work around any beneficial vegetation (raspberry patch, mast bearing shrub) to maintain the wildlife planting in an appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, reseeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment and invasives. May want to plant some mast producing trees/shrubs and create brush piles for cover.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Report 3 -- Treatments

Compartment: 21 Year of Entry: 2022

а **Treatment** Stand BA **Treatment** Treatment **Cover Type** Acres Stand Size Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d

25 61021025-NF 7.9 330 - Low-Density Nonstocked Unspec NonForestMat Fruit Tree/Shrub 3204 - Mast Planting Producing Shrub Trees ified

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and Specs: shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

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Acceptable Regen:

Other

May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody Comment: encroachment.

Site Condition

Proposed Start Date: 10/1 /2021

61021026-NF 3.7 310 - Herbaceous Nonstocked Unspec NonForestMqt Fruit Tree/Shrub 3204 - Mast No Openland ified Planting Producing Shrub

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. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and Specs: cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

**Acceptable** Regen:

May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix Other (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody Comment: encroachment.

Site Condition

Proposed Start Date: 10/1 /2021

Group Selection 4116 - Mixed N. 61021032-Cut 6.3 4116 - Mixed N Sawtimber 86 51-80 Harvest Two-Aged No Hardwood - Aspen Well Hardwood -Aspen

Prescription Harvest to regen and expand aspen component. Cut all aspen and select cut all other hardwood species leaving better form/health individuals as species diversity within stand. Leave all pine. Leave small hill area near road out of the sale boundary as long-term retention. Specs: Add drumming spec.

Monitoring, Natural Regen (Re-Inventory)

Next Step Treatments:

Acceptable aspen, maple, cherry, white pine,

Regen:

<u>Other</u> Comment:

Site Condition

30.9

42110 - Planted

Red Pine

Sawtimber

Well

Report 3 -- Treatments

Compartment: 21 Year of Entry: 2022

Even-Aged

Nο

4211 - Planted

Red Pine

s t а

36

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

Harvest

Crown Thinning

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

171-

200

Next Step Treatments:

61021036-Cut

<u>Acceptable</u> Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61021038-Cut 423 42110 - Planted Sawtimber 141-Harvest Clearcut 4211 - Planted Even-Aged Nο Red Pine Well 170 Red Pine

Prescription Clearcut and replant red pine plantation. Site prep may be necessary prior to replant. Specs:

Next Step SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Replant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable red pine

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2021

6.1 3103 - Rubus-Fern Nonstocked 3105 - Mixed 39 61021039-Unspec Burn Opening No ified Upland Burn Herbaceous

Prescription Specs:

Burn on a rotational basis. 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. planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify Treatments:

<u>Acceptable</u> Regen:

Other Comment: Stand objective is a barrens type community. Brush hog around select leave trees and/or patches but terrain is pretty bumpy. If unable to brush hog, 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. Maintain pockets of thick stem density such as aspen or clonal shrubs for thickets of cover/browse. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody

encroachment.

Site Condition

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 21 S Year of Entry: 2022 t а **Treatment** Stand BA **Treatment** Treatment **Cover Type** Acres Stand Size Age Habitat n Age Method Objective Name CoverType Density Range Type Structure Cut Ч 43 61021043-NF 4.8 330 - Low-Density Nonstocked Unspec NonForestMqt Herbaceous/Crop 3105 - Mixed /Grass Planting Upland Trees ified Herbaceous Prescription Stand objective is a barrens type community. Brush hog around select leave trees and/or patches but terrain is pretty bumpy. If unable to brush hog, selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees Specs: and shrubs and/or conifers for wildlife food and cover. Maintain pockets of thick stem density such as aspen or clonal shrubs for thickets of cover/browse. 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 /2021 61021048-NF 2.1 310 - Herbaceous Nonstocked Unspec NonForestMgt Herbaceous/Crop 3105 - Mixed No Openland Upland ified /Grass Planting Herbaceous Stand objective is a barrens type community. Brush hog around select leave trees and/or patches but terrain is pretty bumpy. If unable to Prescription brush hog, selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees Specs: and shrubs and/or conifers for wildlife food and cover. Maintain pockets of thick stem density such as aspen or clonal shrubs for thickets of cover/browse. 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 /2021

19.9 3103 - Rubus-Fern Nonstocked 3105 - Mixed 54 61021054-Unspec Burn Opening Nο Burn ified Upland Herbaceous

Specs:

Prescription Burn on a rotational basis. 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, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step

NonForestMat, Other - Specify

**Treatments:** 

Acceptable Regen:

Other Comment: Stand objective is a barrens type community. Brush hog around select leave trees and/or patches but terrain is pretty bumpy. If unable to brush hog, 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. Maintain pockets of thick stem density such as aspen or clonal shrubs for thickets of cover/browse. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Site Condition

Report 3 -- Treatments

Compartment: 21 Year of Entry: 2022

Upland

Herbaceous

/Grass Planting

**Treatment** Stand BA **Treatment** Treatment **Cover Type** Acres Stand Size Age Habitat n Method Objective Name CoverType Density Age Range Type Structure Cut d 56 61021056-NF 3303 - Mixed Low Nonstocked Unspec NonForestMat Herbaceous/Crop 3105 - Mixed Nο

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Specs:

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Prescription Stand objective is a barrens type community. Brush hog around select leave trees and/or patches but terrain is pretty bumpy. If unable to brush hog, 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. Maintain pockets of thick stem density such as aspen or clonal shrubs for thickets of cover/browse. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment

Next Step Treatments:

Acceptable

Regen:

Other Use annual forage planting as site prep for planting.

**Density Trees** 

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61021058-Cut 58.7 42110 - Planted Sawtimber 72 171-Harvest Crown Thinning 4211 - Planted Even-Aged No Red Pine Well Red Pine 200

Prescription Thin stand by select marking individual trees to harvest approximately 1/3 of trees. Primarily focus on marking poor form, suppressed, Specs: 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:** 

<u>Acceptable</u> Regen:

<u>Other</u> Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61021068-NF 4.6 310 - Herbaceous Nonstocked Unspec NonForestMgt Fruit Tree/Shrub 3204 - Mast No 0 Producing Shrub Openland ified Planting

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and Specs: shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Other 1 4 1 Comment:

May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody

encroachment.

