

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61032
Entry Year 2024
Acreage: 1,526
County Benzie

Management Area: Manistee Plains

Stand Examiner: Craig Allen

Legal Description:

Colfax Township T25N- R13W; Sections 22, 23, 24, 27 in Benzie County.

Identified Planning Goals:

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

Soil and topography:

The topography is mostly level and low-lying. There is a sandy ridge that runs diagonally through sections 22 and 23. The soils series in the area include Leelanau-Emmet-Kalkaska and Roscommon-Augres-Croswell.

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

This compartment is at the south end of State land that starts 5 miles to the north at Cinder road, in an area that contains the Grass Lake Flooding. Much of it is in lowland and swamp vegetative cover types and is an important wildlife area. Private lands consist of low density residential areas and farms. Due to poor access, any properties that border Karlin road and State lands would be desirable acquisitions.

Unique Natural Features:

The upper headwaters of the Little Betsie River flows through the center of this compartment.

Archeological, Historical, and Cultural Features:

No known features within this compartment. However, the Betsie River and its tributaries were used by early Native Americans for hunting and settlements.

Special Management Designations or Considerations:

A portion of this compartment is within the Grouse Enhanced Management Systems (GEMS) as further described in the Wildlife Habitat Consideration section.

The Betsie River (and all it's tributaries) is a designated Michigan Natural River system.

Watershed and Fisheries Considerations:

The Little Betsie River flows through this compartment and is a designated Trout Stream. This river is a tributary to the Betsie River so it is included as a part of the Betsie River Natural River Plan. The Little Betsie River is a high quality, cold water trout stream with naturally reproducing populations of brown trout, brook trout, rainbow trout, coho salmon, and chinook salmon.

Wildlife Habitat Considerations:

Most of state ownership in compartment 32 is flat and consists of poorly drained organic soils. Access to this compartment is limited due to a high water-table, flooded roads, and wetlands/rivers. The resulting "walk-in" experience is relatively unique for this part of the State Forest system and great care should be taken to preserve this characteristic.

The Little Betsie River originates in this compartment. This riparian corridor consists of a mosaic of lowland hardwoods of varying age classes with small inclusions of lowland shrubs and lowland aspen. Allowing the forests along this riparian corridor to naturally mature would benefit species such as wood frogs, red-shouldered hawks, great blue herons, wintering deer, raccoons, and black bears. There are opportunities outside the Natural Vegetation Buffer to mimic small blowdown events with scattered habitat cuts.

Outside the riparian corridor the land remains at or near the water table. Much of the same cover types are found here, lowland hardwoods and aspen, leather leaf bogs, as well as several spruce cover plantings. There are several openings situated on low ridges that need some maintenance to set back encroachment. Red fox, garter snakes, northern flickers,

bear, and deer make use of these small grassy openings interspersed through the lowlands.

Some of the aspen in this compartment is becoming merchantable and harvests should be pursued to diversify the age class of this resource. Care should be taken to minimize any potential issue with seasonably wet soils. Harvest operations should be utilized to create some (approximately 1-2 trees per acre) coarse woody debris (CWD), preferably via timber sale specs. CWD trees should be log sized or bigger, the more decay resistant the tree species is the better and cut approximately at breast height (4.5 feet). The log should be left within 3 feet its stump. Retaining conifers and snags is important for cover, vertical structure, and future course woody debris. Sales here should preferably leave tops unchipped.

Compartment 32 west of the Little Betsie River is part the Little Betsie River Grouse Enhanced Management Site (GEMS). GEMS are designated areas that are intensively managed for upland gamebirds like grouse and woodcock, predominately walk-in access, and located across the northern Lower and Upper Peninsulas. The areas are called GEMS - Grouse Enhanced Management System, and are managed for young forests, primarily aspen. Primary management is for aspen with a shortened rotation age (40 years versus 60 years). Most old logging roads are gated and maintained to provide well

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel pit is over two miles southwest of the compartment. There is good potential for sand and gravel within the compartment, but most of the area is low-lying wetlands, and potential for development of a gravel pit seems low. Much of the west half of the compartment is currently leased for Antrim Shale gas production. The leases are being held by producing wells located elsewhere; there is no active production occurring from beneath the compartment. Parcels in Sec 24 are currently leased for Silurian reef exploration and development. There could be potential for additional reef discoveries within the compartment as well as future gas storage potential. There is no known metallic mineral potential in this part of the state. (Peter Rose, DNR Geologist, 2/14/22).

Vehicle Access:

This compartment currently has no vehicular access due to high water tables and old access roads that were bermed/gated off and closed to any vehicle use many years ago due to heavy soil/rut damage from 4-wheel drive vehicles. Future limited access will be needed for Forestry and Wildlife management purposes, but likely road work and culverts will be needed.

Survey Needs:

There are currently no known survey needs in this compartment.

Recreational Facilities and Opportunities:

Walk-in recreational opportunities in this compartment include hunting, hiking, trapping, fishing, dispersed camping, mushroom hunting, and bird watching.

Fire Protection:

This area has wildfire protection through coordinated efforts of DNR and local Fire Departments.

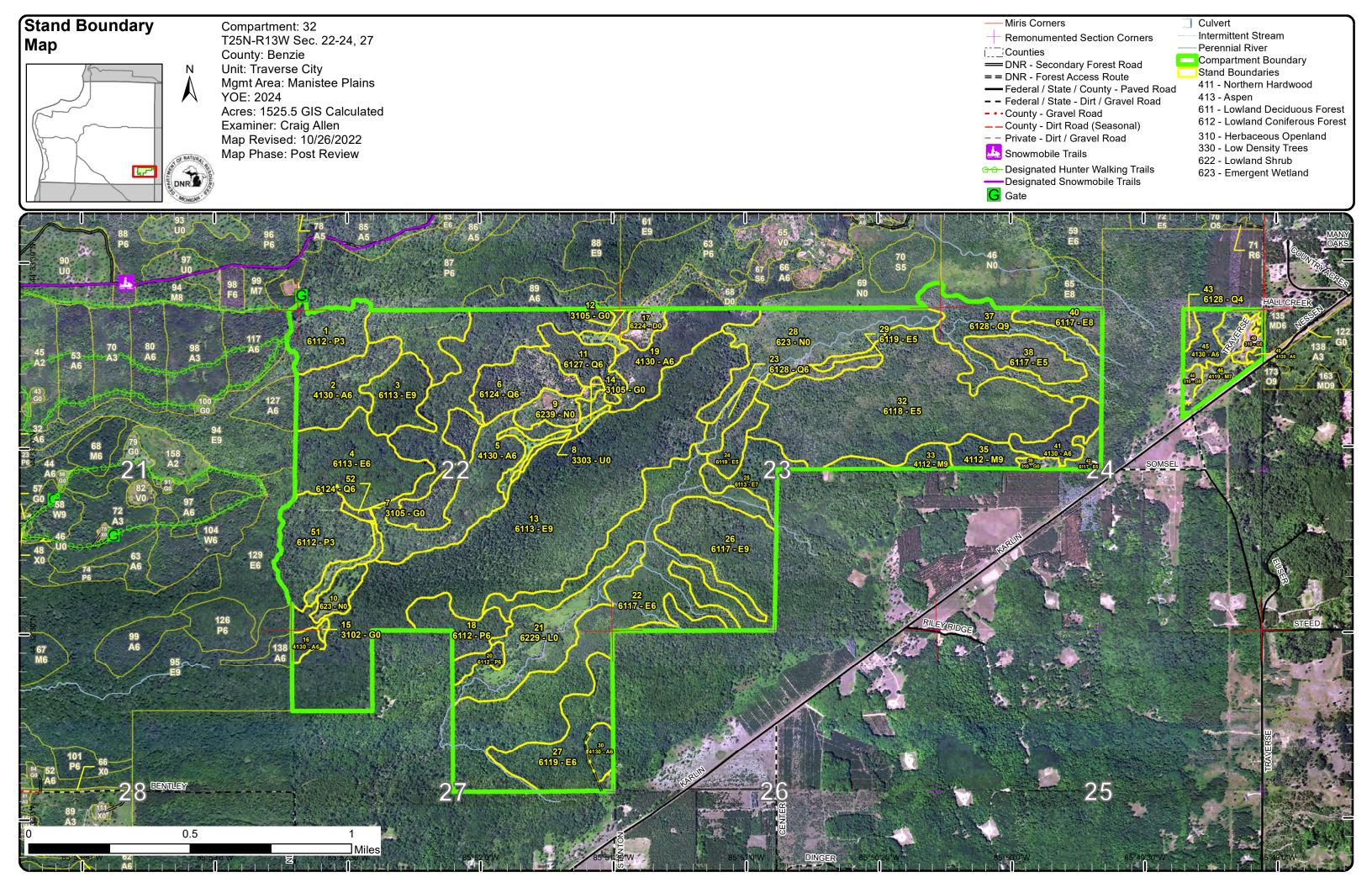
Additional Compartment Information:

