



**Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment #67 Entry Year: 2012
Compartment Acreage: 1598 County: Dickinson**

Revision Date: 5-23-2010

Stand Examiner: Debbie Goupell

Legal Description: T42N R27W Sec 19-21, 28-30

Identified Planning Goals ('Management Area' or 'RMU', if applicable):

Management Goals: This compartment has a good degree of upland with wet types throughout. Approximately one-third of the compartment is aspen, most of it under 30 years old, one-third is lowland type, one-quarter is other upland. Management of all stands is to balance age class and allow best suited species to continue to grow on best suited sites. We will protect all bodies of water, especially the Hardwood Impoundment and its tributaries.

Soil and Topography: The majority of the upland is dominated by Emmet fine sandy loam, a well drained soil found on level to rolling hills. Lowland soils are Carbondale and Cathro mucks which are very poorly drained soils, found on low flats and depressions.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State-owned land with private parcels throughout, used by loggers, hunters, fisherpeople, campers, trappers, general recreationists. State land is adjacent to the compartment boundary on the west and north, bound by private on the east and south.

Unique, Natural Features: Hardwood Impoundment

Archeological, Historical, and Cultural Features: None known

Special Management Designations or Considerations: SCA: Deer Wintering Area in the south half of the compartment.

Watershed and Fisheries Considerations: Protect water quality for all bodies of water, particularly the Hardwood Impoundment and tributaries. Promote long lived conifer species along these waterbodies and use adequate buffer protection.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising Formation and Precambrian Archean Volcanics subcrop below the glacial drift. The Randville Dolomite, used for crushed marble and stone, is quarried two miles to the south. Groveland Iron mine is located approximately eleven miles to the west. Part of this Compartment was previously leased for metallic exploration. Gravel pits are located within a few miles of the compartment. There is no economic oil and gas production in the UP.

Vehicle Access: Camp 3, a gravel county road, is the compartment's east boundary; the north is bound by the White Post road, a poor dirt two-track.

Survey Needs: Needed in Section 19, 21, 29 & 30

Recreational Facilities and Opportunities: Hunting, camping, fishing, trapping, hiking, canoeing.

Fire Protection: Felch protection area. Access to most upland stands is poor to fair, access to some swamp types would be difficult.

Additional Compartment Information:

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Stand Boundary Map

Stand #
 (23)
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Compartment 067
 T42N, R27W, Sec. 18-21, 28-30
 County: Dickinson
 Unit: Crystal Falls
 YOE: 2012
 Acres: 1,598 GIS Calculated
 Stand Examiner: Deb Goupell
 Map Revised: 7/28/2010
 Map Phase: Pre-Review

Legend

- Miris Corners
- Cable
- Pipe
- Power
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stand Boundaries
- Intermittent Stream/Drain
- Stream

