

Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12055 Entry Year 2027 Acreage: 1,532

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T42N R29W Sec 2-5, 8-11 T43N R29W Sec 35

Identified Planning Goals:

Manage all forested cover types in a sustainable manner. Develop aspen age class distribution as the SFMP Management Plan directs. Encourage species diversity and conifers in hardwoods.

Soil and topography:

Fine sandy loams dominate the uplands, with a smattering of rock outcrops. Lowlands are dominated by Carbondale-Cathro mucks. Topography is guite varied from rolling hills to rock outcrops with a fair amount of seeps.

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

Entirely State owned and surrounded by State forest land.

Unique Natural Features:

Tributaries to form the South Branch of the East Branch of the Sturgeon River.

Archeological, Historical, and Cultural Features:

Archaeological hit was verified to be outside of this compartment.

Special Management Designations or Considerations:

Cold water fisheries require 300' buffer.

Watershed and Fisheries Considerations:

300 foot buffer to the trout waters of the E. Br. of the Sturgeon, upstream from the Gene's Pond bridge for areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment

(https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. This compartment also contains Warren Pond- Fisheries Division's walleye rearing pond. As such, as water flowing into or out of the pond should have appropriate buffer widths. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

White-tailed deer was selected as a featured species in this compartment to manage for critical habitat conditions which include important conifers for winter cover, travel corridors and upland dispersal for forage. Forest openings will also be managed to provide important spring and summer forage. In addition, black bear was selected to manage for critically important lowland hardwoods, lowland conifers, vernal ponds and drainages, refuge trees, forest openings and mast producing trees and shrubs. Maximizing age class diversity, decreasing stand size and maintaining the conifer component in aspen stands will provide grouse, woodcock. Maintaining mature forest conditions will provide critical habitat for northern goshawk.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is roughly three miles west. There is some potential for development of sand & gravel within the compartment on the uplands, but bedrock is near the surface in places, and the relatively thin glacial sediments appear to be clay-rich.

Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Significant past metallic mineral exploration test drilling was completed in the immediate vicinity of the compartment. Although the setting is suitable for the occurrence of metallic minerals, there has been no identified prospect and no recent leasing activity in the area involving State-owned mineral rights. Potential for future production of metallic minerals from within the compartment is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Wells Grade accesses the south and east boundary of this compartment. Two-track roads and trails also cross into the interior.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There is a snowmobile trail in the far west portion of this stand. It is heavily used for hunting, ATV riding, trapping, and fishing. Gene's Pond campground and boat launch is located a few miles to the east.

Fire Protection:

Felch protection area.

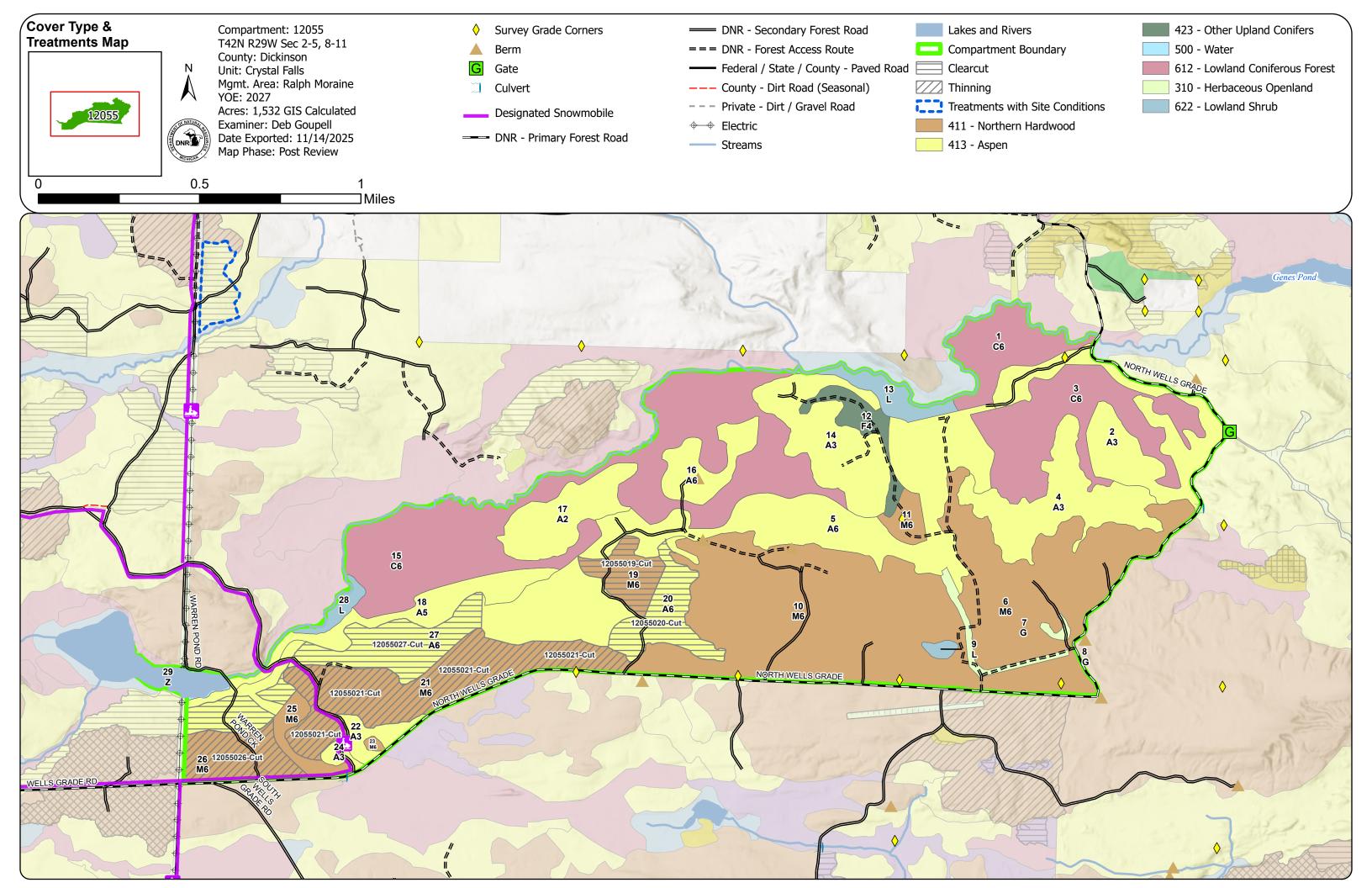
Additional Compartment Information:

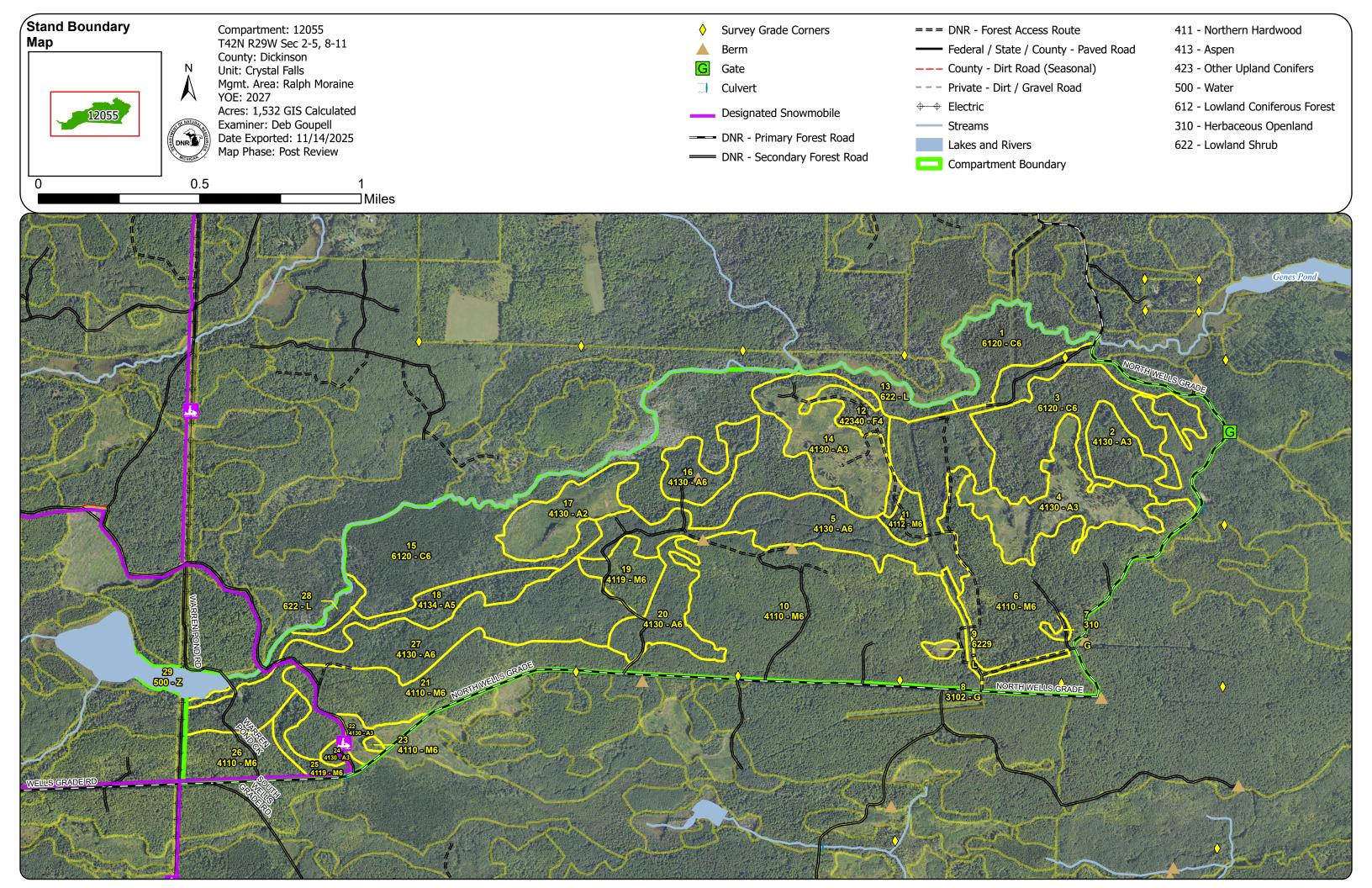
The following reports from the Inventory are attached:

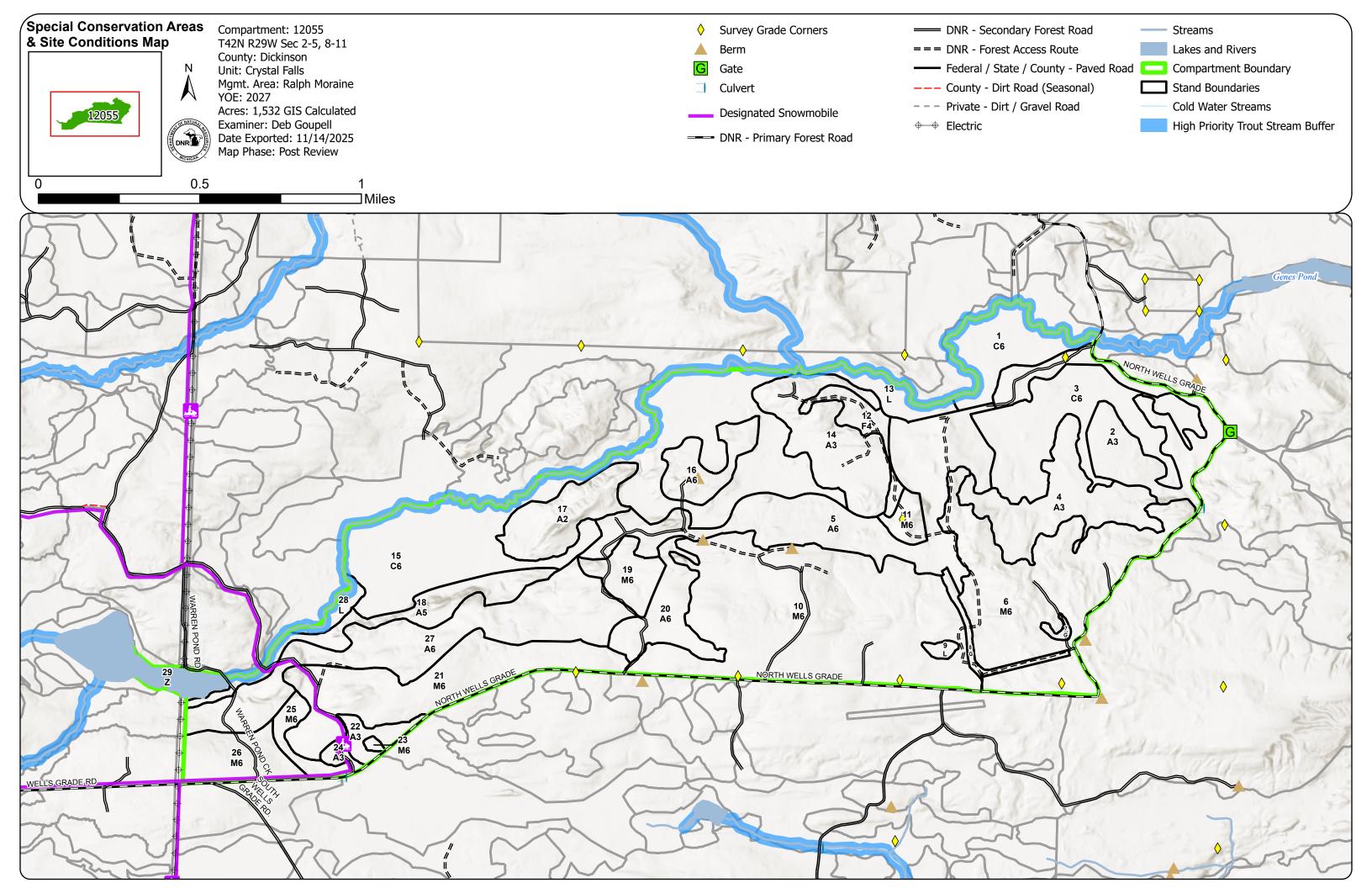
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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







Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment 55 Year of Entry 2027



Age Class

| | / | | | / & /, | | | * / 4 | | <u>/</u> | | | | 8 /2 | , / 9 / | / | <u>/</u> | <u>/</u> | | X | |
|---------------------|--------------|-------|---|-----------|-----|----------|-------|-----|---------------------|-------|--|-----|-------------|------------|--------------|----------|----------|-------------|--------|---|
| | 1 200 | · / c | | | g g | 1 | | 3/8 | \$ [*] / * | & \ & | \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | ''a'' | 7.7 | | | | Jress Jress | ex Yag | |
| Aspen | 0 | 174 | 0 | 73 | 0 | 152 | 151 | 0 | 0 | 0 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 589 | l |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 330 | 0 | 0 | 0 | 0 | 0 | 0 | 330 | l |
| Herbaceous Openland | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | l |
| Lowland Shrub | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | l |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 23 | 500 | 0 | 0 | 0 | 0 | 0 | 0 | 544 | l |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | l |
| Water | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | İ |
| Total | 53 | 174 | 0 | 73 | 16 | 152 | 151 | 0 | 0 | 21 | 62 | 830 | 0 | 0 | 0 | 0 | 0 | 0 | 1532 | |



Report 2 – Treatment Summary

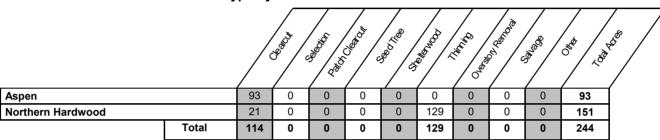
Crystal Falls Mgt. Unit Year of Entry: 2027