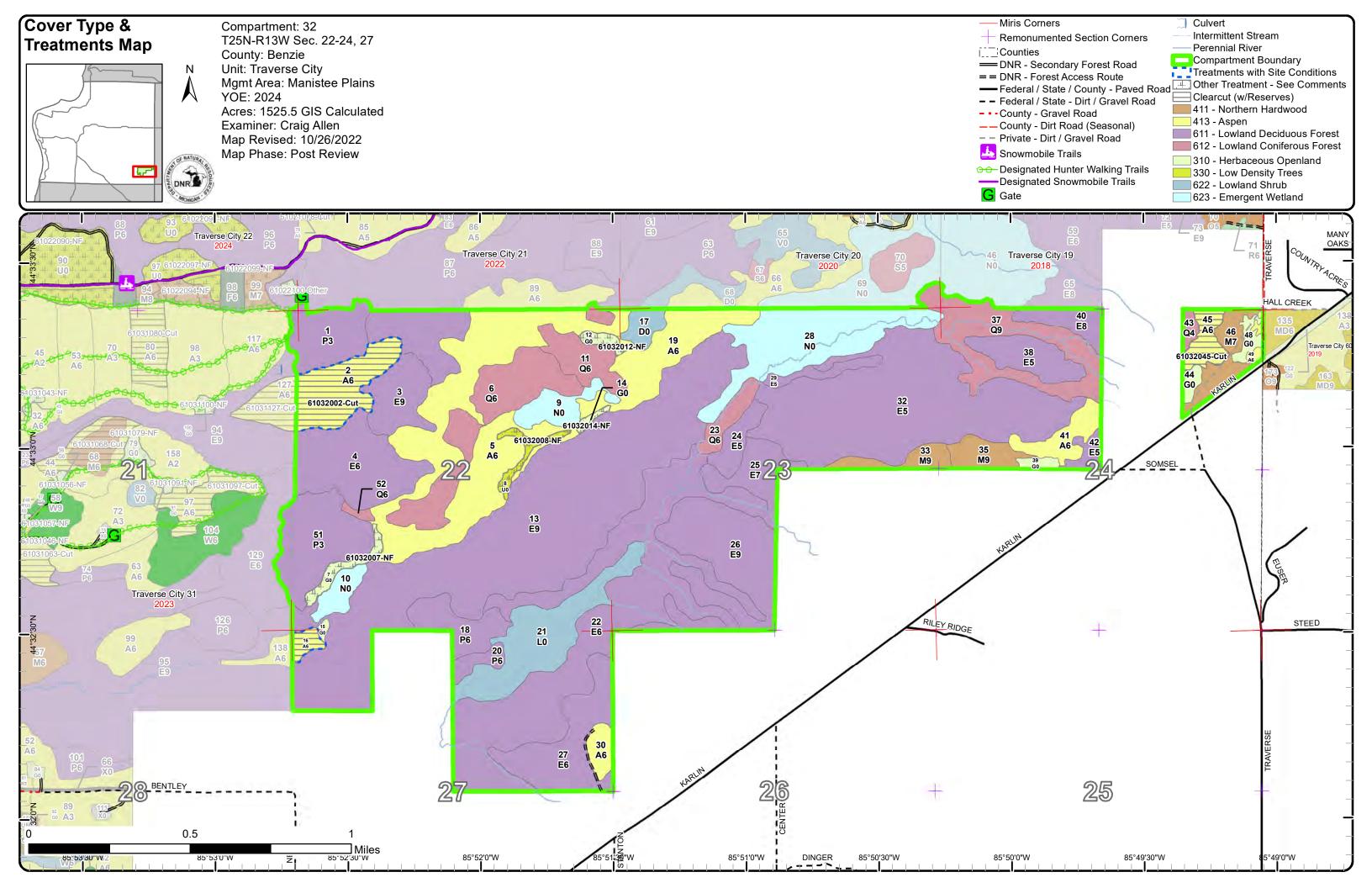
The following reports from the Inventory are attached:

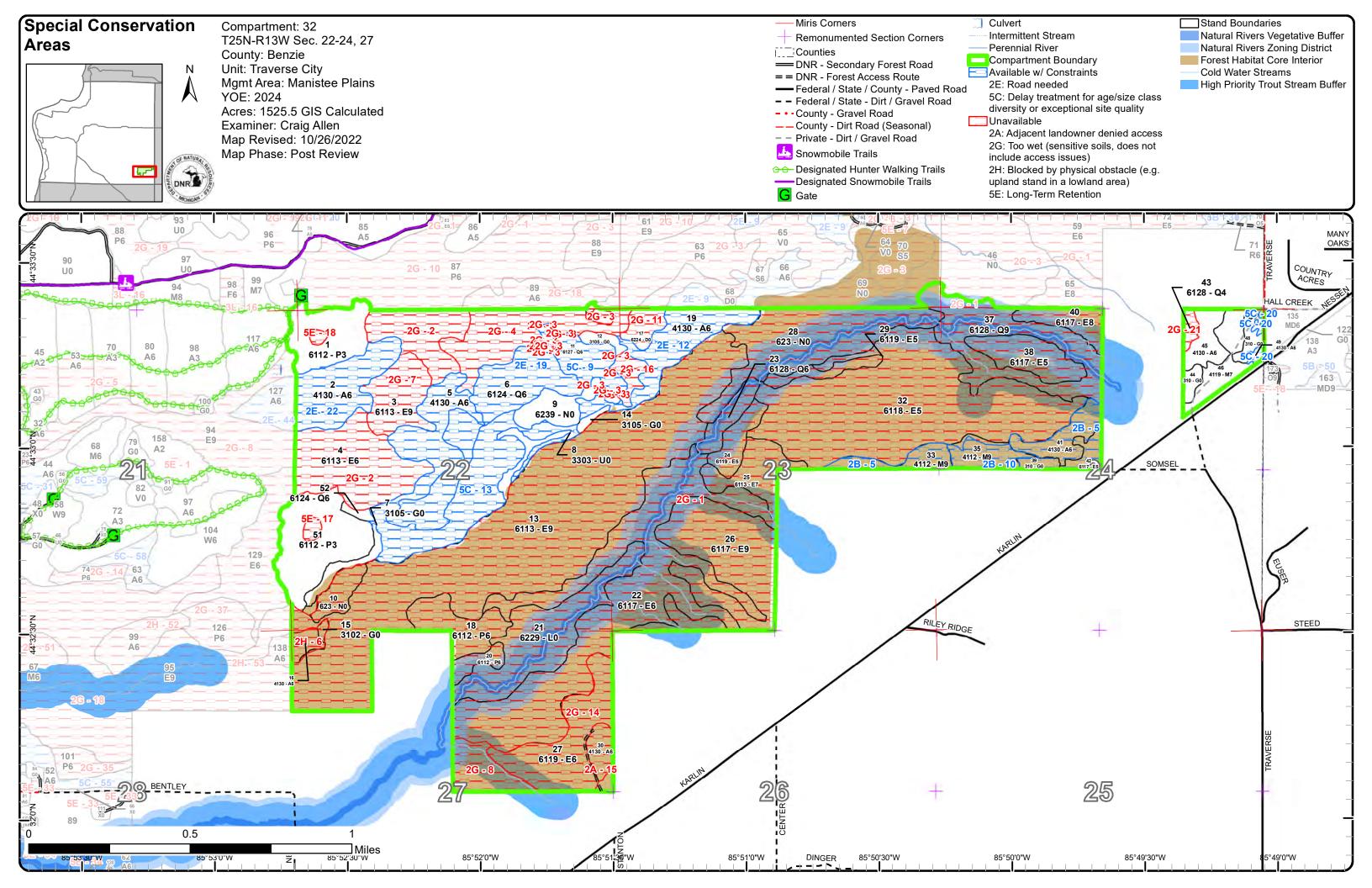
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Compartment 32 Year of Entry 2024