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

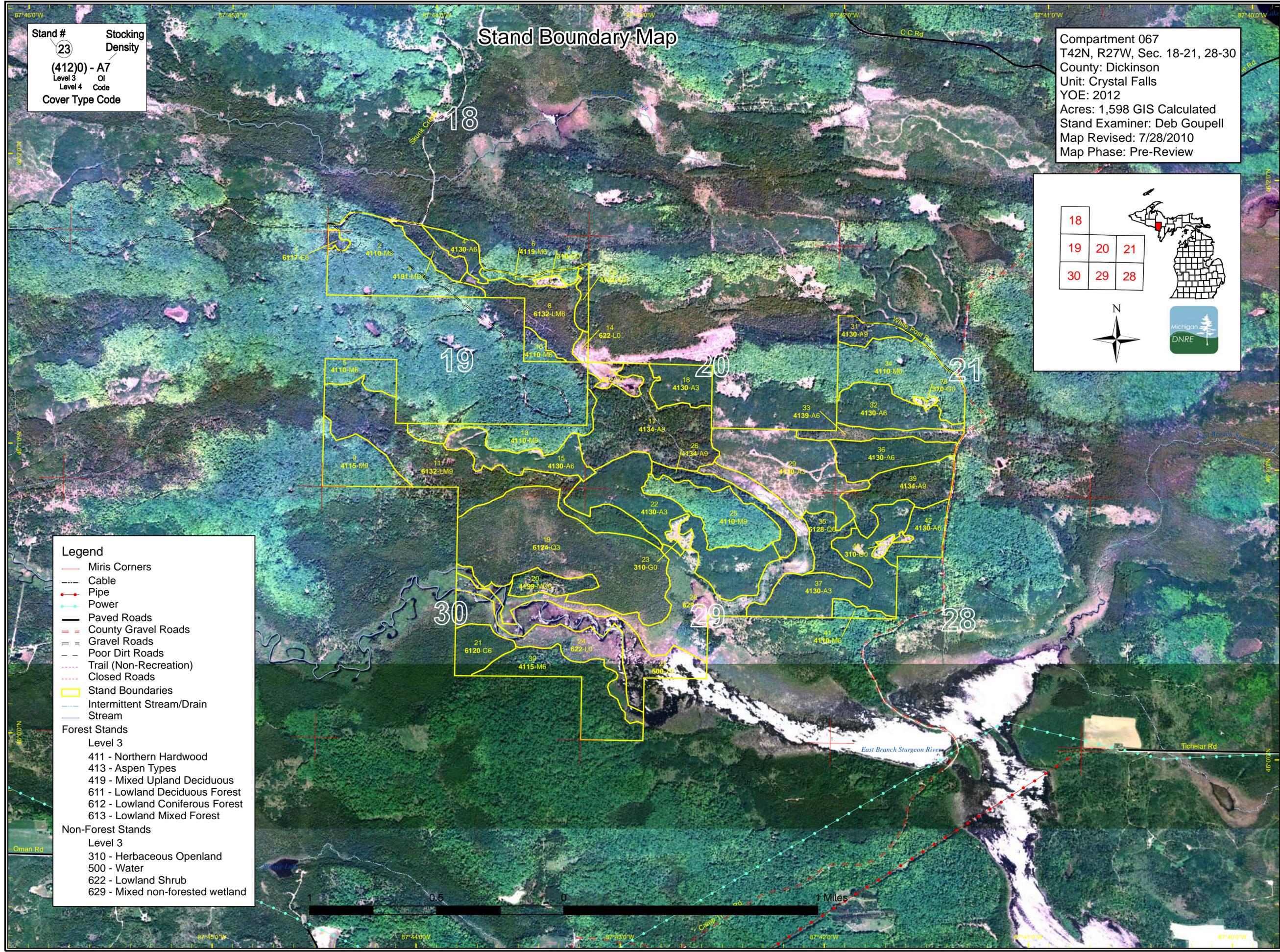


Table 1 – Total Acres by Cover Type and Age Class



| | Age Class | | | | | | | | | | | | | | Total | |
|------------------------|--------------|----------|----------|------------|-----------|-----------|-----------|------------|-----------|------------|-----------|-----------|----------|----------|------------|-------------|
| | Non-Forested | 1-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120 + | | Uneven Age |
| Aspen | 0 | 0 | 0 | 353 | 36 | 36 | 18 | 109 | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 600 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 22 |
| Herbaceous Openland | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 161 | 23 | 0 | 0 | 0 | 0 | 184 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 117 | 158 |
| Lowland Shrub | 170 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 170 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 17 | 0 | 0 | 0 | 0 | 0 | 32 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 356 | 0 | 0 | 0 | 0 | 0 | 356 |
| Water | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Total | 243 | 0 | 0 | 353 | 36 | 36 | 18 | 127 | 48 | 533 | 64 | 22 | 0 | 0 | 117 | 1598 |



Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2012

Compartment 067
Total Compartment Acres: 1598

Acres by Treatment Type

| | | | | |
|--------------------------|-------------------------|-------------------|---------------------|-----------|
| Commercial Harvest - 506 | Site Prep - 0 | Tree Planting - 0 | Prescribed Burn - 0 | Other - 0 |
| Habitat Cut - 0 | Opening Maintenance - 0 | Tree Seeding - 0 | Pesticide - 0 | |

Cover Type by Harvest Method

| | <i>Clearcut</i> | <i>Selection</i> | <i>Seed Tree</i> | <i>Shelterwood</i> | <i>Thinning</i> | <i>Other - Specify</i> | <i>Total Acres</i> |
|--------------------------|-----------------|------------------|------------------|--------------------|-----------------|------------------------|--------------------|
| Aspen | 157 | 0 | 0 | 0 | 0 | 0 | 157 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 349 | 0 | 349 |
| Total | 157 | 0 | 0 | 0 | 349 | 0 | 506 |



