CADILLAC FOREST MANAGEMENT UNIT



COMPARTMENT REVIEW PRESENTATION COMPARTMENT # 150 ENTRY YEAR: 2012

Compartment Acreage (GIS Acres): 1,641 County: Wexford

Revision Date: 10/11/2010 8:51 AM

Stand Examiner: Andy Church

Legal Description: T24N, R10W Sections 1-3, 10-12.

RMU (if applicable): 237

Management Goals: Maintain a variety of cover types and age class diversity which favor a variety of game and non game species. Maintain visual impact integrity near main county roads and Manistee River. Preserve water quality by using BMPs. The Manistee is being nominated for Natural River Status and management plans should follow the guidelines set for the River.

Soil and Topography: Rubicon–Montcalm–Graycalm, Nester–Kawkawlin–Manistee and Tawas-Croswell-Lupton. Soils are poorly drained with perched water table in spots. Topography generally flat with steeper areas along Manistee River and tributaries.

Ownership Patterns, Development, and Land Use in and Around the Compartment: A private subdivision is located in S1/2SWNE of Section 10. A large pipeline corridor and a separate electric corridor traverse sections 11 and 12. A small private parcel on the south bank of the Manistee River is located in the NW corner of Section 10. This parcel has legal easement. Consumers' Energy owns timber rights on all of the significant red pine plantations.

Acquisition: N1/2SW Section 10. That portion of the W1/2NE South of the Manistee River Section 10. The SESESE of Section 12. The small parcel in the NWNW SEC.10 lying South of the Manistee River. **Disposals:** None.

Unique, Natural Features (include only non-site specific and non-sensitive information): Historical wood turtle* record from vicinity of compartment (sections 3, 4, 9, and 10). Historical great blue heron rookery to SW. Red-shouldered hawk occurrence to E. Northern goshawk documented to NW. Bald eagle record to SE. Ginseng documented to E. Hill's thistle records to NE. Bog record to NE. Pine barrens documented to E and NE. Potential for eastern massasauga, wood turtle, and Blanding's turtle. Potential for red-shouldered hawk and northern goshawk. Potential for eagle, osprey, and great blue heron rookery.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Nothing on record.

Special Management Designations or Considerations: Maintain visual impact integrity near Manistee River. Preserve water quality BMPs.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Featured wildlife species are deer, ruffed grouse, and woodcock. The Manistee River runs along the north edge of the compartment. The river valley is utilized as a travel corridor for numerous wildlife species and is an important white-tailed deer wintering area. Wildlife habitat objectives are to continue to maintain species and age-class diversity across the compartment. (L. Smith. 9/24/10)

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift are the Mississippian Coldwater Shale and the Marshall Sandstone. The Marshall was previously used as a building stone. A gravel pit is located three miles to the north, but potential is considered to be limited. This area lies six miles south of the prolific Silurian Niagaran reef trend. There does not appear to be any potential for Niagaran reefs in this area. This area is not currently leased for oil and gas and potential is limited. The compartment is mostly surface only.

Vehicle Access: A forest road access plan is detailed on the compartment map.

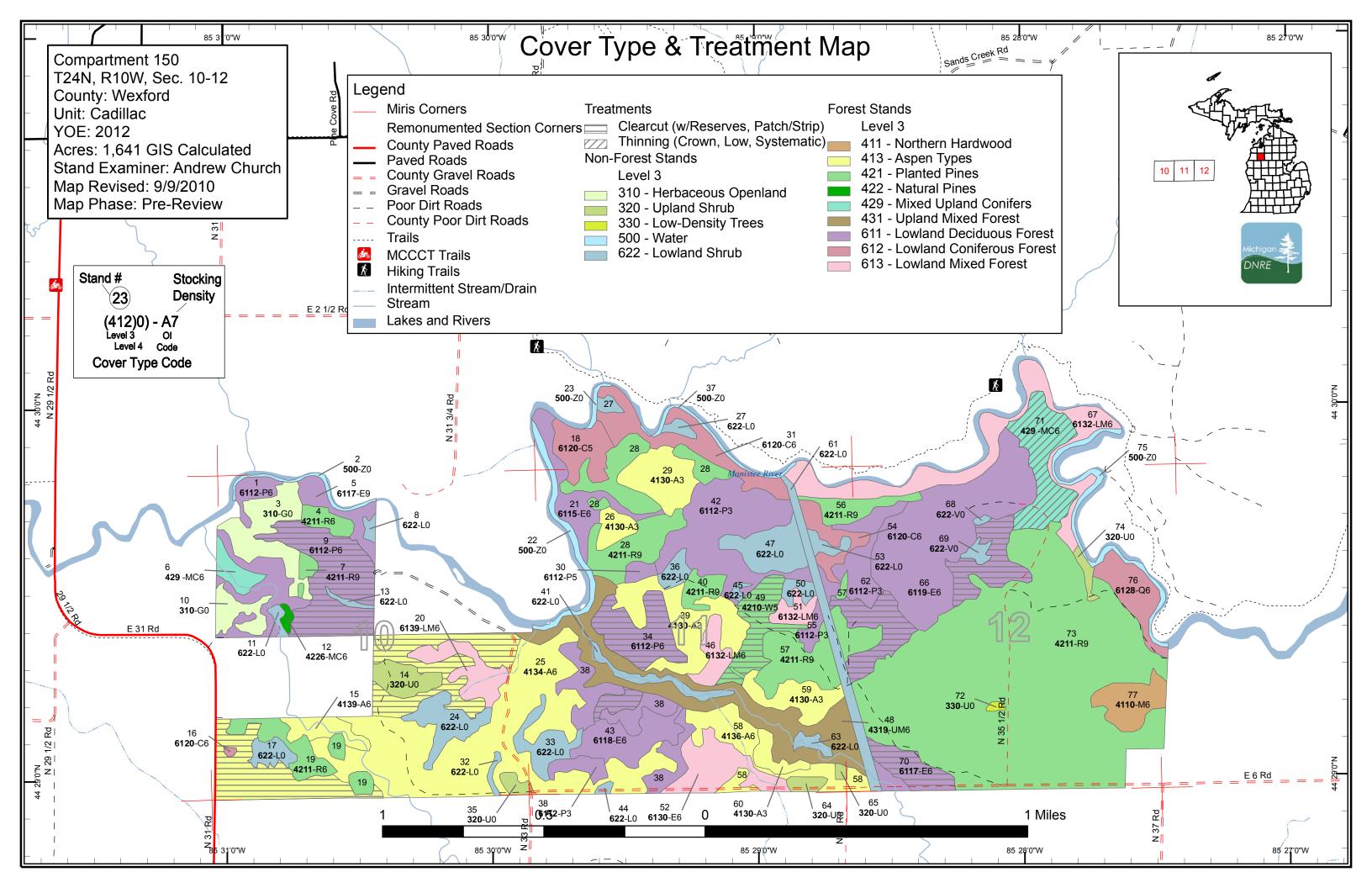
Survey Needs: Survey Request in place for Section 10.