Traverse City Mgt. Unit Craig Allen: Examiner



Age Class

| | | | | , | | , | , | , | , | , | | , | | , | | , | , | , | , , | |
|-----------------------------|-------|---------------|-------|-------|----------|-------|--------|-------|------|---------|--------|-----|--------|--------------|-----|-------|------|-----------------------|------|-------|
| | / | / \$ / | / / | / / | / / | / | / / | / | / / | / / | / / | / | / / | / | / / | / / | / / | / / | | |
| | | , | ያ / ‹ | | ر الم | 3 / | | § / ` | 8/8 | \$° /\$ | \$ \ & | | | ? / ` | | | | | | |
| | / For | \mathcal{L} | | , / 🍫 | , | / 1/2 | ' / '& | / 8 | '/ ^ | , / & |) / s | / % | 1/1/20 | 1 | 7 3 | , / 1 | '/ * | , \ 74 ₆ , | /~ | |
| Aspen | 0 | 0 | 0 | 0 | 0 | 194 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 226 | , |
| Herbaceous Openland | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | İ |
| Low-Density Trees | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 1 |
| Lowland Aspen/Balsam Poplar | 0 | 70 | 0 | 0 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 96 | 1 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 52 | 21 | 0 | 0 | 0 | 3 | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 1 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 43 | 95 | 0 | 0 | 0 | 0 | 354 | 371 | 0 | 0 | 0 | 0 | 0 | 0 | 863 | l |
| Lowland Shrub | 50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 50 | l |
| Marsh | 84 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 84 | l |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | l |
| Treed Bog | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | l |
| Total | 170 | 70 | 0 | 0 | 43 | 367 | 53 | 0 | 0 | 15 | 357 | 451 | 0 | 0 | 0 | 0 | 0 | 0 | 1525 | |



Report 2 – Treatment Summary

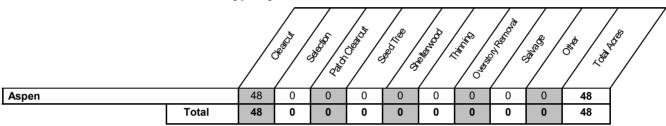
Traverse City Mgt. Unit Year of Entry: 2024

Acres of Harvest

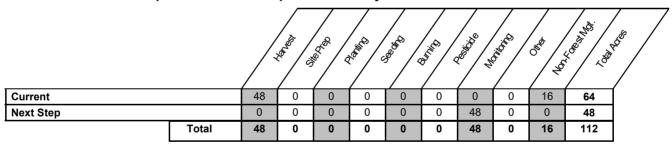
Compartment 32
Total Compartment Acres: 1,526

Commercial Harvest - 10 Harvests with Site Condition - 33 Next Step Harvest - 0 Habitat Cut - 4

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Traverse City Mat. Unit

Report 3 -- Treatments

Compartment: 32 Year of Entry: 2024

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d

Treatment Name

Acres Stand CoverType

Size Stand Density Age

BA Range **Treatment** Type

Treatment Method

Cover Type Objective

Age Structure Habitat Cut

No

Proposed Treatments:

61032002-Cut 32.7 4130 - Aspen Poletimber 45 Unspec Harvest Clearcut with 413 - Aspen Even-Aged No Well ified Retention

Prescription Harvest all hardwoods with goal to regenerate and expand aspen component. Leave any conifers and oak that may be present in stand for diversity. Possibly, mark some retention islands/areas in locations where water table is higher. Add wildlife drumming log spec to sale. Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, cherry

Regen: Other

Harvest with adjacent stand 127 in compartment 31...these stands are all the same and manage as such.

May need some road work to add gravel and possibly culvert(s) to build-up road for access. Comment:

Site Condition Road Needed Proposed Start Date: 10/1 /2023

61032007-NF Unspec NonForestMgt Fruit Tree/Shrub 3105 - Mixed Nonstocked 3204 - Mast **Upland Herbaceous** 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food Specs:

and cover. Could also 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, fertilization, burning,

or removal of woody encroachment.

Next Step Treatments:

Acceptable

Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

61032008-NF 5.3 3303 - Mixed Low Nonstocked Unspec NonForestMgt Fruit Tree/Shrub 3204 - Mast Nο **Density Trees** ified **Planting** 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Could also 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 /2023



Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 32 s Year of Entry: 2024 t а **Treatment** Stand Size Stand BA **Treatment Treatment Cover Type** Acres Age Habitat n CoverType Method Density Objective Structure Name Age Range Type Cut d 12 61032012-NF 3 2 3105 - Mixed Nonstocked Unspec NonForestMqt Fruit Tree/Shrub 3204 - Mast Upland Herbaceous 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food Specs: and cover. Could also 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, fertilization, burning, or removal of woody encroachment. Next Step Treatments: <u>Acceptable</u> Regen: **Other** Comment: Site Condition Proposed Start Date: 10/1 /2023 61032014-NF 3105 - Mixed Nonstocked Unspec NonForestMqt Fruit Tree/Shrub 3204 - Mast 1.7 No Upland Herbaceous 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. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food Specs: and cover. Could also 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, fertilization, burning, or removal of woody encroachment. Treatments: Acceptable Regen: Other Comment: Site Condition Proposed Start Date: 10/1 /2023 61032016-Cut 4.5 4130 - Aspen Poletimber 45 Unspec Harvest Clearcut with 4139 - Aspen, Even-Aged Yes Well Mixed ified Retention Deciduous Prescription Habitat cut for to regenerate aspen. Leave retention of scattered and/or clumped mast producing trees, conifers, or red maple. Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable mix of aspen, mixed deciduous, with scattered conifers.