Acres of Harvest

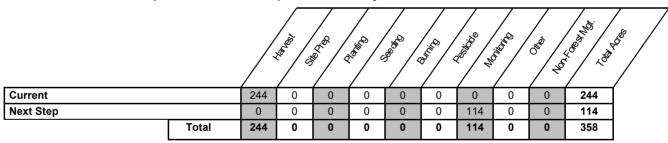
Compartment 55
Total Compartment Acres: 1,532

Commercial Harvest - 357 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Crystal Falls Mgt. Unit

Report 3 -- Treatments

Compartment: 12055 Year of Entry: 2027

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Treatment Acres Name

Stand CoverType

Size Density

6

6

57

Stand Age

BA **Treatment** Range Type

Treatment Method

Cover Type Objective

Age Structure Habitat Cut

No

No

Approved Treatments:

12055019-Cut 21.2

4119 - Mixed Northern Hardwoods 81-110

Harvest

Clearcut

Clearcut

4319 - Mixed Cutting **Upland Forest**

Record

Prescription Final harvest all trees 3" and up on east side of woods road; thin to BA 80-90 on west side of road, which will serve as retention for stand.

Leave some variety of species scattered across stand. Specs:

Next Step Treatments:

Monitoring, Natural Regen (Re-Inventory)

Acceptable aspen, mixed softwood, mixed hardwood

Regen:

Other west of road is primarily a pole stand on a rock knob

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12055020-Cut 32.0 4130 - Aspen

Record Prescription Final harvest all stems 3" and greater. Retention is in far north = 5%, reflected by treatment also add 2 conifer pockets for retention per WLD

Harvest

Specs:

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable aspen, mixed softwood, mixed hardwood

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

12055021-Cut 97.3 4110 - Sugar Maple

Association

6 103 81-110 Harvest

Thinning

411 - Northern Hardwood

413 - Aspen

Planting Record

Planting

No

Prescription Thin to BA 80 following Compleat Marker: leave all present species represented, focus on releasing crowns on crop trees. Open around

Specs:

basswood clumps to encourage more stump sprouting. Favor minor species especially yellow birch. Use snowmobile specs

Next Step

Treatments:

<u>Acceptable</u>

Regen:

<u>Other</u> Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Crystal Falls Mgt. Unit Report 3 -- Treatments Compartment: 12055 S Year of Entry: 2027 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age Habitat n Objective Method Name CoverType Density Age Range Type Structure Cut d Planting 26 12055026-Cut 32.0 4110 - Sugar Maple 104 81-110 Harvest Thinning 411 - Northern No Association Hardwood Record Prescription Thin to BA 80 following Compleat Marker: leave all present species represented, especially yellow birch, focus on releasing crowns on crop trees. Open around basswood clumps to encourage more stump sprouting. Specs: Next Step Treatments: <u>Acceptable</u> Regen: Other Comment: Site Condition: Proposed Start Date: 10/01/2026 12055027-Cut 61.0 4130 - Aspen 6 51 Harvest Clearcut **Planting** No 413 - Aspen Record Prescription final harvest cutting all stems 3" and greater. Retention is reflected in treatment boundary (6% of stand): 300 ft buffer to N.Br. Sturgeon river Specs: + drainage that eventually disappears underground. Use snowmobile specs Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable aspen, mixed hardwood, mixed softwood

Total Treatment 243.5 Acreage Proposed:

Proposed Start Date: 10/01/2026

Regen:
Other
Comment:
Site Condition:

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner Year of Entry: 2027



Compartment: 55

| Availa | bility for | Managemer | nt | | | | | |
|--------|------------|----------------|---------------|----------------------|--------|---------|-----|---------|
| Total | Acres | Acres Avail | Acres | | Domina | nt Site | Con | ditions |
| Acres | Available | With Condition | Not Available | | 2F | 3H | 3J | 5E |
| 435 | 376 | 0 | 60 | Aspen | 25 | | 26 | 9 |
| 330 | 204 | 0 | 126 | Cedar | | 126 | | |
| 10 | 10 | 0 | 0 | Herbaceous Openland | | | | |
| 27 | 27 | 0 | 0 | Lowland Shrub | | | | |
| 544 | 532 | 0 | 12 | Northern Hardwood | | | 12 | |
| 16 | 16 | 0 | 0 | Upland Spruce/Fir | | | | |
| 16 | 16 | 0 | 0 | Water | | | | |
| 1,378 | 1,181 | | 197 | Total Forested Acres | 25 | 126 | 38 | 9 |
| | 86% | | 14% | 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 | 2F: Too steep | 25 | Unspecified | Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| 2 | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| 3 | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 16 | Unspecified | Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| F | isheries has reque | sted 300 feet | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner



| 6 | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 8 | 5E: Long-Term Retention | n Unspecified | Unspecified | Unspecified |
|-----------|--------------------|---|---|--|-------------------------|-------------|---------------|
| • | Comments: | | | | | | |
| 7 | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 8 | 5E: Long-Term Retention | n Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| 9 | Unavailable | 5E: Long-Term Retention | 8 | 3J: Water quality/BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| • | Comments: | | | | | | |
| 10 | Unavailable | 5E: Long-Term Retention | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| 11 | Unavailable | 3J: Water quality/BMPs (stream, river, or lake) | 5 | Unspecified | Unspecified | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| 12 | Unavailable | 3B: Threatened, endangered, and special concern species | 8 | 3J: Water quality/BMPs (stream, river, or lake) | 5E: Long-Term Retention | Unspecified | Unspecified |
| (| Comments: | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 4 10 7 10 | 025 1:18:54 DM Bag | - 0 - 6 2 | | | | | HEINTZEI MANC |