| Stand | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|--|----------------|-------|---------------------------------|-------------------|-----------|----------------|------------------------|--------------------------|-----------------------|
| 2 | 12067002-Cut | 78.2 | 4110 - Sugar Maple Association | High Density Log | 82 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |
| <p><u>Prescription</u> Thin to residual BA 80 by releasing the crowns of crop trees and removing the poorer formed trees. Hemlock, cedar and pine will not be cut.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> | | | | | | | | | |
| 5 | 12067005-Cut | 20.0 | 4110 - Sugar Maple Association | High Density Pole | 82 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |
| <p><u>Prescription</u> Thin to residual BA of 80 by releasing the crowns of crop trees and removing the poorer formed trees. Hemlock & cedar will not be cut. Mark</p> <p><u>Specs:</u> lightly around any wet areas. There is a pocket of spruce/fir on south central perimeter of stand which should be included with this stand marked through lightly; this will also serve as in-stand retention</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> check for regeneration per Work Instructions</p> | | | | | | | | | |
| 6 | 12067006-Cut | 8.4 | 4119 - Mixed Northern Hardwoods | High Density Pole | 82 | Harvest | Crown Thinning | Mixed Northern Hardwoods | Cmpt. Review Proposal |
| <p><u>Prescription</u> Thin to residual BA 80 by releasing the crowns of crop trees and removing the poorer formed stems; favor minor species to be retained; no cedar</p> <p><u>Specs:</u> or hemlock to be cut</p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u></p> | | | | | | | | | |
| 9 | 12067009-Cut | 34.2 | 4115 - Y.Birch, Hemlock NH | High Density Log | 82 | Harvest | Crown Thinning | Y.Birch, Hemlock NH | Cmpt. Review Proposal |
| <p><u>Prescription</u> Thin to residual BA 80 by releasing crowns of crop trees and removing poorer formed trees; favor minor species</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> A small hemlock/cedar/yellow birch pocket runs east/west in central/west part of stand. Quality of hardwood deteriorates as you go east.</p> <p><u>Next Steps:</u></p> | | | | | | | | | |
| 10 | 12067010-Cut | 7.5 | 4110 - Sugar Maple Association | High Density Pole | 80 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |
| <p><u>Prescription</u> Thin to BA 80</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Sale is already sold as C67 timber sale</p> <p><u>Next Steps:</u></p> | | | | | | | | | |
| 12 | 12067012-Cut | 7.1 | 4134 - Aspen, Spruce/Fir | High Density Log | 77 | Harvest | Clearcut with Reserves | Aspen, Spruce/Fir | Cmpt. Review Proposal |
| <p><u>Prescription</u> Cut to regenerate</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Sale is already sold as C67 Sale</p> <p><u>Next Steps:</u> regen check per WIs</p> | | | | | | | | | |



| S t a n d | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-----------------------|-------------------|-------|-----------------------------------|------------------|--------------|-------------------|---------------------|----------------------------|--------------------------|
| 13 | 12067013-Cut | 34.3 | 4110 - Sugar Maple Association | High Density Log | 82 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |

Prescription Thin to BA 80

Specs:

Other Stand is already sold as part of the C67 Sale

Comments:

Next

Steps:

| | | | | | | | | | |
|----|--------------|------|-----------------------------|------------------|----|---------|---------------------------|-------------------|--------------------------|
| 17 | 12067017-Cut | 88.6 | 4134 - Aspen, Spruce/Fir | High Density Log | 67 | Harvest | Clearcut with Reserves | Aspen, Spruce/Fir | Cmpt. Review Proposal |
|----|--------------|------|-----------------------------|------------------|----|---------|---------------------------|-------------------|--------------------------|

Prescription Harvest all stems reserve cedar protect drainage

Specs:

Other Stand is already sold as part of the C67 Sale

Comments:

Next

Steps:

follow with regeneration check per WIs

| | | | | | | | | | |
|----|--------------|------|-----------------------------------|------------------|----|---------|----------------|----------------------------|--------------------------|
| 25 | 12067025-Cut | 48.2 | 4110 - Sugar Maple Association | High Density Log | 82 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |
|----|--------------|------|-----------------------------------|------------------|----|---------|----------------|----------------------------|--------------------------|

Prescription Thin to residual BA 80 by releasing crowns of crop trees and removing poorer formed stems. Hemlocks will not be cut.

Specs:

Other Access will be through private and may be tricky.