Regen:

Other Comment:

Site Condition Blocked by Obstacle

Proposed Start Date: 10/1 /2023

Traverse City Mgt. Unit Report 3 -- Treatments Compartment: 32 S Year of Entry: 2024 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Method Objective Structure Density Name CoverType Age Range Type Cut d 45 61032045-Cut 10.5 4130 - Aspen Poletimber Unspec Harvest Clearcut with 413 - Aspen Even-Aged Well ified Retention Prescription Harvest all aspen (and red maple as needed) to open-up areas currently containing higher concentrations of aspen to allow for aspen regeneration. Other areas of the stand may contain more oak in understory so mark harvest boundary around these areas so the oak is not Specs: harvested or damaged at this time. Leave all conifers and cut oak only as needed to open the areas for aspen. Add wildlife drumming log spec to sale. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:**

Regen:

Acceptable aspen, maple, cherry, oak

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

Total Treatment 64 Acreage Proposed:

Compartment: 32

Traverse City Mgt. Unit

Craig Allen: Examiner Year of Entry: 2024

| Availa | ability for | Managemei | nt | | | | | | | | | | | |
|--------|-------------|----------------|---------------|-----------------------------|-------|------------------------|----|----|-------|----|----|--|--|--|
| Total | Acres | Acres Avail | Acres | De | omina | minant Site Conditions | | | | | | | | |
| Acres | Available | With Condition | Not Available | | 2B | 2E | 5C | 2A | 2G | 2H | 5E | | | |
| 226 | 11 | 159 | 57 | Aspen | 14 | 64 | 80 | 7 | 45 | 4 | | | | |
| 23 | 19 | 3 | 1 | Herbaceous Openland | 3 | | 0 | | 0 | 1 | | | | |
| 5 | 5 | 0 | 0 | Low-Density Trees | | | | | 0 | | | | | |
| 97 | 67 | 0 | 30 | Lowland Aspen/Balsam Poplar | | | | | 26 | | 3 | | | |
| 134 | 5 | 69 | 61 | Lowland Conifers | | 50 | 18 | | 61 | | | | | |
| 863 | 3 | 6 | 854 | Lowland Deciduous | 6 | | | | 854 | 0 | | | | |
| 49 | 0 | 0 | 49 | Lowland Shrub | | | | | 49 | | | | | |
| 84 | 14 | 0 | 70 | Marsh | | | 0 | | 70 | | | | | |
| 38 | 15 | 21 | 1 | Northern Hardwood | 21 | | | | 1 | | | | | |
| 8 | 0 | 0 | 8 | Treed Bog | | | | | 8 | | | | | |
| 1,526 | 138 | 256 | 1,131 | Total Forested Acres | 43 | 115 | 99 | 7 | 1,115 | 6 | 3 | | | |
| | 9% | 17% | 74% | 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) | 896 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 77 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| | | | | | | | |
| | | | | | | | |

Traverse City Mgt. Unit
Craig Allen: Examiner

| 3 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
|---|-------------|--|----|-------------|-------------|-------------|-------------|
| | Comments: | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 38 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 5 | Available | 2B: Unknown if access through adjacent landowner(s) is possible | 33 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 6 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 7 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 24 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Traverse City Mgt. Unit

Craig Allen: Examiner

| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | es not include through adjacent | | Unspecified | Unspecified | |
|----|---|--|---------------------------------|------------------------------|------------------------------|-----------------------------|---------------------|
| C | Comments: | | | | | | |
| 9 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| r | comments: emote and wet ac tands are also ha | cess create reason to hold off or rvested. | n treatr | ment until adjacent stands ຄ | are treated. Not financially | feasible to thin this stand | until some adjacent |
| 10 | Available | 2B: Unknown if access through adjacent landowner(s) is possible | 11 | Unspecified | Unspecified | Unspecified | Unspecified |
| C | Comments: | | | | | | |
| 11 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| C | Comments: | | | | | | |
| 12 | Available | 2E: Road needed | 32 | Unspecified | Unspecified | Unspecified | Unspecified |
| C | Comments: | | | | | | |
| 13 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 78 | 2E: Road needed | Unspecified | Unspecified | Unspecified |
| (| comments: | | | | | | |

Traverse City Mgt. Unit
Craig Allen: Examiner

| 14 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 41 | 2A: Adjacent landowner denied access | Unspecified | Unspecified | Unspecified |
|----|-------------------------------|---|----|--------------------------------------|-------------|-------------|-------------|
| | Comments: | | | | | | |
| 15 | Unavailable | 2A: Adjacent landowner denied access | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 16 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 17 | Unavailable | 5E: Long-Term Retention | 2 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Retention island | | | | | | |
| 18 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: retention island | | | | | | |
| 19 | Available | 2E: Road needed | 50 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Traverse City Mgt. Unit

Craig Allen : Examiner

| 20 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 2 | Unspecified | Unspecified | Unspecified | Unspecified | | | | | |
|----|---|--|----|-------------|-------------|-------------|-------------|--|--|--|--|--|
| C | Comments: | | | | | | | | | | | |
| 21 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 3 | Unspecified | Unspecified | Unspecified | Unspecified | | | | | |
| C | Comments: | | | | | | | | | | | |
| 22 | Available | 2E: Road needed | 33 | Unspecified | Unspecified | Unspecified | Unspecified | | | | | |
| | Comments: some road work needed for access road to(fill, gravel and culvert(s)) in order to have timber sale in this stand and adjacent | | | | | | | | | | | |

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: 32
Year of Entry 2024



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 | туре | Description | HCVA = High Conservation Value Area SCA = Special Conservation Area |
|----------------------|----------------------|---|--|
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions tooked trout populations and those of other coldwater fish spective year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210. | cies (e.g., slimy sculpin) to persist from ese conditions due to substantial |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems i influences the aquatic ecosystem and vice-versa. Because of th streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effeas aesthetics, habitat, bank stability, timber production, and the | le unique conditions adjacent to lakes, diversity of plants and wildlife. Riparian ects on water quality and quantity, as well |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from sapproved distance from the river centerlines. The Natural River most Natural Rivers. The Vegetative Buffer ranges from 25 to 1 | s Zoning District is a 400 foot buffer for |