Report 4 – Site Conditions

Crystal Falls Mgt. Unit

Deb Goupell: Examiner

Compartment: 55
Year of Entry: 2027



| 13 | Unavailable | 3H: Deer Wintering Area - habitat is incompatible with harvest at this time | 126 | 5A: Not able to obtain desirable regeneration | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified |
|----|-------------|---|-----|---|---|-------------|-------------|
| Co | omments: | | | | | | |

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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 | | | | |
| | | | | |



| Stand | Level 4 Co | over Type | ; | Size De | nsity | Acres | Stand Age I | BA Range | Managed S | ite | General Comments |
|-------|-------------------|-------------|--------------|----------|---------|---------|--------------|----------|-------------|-------------|---|
| 1 | 6120 - Lov | wland Ceda | ar P | Poletimb | er Well | 41.3 | 105 | | N/A | 1 | |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Car | nopy Species | Density | Avg. Height | Size | |
| Nor | thern White Cedar | 95 | Log/Pole | 10 | 105 | Та | g Alder | Low | 5 - 10 feet | 5 - 10 feet | |
| | Tamarack | 5 | Pole | 8 | | | | | | | _ |
| 2 | 4130 | - Aspen | | Sapling | ı Well | 68.5 | 24 | Immature | N/A | \ | balsam and spruce more on far north. Some wetter areas. Iron Bridge |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Car | nopy Species | Density | Avg. Height | Size | TS cut 2001 |
| | Quaking Aspen | 82 | Sapling | 4 | 24 | Whit | e Spruce | Medium | Variable | Variable | |
| | Balsam Poplar | 5 | Sapling | 2 | | Bal | sam Fir | Medium | Variable | Variable | |
| | Balsam Fir | 5 | Pole/Sapling | 6 | | | | | | | |
| | White Spruce | 5 | Pole/Sapling | 6 | | | | | | | |
| | White Pine | 2 | , , | 16 | | | | | | | |
| | Red Pine | 1 | | 12 | | | | | | | |
| 3 | 6120 - Lov | wland Ceda | ar P | Poletimb | er Well | 84.3 | 102 | 111-140 | N/A | \ | |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Car | nopy Species | Density | Avg. Height | Size | |
| | Balsam Poplar | 2 | Log | 14 | | Та | g Alder | Low | 5 - 10 feet | 5 - 10 feet | |
| | White Spruce | 7 | Log/Pole | 12 | | | | | | | _ |
| | Black Spruce | 10 | Pole | 7 | | | | | | | |
| Nor | thern White Cedar | 70 | Pole/Log | 9 | 102 | | | | | | |
| | Tamarack | 9 | Pole | 8 | | | | | | | |
| | Black Ash | 2 | Pole | 7 | | | | | | | |
| 4 | 4130 | - Aspen | | Sapling | ı Well | 62.5 | 4 | Immature | N/A | \ | Minnesconsin TS cut 2021. VERY SHALLOW SOILS |
| | Canopy Species | % Cover | Size Class | DBH | Age | | | | | | |
| | Red Maple | 10 | Sapling | 1 | | | | | | | |
| | Quaking Aspen | 60 | Sapling | 1 | 4 | | | | | | |
| | Balsam Poplar | 25 | Sapling | 1 | | | | | | | |
| Nor | thern White Cedar | 5 | Log/Pole | 10 | | | | | | | |
| 5 | 4130 | - Aspen | Р | Poletimb | er Well | 126.3 | 40 | 81-110 | N/A | 1 | Seeps and drainages throughout this stand. Smaller diameter in |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Car | nopy Species | Density | Avg. Height | Size | center/wetter areas. |
| | Quaking Aspen | 90 | Pole | 8 | 40 | Whit | e Spruce | Low | Variable | Variable | |
| | Balsam Poplar | 5 | Pole | 8 | | Bal | sam Fir | Medium | Variable | Variable | |
| | White Spruce | 5 | Pole/Sapling | 7 | | Re | d Maple | Low | >20 feet | >20 feet | |
| 6 | 4110 - Sugar M | laple Assoc | ciation P | Poletimb | er Well | 146.8 | 104 | 81-110 | N/A | \ | This portion was cut Elf Hardwood North in 1997. Minnesconsin TS |
| | Canopy Species | % Cover | Size Class | DBH | Age | Sub-Car | nopy Species | Density | Avg. Height | Size | cut 2021 |
| | Sugar Maple | 50 | Log/Pole | 11 | 104 | Leat | herwood | Medium | 5 - 10 feet | 5 - 10 feet | |
| | Basswood | 40 | Log/Pole | 14 | | Irc | nwood | High | Variable | Variable | |
| | Quaking Aspen | 10 | Log | 12 | | Whit | e Spruce | Trace | Variable | Variable | |
| | | | | | | | | | | | |