Comments:

Next

Steps:

| | | | | | | | | | |
|----|--------------|------|-----------------------------|------------------|----|---------|---------------------------|-------|--------------------------|
| 26 | 12067026-Cut | 20.4 | 4134 - Aspen, Spruce/Fir | High Density Log | 64 | Harvest | Clearcut with Reserves | Aspen | Cmpt. Review Proposal |
|----|--------------|------|-----------------------------|------------------|----|---------|---------------------------|-------|--------------------------|

Prescription Remove all stems 2" dbh and greater except for any cedar, hemlock or pine. To be included with hardwood sale to south as a separate unit.

Specs: Stand is far enough from actual drainage.

Other There is a fair amount of blowdown and mortality; aspen has conks.

Comments:

Next

Steps:

Check for regeneration per Work Instructions

| | | | | | | | | | |
|----|--------------|------|-------------------------------|-------------------|----|---------|----------------|---------------------|--------------------------|
| 30 | 12067030-Cut | 55.5 | 4115 - Y.Birch, Hemlock NH | High Density Pole | 82 | Harvest | Crown Thinning | Y.Birch, Hemlock NH | Cmpt. Review Proposal |
|----|--------------|------|-------------------------------|-------------------|----|---------|----------------|---------------------|--------------------------|

Prescription Thin to residual BA 80 by releasing crowns of crop trees and removing poorer formed/competing stems. Hemlock, cedar and pine will be retained. Access will be through private, which may become an issue. Red maple is heavier on north/west side of stand; mark through favoring better crop trees.

Other Red maple is on the fringe, heaviest on north/west side.

Comments:

Next

Steps:

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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-----------------|-------|--------------------------------|-------------------|-----------|----------------|------------------|-------------------------|-----------------------|
| 34 12067034-Cut | 62.5 | 4110 - Sugar Maple Association | High Density Pole | 82 | Harvest | Crown Thinning | Sugar Maple Association | Cmpt. Review Proposal |

Prescription: Thin to residual BA 80 by releasing crowns of crop trees and removing poorer formed stems. There are a lot of small poles/saplings closest to White Post roads, which may not need marking. There are 2 separate but small (<1/4 acre) clones of aspen close to some low-lying grass openings/potential ponds. Aspen may or may not be marked, but do not permit trees to be felled into nor skidding through these low areas.
Specs: PREREVIEW: do not cut hemlock or cedar

Other Comments: There are 2 separate but small (<1/4 acre) clones of aspen close to some low-lying grass openings/potential vernal ponds.

Next Steps:

| | | | | | | | | |
|-----------------|------|--------------------------|------------------|----|---------|----------|-------|-----------------------|
| 39 12067039-Cut | 41.1 | 4134 - Aspen, Spruce/Fir | High Density Log | 70 | Harvest | Clearcut | Aspen | Cmpt. Review Proposal |
|-----------------|------|--------------------------|------------------|----|---------|----------|-------|-----------------------|

Prescription: Remove all stems greater than 2" dbh except cedar or pine, if found. There is a variety of upland and low lying terrain, some which will need to be red lined out (tag alder, wetter swales). High ground ridge has beautiful mature aspen. Sale should be winter cut.

Other Comments:

Next Steps: Regeneration should be checked per Work Instructions

**Total Treatment
Acreage Proposed: 505.9**

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| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0

| Stand | Crystal Falls Mgt. Unit | | 5 – Forested Stands | | | Compartment: 067 | General Comments: |
|-------|--|----------------------|---------------------|------------|----------|---------------------|---|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2012 | |
| 1 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 3.0 | 66 | | | |
| 2 | 4110 - Sugar Maple Association | High Density Log | 78.2 | 82 | 111-140 | | took 7 BA points for average of 131BA |
| 3 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 15.2 | 65 | | | |
| 4 | 4130 - Aspen | High Density Pole | 12.1 | 27 | | | |
| 5 | 4110 - Sugar Maple Association | High Density Pole | 20.0 | 82 | | | large diameter trees on east end |
| 6 | 4119 - Mixed Northern Hardwoods | High Density Pole | 8.4 | 82 | 111-140 | | small diameter trees |
| 8 | 6132 - Mixed Lowland Forest with Cedar | High Density Pole | 41.1 | 96 | | | |
| 9 | 4115 - Y.Birch, Hemlock NH | High Density Log | 34.2 | 82 | 111-140 | | small hemlock/cedar YB pocket runs east-west in central/west part of stand; quality deteriorates as you go east. |
| 10 | 4110 - Sugar Maple Association | High Density Pole | 7.5 | 80 | 111-140 | | |
| 11 | 6132 - Mixed Lowland Forest with Cedar | High Density Log | 117.1 | Uneven Age | | | There are several upland maple/aspen ridges within this stand. An intermittent drainage flows between/within this stand and maple stand to south. Cedar was aged. |
| 12 | 4134 - Aspen, Spruce/Fir | High Density Log | 7.1 | 77 | | | |
| 13 | 4110 - Sugar Maple Association | High Density Log | 34.3 | 82 | 111-140 | | C67 TS sold 2010; larger trees and better quality as you head east |
| 15 | 4130 - Aspen | High Density Pole | 34.9 | 27 | | | |
| 17 | 4134 - Aspen, Spruce/Fir | High Density Log | 88.6 | 67 | | | sold as C67 TS 2010; there is a buffer along drainage that goes through center of stand. |
| 18 | 4130 - Aspen | High Density Sapling | 24.2 | 28 | | | |
| 19 | 6124 - Lowland Spruce-Fir | High Density Sapling | 161.0 | 80 | | | About half of this stand was cut prior to 1939 and has regenerated but not to size class as would be expected. The southeast portion of the stand is more to cedar and was not harvested. |
| 20 | 4199 - Other Mixed Upland Deciduous | High Density Pole | 16.6 | 85 | | | |