| Stan | d Level 4 C | over Type | | Size Density | Acres | Stand Age | BA Range | Managed S | Site | General Comments |
|------|----------------|------------|--------------|-----------------|--------|-------------|-------------|-------------|------------|---|
| 1 | 6112 - Lo | wland Aspe | n | Sapling Well | 27.4 | 4 | Immature | N/A | | Harvested in october of 2017. Also, contains a few scattered Bur Oak various sizes and scattered bur |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | oak saplings. |
| | Quaking Aspen | 94 | Sapling | 1 4 | Ame | erican Elm | Medium | Variable | Sapling | out suprings. |
| | Red Maple | 6 | Sapling | 1 4 | | | | | | |
| 2 | 4130 | - Aspen | ı | Poletimber Well | 32.7 | 45 | Unspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Red Maple | 3 | Pole/Log | 8 45 | Bla | ck Cherry | Medium | Variable | Sapling | |
| | Quaking Aspen | 82 | Pole/Log | 8 45 | Qual | king Aspen | Medium | Variable | Sapling | |
| | Black Cherry | 15 | Pole/Log | 8 45 | | | | | | |
| 3 | 6113 - Lo | wland Mapl | e : | Sawtimber Well | 23.5 | 105 | 51-80 | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Red Maple | 100 | Log/Pole/XLo | g 18 105 | Re | ed Maple | Low | Variable | Sapling | |
| , | | | | | BI | ack Ash | Low | 5 - 10 feet | Sapling | |
| 4 | 6113 - Lo | wland Mapl | e f | Poletimber Well | 77.4 | 45 | Unspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Quaking Aspen | 25 | Pole/Log/Sap | 7 45 | Re | ed Maple | Full | Variable | Sapling | |
| | Red Maple | 75 | Pole/Log/Sap | 7 45 | BI | ack Ash | Medium | Variable | Sapling | |
| 5 | 4130 | - Aspen | ı | Poletimber Well | 116.7 | 45 | Unspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Red Maple | 10 | Log/Pole | 10 45 | Ame | erican Elm | Low | Variable | Sapling | |
| | Quaking Aspen | 55 | Pole/Log | 8 45 | Re | ed Maple | Low | Variable | Sapling | |
| | Bigtooth Aspen | 35 | Pole/Log | 8 45 | Bla | ck Cherry | Low | Variable | Sapling | |
| | | | | | BI | ack Ash | High | 5 - 10 feet | Sapling | |
| 6 | 6124 - Lowla | and Spruce | -Fir F | Poletimber Well | 50.4 | 45 | 81-110 | N/A | | Originally, planted for wildlife winter cover. |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Quaking Aspen | 10 | Pole | 6 | Decid | uous Shrubs | Medium | < 5 feet | Tall Shrub | |
| | White Spruce | 90 | Pole/Log | 9 45 | Bla | ck Cherry | Medium | Variable | Sapling | |
| | | ' | | | Whi | te Spruce | Low | Variable | Sapling | |
| 7 | 3105 - Mixed U | pland Herb | aceous | Nonstocked | 6.1 | _ | Unspecified | No | _ | CA-Has had past cultivation work for wildlife habitat. |
| | | | | | | | | | | 5/21/12 SG-This one in a series of five narrow man-made wildlife openings constructed in the 1970s. |
| 8 | 3303 - Mixed L | ow Density | Trees | Nonstocked | 5.3 | | Unspecified | No | | 5/21/12 SG-This one in a series of five narrow man-made wildlife openings constructed in the 1970s. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed \$ | Site | General Comments |
|-------|-----------------------------------|-----------------|--------|-------------|-------------|-------------|------------|---|
| 9 | 6239 - Mixed Emergent Wetland | Nonstocked | 14.0 | | Unspecified | No | | |
| 10 | 623 - Emergent Wetland | Nonstocked | 9.1 | | Unspecified | No | | |
| 11 | 6127 - Lowland Pine | Poletimber Well | 20.5 | 57 | 111-140 | N/A | | |
| | Canopy Species % Cover Size Class | s DBH Age | Sub-Ca | nopy Specie | s Density | Avg. Height | Size | |
| | Red Maple 3 Pole/Lo | g 9 | Re | ed Maple | Medium | Variable | Sapling | |
| | Quaking Aspen 3 Pole | 6 | Decid | uous Shrubs | Medium | < 5 feet | Tall Shrub | |
| | White Pine 94 Pole/Lo | g 9 57 | | | | | | |
| 12 | 3105 - Mixed Upland Herbaceous | Nonstocked | 3.2 | | Unspecified | No | | 5/21/12 SG-This one in a series of five narrow man-made wildlife openings constructed in the 1970s. |
| 13 | 6113 - Lowland Maple | Sawtimber Well | 259.1 | 105 | 51-80 | N/A | | |
| | Canopy Species % Cover Size Class | s DBH Age | Sub-Ca | nopy Specie | es Density | Avg. Height | Size | |
| | Red Maple 100 XLog/Log/ | Pole 18 105 | Re | ed Maple | Low | Variable | Sapling | |
| | | | Ame | erican Elm | Low | Variable | Sapling | |
| | | | BI | ack Ash | Medium | Variable | Sapling | |
| 14 | 3105 - Mixed Upland Herbaceous | Nonstocked | 1.7 | | Unspecified | No | | 5/21/12 SG-This one in a series of five narrow man-made wildlife openings constructed in the 1970s. |
| 15 | 3102 - Grass | Nonstocked | 1.0 | | Unspecified | No | | |
| 16 | 4130 - Aspen | Poletimber Well | 4.5 | 45 | Unspecified | N/A | | Talk with Craig about possibility of a habitat cut for this stand. |
| | Canopy Species % Cover Size Class | | Sub-Ca | nopy Specie | es Density | Avg. Height | Size | |
| | Quaking Aspen 90 Pole | 7 45 | BI | ack Ash | Low | Variable | Sapling | |
| | Red Maple 10 Pole | 7 45 | Re | ed Maple | Low | Variable | Sapling | |
| 17 | 6224 - Treed Bog | Nonstocked | 7.5 | | Unspecified | No | | |
| 18 | 6112 - Lowland Aspen | Poletimber Well | 20.2 | 45 | Unspecified | N/A | | |
| | Canopy Species % Cover Size Class | s DBH Age | | | | | | |
| | Quaking Aspen 50 Pole | 7 45 | | | | | | |
| | Red Maple 50 Pole | 7 45 | | | | | | |
| | <u> </u> | | | | | | | |



| Stand | Level 4 C | over Type | | Size De | nsity | Acres | Stand Age | BA Range | Managed S | ite | General Comments | MICHIGAN . |
|-------|------------------------------|----------------------|--------------|----------|---------|--------|------------|-------------|-------------|---------|-----------------------------------|------------|
| 19 | 4130 | - Aspen | | Poletimb | er Well | 38.1 | 46 | Unspecified | N/A | | | |
| | Canopy Species | % Cover | Size Class | s DBH | Age | Sub-Ca | nopy Speci | ies Density | Avg. Height | Size | | |
| | Black Cherry | 25 | Pole | 7 | 46 | Blad | ck Cherry | High | Variable | Sapling | | |
| | Quaking Aspen | 35 | Pole | 7 | 46 | | | | | | - | |
| | Red Maple | 5 | Pole | 7 | 46 | | | | | | | |
| | Bigtooth Aspen | 35 | Pole | 7 | 46 | | | | | | | |
| 20 | 6112 - Lov | wland Aspe | en | Poletimb | er Well | 6.2 | 45 | Unspecified | N/A | | | |
| | Canopy Species | % Cover | Size Class | s DBH | Age | | | | | | | |
| | Quaking Aspen | 90 | Pole | 6 | 45 | | | | | | | |
| | Red Maple | 10 | Pole | 6 | 45 | | | | | | | |
| 21 | 6229 - Mixed | l lowland s | hrub | Nonsto | cked | 49.5 | | Unspecified | No | | contains the little Betsie River. | |
| 22 | 6117 - Lowland Con | Deciduous iferous | , Mixed | Poletimb | er Well | 159.1 | 90 | Unspecified | N/A | | | |
| | Canopy Species | % Cover | Size Class | s DBH | Age | | | | | | | |
| | Red Maple | 45 | Log/Pole | 11 | 90 | | | | | | | |
| | American Elm | 10 | Pole | 7 | | | | | | | | |
| | Hemlock | 25 | Log/Pole | 10 | 90 | | | | | | | |
| | Quaking Aspen | 5 | Pole | 8 | | | | | | | | |
| No | rthern White Cedar | 5 | Log/Pole | 10 | | | | | | | | |
| | Yellow Birch | 10 | Pole | 7 | | | | | | | | |
| 23 | 6128 - Lowland Dec | Coniferous iduous | , Mixed | Poletimb | er Well | 9.6 | 100 | Unspecified | N/A | | | |
| | Canopy Species | % Cover | Size Class | s DBH | Age | | | | | | | |
| | Yellow Birch | 15 | Pole/Log | 9 | | | | | | | | |
| | Hemlock | 35 | Pole/Log | 9 | 100 | | | | | | | |
| No | rthern White Cedar | 35 | Pole/Log | 9 | 100 | | | | | | | |
| | Red Maple | 15 | Pole/Log | 9 | | | | | | | | |
| 24 | 6119 - Mixed Lowla | | | | | n 11.0 | 48 | Unspecified | N/A | | | |
| | Canopy Species | | Size Class | | Age | | | | | | | |
| | American Elm Yellow Birch | 20 15 | Pole Pole | 6 | 48 | | | | | | | |
| | Red Maple | 45 | Pole | 6 | 48 | | | | | | | |
| | | 20 | Pole | 6 | 48 | | | | | | | |
| | Quaking Aspen | 20 | Pole | 0 | 40 | | | | | | | |



