

# Crystal Falls Forest Management Unit Compartment Review Presentation Compartment #16 Entry Year: 2012

Compartment Acreage: 1525 County: Dickinson

**Revision Date:** 6-23-2010

**Stand Examiner:** Terry Cryderman

**Legal Description:** T44N R28W Sec 3-5, 9-11

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

**Management Goals:** Develop age class distribution in aspen type. Maintain diversity in hardwood types.

Increase conifers where possible.

**Soil and Topography:** Rolling hills to swamps.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is all State-owned land, used by loggers, hunters, fisherpeople, campers, trappers, general recreationists. State land surrounds much of the compartment boundary.

Unique, Natural Features: Wild West Creek, Flat Rock Creek, Schwartz Creek

Archeological, Historical, and Cultural Features: None known

**Special Management Designations or Considerations:** None known

**Watershed and Fisheries Considerations:** Protect water quality for all bodies of water, particularly the Wild West, Flat Rock and Schwartz Creeks. 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. There is insufficient data to determine the glacial drift thickness. The Cambrian Munising Formation and Precambrian granite/gneiss subcrop below the glacial drift. There is not an economic use for these rocks, although some might have dimension stone potential. A rock (type?) quarry is located three miles to the north. Iron mines are located approximately fifteen miles to the southwest. A gravel pit is located six miles to the northwest. Part of this area was previously leased for metallic exploration and potential may still exist. There is no economic oil and gas production in the UP.

Vehicle Access: County Road 581 north from Ralph to Aimone Road then northwest on Schwartz Creek

Road.