Site Condition

Report 3 -- Treatments

Compartment: 21 Year of Entry: 2022

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

74 61021074-NF 11.1 310 - Herbaceous Nonstocked Unspec NonForestMgt Fruit Tree/Shrub Planting Openland ified

3204 - Mast Producing Shrub

Specs:

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. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and

cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step Treatments:

Acceptable Regen:

Other

May want/need to plant herbaceous species for wildlife forage needs. Consider an appropriate native species, but don't rule out pasture mix (i.e. alfalfa/clover). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody Comment:

encroachment.

Site Condition

Proposed Start Date: 10/1 /2021

61021078-14-46.0 4130 - Aspen Poletimber 46 Unspec Harvest Clearcut with 4139 - Aspen, Even-Aged Yes Medium ified Mixed Retention New Deciduous

Clearcut stand to regenerate and expand aspen. Long term retention in drainage areas as outlined by site condition layer. Mark to leave any unique large red maple and/or cherry. Also, leave all conifers. Leave any oak that may be present. Add drumming log spec. This Specs:

harvest will extend slighly into adjacent compartment to the west due to topography.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable aspen, maple, cherry

Regen: Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61022095-Cut 8.4 310 - Herbaceous Nonstocked Harvest Clearcut with 4139 - Aspen, Even-Aged No Mixed Openland Retention Deciduous

Prescription Clearcut stand to regenerate and expand aspen. Long term retention in drainage areas as outlined by site condition layer. Mark to leave any unique large red maple and/or cherry. Also, leave all conifers. Leave any oak that may be present. Add drumming log spec. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, cherry

Regen:

Other

This area is being harvested now to go along with adjacent harvest to the east in compartment 21 for access purposes.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

**Total Treatment** 261.7 Acreage Proposed:

Craig Allen: Examiner

Compartment: 21
Year of Entry: 2022

### **Availability for Management** Total Acres Avail Acres Acres **Dominant Site Conditions** With Condition Not Available Available 5C 2G 3J 3L 5E Acres Aspen Herbaceous Openland Jack Pine Low-Density Trees Lowland Aspen/Balsam Poplar **Lowland Conifers Lowland Deciduous** Lowland Shrub **Mixed Upland Deciduous** Northern Hardwood **Red Pine** Upland Spruce/Fir Urban Water White Pine 1,469 **Total Forested Acres** 33% 62% Relative Percent 5%

\*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)	71	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> seasonal drainage a	rea					
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Betsie River corridor						

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit

Craig Allen: Examiner

Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: delay cut to stagge	r age classes in the areaadja	cent stan	ds recently cut.			
Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:						
	Comments:  Available  Comments: delay cut to stagge Unavailable Comments:  Unavailable Comments:  Unavailable Comments:  Unavailable Comments:	Soils, does not include access issues)  Comments:  Available 5C: Delay treatment for age/size class diversity or exceptional site quality  Comments: delay cut to stagger age classes in the areaadjadular Unavailable 5E: Long-Term Retention  Comments:  Unavailable 5E: Long-Term Retention  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention  Comments:  Unavailable 5E: Long-Term Retention  Comments:	Soils, does not include access issues)  Comments:  Available 5C: Delay treatment for age/size class diversity or exceptional site quality  Comments: delay cut to stagger age classes in the areaadjacent stan  Unavailable 5E: Long-Term Retention 3  Comments:  Unavailable 5E: Long-Term Retention 3  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 1  Comments:  Unavailable 5E: Long-Term Retention 1  Comments:	Soils, does not include access issues)  Comments:  Available 5C: Delay treatment for age/size class diversity or exceptional site quality  Comments: delay cut to stagger age classes in the areaadjacent stands recently cut.  Unavailable 5E: Long-Term Retention 3 Unspecified  Comments:  Unavailable 5E: Long-Term Retention 3 Unspecified  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified	Soils, does not include access issues)  Comments:  Available 5C: Delay treatment for age/size class diversity or exceptional site quality  Comments: delay cut to stagger age classes in the areaadjacent stands recently cut.  Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified  Comments:	Soils, does not include access issues)  Comments:  Available 5C: Delay treatment for age/size class diversity or exceptional site quality  Comments:  delay cut to stagger age classes in the areaadjacent stands recently cut.  Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 3 Unspecified Unspecified Unspecified  Comments:  Unavailable 2G: Too wet (sensitive soils, does not include access issues)  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified  Comments:  Unavailable 5E: Long-Term Retention 1 Unspecified Unspecified Unspecified  Comments:

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit
Craig Allen: Examiner

10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	119	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
C	Comments:						
14	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
	comments: etention island wit	hin surrounding aspen stand.					
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
S	comments: Stands on 2 sides rea.	where harvested in 2014 wait	to harves	t this stand, along with k	kitty corner stand 70 in comp	o22 in order to better stage	ger aspen age classes

## Report 4 - Site Conditions

**Traverse City Mgt. Unit** Compartment: 21 Year of Entry: 2022 Craig Allen: Examiner Unspecified Unspecified 16 Unspecified Unspecified **Available** 5C: Delay treatment for 19 age/size class diversity or exceptional site quality **Comments:** Wait another 10 years to cut to create more staggered age classes with adjacent aspen stand that is only 5 years old (cut 2014). Harvest this stand along with stand 94. Also, thin adjacent stand 21 when these stands are cut. 17 Unspecified Unspecified Unspecified Unspecified **Available** 5C: Delay treatment for 17 age/size class diversity or exceptional site quality Comments: Wait another 10 years to cut to create more staggered age classes with adjacent aspen stands that are 4 years old and 17 years old respectively. Harvest this stand along with stand 29. Unspecified Unspecified 18 Unavailable 2G: Too wet (sensitive 22 2H: Blocked by physical Unspecified obstacle (e.g. upland soils, does not include stand in a lowland area) access issues) **Comments:** Unspecified 19 Unavailable 3J: Water quality / BMPs Unspecified Unspecified Unspecified 17 (stream, river, or lake) **Comments:** Betsie River corridor 20 5E: Long-Term Retention Unspecified Unspecified Unspecified Unavailable 2G: Too wet (sensitive 24 soils, does not include access issues) **Comments:** 