| Stand | Level 4 C | over Type | | Size De | ensity | Acres | Stand Age | BA Range | Managed S | Site | General Comments | MICHIGAN |
|-------|-----------------------|------------------------|-----------------------|----------|---------|--------|-------------|-------------|--------------|--------------|------------------|----------|
| 25 | 6113 - Lo | wland Mapl | е | Sawtimb | er Poor | 19.7 | 90 | Unspecified | N/A | | | |
| (| Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Specie | es Density | Avg. Height | Size | | |
| | Red Maple | 70 | Log/Pole | 11 | 90 | Ame | erican Elm | Medium | Variable | Pole | | |
| C | Quaking Aspen | 30 | Pole/Log | 9 | | Bl | ack Ash | Medium | Variable | Sapling | | |
| | | | | | | Pa | per Birch | Medium | Variable | Pole | | |
| | | | | | | | Alder | Full | 10 - 20 feet | Tall Shrub | | |
| | | | | | | Bl | ack Ash | High | Variable | Pole | | |
| 26 | 6117 - Lowland Con | Deciduous, iiferous | , Mixed | Sawtimb | er Well | 67.3 | 100 | Unspecified | N/A | | | |
| (| Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Specie | es Density | Avg. Height | Size | | |
| | Yellow Birch | 15 | Pole | 8 | | BI | ack Ash | Medium | Variable | Sapling | | |
| C | Quaking Aspen | 25 | Pole | 8 | | | | | | . | | |
| | Basswood | 10 | Log/Pole | 12 | | | | | | | | |
| | Hemlock | 15 | Log/Pole | 11 | | | | | | | | |
| | Red Maple | 30 | Log/Pole | 12 | 100 | | | | | | | |
| Nort | hern White Cedar | 5 | Log/Pole | 10 | | | | | | | | |
| | 6119 - Mixed Lowla | | ous Forest Size Class | Poletimb | er Well | 42.9 | 38 | Unspecified | N/A | | | |
| | Red Maple | 45 | Pole | 7 | 38 | | | | | | | |
| | Paper Birch | 5 | Pole | 7 | | | | | | | | |
| | Quaking Aspen | 15 | Pole | 7 | | | | | | | | |
| | hern White Cedar | 10 | Pole | 7 | | | | | | | | |
| | Hemlock | 5 | Pole | 7 | | | | | | | | |
| | Yellow Birch | 5 | Pole | 7 | | | | | | | | |
| | Basswood | 15 | Pole | 7 | | | | | | | | |
| 28 | 623 - Emer | rgent Wetla | nd | Nonsto | ocked | 60.7 | | Unspecified | No | | | |
| | 6119 - Mixed Lowla | | | | | | 48 | Unspecified | N/A | Ci | | |
| (| Canopy Species | | Size Class | | l Age | | nopy Specie | | Avg. Height | Size | | |
| | Red Maple | 40 | Pole | 6 | 48 | BI | ack Ash | Low | < 5 feet | Sapling | | |
| | Yellow Birch | 15 | Pole | 6 | 48 | | | | | | | |
| | American Elm | 25 | Pole | 6 | 48 | | | | | | | |
| C | Quaking Aspen | 20 | Pole | 6 | 48 | | | | | | | |



| Stand | l Level 4 Co | over Type | | Size De | ensity | Acres | Stand Age E | SA Range | Managed S | ite | General Comments |
|-------|---|--|---|---|---|--|---|--|--|---|---|
| 30 | 4130 - | - Aspen | | Poletimb | er Well | 7.2 | 55 L | nspecified | N/A | | Might make a nice location for a habitat cut. It looks like the landowner to |
| | Canopy Species | % Cover | Size Class | DBH | H Age | | | | | | the south has an established two track access to this part of the compartment |
| | Red Maple | 10 | Pole/Log | 9 | 55 | | | | | | Compartment |
| | White Pine | 15 | Pole/Log | 9 | 55 | | | | | | |
| | Quaking Aspen | 75 | Pole | 9 | 55 | | | | | | |
| 32 | 6118 - Lowland De | eciduous w | th Cedar Po | | | m 157.3 | 90 L | Inspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | |
| | American Elm | 35 | Pole | 6 | 90 | Bla | ack Ash | High | Variable | Sapling | |
| | Red Maple | 8 | Pole | 6 | | Musclewo | ood/Hornbeam | Low | Variable | Sapling | |
| | Yellow Birch | 22 | Pole | 6 | | Ame | rican Elm | Medium | Variable | Sapling | |
| No | rthern White Cedar | 20 | Log/Pole | 10 | 90 | | | | | | |
| | Hemlock | 15 | Log/Pole | 10 | | | | | | | |
| 33 | 4112 - Maple, Beecl | h, Cherry A | ssociation | | | 10.3 | 105 | 81-110 | N/A | | |
| | | | | | | | | | | | |
| | Canopy Species | | Size Class | | l Age | | nopy Species | Density | Avg. Height | Size | |
| | Canopy Species Basswood | 10 | Size Class Log/Pole | DB H | | | nopy Species nite Ash | Density High | Avg. Height Variable | Size Sapling | |
| | Basswood Sugar Maple | | | | | | | | | | |
| | Basswood | 10 45 5 | Log/Pole | 13 | | | | | | | |
| | Basswood Sugar Maple | 10 45 | Log/Pole Log/Pole | 13 13 | 105 | | | | | | |
| 35 | Basswood Sugar Maple Yellow Birch | 10 45 5 40 | Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb | 105 105 per Well | | | | | | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple | 10 45 5 40 h, Cherry A | Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb | 105 | 11.8 | nite Ash | High | Variable | | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beech | 10 45 5 40 h, Cherry A | Log/Pole Log/Pole Log/Pole Log/Pole ssociation | 13 13 11 13 Sawtimb | 105 105 per Well | 11.8 Sub-Ca | nite Ash | High | Variable N/A | Sapling | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beech | 10 45 5 40 h, Cherry A | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class | 13 13 11 13 Sawtimb DBH 14 14 | 105 105 per Well | 11.8 Sub-Ca | 105 | High 111-140 Density | Variable N/A Avg. Height | Sapling | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beeck Canopy Species Sugar Maple | 10 45 5 40 h, Cherry A 60 60 | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole | 13 13 11 13 Sawtimb | 105 105 per Well | 11.8 Sub-Ca Re | 105 nopy Species d Maple | High 111-140 Density Low | Variable N/A Avg. Height Variable | Sapling Size Pole | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beeck Canopy Species Sugar Maple Red Maple | 10 45 5 40 h, Cherry A 60 34 | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 | 105 105 per Well | 11.8 Sub-Ca Re Irc | 105 nopy Species d Maple onwood | High 111-140 Density Low High | N/A Avg. Height Variable Variable | Sapling Size Pole Sapling | |
| 35 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beecl Canopy Species Sugar Maple Red Maple Beech Black Cherry | 10 45 5 40 h, Cherry A 60 34 3 3 | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 | 105 105 Der Well 1 Age 105 | 11.8 Sub-Ca Re Irc | 105 nopy Species d Maple onwood Beech | High 111-140 Density Low High Medium | N/A Avg. Height Variable Variable Variable | Size Pole Sapling Sapling | contain some headwater creeks that flow into Little Betsie |
| | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beecl Canopy Species Sugar Maple Red Maple Beech Black Cherry | 10 45 5 40 h, Cherry A 60 34 3 3 Coniferous, | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 14 14 | 105 105 Der Well 1 Age 105 | 11.8 Sub-Ca Re Irc E Sug | 105 nopy Species d Maple onwood Beech ar Maple | High 111-140 Density Low High Medium Low | N/A Avg. Height Variable Variable Variable Variable Variable | Size Pole Sapling Sapling | contain some headwater creeks that flow into Little Betsie |
| 37 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beeck Canopy Species Sugar Maple Red Maple Beech Black Cherry 6128 - Lowland C | 10 45 5 40 h, Cherry A 60 34 3 3 Coniferous, duous | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 14 14 | 105 105 105 105 105 105 105 105 105 105 | 11.8 Sub-Ca Re Irc Sug 48.6 Sub-Ca | 105 nopy Species d Maple pnwood Beech lar Maple | High 111-140 Density Low High Medium Low 51-80 | N/A Avg. Height Variable Variable Variable Variable Variable | Size Pole Sapling Sapling Pole | contain some headwater creeks that flow into Little Betsie |
| 37 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beeck Canopy Species Sugar Maple Red Maple Beech Black Cherry 6128 - Lowland Coeci | 10 | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Log/Pole Mixed Size Class | 13 13 11 13 Sawtimb DBH 14 14 14 14 14 Sawtimb | 105 105 105 105 105 105 105 105 105 105 | 11.8 Sub-Ca Re Iro Sug 48.6 Sub-Ca | 105 nopy Species d Maple pnwood Beech ar Maple 100 nopy Species | High 111-140 Density Low High Medium Low 51-80 Density | N/A Avg. Height Variable Variable Variable Variable Variable N/A Avg. Height | Size Pole Sapling Sapling Pole | contain some headwater creeks that flow into Little Betsie |
| 37 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beecl Canopy Species Sugar Maple Red Maple Beech Black Cherry 6128 - Lowland O Deci Canopy Species orthern White Cedar | 10 | Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Log/Pole Size Class Log/Pole Log/Pole Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 14 14 14 15 Sawtimb | 105 105 105 105 105 105 105 105 106 107 107 108 108 108 108 108 108 108 108 108 108 | 11.8 Sub-Ca Re Iro Sug 48.6 Sub-Ca | 105 nopy Species d Maple onwood Beech ar Maple 100 nopy Species ack Ash | High 111-140 Density Low High Medium Low 51-80 Density High | N/A Avg. Height Variable Variable Variable Variable Variable Variable Variable | Size Pole Sapling Sapling Pole Size Sapling | contain some headwater creeks that flow into Little Betsie |
| 37 | Basswood Sugar Maple Yellow Birch Red Maple 4112 - Maple, Beecl Canopy Species Sugar Maple Red Maple Beech Black Cherry 6128 - Lowland C Deci Canopy Species orthern White Cedar Basswood | 10 45 5 40 | Log/Pole Log/Pole Log/Pole Log/Pole ssociation Size Class Log/Pole Log/Pole Log/Pole Mixed Size Class Log/Pole Log/Pole | 13 13 11 13 Sawtimb DBH 14 14 14 14 14 14 15 Sawtimb | 105 105 105 105 105 105 105 105 106 107 107 108 108 108 108 108 108 108 108 108 108 | 11.8 Sub-Ca Re Iro Sug 48.6 Sub-Ca | 105 nopy Species d Maple onwood Beech ar Maple 100 nopy Species ack Ash | High 111-140 Density Low High Medium Low 51-80 Density High | N/A Avg. Height Variable Variable Variable Variable Variable Variable Variable | Size Pole Sapling Sapling Pole Size Sapling | contain some headwater creeks that flow into Little Betsie |