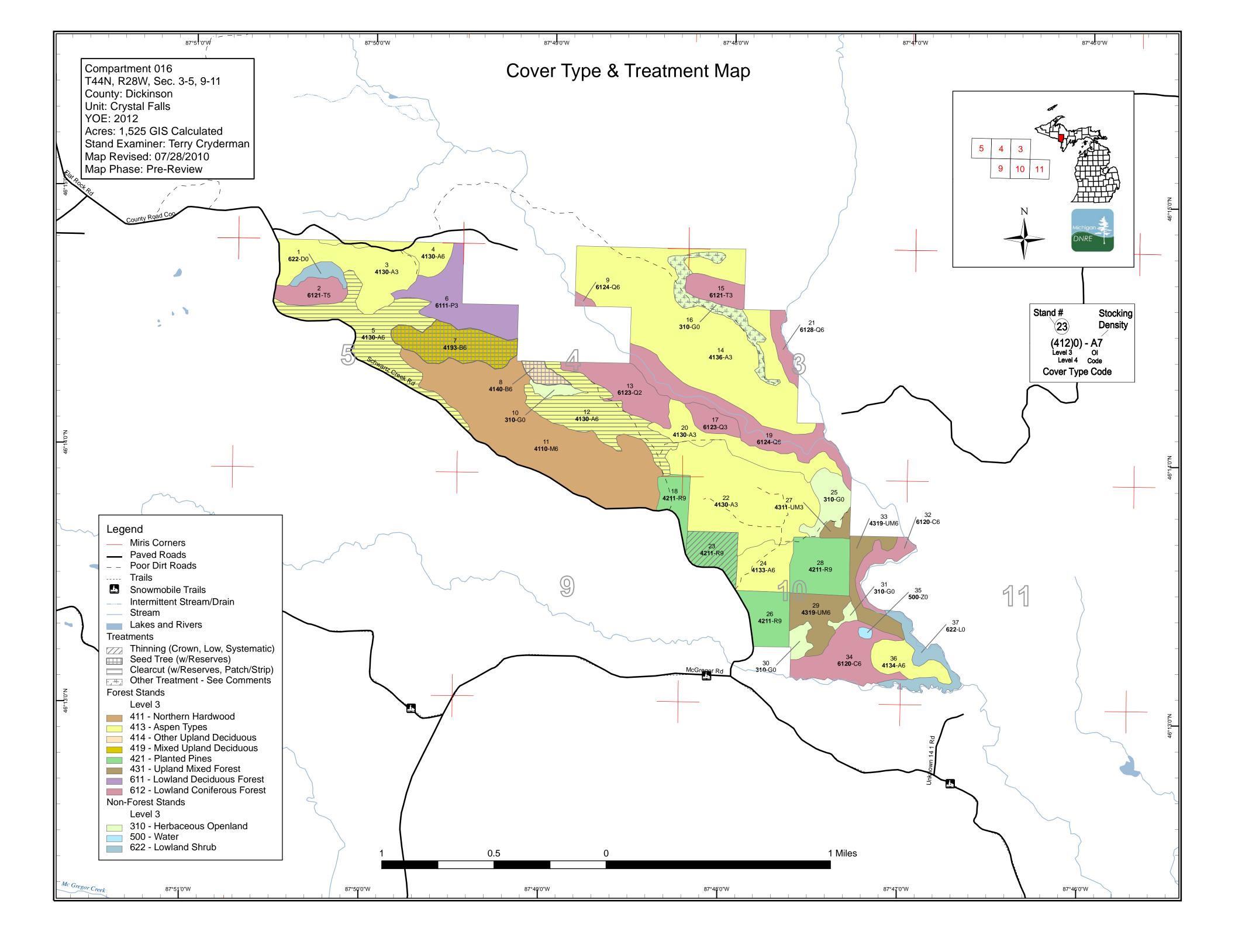
**Survey Needs:** Needed in section 4

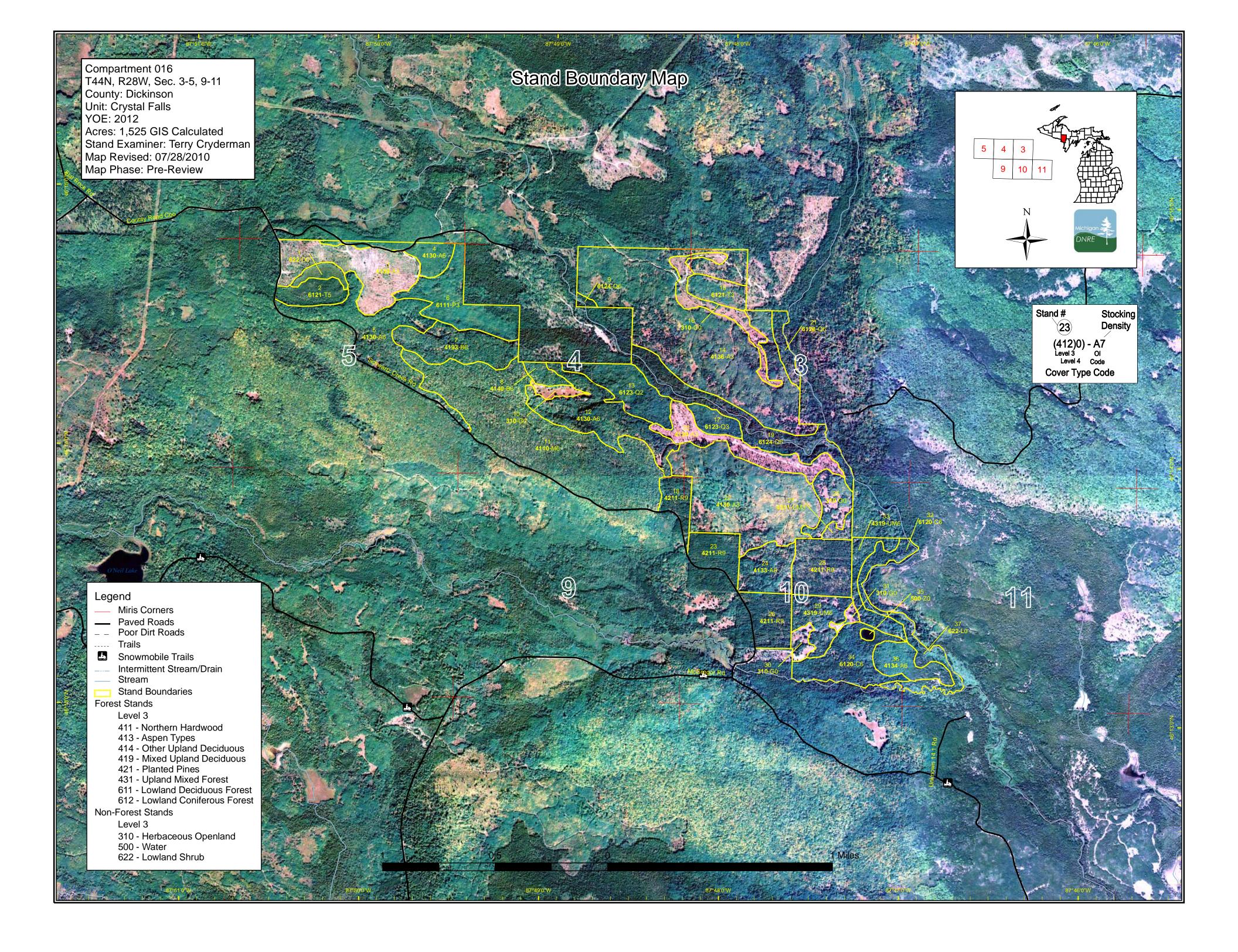
Recreational Facilities and Opportunities: Hunting, camping, fishing, trapping, hiking.