Unspecified

Unspecified

Unspecified

2

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Unavailable

Comments:

5E: Long-Term Retention

21

Unspecified

# **Report 4 – Site Conditions**

Traverse City Mgt. Unit

Compartment: 21 Year of Entry: 2022 Craig Allen: Examiner

22	Unavailable	3L: Other wildlife concerns	14	Unspecified	Unspecified	Unspecified	Unspecified
С	omments:						

1/21/2021 11:11:47 AM - Page 5 of 5 **BORUSZEWSKIA**  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				

Traverse City Mgt. Unit Compartment: 21





## 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.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area				
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries	es to persist from year to year. Suitable by are relatively deep, have substantial the state. Such lakes are established by				
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condistocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial				
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sp approved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locat folder.	Zoning District is a 400 foot buffer for 00 feet. To view specific Zoning Districts				



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
1	4110 - Sugar N	Maple Assoc	ciation	Sawtimb	er Well			81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	80	Log/Pole	12	91	Sug	ar Maple	Medium	Variable	Pole	
	Red Maple	3	Log/Pole	12		Е	Beech	Medium	Variable	Sapling	
	Basswood	14	Log/Pole	12		Е	Beech	Medium	Variable	Pole	
	Beech	3	Log/Pole	12		Irc	nwood	Low	< 5 feet	Sapling	
2	3103 - F	Rubus-Fern		Nonsto	ocked	1.2	L	Inspecified	No		opening was planted with spruce in april 2002 by Wildlife. see FTP W-61 384
3	310 - Herbac	ceous Open	land	Nonsto	ocked	1.4	ι	Inspecified	No		
4	3103 - F	Rubus-Fern		Nonsto	ocked	1.4	L	Inspecified	Managed Op	pening	
5	3103 - F	Rubus-Fern		Nonsto	ocked	2.0	L	Inspecified	Managed Op	pening	
6	4130	- Aspen		Poletimb	er Well	12.2	55 L	Inspecified	N/A		also contains some scattered fir.
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	15	Pole/Log	8	55	Re	d Maple	High	Variable	Sapling	
	Bigtooth Aspen	82	Pole/Log	9	55						
	Black Cherry	3	Pole/Log	8							
7	6119 - Mixed Lo	owland Deci orest	duous	Sapling	g Well	8.4	37 L	Inspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Red Maple	55	Sapling/Pol		37		rican Elm	Low	Variable	Sapling	
	Paper Birch	10	Sapling/Pol	e 4	37	Re	d Maple	High	Variable	Sapling	
	Quaking Aspen	30	Pole/Saplin	g 5	37	Ta	g Alder	Low	< 5 feet	Tall Shrub	
	Balsam Fir	5	Sapling/Pol	e 4	37					'	
8	6112 - Lo	wland Aspe	n	Poletimb	er Poor	8.4	61 L	Inspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	I Age	Sub-Car	nopy Species	Density	Avg. Height	Size	
	Quaking Aspen	85	Pole	6	61	Wh	ite Pine	Medium	5 - 10 feet	Sapling	
	Red Maple	10	Pole/Saplin	g 5		Wh	ite Pine	Medium	>20 feet	Pole	
	White Pine	5	XLog/Log	18			Alder	Medium	5 - 10 feet	Tall Shrub	
		,		,		Re	d Maple	Low	10 - 20 feet	Sapling	
					-	Blueberry/B			5 - 10 feet		4