| Stand | Level 4 Co | over Type | | Size De | nsity | Acres | Stand Age | BA Range | Managed \$ | Site | General Comments |
|-------|--------------------------|-----------------------|------------|----------|---------|---------|--------------|-------------|-------------|------------|--|
| 38 | 6117 - Lowland I Coni | Deciduous, ferous | Mixed P | oletimbe | r Mediu | um 20.6 | 100 | Unspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Species | s Density | Avg. Height | Size | |
| Nor | thern White Cedar | 5 | Pole | 9 | | Am | erican Elm | Medium | Variable | Sapling | |
| | Hemlock | 15 | Pole | 9 | | В | lack Ash | High | Variable | Sapling | |
| | American Elm | 45 | Pole | 6 | 100 | | | , | | | • |
| | Red Maple | 15 | Log/Pole | 10 | | | | | | | |
| | Basswood | 5 | Log/Pole | 10 | | | | | | | |
| | Yellow Birch | 15 | Pole | 6 | | | | | | | |
| 39 | 310 - Herbaco | eous Open | land | Nonsto | ocked | 2.9 | l | Unspecified | No | | |
| 40 | 6117 - Lowland I Coni | ferous | | Sawtimbe | | um 12.0 | 90 | 1-50 | N/A | | scattered skunk cabbage at ground level |
| | Canopy Species | % Cover | Size Class | | l Age | Sub-Ca | nopy Species | s Density | Avg. Height | Size | |
| | Red Maple | 30 | Log/Pole | 10 | 90 | В | lack Ash | High | Variable | Sapling | |
| | Basswood | 10 | Log/Pole | 12 | | В | lack Ash | Full | Variable | Pole | |
| Nor | thern White Cedar | 15 | Pole/Log | 8 | 90 | | | | | | |
| | Hemlock | 15 | Pole/Log | 8 | | | | | | | |
| | Yellow Birch | 30 | Log/Pole | 10 | 90 | | | | | | |
| 41 | | - Aspen | | Poletimb | | | | Unspecified | N/A | | Mostly dry when inventoried, but has potential to be seasonably floodedhigh water table. |
| | Canopy Species | % Cover | | | l Age | | nopy Species | | Avg. Height | Size | |
| | American Elm | 15 | Pole | 6 | 50 | В | lack Ash | High | Variable | Sapling | |
| | Quaking Aspen | 85 | Pole/Log | 8 | 50 | | | | | | |
| 42 | 6117 - Lowland I Coni | Deciduous, ferous | Mixed P | oletimbe | r Mediu | um 5.6 | 90 | Unspecified | N/A | | Autumn olive |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Species | s Density | Avg. Height | Size | |
| | Hemlock | 15 | Pole | 9 | | Decid | uous Shrubs | Medium | < 5 feet | Tall Shrub | |
| | American Elm | 45 | Pole | 5 | 90 | В | lack Ash | Medium | Variable | Sapling | |
| Nor | thern White Cedar | 10 | Pole | 9 | | | | | | | - |
| | Red Maple | 10 | Pole | 6 | | | | | | | |
| | Quaking Aspen | 20 | Pole | 7 | | | | | | | |
| 43 | 6128 - Lowland (Deci | Coniferous, iduous | Mixed | Poletimb | | or 3.1 | 90 | Unspecified | N/A | | |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Species | s Density | Avg. Height | Size | |
| | Yellow Birch | 20 | Pole | 5 | | В | lack Ash | Medium | Variable | Sapling | |
| | Hemlock | 80 | Pole/Log | 8 | 90 | | | | | | |