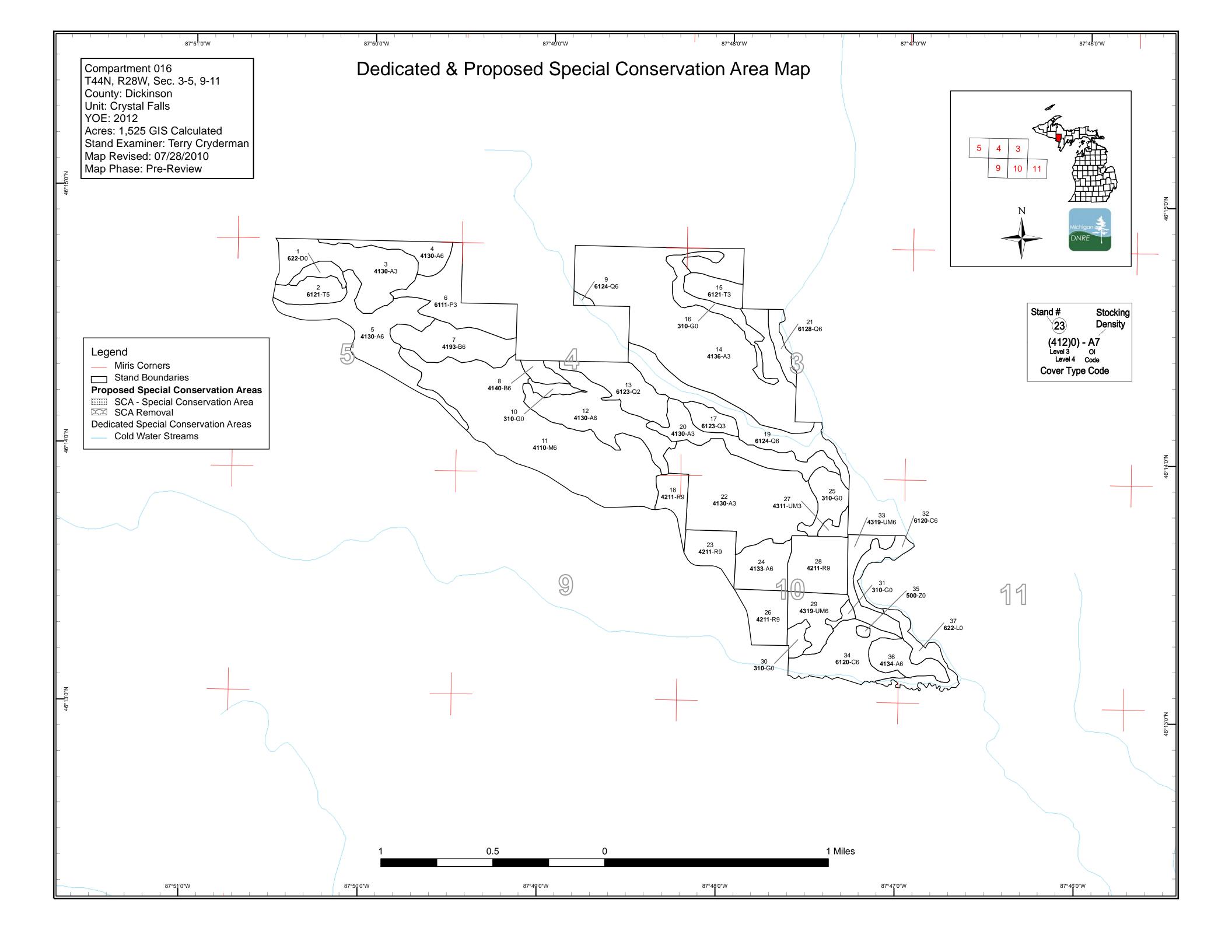
**Fire Protection:** Felch protection area. Access to most upland stands is poor to fair, access to some swamp types would be difficult.