Stan	d Level 4 Co	over Type	S	ize De	ensity	Acres	Stand Age	BA Range	Managed S	Site	General Comments
9	6112 - Lov	vland Aspe	n Po	oletimb	er We	ll 12.5	37	Unspecified	N/A		
	Canopy Species	% Cover	Size Class		l Age	Sub-Ca	nopy Spec		Avg. Height	Size	
	Red Maple	30	Pole/Sapling	6	37		d Maple	High	Variable	Sapling	
	Quaking Aspen	50	Pole/Sapling	6	37	Pa	per Birch	Low	Variable	Sapling	
	Balsam Fir	3	Pole/Sapling	6	37	Qual	king Aspen	Medium	Variable	Sapling	
	Paper Birch	3	Pole/Sapling	6							
	Bigtooth Aspen	14	Pole/Sapling	6							
10	622 - Low	vland Shrub	)	Nonst	ocked	2.3		Unspecified	No		
11	4130	- Aspen	Po	oletimb	er We	ll 25.0	55	Unspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Spec	ies Density	Avg. Height	Size	
	Red Maple	20	Pole/Log	8		Re	d Maple	High	Variable	Sapling	
	Quaking Aspen	67	Pole/Log	8	55						
	White Pine	3	Pole/Log	8							
	Black Cherry	10	Pole/Log	9							
12	Coni	iferous			r Mediu		37	Unspecified	N/A		
12	Coni	iferous % Cover	Size Class	DBI	l Age	Sub-Ca	nopy Spec	ies Density	Avg. Height	Size	
12	Canopy Species Red Maple	% Cover	Size Class Pole/Sapling	<b>DB</b> H 5	<b>Age</b> 37	Sub-Ca				Size Tall Shrub	
12	Canopy Species Red Maple Paper Birch	% Cover 40 20	Size Class Pole/Sapling Pole/Sapling	<b>DBH</b> 5 5	37 37	Sub-Ca	nopy Spec	ies Density	Avg. Height		
12	Canopy Species Red Maple Paper Birch Quaking Aspen	## Cover 40 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Pole/Sapling Pole/Sapling Pole/Sapling	<b>DBH</b> 5 5 5	37 37 37	Sub-Ca	nopy Spec	ies Density	Avg. Height		
	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir	## Cover 40 20 10 25	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling	5 5 5 5	37 37	Sub-Ca	nopy Spec	ies Density	Avg. Height		
	Canopy Species Red Maple Paper Birch Quaking Aspen	## Cover 40 20 10 10 10 10 10 10 10 10 10 10 10 10 10	Size Class Pole/Sapling Pole/Sapling Pole/Sapling	<b>DBH</b> 5 5 5	37 37 37	Sub-Ca	nopy Spec	ies Density	Avg. Height		
	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar	## Cover	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole	5 5 5 7 awtimb	37 37 37 37 37	Sub-Ca	nopy Spec	ies Density	Avg. Height Variable N/A		
Ne	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species	## Cover   40   20   10   25   5     5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole Size Class	5 5 5 7 awtimb	37 37 37 37 37 9er Wel	Sub-Ca	nopy Spec Alder  61 nopy Spec	Density High Unspecified ies Density	Avg. Height Variable  N/A  Avg. Height	Tall Shrub	
Ne	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar	## Cover	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole	5 5 5 7 awtimb	37 37 37 37 37 9er Wel	Sub-Ca	nopy Spec Alder  61  nopy Spec d Maple	Unspecified ies Density  High	Avg. Height  Variable  N/A  Avg. Height  Variable	Size Sapling	
Ne	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species	## Cover   40   20   10   25   5     5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole Size Class	5 5 5 7 awtimb	37 37 37 37 37 9er Wel	Sub-Ca  Sub-Ca  Sub-Ca	nopy Spec Alder  61  nopy Spec d Maple Beech	Unspecified ies Density High  Unspecified Low	Avg. Height Variable  N/A  Avg. Height Variable Variable	Size Sapling Sapling	
Ne	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species	## Cover   40   20   10   25   5     5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole Pole Size Class	5 5 5 7 awtimb	37 37 37 37 37 9er Wel	Sub-Ca  Sub-Ca  Sub-Ca	nopy Spec Alder  61  nopy Spec d Maple	Unspecified ies Density  High	Avg. Height Variable  N/A  Avg. Height Variable Variable	Size Sapling	
No	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species Red Maple	## Cover   40   20   10   25   5     25     5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole  Sapling Pole  Log/Pole	5 5 5 7 awtimb 12	1 Age 37 37 37 37 37 4 Age 61 61	Sub-Ca  Sub-Ca  Sub-Ca	nopy Spec Alder  61  nopy Spec d Maple Beech	Unspecified ies Density High  Unspecified Low	Avg. Height Variable  N/A  Avg. Height Variable Variable	Size Sapling Sapling	
13	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species Red Maple	% Cover 40 20 10 25 5  wland Mapl % Cover 100  www. 100  www. 100  www. 100  ww. 100	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole  Sapling Pole  Log/Pole	5 5 5 7 awtimb 12	1 Age 37 37 37 37 37 4 4 Age 61	Sub-Ca	61 nopy Spec d Maple Beech Isam Fir	Unspecified ies Density High Unspecified Low Medium Unspecified	Avg. Height Variable  N/A  Avg. Height Variable Variable Variable Variable	Size Sapling Sapling	
13	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar  6113 - Lov Canopy Species Red Maple  6119 - Mixed Lo Fo Canopy Species Red Maple	% Cover 40 20 10 25 5  wland Mapl % Cover 100  www. 100  www. 100  www. 100  ww. 100	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole  e Sa Size Class Log/Pole  diduous Po Size Class Pole/Sapling	5   5   5   5   7	1 Age 37 37 37 37 37 4 Age 61 61	Sub-Ca  Sub-Ca  Re  Ba  11 9.9  Sub-Ca	61 nopy Spec d Maple Beech lsam Fir	Unspecified High Low Medium Unspecified Unspecified Low	Avg. Height  Variable  N/A  Avg. Height  Variable  Variable  Variable  N/A	Size Sapling Sapling Sapling Sapling	
13	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar 6113 - Lov Canopy Species Red Maple 6119 - Mixed Lo Fo Canopy Species Red Maple Paper Birch	## Cover   40   20   10   25   5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole  e Sa Size Class Log/Pole  duous Po Size Class Pole/Sapling Sapling/Pole	5   5   5   7	1 Age   37   37   37   37   37   4   4   4   61   61   61   61   61	Sub-Ca  Sub-Ca  Re  Ba  11 9.9  Sub-Ca  Ame	nopy Spec Alder  61 nopy Spec d Maple Beech Isam Fir 37	Unspecified High High Low Medium Unspecified Unspecified	Avg. Height Variable  N/A  Avg. Height Variable Variable Variable N/A  Avg. Height	Size Sapling Sapling Sapling Sapling Sapling Sapling Sapling Sapling	
13	Coni Canopy Species Red Maple Paper Birch Quaking Aspen Balsam Fir orthern White Cedar  6113 - Lov Canopy Species Red Maple  6119 - Mixed Lo Fo Canopy Species Red Maple	## Cover   40   20   10   25   5	Size Class Pole/Sapling Pole/Sapling Pole/Sapling Pole/Sapling Pole  e Sa Size Class Log/Pole  diduous Po Size Class Pole/Sapling	5   5   5   5   7	1 Age   37   37   37   37   37   4   4   4   61   61   61   61   61	Sub-Ca  Sub-Ca  Re  Ba  Sub-Ca  Ame  Re	61 nopy Spec d Maple Beech Isam Fir 37 nopy Spec	Unspecified High Low Medium Unspecified Unspecified Low	N/A  Avg. Height  Variable  Variable  Variable  Variable  Variable  N/A  Avg. Height  Variable	Size Sapling Sapling Sapling Sapling	