| Stand | Level 4 Co | over Type | | Size Densi | ty | Acres | Stand Age E | BA Range | Managed Si | ite | General Comments | | |
|-------|--------------------|-------------|---------------|--------------|------|---------|--------------|----------|--------------|--------------|--|--|--|
| 7 | 310 - Herbac | eous Oper | land | None | | 2.1 | | | No | | trees closing in this opening | | |
| 8 | 3102 | - Grass | | None | | 8.0 | | | No | | Old ELF line | | |
| 9 | 6229 - Mixed | Lowland S | Shrub | None | | 2.9 | | | No | | | | |
| 10 | 4110 - Sugar M | laple Asso | ciation F | Poletimber \ | Vell | 223.7 | 104 | 81-110 | N/A | | There are drainages to watch out for. Wells Drains TS Thinned 2023. | | |
| | Canopy Species | % Cover | Size Class | DBH A | ge : | Sub-Cai | nopy Species | Density | Avg. Height | Size | | | |
| | Sugar Maple | 50 | Log/Pole | 12 10 | | | ar Maple | Trace | 10 - 20 feet | 10 - 20 feet | | | |
| | Red Maple | 10 | Log/Pole | 10 | | Irc | nwood | Medium | Variable | Variable | | | |
| | Basswood | 30 | Log/Pole | 12 | | | | | 1 | | | | |
| | Paper Birch | 3 | | 12 | | | | | | | | | |
| (| Quaking Aspen | 7 | Log/Pole | 12 | | | | | | | | | |
| 11 | 4112 - Maple, Beec | h, Cherry A | Association F | | | 9.7 | 95 | 111-140 | N/A | | ParV-Wisco habitat type on Rubicon sand 18-35% slope. Based on Italian | | |
| | Canopy Species | % Cover | Size Class | DBH A | | Sub-Ca | nopy Species | Density | Avg. Height | Size | another 10 years to final harvest. There are many multi-stemmed | | |
| | Sugar Maple | 40 | Log/Pole | 10 9 | 5 | | Isam Fir | Low | Variable | Variable | trees and epicormic boles. Few quality trees. A second alternative | | |
| | Red Maple | 50 | Pole | 9 9 | 5 | Haze | Inut (Spp.) | Medium | 5 - 10 feet | 5 - 10 feet | would be to try a heavy shelterwood by marking as much quality crop trees to a BA of 40-50 this would be more experimental. Well | | |
| | Basswood | 10 | Log/Pole | 12 | | Whit | e Spruce | Low | Variable | Variable | covered with princess pine and lycopodium club mosses, making maple regeneration questionable. | | |
| 12 | 42340 - Upla | and Spruce | e/Fir F | Poletimber F | Poor | 16.1 | 38 | 1-50 | N/A | 1 | Old opening filling in with various species | | |
| | Canopy Species | % Cover | Size Class | DBH A | ge | | | | | | | | |
| (| Quaking Aspen | 20 | Log/Pole | 10 | | | | | | | | | |
| | Balsam Fir | 20 | Pole/Sapling | | | | | | | | | | |
| | White Spruce | 40 | Pole/Sapling | | 8 | | | | | | | | |
| | Black Cherry | 20 | Pole/Sapling | 5 | | | | | | | | | |
| 13 | 622 - Low | land Shrul | 0 | None | | 16.3 | | | No | | OPIC - FMD: OI Stand Year Origin was 555 | | |
| 14 | 4130 | - Aspen | | Sapling W | ell | 61.1 | 6 | Immature | N/A | | Humpback Ridge TS cut 2019. Retention is 100' buffer from stream includes red maple, cedar, white pine. | | |
| | Canopy Species | % Cover | Size Class | DBH A | ge | | | | | | moludes red maple, cedar, write pille. | | |
| | Red Maple | 15 | Sapling | 1 | | | | | | | | | |
| (| Quaking Aspen | 75 | Sapling | 1 6 | 6 | | | | | | | | |
| | Balsam Poplar | 5 | Sapling | 1 | | | | | | | | | |
| Nor | thern White Cedar | 5 | Pole | 9 | | | | | | | | | |