## **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









|                             | Age Class |                 |       |     |       |         |          |   |     |           |     |     |                  |       |        |      |        |
|-----------------------------|-----------|-----------------|-------|-----|-------|---------|----------|---|-----|-----------|-----|-----|------------------|-------|--------|------|--------|
|                             | Not       | Do Best of Land | \$ /s | 0,0 | 10.7° | , S. J. | D. P. C. | \$ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | 800 | , no. / . | 800 | , S | on on the second | 70,73 | 70× Ju | RS / | , 8° / |
| Aspen                       | 0         | 110             | 133   | 245 | 77    | 0       | 144      | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 709  |        |
| Cedar                       | 0         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 63        | 0   | 0   | 0                | 0     | 0      | 63   |        |
| Herbaceous Openland         | 68        | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 68   |        |
| Lowland Aspen/Balsam Poplar | 0         | 0               | 0     | 55  | 0     | 0       | 0        | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 55   |        |
| Lowland Conifers            | 0         | 0               | 0     | 54  | 0     | 0       | 0        | 0                                       | 0   | 78        | 0   | 0   | 0                | 0     | 0      | 131  |        |
| Lowland Shrub               | 22        | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 22   |        |
| Northern Hardwood           | 0         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 199       | 0   | 0   | 0                | 0     | 0      | 199  | ]      |
| Paper Birch                 | 0         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 56        | 0   | 0   | 0                | 0     | 0      | 56   | ]      |
| Red Pine                    | 0         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 114 | 0         | 0   | 0   | 0                | 0     | 0      | 114  | ]      |
| Tamarack                    | 0         | 0               | 0     | 18  | 0     | 0       | 0        | 0                                       | 20  | 0         | 0   | 0   | 0                | 0     | 0      | 38   |        |
| Treed Bog                   | 9         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 9    |        |
| Upland Mixed Forest         | 0         | 6               | 0     | 0   | 0     | 0       | 0        | 29                                      | 23  | 0         | 0   | 0   | 0                | 0     | 0      | 59   |        |
| Water                       | 2         | 0               | 0     | 0   | 0     | 0       | 0        | 0                                       | 0   | 0         | 0   | 0   | 0                | 0     | 0      | 2    |        |
| Total                       | 101       | 116             | 133   | 372 | 77    | 0       | 144      | 29                                      | 157 | 395       | 0   | 0   | 0                | 0     | 0      | 1525 | ]      |



# **Table 2 – Proposed Treatment Summaries**

Crystal Falls Mgt. Unit

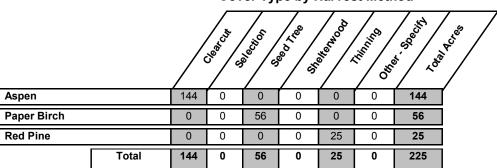
Compartment 016 Year of Entry 2012 **Total Compartment Acres: 1525** 

#### **Acres by Treatment Type**

Commercial Harvest - 225 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 27

## **Cover Type by Harvest Method**



Compartment: 016 Crystal Falls Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Method Objective Name CoverType Density **Status** d Age Type 5 12016005-Cut 76.7 4130 - Aspen High Density Pole 56 Harvest Clearcut with Aspen Cmpt. Review Proposal Reserves Prescription Cut all stems two inches and larger to insure adequate regeneration. Retention along stand 2. Leave oak. Specs: Other Property Comments: <u>Next</u> Regeneration survey in 4 years. Steps: 7 **12016007-Cut** 47.4 4193 - Birch, Aspen High Density Pole 83 Harvest Seed Tree with Aspen Cmpt. Review Reserves Proposal Prescription Leave 5 seed trees per acre. Seed trees will serve as retention. Specs: Other Property Comments: Scarify for birch regeneration. This is a good site for birch. Monitor the success of regeneration. Acceptable regeneration mix of birch, aspen, <u>Next</u> maple, spruce and balsam fir. Steps: 12016008-Cut 4140 - Other 8 8.4 High Density Pole 83 Harvest Seed Tree Birch, Aspen Cmpt. Review **Upland Deciduous** Proposal Prescription Leave 5 trees per acre. Specs: Other Comments: Monitor the success of regeneration. <u>Next</u> Steps: Acceptable regeneration mix of birch, aspen, maple, spruce and balsam. Scarify for birch regeneration. This is a good site for birch. 12016012-Cut 67.6 4130 - Aspen High Density Pole 50 Harvest Clearcut with Aspen Cmpt. Review 12 Reserves Proposal Prescription Cut all stems two inches and over to insure adequate regeneration. Specs: Other Comments: **Next** Steps: 23 12016023-Cut 24.7 42110 - Planted High Density Log 71 Harvest Crown Thinning Planted Red Pine Cmpt. Review Red Pine Proposal Prescription Cut all aspen and jack pine. Mark red pine to cut. Leave all oak. Thin to 110 basal area. Specs: Other\_ cut will include pulpwood and sawlogs. Comments:

Next Steps:

Crystal Falls Mgt. Unit Table 3 -- Treatments Prescribed Compartment: 016 Year of Entry 2012 with No Limiting Factor s t а **Treatment Treatment Treatment** Acres Stage1 Size Stand **Cover Type Approval** n Name CoverType Density Method Objective Status Type Age d 16 NF\_12016016-26.8 Non-Forested 0 Non-Forest Other - Specify Cool Season Grass Cmpt. Review NonFor Management Proposal <u>Prescription</u> Opening Maintenance: Disc, Seed & Fertilize and Berm Hunter Walking Trail. Specs: <u>Other</u>

**Total Treatment** 

Comments:
Next
Steps:

Acreage Proposed: 251.7

| S<br>t               |                   | Crystal F | alls Mgt. Unit      | Table 4         |              | ents Prescrib<br>ng Factor | ed with             | Compartment: 016<br>Year of Entry 2012 | Michigan DNRE      |
|----------------------|-------------------|-----------|---------------------|-----------------|--------------|----------------------------|---------------------|--|--------------------|
| a<br>n<br>d          | Treatment<br>Name | Acres     | Stage1<br>CoverType | Size<br>Density | Stand<br>Age | Treatment<br>Type          | Treatment<br>Method | Cover Type<br>Objective                | Approval<br>Status |
|                      |                   |           | #Error              |                 |              |                            |                     |  |                    |
| Preso<br>Spec        | cription<br>s:    |           |                     |                 |              |                            |                     |  |                    |
| Other<br>Comr        | -                 |           |                     |                 |              |                            |                     |  |                    |
| <u>Next</u><br>Steps | <u>s:</u>         |           |                     |                 |              |                            |                     |  |                    |

Total Treatment Acreage Proposed:

Limiting Factor and No Treatment Reason

0

| s<br>t      | Crystal Falls Mgt. Unit                          |                         |       |              | orested Stands<br>ry Method: IFMAP | Compartment: 016 Year of Entry: 2012  Michigan DNRE                  |
|-------------|--|-------------------------|-------|--------------|------------------------------------|--|
| a<br>n<br>d | Level 4<br>Cover Type                            | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range                        | General<br>Comments:   |
| 2           | 6121 - Tamarack                                  | Medium<br>Density Pole  | 20.1  | 77           |                                    |  |
| 3           | 4130 - Aspen                                     | High Density<br>Sapling | 67.6  | 5            |                                    |  |
| 4           | 4130 - Aspen                                     | High Density<br>Pole    | 21.5  | 32           |                                    |  |
| 5           | 4130 - Aspen                                     | High Density<br>Pole    | 76.7  | 56           |                                    | Cut all stems two inches and larger to insure adequate regeneration. |
| 6           | 6111 - Lowland Balsam<br>Poplar                  | High Density<br>Sapling | 55.1  | 22           |                                    |  |
| 7           | 4193 - Birch, Aspen                              | High Density<br>Pole    | 47.4  | 83           |                                    |  |
| 8           | 4140 - Other Upland<br>Deciduous                 | High Density<br>Pole    | 8.4   | 83           |                                    |  |
| 9           | 6124 - Lowland Spruce-<br>Fir                    | High Density<br>Pole    | 2.4   | 83           |                                    |  |
| 11          | 4110 - Sugar Maple<br>Association                | High Density<br>Pole    | 199.2 | 83           | 81-110                             |  |
| 12          | 4130 - Aspen                                     | High Density<br>Pole    | 67.6  | 50           |                                    |  |
| 13          | 6123 - Lowland Fir                               | Medium<br>Density       | 40.1  | 22           |                                    |  |
| 14          | 4136 - Aspen, Mixed<br>Conifer                   | High Density<br>Sapling | 244.8 | 25           |                                    |  |
| 15          | 6121 - Tamarack                                  | High Density<br>Sapling | 18.1  | 25           |                                    |  |
| 17          | 6123 - Lowland Fir                               | High Density<br>Sapling | 13.7  | 22           |                                    |  |
| 18          | 42110 - Planted Red<br>Pine                      | High Density<br>Log     | 17.5  | 71           |                                    |  |
| 19          | 6124 - Lowland Spruce-<br>Fir                    | High Density<br>Pole    | 63.3  | 82           |                                    |  |
| 20          | 4130 - Aspen                                     | High Density<br>Sapling | 42.1  | 5            |                                    |  |
| 21          | 6128 - Lowland<br>Coniferous, Mixed<br>Deciduous | High Density<br>Pole    | 11.8  | 82           |                                    |  |