Stand	d Level 4 Co	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	MICHIGAN
15	6127 - Lo	wland Pine	5	Sawtimb	er Well	10.6	61	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	es Density	Avg. Height	Size		
	Red Maple	20	Log/Pole	11		Red	d Maple	High	Variable	Sapling		
	Quaking Aspen	20	Pole	8		В	Beech	Low	Variable	Sapling		
	White Pine	60	Log/Pole	11	61							
16	6118 - Lowland De	eciduous wi	th Cedar F	Poletimb	er Well	8.0	33	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	es Density	Avg. Height	Size		
	Red Maple	65	Pole/Sapling	7	33	Red	d Maple	Medium	Variable	Sapling		
No	orthern White Cedar	35	Log/Pole	11								
17	6113 - Lov	vland Maple	e \$	Sawtimb	er Well	15.4	61	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	es Density	Avg. Height	Size		
	American Elm	3	Pole	6		Ame	rican Elm	Low	Variable	Sapling		
	Red Maple	77	Log/Pole	12	61	Red	d Maple	Medium	Variable	Sapling		
	Quaking Aspen	10	Pole/Log	9								
No	orthern White Cedar	10	Log/Pole	11								
18	6112 - Lov	vland Aspe	n F	Poletimb	er Well	20.4	55	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	es Density	Avg. Height	Size		
	Red Maple	29	Pole	8		Red	d Maple	High	Variable	Sapling		
	Paper Birch	3	Pole	6		Quak	ing Aspen	Low	Variable	Sapling		
	Quaking Aspen	55	Pole	8	55							
	Balsam Fir	10	Pole									
	White Pine		1 010	8								
	Wille Fille	3	Log/Pole	11								
19	122 - Road		Log/Pole		ocked	9.1		Unspecified	No		Old railroad grade.	
19		I/Parking Lo	Log/Pole ot	11		9.1	19	Unspecified Unspecified	No N/A		Old railroad grade.	
	122 - Roac	I/Parking Lo	Log/Pole ot	Nonsto			19	· 			Old railroad grade.	
	122 - Road 4139 - Aspen, I	I/Parking Lo	Log/Pole ot duous	Nonsto	Well		19	· 			Old railroad grade.	
	122 - Road 4139 - Aspen, I Canopy Species	I/Parking Lo	Log/Pole  tuous  Size Class	Nonsto	Well <b>Age</b>		19	· 			Old railroad grade.	
	122 - Road 4139 - Aspen, I Canopy Species Red Maple	Mixed Decidence  Cover  30	Log/Pole ot duous Size Class Sapling	Nonsto	Well Age		19	· 			Old railroad grade.	
	122 - Road 4139 - Aspen, I Canopy Species Red Maple Bigtooth Aspen Black Cherry	Mixed Decide 80 Cover 30 50	Log/Pole  duous  Size Class Sapling Sapling Sapling	Nonsto	Mell Age 19 19		19	· 			Old railroad grade.	
20	122 - Road 4139 - Aspen, I Canopy Species Red Maple Bigtooth Aspen Black Cherry	Mixed Decide   Cover 30 50 20 20 wland Pine	Log/Pole  duous  Size Class Sapling Sapling Sapling	Nonsto Sapling DBH 2 2 2 2 Sawtimb	Mell Age 19 19	24.3		Unspecified 81-110	N/A	Size	Old railroad grade.	
20	122 - Road 4139 - Aspen, I Canopy Species Red Maple Bigtooth Aspen Black Cherry 6127 - Lo	Mixed Decide   Cover 30 50 20 20 wland Pine	Log/Pole  duous  Size Class  Sapling  Sapling  Sapling	Nonsto Sapling DBH 2 2 2 2 Sawtimb	Well Age 19 19 19 19	24.3 10.4 <b>Sub-Car</b>	61	Unspecified 81-110	N/A	Size Sapling	Old railroad grade.	



Stan	d Level 4 Co	over Type		Size De	ensity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments	MICHIGAN .
22	6113 - Lov	wland Maple	e Pol	etimbe	r Medium	n 10.4	33 L	Jnspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species		Avg. Height	Size		
	American Elm	3	Pole/Sapling	5		Red	d Maple	Medium	Variable	Sapling		
	Red Maple	79	Pole/Sapling	7	33	/	Alder	Medium	Variable	Tall Shrub		
	Paper Birch	3	Pole/Sapling	5								
No	orthern White Cedar	15	Pole	6								
23	6113 - Lov	wland Maple	e P	oletimb	er Well	10.4	33 L	Inspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	100	Pole	7	33	Red	d Maple	High	Variable	Sapling		
24	6112 - Lov	vland Aspe	n P	oletimb	er Well	10.5	55 L	Jnspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	29	Pole	7		Red	d Maple	High	Variable	Sapling		
	Paper Birch	3	Pole	7		Quak	ing Aspen	Low	Variable	Sapling		
	Quaking Aspen	55	Pole	7	55							
	Balsam Fir	10	Pole	7								
	White Pine	3	Log/Pole	11								
25	330 - Low-[	Density Tre	es	Nonsto	ocked	7.9	L	Jnspecified	No			
26	310 - Herbac	eous Open	land	Nonsto	ocked	3.7	L	Jnspecified	No			
27	622 - Low	vland Shrub	1	Nonsto	ocked	5.7	L	Jnspecified	No		Wet ground year-round	
28	6112 - Lov	vland Aspe	n P	oletimb	er Poor	5.0	55 L	Jnspecified	N/A			
	Canopy Species		Size Class		l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	20	Pole	7		Nar	nnyberry	High	Variable	Tall Shrub		
	Quaking Aspen	80	Pole	7	55							
29	4130	- Aspen	Р	oletimb	er Well	18.6	55 L	Jnspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Species	Density	Avg. Height	Size		
	Red Maple	10	Pole	8		Red	d Maple	High	Variable	Sapling		
	Quaking Aspen	45	Pole	8	55							
	Bigtooth Aspen	25	Pole	8	55							
	White Pine	5	Log/Pole	12								
	Black Cherry	15	Log/Pole	12								