| Stand | d Level 4 C | over Type | | Size Density | Acres | Stand Age E | BA Range | Managed S | ite | General Comments | | | |
|-------|---------------------|--------------|------------|------------------|---------|--------------|-------------|-------------|-------------|---|--|--|--|
| 15 | 6120 - Lo | wland Ceda | ar | Poletimber Well | 204.2 | 104 | | N/A | ١ | This is a very variable stand. Shallow soils, seeps and drainages | | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | throughout. | | | |
| | Balsam Poplar | 3 | Log | 14 | Haze | Inut (Spp.) | Low | 5 - 10 feet | 5 - 10 feet | | | | |
| | Balsam Fir | 8 | Pole | 8 | Та | ng Alder | Low | 5 - 10 feet | 5 - 10 feet | | | | |
| | White Spruce | 10 | Log/Pole | 11 | | | | | | | | | |
| | Black Spruce | 5 | Pole | 7 | | | | | | | | | |
| No | orthern White Cedar | 65 | Pole/Log | 9 104 | | | | | | | | | |
| | Tamarack | 3 | Pole | 9 | | | | | | | | | |
| | White Pine | 1 | Log | 16 | | | | | | | | | |
| | Black Ash | 5 | Pole | 7 | | | | | | | | | |
| 16 | 4130 | - Aspen | | Poletimber Well | 25.4 | 40 L | Inspecified | N/A | 1 | Cut in 1985; few larger white spruce were left originally. Stand is on a | | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Ca | nopy Species | Density | Avg. Height | Size | rock ledge; east end is much heavier to conifer but has been heavily impacted by SBW in the past 10 years | | | |
| | Quaking Aspen | 85 | Pole | 8 40 | Ва | lsam Fir | Medium | Variable | Variable | impacted by ODV in the past to years | | | |
| | White Spruce | 15 | Pole | 8 | Haze | Inut (Spp.) | High | 5 - 10 feet | 5 - 10 feet | | | | |
| | | | | | Whit | te Spruce | Medium | Variable | Variable | | | | |
| 17 | 4130 | - Aspen | | Sapling Medium | 38.9 | 6 | Immature | N/A | \ | Very steep rock in center. Rocky with terrain. Buffer stream on north. | | | |
| | Canopy Species | % Cover | Size Class | DBH Age | | | | | | Humpback Ridge TS cut 2019. Southeast corner where hardwoods | | | |
| | Red Maple | 20 | Sapling | 1 | | | | | | was heavier is not regenerating well yet. | | | |
| | Quaking Aspen | 80 | Sapling | 1 6 | | | | | | | | | |
| 18 | 4134 - Asp | | , , | oletimber Mediun | n 39.0 | 90 | | N/A | | At least 3 seeps and 2 different bed/banks. Very steep ridge. Black | | | |
| - 10 | Canopy Species | <i>'</i> ' | Size Class | DBH Age | Sub-Car | nopy Species | Density | Avg. Height | Size | ash swale. With hydrology and terrain, and buffer to Sturgeon River, | | | |
| | Red Maple | 5 | Log/Pole | 10 10 | | Isam Fir | High | Variable | Variable | stand is factor limited. | | | |
| | Paper Birch | 5 | Log/Pole | 10 | | Inut (Spp.) | Medium | 5 - 10 feet | 5 - 10 feet | | | | |
| | Quaking Aspen | 63 | Log | 14 90 | Tidzo | mar (Opp.) | Wiodiaiii | 0 101000 | 0 101000 | | | | |
| | Balsam Fir | 10 | Pole/Log | 8 | | | | | | | | | |
| | White Spruce | 15 | Log/Pole | 10 | | | | | | | | | |
| | Black Ash | 2 | Pole | 7 | | | | | | | | | |
| 19 | 4119 - Mixed No | orthern Hard | dwoods | Poletimber Well | 21.2 | 87 | 81-110 | N/A | \ | Seepy, shallow soils. Very few quality stems except on west side of | | | |
| | Canopy Species | % Cover | Size Class | DBH Age | Sub-Cai | nopy Species | Density | Avg. Height | Size | road (much defect, broken tops or limbs). Ash is dying. Trace amount | | | |
| | Sugar Maple | 40 | Pole | 8 87 | | Isam Fir | Medium | 5 - 10 feet | 5 - 10 feet | of cedar. Thick with princess pine and lycopodium. Final harvest east of road and thin west side(many pole sized trees) as retention. | | | |
| | Red Maple | 30 | Pole | 8 | Haze | Inut (Spp.) | Medium | 5 - 10 feet | 5 - 10 feet | | | | |
| | Yellow Birch | 3 | Pole | 8 | | te Spruce | Medium | 5 - 10 feet | 5 - 10 feet | | | | |
| | Basswood | 10 | Log/Pole | 10 | | | | | 1 | 1 | | | |
| | Quaking Aspen | 10 | Log/Pole | 12 | | | | | | | | | |
| | Balsam Poplar | - | | _ | | | | | | | | | |
| | Daisaili Fupiai | 5 | Pole | 8 | | | | | | | | | |