| s<br>t      | Crystal Falls                 | s Mgt. Unit             |       |              | orested Stands<br>ry Method: IFMAP | Compartment: 016 Year of Entry: 2012  DNRE |
|-------------|-------------------------------|-------------------------|-------|--------------|------------------------------------|--|
| a<br>n<br>d | Level 4<br>Cover Type         | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range                        | General<br>Comments:                       |
| 22          | 4130 - Aspen                  | High Density<br>Sapling | 132.8 | 15           |                                    |  |
| 23          | 42110 - Planted Red<br>Pine   | High Density<br>Log     | 24.7  | 71           | 141-170                            |  |
| 24          | 4133 - Aspen, Mixed<br>Pine   | High Density<br>Pole    | 31.5  | 34           |                                    |  |
| 26          | 42110 - Planted Red<br>Pine   | High Density<br>Log     | 29.2  | 71           | 81-110                             |  |
| 27          | 4311 - Pine, Aspen Mix        | High Density<br>Sapling | 6.2   | 4            |                                    |  |
| 28          | 42110 - Planted Red<br>Pine   | High Density<br>Log     | 42.2  | 71           | 81-110                             |  |
| 29          | 4319 - Mixed Upland<br>Forest | High Density<br>Pole    | 29.2  | 62           |                                    |  |
| 32          | 6120 - Lowland Cedar          | High Density<br>Pole    | 14.9  | 81           |                                    |  |
| 33          | 4319 - Mixed Upland<br>Forest | High Density<br>Pole    | 23.3  | 71           |                                    |  |
| 34          | 6120 - Lowland Cedar          | High Density<br>Pole    | 47.6  | 81           |                                    |  |
| 36          | 4134 - Aspen,<br>Spruce/Fir   | High Density<br>Pole    | 24.2  | 35           |                                    |  |

Crystal Falls Mgt. Unit

# 6 - Nonforested Stands Inventory Method: IFMAP

Compartment: 016 Year of Entry: 2012



| Stand | Cover Type                | Acres | Gen Cmts: |
|-------|---------------------------|-------|-----------|
| 1     | 6224 - Treed Bog          | 9.0   |           |
| 10    | 310 - Herbaceous Openland | 6.6   |           |
| 16    | 310 - Herbaceous Openland | 26.8  |           |
| 25    | 310 - Herbaceous Openland | 23.4  |           |
| 30    | 310 - Herbaceous Openland | 7.9   |           |
| 31    | 310 - Herbaceous Openland | 3.7   |           |
| 35    | 50 - Water                | 1.7   |           |
| 37    | 622 - Lowland Shrub       | 22.1  |           |

Crystal Falls Mgt. Unit Compartment: 016

Year of Entry: 2012



#### 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 |
|-------|----------|----------|-------|----------|
|       |          |          |       |          |
|       |          |          |       |          |

Crystal Falls Mgt. Unit Company





#### **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.

| Conservation<br>Area | Type                 | Description   | HCVA = High Conservation Value Area SCA = Special Conservation Area |
|----------------------|----------------------|---|---|
| SCA                  | Cold Water<br>Stream | stocked trout populations and those of other cold-<br>year to year. Coldwater streams in Michigan typic | s. Such streams are established by Director's action and            |