Stand	d Level 4 C	over Type		Size De	nsity	Acres	Stand Age E	BA Range	Managed S	Site	General Comments
30	6113 - Lo	wland Maple	е	Sawtimb	er Well	10.5	61	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	100	Log/Pole	13	61	Red	Maple	Medium	Variable	Pole	
31	310 - Herbac	eous Open	land	Nonsto	cked	5.4	U	Inspecified	No		with scattered trees
32	4116 - Mixed N.	Hardwood -	- Aspen	Sawtimb	er Well	7.8	86	51-80	N/A		Also has a few sugar maple, red pine, and white pine.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	50	Log/Pole	14	86	Red	Maple	Low	Variable	Sapling	
	Quaking Aspen	30	Pole/Log	8	-					'	•
	Black Cherry	20	Log/Pole	12	86						
33	4130	- Aspen		Poletimb	er Well	5.2	37 U	Inspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	10	Pole	8		Red	Maple	High	Variable	Sapling	
	Quaking Aspen	85	Pole	8	37	А	lder	High	Variable	Tall Shrub	
	Black Cherry	5	Pole	8							•
34	4112 - Maple, Asso	Beech, Ch	erry	Sapling	Well	15.7	37	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	70	Pole/Sapling	g 5	37	Red	Maple	Medium	Variable	Sapling	
	Bigtooth Aspen	10	Pole/Sapling	g 5							-
	Black Cherry	20	Pole/Sapling	g 5	37						
35	4130	- Aspen		Sapling	Well	36.5	19 U	Inspecified	N/A		wildfire swept through south portion of stand. some resulting mortality
	Canopy Species	% Cover	Size Class	DBH	Age						and resprouting.
	Red Maple	10	Sapling	2	19						
	Quaking Aspen	50	Sapling	2	19						
	Bigtooth Aspen	20	Sapling	2	19						
	Black Cherry	20	Sapling	2	19						
36	42110 - Pla	nted Red P	ine	Sawtimb	er Well	30.9	65	171-200	N/A		Thinned in late winter of 2002.
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Pine	100	Log/Pole	11		В	eech	Low	< 5 feet	Sapling	
37	6113 - Lo	wland Maple	е	Poletimb	er Well	5.6	37 U	Inspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	100	Pole	8	37	Red	Maple	Medium	>20 feet	Sapling	
							lder	Low	Variable	Tall Shrub	†



Stand	d Level 4 C	evel 4 Cover Type Size Density Acres Stand Age BA Range Managed Site		ite	General Comments						
38	42110 - Pla	inted Red P	ine S	Sawtimbe	er Well	42.3	72	141-170	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	5	Log/Pole	14		Red	d Maple	Full	Variable	Sapling	
	Red Pine	92	Log	14	72	В	eech	Low	Variable	Sapling	
	Black Cherry	3	Log/Pole	13					•		•
39	3103 - F	Rubus-Fern		Nonsto	cked	6.1	U	Jnspecified	Managed Op	ening	This area had prescribed burn 20??. Also, there was a wildfire that burned most of this stand in the Fall of 2007.
40	4110 - Sugar N	Maple Asso	ciation F	Poletimb	er Well	7.3	37	1-50	N/A		wildfire swept through [approximately 2005] majority of stand killing some
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	trees.
	Sugar Maple	50	Pole/Sapling	5	37	Suga	ar Maple	Low	Variable	Sapling	
	Quaking Aspen	15	Pole/Sapling	5	37	Black	k Cherry	Low	Variable	Sapling	
	Jack Pine	5	Pole/Sapling			Quaki	ng Aspen	Low	Variable	Sapling	
	Black Cherry	30	Pole/Sapling	5	37						
41	4110 - Sugar N	Maple Asso	ciation Po	letimber	Mediun	n 22.9	37	51-80	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Sugar Maple	44	Pole/Sapling		37		ar Maple	High	Variable	Sapling	
	Quaking Aspen	13	Pole/Sapling	5	37	Black	k Cherry	High	Variable	Sapling	
	Red Pine	3	Pole/Sapling	5							1
	Jack Pine	3	Pole/Sapling	5							
	Black Cherry	37	Pole/Sapling	5	37						
42	42310 - PI	anted Spru	ce F	Poletimb	er Well	3.4	62	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age						
	White Spruce	100	Pole	8	62						
43	330 - Low-	Density Tre	es	Nonsto	cked	4.8	U	Jnspecified	No		
44	4130	- Aspen	F	Poletimb	er Well	3.2	37 U	Jnspecified	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Maple	10	Pole	6	37	Black	k Cherry	High	< 5 feet	Sapling	
	Quaking Aspen	30	Pole	6	37						1
	Bigtooth Aspen	60	Pole	6	37						
45	42110 - Pla	inted Red P	ine S	Sawtimbe	er Well	31.9	72	111-140	N/A		
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Can	opy Species	Density	Avg. Height	Size	
	Red Pine	100	Log	14	72	Black	k Cherry	Low	< 5 feet	Sapling	



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments	MICHIGAN .
46	6112 - Lo	wland Aspe	en	Poletimb	er Well	4.4	55	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Red Maple	10	Log/Pole	12		Red	d Maple	Medium	Variable	Sapling		
	Quaking Aspen	90	Pole	9	55							
47	4199 - Other Mixe	ed Upland D	eciduous	Poletimb	er Well	11.9	41	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Red Maple	25	Pole	7	41	Blac	k Cherry	High	< 5 feet	Sapling		
	Bigtooth Aspen	35	Pole	7	41							
	Jack Pine	10	Pole	7								
	Black Cherry	30	Pole	6								
48	310 - Herbac	eous Open	lland	Nonsto	cked	2.2		Unspecified	No			
49	42220 - Nat	tural Jack P	ine	Poletimb	er Well	4.8	37	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Red Pine	20	Pole/Sapling	g 6	37	Re	ed Pine	Low	Variable	Sapling		
	Jack Pine	80	Pole/Sapling	g 6	37	Ja	ck Pine	Medium	Variable	Sapling		
50	4112 - Maple Asso	, Beech, Ch ociation	nerry	Poletimb	er Well	10.0	36	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Sugar Maple	40	Pole/Sapling	g 5	36	Sug	ar Maple	High	Variable	Sapling		
	Red Maple	40	Pole/Sapling	g 5		Red	d Maple	High	Variable	Sapling		
	Black Cherry	20	Log/Pole	12								
53	42200 - Natu	ural White F	Pine	Poletimb	er Well	11.5	36	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Red Maple	10	Pole	7			ite Pine	High	Variable	Sapling		
	White Pine	60	Pole	6	36	Jac	ck Pine	Medium	Variable	Sapling		
	Jack Pine	20	Pole	6		Blac	k Cherry	Low	Variable	Sapling		
	Black Cherry	10	Pole	7							1	
54	3103 - R	Rubus-Fern		Nonsto	cked	19.9		Unspecified	Managed Op	ening	A prescribed burn was conducted in this stand in 2008.	
55	4116 - Mixed N.	Hardwood	- Aspen Po	oletimbe	· Mediun	n 3.2	37	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	40	Pole	6	37	Blac	k Cherry	Medium	< 5 feet	Sapling		
	Black Cherry	60	Pole	6	37						•	