Compartment: 55 Year of Entry: 2027 DIR DIR DIR MICHIGAN

| Stan | d Level 4 C | over Type | | Size De | nsity | Acres | Stand Age E | BA Range | Managed Si | ite | General Comments | | |
|------|-----------------|--------------|--------------|----------|---------|---------|--------------|----------|--------------|--------------|--|--|--|
| 20 | 4130 | - Aspen | | Poletimb | er Well | 33.7 | 57 | | N/A | | Far north piece is poor quality maple on a rock outcrop. | | |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Car | nopy Species | Density | Avg. Height | Size | | | |
| | Sugar Maple | 5 | Log/Pole | 10 | | Bal | sam Fir | Low | 5 - 10 feet | 5 - 10 feet | | | |
| | Red Maple | 5 | Log/Pole | 10 | | Irc | nwood | Low | Variable | Variable | | | |
| | Quaking Aspen | 90 | Log/Pole | 10 | 57 | Whit | e Spruce | Low | 10 - 20 feet | 10 - 20 feet | | | |
| | | | | | | | ar Maple | Medium | 10 - 20 feet | 10 - 20 feet | | | |
| | | | | | | Hazel | nut (Spp.) | Medium | 5 - 10 feet | 5 - 10 feet | | | |
| 21 | 4110 - Sugar N | /laple Assoc | ciation | Poletimb | er Well | 97.3 | 103 | 81-110 | N/A | | Thinned in 2001 Wells West TS. Steep hills in northwest. Ironwood | | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | very heavy in east 1/3 of stand. More conifer along north edge/rock knob | | |
| | Sugar Maple | 55 | Log/Pole | 12 | 103 | Irc | nwood | Low | Variable | Variable | | | |
| | Yellow Birch | 5 | Log/Pole | 10 | | Whit | e Spruce | Low | 5 - 10 feet | 5 - 10 feet | | | |
| | Basswood | 30 | Log | 14 | | | | | | | | | |
| | Quaking Aspen | 10 | Log/Pole | 12 | | | | | | | | | |
| 22 | 4130 | - Aspen | | Saplin | g Well | 11.3 | 6 | Immature | N/A | | Humpback Ridge TS cut 2019 | | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | | | | | | | | |
| | Quaking Aspen | 75 | Sapling | 1 | 6 | | | | | | | | |
| | Balsam Poplar | 20 | Sapling | 1 | | | | | | | | | |
| | Black Ash | 5 | Sapling/Pole | e 1 | | | | | | | | | |
| 23 | 4110 - Sugar N | /laple Assoc | ciation | Poletimb | er Well | 1.3 | 94 | 81-110 | N/A | | Humpback Ridge TS thinned 2019 | | |
| | Canopy Species | % Cover | Size Class | | l Age | | | | | | | | |
| | Sugar Maple | 40 | Log/Pole | 12 | 94 | | | | | | | | |
| | Red Maple | 5 | Log/Pole | 10 | | | | | | | | | |
| | Basswood | 40 | Log/Pole | 12 | 94 | | | | | | | | |
| | Quaking Aspen | 15 | Log/Pole | 12 | | | | | | | | | |
| 24 | 4130 | - Aspen | | Saplin | g Well | 4.4 | 27 | Immature | N/A | | Baby Wells TS cut 2001. Black ash is mostly dead (EAB) | | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | | | |
| | Quaking Aspen | 90 | Sapling | 1 | 27 | Whit | e Spruce | Low | < 5 feet | < 5 feet | | | |
| | Balsam Poplar | 10 | Sapling | 1 | | Bal | sam Fir | Low | < 5 feet | < 5 feet | | | |
| 25 | 4119 - Mixed No | orthern Hard | dwoods | Poletimb | er Well | 12.3 | 94 | 81-110 | N/A | | There is a bed and bank from the Grade going north and eventually | | |
| | Canopy Species | % Cover | Size Class | DBH | I Age | Sub-Car | nopy Species | Density | Avg. Height | Size | disappears underground for a bit and reappears in bits in stand to the northwest. Most of the conifer in the north lobe has fallen out and | | |
| | Sugar Maple | 30 | Log/Pole | 11 | 94 | Whit | e Spruce | Low | Variable | Variable | there is some windfall aspen there as well. | | |
| | Red Maple | 15 | Log/Pole | 10 | | | | | | | - | | |
| | Basswood | 20 | Log | 14 | | | | | | | | | |
| | Quaking Aspen | 15 | Log/Pole | 13 | | | | | | | | | |
| | Balsam Poplar | 10 | Log | 14 | | | | | | | | | |
| | Balsam Fir | 5 | Pole | 8 | | | | | | | | | |
| | White Spruce | 5 | Log/Pole | 12 | | | | | | | | | |



| Stand | Level 4 Co | over Type | ; | Size De | nsity | Acres Stand A | ge BAI | Range | Managed Site | | General Comments |
|-------|----------------|-------------|--------------|---------|---------|----------------|--------|---------|--------------|--------------|--|
| 26 | 4110 - Sugar M | laple Assoc | ciation P | oletimb | er Well | 32.0 104 | 81 | 1-110 | N/A | 4 | Wells West TS thinned 2001. White ash regen is heavy on far east |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Canopy Spe | ecies | Density | Avg. Height | Size | third of this stand. Basswood tops showing dieback. Terrain slopes down to north |
| | Sugar Maple | 50 | Log/Pole | 10 | 104 | Ironwood | | High | 10 - 20 feet | 10 - 20 feet | 3 |
| | Yellow Birch | 8 | Log/Pole | 11 | | White Ash | | Medium | 10 - 20 feet | 10 - 20 feet | |
| | Basswood | 40 | Log/Pole | 11 | | Leatherwood | | Low | 5 - 10 feet | 5 - 10 feet | |
| (| Quaking Aspen | 2 | Log | 12 | | Balsam Fir | | Low | < 5 feet | < 5 feet | |
| 27 | 4130 | - Aspen | P | oletimb | er Well | 117.2 51 | | | N/A | Ą | There are some older and larger trees on the north edge and far west |
| | Canopy Species | % Cover | Size Class | DBH | l Age | Sub-Canopy Spe | ecies | Density | Avg. Height | Size | (south of Warren Pond) |
| | Sugar Maple | 2 | Pole/Sapling | 6 | | Balsam Fir | | Medium | Variable | Variable | |
| (| Quaking Aspen | 80 | Pole | 9 | 51 | Sugar Maple | | Low | 10 - 20 feet | 10 - 20 feet | |
| | Balsam Poplar | 10 | Pole | 9 | | White Spruce | ; | Medium | Variable | Variable | |
| | Balsam Fir | 5 | Pole/Sapling | 7 | | | | | | | - |
| | White Spruce | 3 | Pole/Sapling | 7 | | | | | | | |
| 28 | 622 - Low | land Shrub |) | Nor | ne | 7.4 | | | No |) | |
| 29 | 500 - | Water | | Nor | ne | 16.4 | | | No |) | Warren Pond |