| Stand | d Level 4 C | over Type | | Size De | | Acres | Stand Age | | Managed S | ile | General Comments |
|----------|--|---|---|---|---|--|--|--|---|--|---|
| 44 | 310 - Herbac | ceous Open | land | Nonsto | ocked | 3.3 | | Unspecified | No | | |
| 45 | 4130 | - Aspen | F | Poletimb | er Well | 10.5 | 56 | Unspecified | N/A | | Also contains a few large white oak and sugar maple, a couple hemloc |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Speci | es Density | Avg. Height | Size | |
| | Bigtooth Aspen | 75 | Pole/Log | 9 | 56 | | hite Oak | Medium | Variable | Sapling | |
| | Red Oak | 3 | Log/Pole | 14 | | WI | hite Oak | Medium | Variable | Pole | |
| | Red Maple | 22 | Log/Pole | 14 | | | | | | | 1 |
| 46 | 4119 - Mixed No | orthern Hard | dwoods S | Sawtimb | er Poor | 15.4 | 85 | 1-50 | N/A | | Lots of natural white oak regen |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Ca | nopy Speci | es Density | Avg. Height | Size | |
| | Red Oak | 20 | Log/Pole | 12 | | WI | hite Oak | Medium | Variable | Pole | |
| | White Oak | 20 | Log/Pole | 16 | | WI | hite Oak | High | Variable | Sapling | |
| | Black Cherry | 60 | Pole/Log | 9 | 85 | R | ed Oak | Low | Variable | Pole | |
| | | | | | | R | ed Oak | Low | Variable | Sapling | |
| 48 | 310 - Herbac | ceous Open | land | Nonst | ocked | 4.4 | | Unspecified | No | | |
| 48 49 | 4130 | ceous Open | | Poletimb | er Well | 2.2 | 49 | Unspecified | N/A | | |
| | 4130 Canopy Species | - Aspen | Size Class | Poletimb DBH | er Well | 2.2 Sub-Ca | nopy Speci | Unspecified es Density | N/A Avg. Height | Size | |
| | 4130 Canopy Species Bigtooth Aspen | - Aspen **Cover** 89 | Size Class Pole | Poletimb DBH 8 | er Well | 2.2 Sub-Ca | nopy Specion | Unspecified | N/A Avg. Height Variable | Sapling | |
| | 4130 Canopy Species Bigtooth Aspen Red Maple | - Aspen **Cover** 89 5 | Size Class Pole Log/Pole | Poletimb DBH 8 | er Well | 2.2 Sub-Ca WI | nopy Specie hite Oak both Aspen | Unspecified es Density Low Low | N/A Avg. Height Variable Variable | Sapling Sapling | |
| | 4130 Canopy Species Bigtooth Aspen Red Maple Red Oak | - Aspen **Cover 89 5 3 | Fole Log/Pole Log/Pole | Poletimb DBH 8 12 12 | er Well | 2.2 Sub-Ca WI | nopy Specion | Unspecified es Density Low | N/A Avg. Height Variable | Sapling | |
| | 4130 Canopy Species Bigtooth Aspen Red Maple | - Aspen **Cover** 89 5 | Size Class Pole Log/Pole | Poletimb DBH 8 | er Well | 2.2 Sub-Ca WI | nopy Specie hite Oak both Aspen | Unspecified es Density Low Low | N/A Avg. Height Variable Variable | Sapling Sapling | |
| 49 | 4130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak | - Aspen **Cover 89 5 3 | Fole Log/Pole Log/Pole Log/Pole | Poletimb DBH 8 12 12 | eer Well Age 49 | 2.2 Sub-Ca WI | nopy Specie hite Oak both Aspen | Unspecified es Density Low Low | N/A Avg. Height Variable Variable | Sapling Sapling | Harvested in winter of 2017-18. (Ground did not freeze up that winter). |
| 49 | 4130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak | - Aspen % Cover 89 5 3 3 | Fole Log/Pole Log/Pole Log/Pole | DBF 8 | eer Well Age 49 | 2.2 Sub-Ca WI Bigto R | nopy Specie hite Oak ooth Aspen ed Oak | Unspecified es Density Low Low Low Immature | N/A Avg. Height Variable Variable Variable | Sapling Sapling | Harvested in winter of 2017-18. (Ground did not freeze up that winter). |
| 49 51 | Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak | - Aspen % Cover 89 5 3 3 | Fole Log/Pole Log/Pole Log/Pole | DBF 8 | per Well 49 49 Well | 2.2 Sub-Ca WI Bigto R 42.9 Sub-Ca | nopy Specie hite Oak both Aspen ed Oak | Unspecified es Density Low Low Low Immature | N/A Avg. Height Variable Variable Variable N/A | Sapling Sapling Sapling | |
| 49 | Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak 6112 - Loc Canopy Species | - Aspen **Cover* 89 5 3 3 wland Aspe **Cover* | Fole Log/Pole Log/Pole Log/Pole Size Class | Poletimb DBH 8 12 12 14 Sapling DBH | per Well 49 49 g Well | 2.2 Sub-Ca Will Bigto R: 42.9 Sub-Ca | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie | Unspecified Solution Low Low Low Immature Bes Density | N/A Avg. Height Variable Variable Variable N/A Avg. Height | Sapling Sapling Sapling | |
| 49 51 | A130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak 6112 - Loo Canopy Species Quaking Aspen | - Aspen % Cover 89 5 3 3 wland Aspe % Cover 55 | Fole Log/Pole Log/Pole Log/Pole Log/Pole Size Class Sapling | Poletimb | er Well Age 49 Well Age 49 | 2.2 Sub-Ca Will Bigto R: 42.9 Sub-Ca | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie ck Cherry | Unspecified Solve Density Low Low Low Immature Solve Density Low Low | N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable | Sapling Sapling Sapling Sapling Sapling | |
| 51 | A130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak 6112 - Loo Canopy Species Quaking Aspen Red Maple | - Aspen % Cover 89 5 3 3 wland Aspe % Cover 55 10 35 | Size Class Pole Log/Pole Log/Pole Log/Pole Size Class Sapling Sapling Sapling | Poletimb | g Well 49 49 G Well 4 4 4 | 2.2 Sub-Ca Will Bigto R: 42.9 Sub-Ca | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie ck Cherry | Unspecified Solve Density Low Low Low Immature Solve Density Low Low | N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable | Sapling Sapling Sapling Sapling Sapling | |
| 51 | A130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak Canopy Species Quaking Aspen Red Maple Bigtooth Aspen | - Aspen % Cover 89 5 3 3 wland Aspe % Cover 555 10 35 and Spruce | Size Class Pole Log/Pole Log/Pole Log/Pole Size Class Sapling Sapling Sapling | Delimb | g Well 49 49 G Well 4 4 4 | 2.2 Sub-Ca WI Bigto R 42.9 Sub-Ca Blac Ame | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie ck Cherry erican Elm | Unspecified es Density Low Low Low Immature es Density Low Low 81-110 | N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable Variable | Sapling Sapling Sapling Sapling Sapling | Retention island within. |
| 49 | A130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak 6112 - Lov Canopy Species Quaking Aspen Red Maple Bigtooth Aspen | - Aspen % Cover 89 5 3 3 wland Aspe % Cover 555 10 35 and Spruce | Fole Log/Pole Log/Pole Log/Pole Size Class Sapling Sapling Sapling Sapling | Delimb | g Well Age 49 G Well Age 4 4 4 4 ber Well | 2.2 Sub-Ca Will Bigto R: 42.9 Sub-Ca Ame | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie ck Cherry erican Elm | Unspecified es Density Low Low Low Immature es Density Low Low S1-110 es Density | N/A Avg. Height Variable Variable Variable N/A Avg. Height Variable Variable | Sapling Sapling Sapling Sapling Size Sapling Sapling | Retention island within. Planted for wildlife winter cover |
| 49 | A130 Canopy Species Bigtooth Aspen Red Maple Red Oak White Oak 6112 - Lov Canopy Species Quaking Aspen Red Maple Bigtooth Aspen 6124 - Lowla | - Aspen % Cover 89 5 3 3 wland Aspe % Cover 55 10 35 and Spruce % Cover | Pole Log/Pole Log/Pole Log/Pole Log/Pole Size Class Sapling Sapling Sapling Sapling Sapling Sapling Sapling | DBH | g Well Age 49 G Well Age 4 4 4 4 Age Graph Age 4 4 4 4 4 4 4 4 4 4 4 | 2.2 Sub-Ca Blac Ame 1.7 Sub-Ca Decidu | nopy Specie hite Oak both Aspen ed Oak 4 nopy Specie ck Cherry erican Elm 45 nopy Specie | Unspecified es Density Low Low Low Immature es Density Low Low S1-110 es Density | N/A Avg. Height Variable Variable N/A Avg. Height Variable Variable N/A Avg. Height Avg. Height | Sapling Sapling Sapling Size Sapling Sapling | Retention island within. Planted for wildlife winter cover |