Stand	d Level 4 Cover Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	ite	General Comments		
56	3303 - Mixed Low Density Trees		Trees	Nonsto	ocked	4.1		Unspecified	No		Terrain is generally flat and operable.	
57	4130	- Aspen		Poletimb	er Well	20.2	73	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size		
	Red Maple	10	Log/Pole	12		Re	ed Maple	Medium	Variable	Sapling		
	Quaking Aspen	40	Pole/Log	9		Bla	ck Cherry	Medium	Variable	Sapling		
	Bigtooth Aspen	40	Pole/Log	9	73						•	
	Black Cherry	10	Pole/Log	9								
58	42110 - Pla	nted Red P	ine	Sawtimb	er Well	58.7	72	171-200	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age							
	Red Pine	100	Log/Pole									
59	500	- Water		Nonsto	ocked	9.7		Unspecified	No		Betsie River	
60	4130	- Aspen		Sapling	y Well	1.1	19	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age							
	Red Maple	20	Sapling	2	19							
	Bigtooth Aspen	70	Sapling	2	19							
	Black Cherry	10	Sapling	2								
61	4130	- Aspen		Poletimb	er Well	17.0	73	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size		
	Red Maple	15	Log/Pole	14	73	Re	ed Maple	Medium	Variable	Sapling		
	Quaking Aspen	75	Pole	8	73	Bla	ck Cherry	Medium	Variable	Sapling		
	Black Cherry	10	Pole	8			Alder	Medium	Variable	Tall Shrub		
62	42110 - Pla	nted Red P	ine	Sawtimb	er Well	17.3	72	141-170	N/A			
	Canopy Species	% Cover	Size Class	DBH	l Age							
	Red Pine	100	Log/Pole	12	72							
63	42110 - Pla	nted Red P	ine	Sapling	y Well	60.6	9	Immature	N/A			
	Canopy Species	% Cover	Size Class		l Age		nopy Specie	es Density	Avg. Height	Size		
	Red Pine	60	Sapling	2	9	R	ed Pine	Low	< 5 feet	Sapling		
	Jack Pine	30	Sapling	2		Bla	ck Cherry	Low	< 5 feet	Sapling		
	Black Cherry	10	Sapling	2								
64	330 - Low-l	Density Tre	es	Nonsto	ocked	1.9		Unspecified	No			



Stand	Level 4 Co	Level 4 Cover Type Size Den		ensity	Acres	Stand Age I	BA Range	Managed S	Site	General Comments	
65	310 - Herbac	eous Open	land	Nonstocked		1.0	ι	Jnspecified	No		frequently used as a logging landing site for adjacent pine stands.
66	4110 - Sugar N	laple Assoc	ciation S	Sawtimb	er Well	2.4	76	81-110	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	20	Log/Pole	13	76	Re	d Maple	Medium	Variable	Sapling	
	Red Maple	10	Log/Pole	12		WI	nite Ash	Medium	Variable	Sapling	
	Black Cherry	70	Log/Pole	12	76						
67	4112 - Maple, Asso	Beech, Ch	nerry	Sapling	g Well	9.1	37	1-50	N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Sugar Maple	40	Sapling/Pole	4	37	Re	d Maple	High	Variable	Sapling	
	Red Maple	49	Sapling/Pole		37						
	Quaking Aspen	5	Sapling/Pole								
	Jack Pine	3	Sapling/Pole								
	Black Cherry	3	Sapling/Pole	4							
70	310 - Herbac 6117 - Lowland Coni	•		Nonsto		22.2		Jnspecified  Jnspecified	No N/A		
	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Ca	nopy Species	Density	Avg. Height	Size	
	Red Maple	50	Log/Pole	11	62	Re	d Maple	High	Variable	Sapling	
	Quaking Aspen	20	Pole	8		Ва	lsam Fir	High	>20 feet	Sapling	
No	rthern White Cedar	10	Log/Pole	10		Northern	White Cedar	Low	Variable	Pole	
	Balsam Fir	10	Pole	8		Н	emlock	Low	Variable	Pole	
	White Pine	10	Log/Pole	12							
71		vland Aspe		Saplin		20.9	4	Immature	N/A		harvested in oct.2017Was harvested when area was very dry.
	Canopy Species		Size Class		I Age						
	Red Maple	30	Sapling	1	4						
	Quaking Aspen	70	Sapling	1	4						
72		- Aspen		Poletimb				Inspecified	N/A		
	Canopy Species		Size Class		l Age		nopy Species		Avg. Height	Size	
	Quaking Aspen	80	Pole	6	46		Alder	Medium	< 5 feet	Tall Shrub	
	White Pine	15	Pole	8		Quak	ing Aspen	Low	Variable	Sapling	
	Black Cherry	5	Pole/Sapling		1						