| S t a n d | Crystal Falls Mgt. Unit | | 5 – Forested Stands | | | Compartment: 067 |
|-----------------------|--|----------------------|---------------------|--------------|-------------|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Year of Entry: 2012 |
| | | | | | | General Comments: |
| 21 | 6120 - Lowland Cedar | High Density Pole | 21.5 | 106 | | |
| 22 | 4130 - Aspen | High Density Sapling | 87.3 | 22 | | Dick's Hill TS closed 1987 |
| 25 | 4110 - Sugar Maple Association | High Density Log | 48.2 | 82 | 111-140 | |
| 26 | 4134 - Aspen, Spruce/Fir | High Density Log | 20.4 | 64 | | |
| 29 | 4130 - Aspen | High Density Sapling | 82.4 | 25 | | Camp Charles TS closed 1984 |
| 30 | 4115 - Y.Birch, Hemlock NH | High Density Pole | 55.5 | 82 | 111-140 | Red maple & balsam fir mixed in along the fringe of the stand; red maple on north and west side. There were 2 sales in here, the Impoundment Sale closed 1996 and the Deep Freeze sale, closed 1996, the latter appears to be an aspen removal along the west half of the stand. |
| 31 | 4130 - Aspen | High Density Log | 13.5 | 48 | | |
| 32 | 4130 - Aspen | High Density Pole | 37.4 | 26 | | |
| 33 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 18.3 | 50 | | |
| 34 | 4110 - Sugar Maple Association | High Density Pole | 62.5 | 82 | 111-140 | |
| 35 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 23.3 | 96 | | There is a drainage in the narrows between stands 37 & 29. |
| 36 | 4130 - Aspen | High Density Pole | 35.7 | 38 | | Some buckthorn along trail going west |
| 37 | 4130 - Aspen | High Density Sapling | 74.7 | 25 | | Camp Charles TS closed 1984 |
| 39 | 4134 - Aspen, Spruce/Fir | High Density Log | 41.1 | 70 | | Some low-lying areas, however same timber type; high ground ridge has large, mature aspen. |
| 41 | 4110 - Sugar Maple Association | High Density Pole | 7.0 | 82 | 111-140 | |
| 42 | 4130 - Aspen | High Density Pole | 22.4 | 40 | | South ridge along private is all ironwood saplings 4" dbh; hardwood is concentrated along Camp 3 rd |





| Stand | Cover Type | Acres | Gen Cmts: |
|-------|----------------------------------|-------|-----------|
| 7 | 310 - Herbaceous Openland | 2.6 | |
| 14 | 622 - Lowland Shrub | 3.5 | |
| 16 | 622 - Lowland Shrub | 10.5 | |
| 23 | 310 - Herbaceous Openland | 4.8 | |
| 24 | 622 - Lowland Shrub | 49.9 | |
| 27 | 50 - Water | 59.9 | |
| 28 | 629 - Mixed non-forested wetland | 106.5 | |
| 38 | 310 - Herbaceous Openland | 1.7 | |
| 40 | 310 - Herbaceous Openland | 3.7 | |



7 – 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.

Inventory Method: IFMAP

| Stand | SCA Type | SCA Name | Acres | Comments |
|-------|----------|----------|-------|----------|
|-------|----------|----------|-------|----------|



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

| Conservation Area | Type | Description |
|-------------------|-------------------|---|
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies. |