Compartment: 21 Year of Entry: 2022



73								BA Range	Managed S		General Comments
	42310 - Pla	inted Sprud	ce F	Poletimb	er Well	13.9	57	Unspecified	N/A		
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	
Q	Quaking Aspen	10	Pole/Sapling	7		Whit	e Spruce	Low	Variable	Sapling	
\	White Spruce	90	Pole	7	57			1			-
74	310 - Herbace	eous Open	land	Nonsto	ocked	11.1		Unspecified	No		
75	6112 - Low	land Aspe	n S	Sapling N	Medium	39.3	46	Unspecified	N/A		
C	Canopy Species	% Cover	Size Class	DBH	l Age	Sub-Car	nopy Specie	s Density	Avg. Height	Size	
Q	Quaking Aspen	70	Sapling/Pole	4	46	Blac	k Cherry	Medium	Variable	Sapling	
В	Bigtooth Aspen	10	Sapling/Pole	4		Will	ow spp.	Medium	< 5 feet	Tall Shrub	
	Black Cherry	20	Pole/Sapling	5	46			'			-
76	310 - Herbace	eous Open	land	Nonsto	ocked	1.2		Unspecified	No		
77	310 - Herbace	eous Open	land	Nonsto	ocked	2.1		Unspecified	No		
78		Aspen			Mediun			Unspecified	N/A		Approx 20 small one acre areas of white pine or spruce (alternating) were planted in 1960, The small areas are found mostly in the SENW of
C	Canopy Species	% Cover			l Age		nopy Specie		Avg. Height	Size	sec. 15, and were planted for wildlife use.
	Red Maple	10	Pole	7			k Cherry	Medium	< 5 feet	Sapling	
	Quaking Aspen	60	Pole	7	46		ing Aspen	Low	5 - 10 feet	Sapling	
	Bigtooth Aspen	20	Pole	7	46	Will	ow spp.	Medium	< 5 feet	Tall Shrub	
i.	Black Cherry	10	Log/Pole	10							
79	4130 -	Aspen		Sapling	y Well	32.7	6	Immature	N/A		
C	Canopy Species	% Cover	Size Class	DBH	l Age						
	Red Maple	20	Sapling	1	6						
Q	Quaking Aspen	60	Sapling	1	6						
В	Bigtooth Aspen	20	Sapling	1	6						
80	4130 -	Aspen		Sapling	g Well	20.7	6	Immature	N/A		
C	Canopy Species	% Cover	Size Class	DBH	l Age						
Q	Quaking Aspen	95	Sapling	1	6						
	Black Cherry	5	Sapling	1	6						
81	330 - Low-D	ensity Tre	es	Nonsto	ocked	2.2		Unspecified	No		

**BORUSZEWSKIA** 



Stand	Level 4 C	over Type		Size De	nsity	Acres	Stand Age	BA Range	Managed S	Site	General Comments	MICHIGAN
82	4130	- Aspen		Sapling	Well	10.7	6	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Quaking Aspen	90	Sapling	1	6							
	Black Cherry	10	Sapling	1	6							
83	6113 - Lo	wland Mapl	e I	Poletimb	er Well	71.1	46	1-50	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age		nopy Specie	es Density	Avg. Height	Size		
	American Elm	10	Pole	8		Re	ed Maple	Medium	10 - 20 feet	Sapling		
	Red Maple	70	Pole/Log	9	46							
	Quaking Aspen	20	Pole	8	46							
84	4130	- Aspen		Sapling	Well	7.2	6	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Quaking Aspen	95	Sapling	1	6							
	Black Cherry	5	Sapling	1	6							
85	4130	- Aspen	Po	oletimber	Mediun	n 27.5	46	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size		
	Quaking Aspen	90	Pole/Sapling	g 7	46	Qua	king Aspen	Low	Variable	Sapling		
	Black Cherry	10	Pole/Sapling	g 6		Bla	ck Cherry	Low	< 5 feet	Sapling		
		1				W	illow spp.	Medium	< 5 feet	Tall Shrub		
86	4130	- Aspen	Po	oletimber	Mediun	n 9.9	46	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	s Density	Avg. Height	Size		
	Quaking Aspen	95	Pole/Sapling	g 7	46	Bla	ck Cherry	Low	< 5 feet	Sapling		
	Black Cherry	5	Pole/Sapling	g 6								
87	6112 - Lo	wland Aspe	n l	Poletimb	er Well	122.6	46	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size		
	American Elm	10	Pole	7		Am	erican Elm	Low	Variable	Sapling		
	Red Maple	40	Pole/Sap/Log	g 8	46	Re	ed Maple	Medium	Variable	Sapling		
	Quaking Aspen	50	Pole	8	46	В	lack Ash	Low	Variable	Sapling		
		1				W	illow spp.	Low	5 - 10 feet	Tall Shrub		
88	6113 - Lo	wland Mapl	e	Sawtimb	er Well	16.8	88	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Specie	es Density	Avg. Height	Size		
	American Elm	3	Pole/Log	9		Re	ed Maple	Medium	Variable	Sapling		
	Red Maple	97	Log/Pole/XLo	og 16	88	В	lack Ash	Medium	Variable	Sapling		



Stan	d Level 4 C	over Type	:	Size De	nsity	Acres	Stand Age	BA Range	Managed 9	Site	General Comments	MICHIGAN .
89	4130	- Aspen	Р	Poletimb	er Well	20.2	46	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Spec	ies Density	Avg. Height	Size		
	Quaking Aspen	85	Pole/Sapling	7	46	Blad	ck Cherry	Low	< 5 feet	Sapling		
	Bigtooth Aspen	15	Pole/Sapling	7	46			·				
91	622 - Lov	vland Shrub	)	Nonsto	cked	5.5		Unspecified	No			
						Sub-Ca	nopy Spec	ies Density	Avg. Height	Size		
						Blueberry/B	ilberry/Crar	nberry Medium	< 5 feet	Tall Shrub		
92	4130	- Aspen		Sapling	Well	24.7	7	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Red Maple	20	Sapling	1								
	Quaking Aspen	67	Sapling	1	7							
	White Pine	3	Pole/Log	7								
	Black Cherry	10	Sapling	1								
93	4130	- Aspen		Sapling	Well	7.9	7	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Red Maple	15	Sapling	1	7							
	Bigtooth Aspen	82	Sapling	1	7							
	Black Cherry	3	Sapling	1								
94	4130	- Aspen	Р	Poletimb	er Well	17.2	55	Unspecified	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Ca	nopy Spec	ies Density	Avg. Height	Size		
	Red Maple	10	Pole	8		Re	d Maple	High	Variable	Sapling		
	Quaking Aspen	45	Pole	8	55			,	1			
	Bigtooth Aspen	25	Pole	8	55							
	White Pine	5	Log/Pole	12								
	Black Cherry	15	Log/Pole	12								
95	4130	- Aspen		Sapling	Well	19.0	6	Immature	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age							
	Red Maple	10	Sapling	1								
	Quaking Aspen	45	Sapling	1	6							
	Bigtooth Aspen	25	Sapling	1	6							
	White Pine	5	Log/Pole	12								
	Black Cherry	15	Sapling	1								