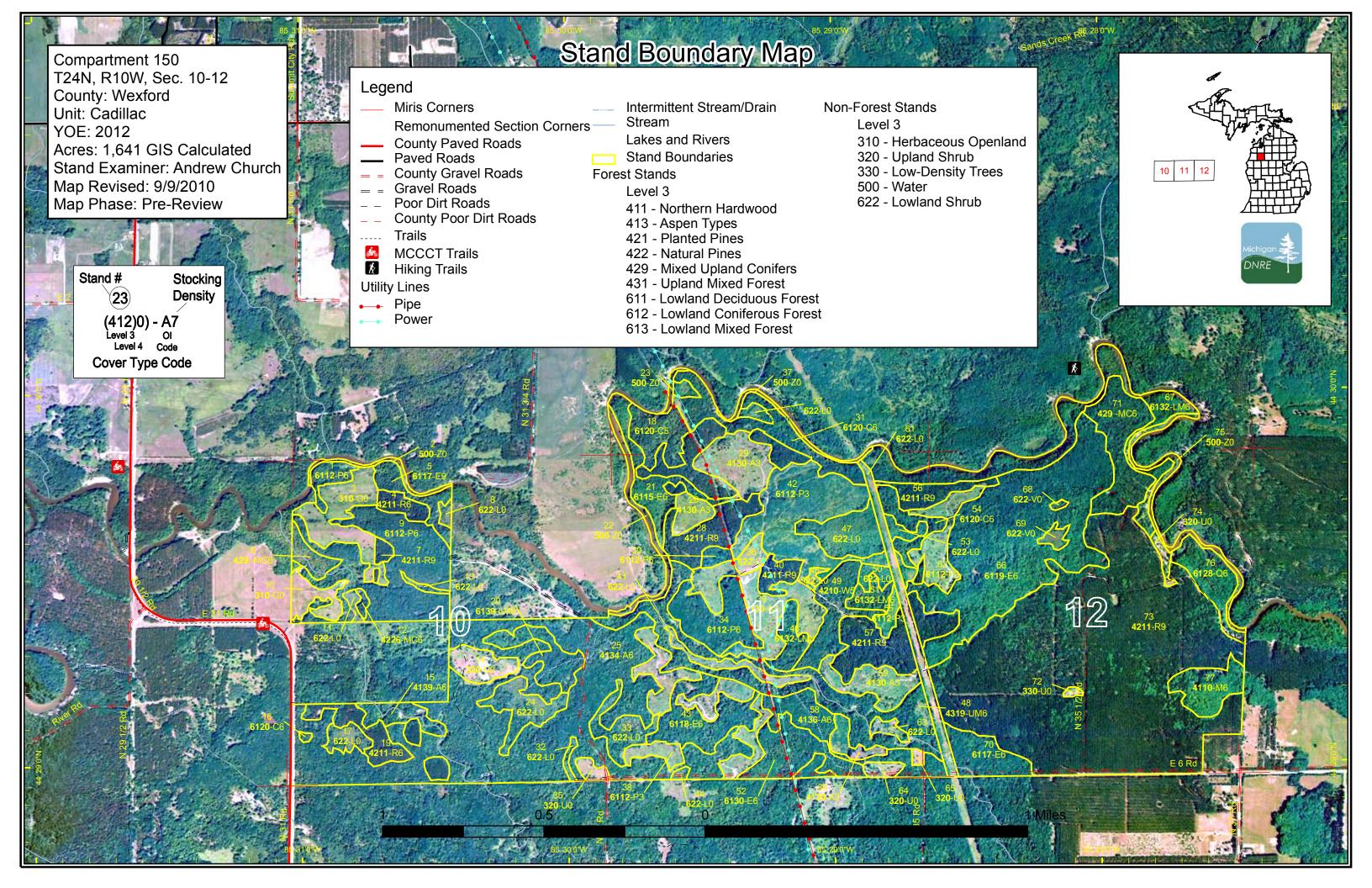
Recreational Facilities and Opportunities: None

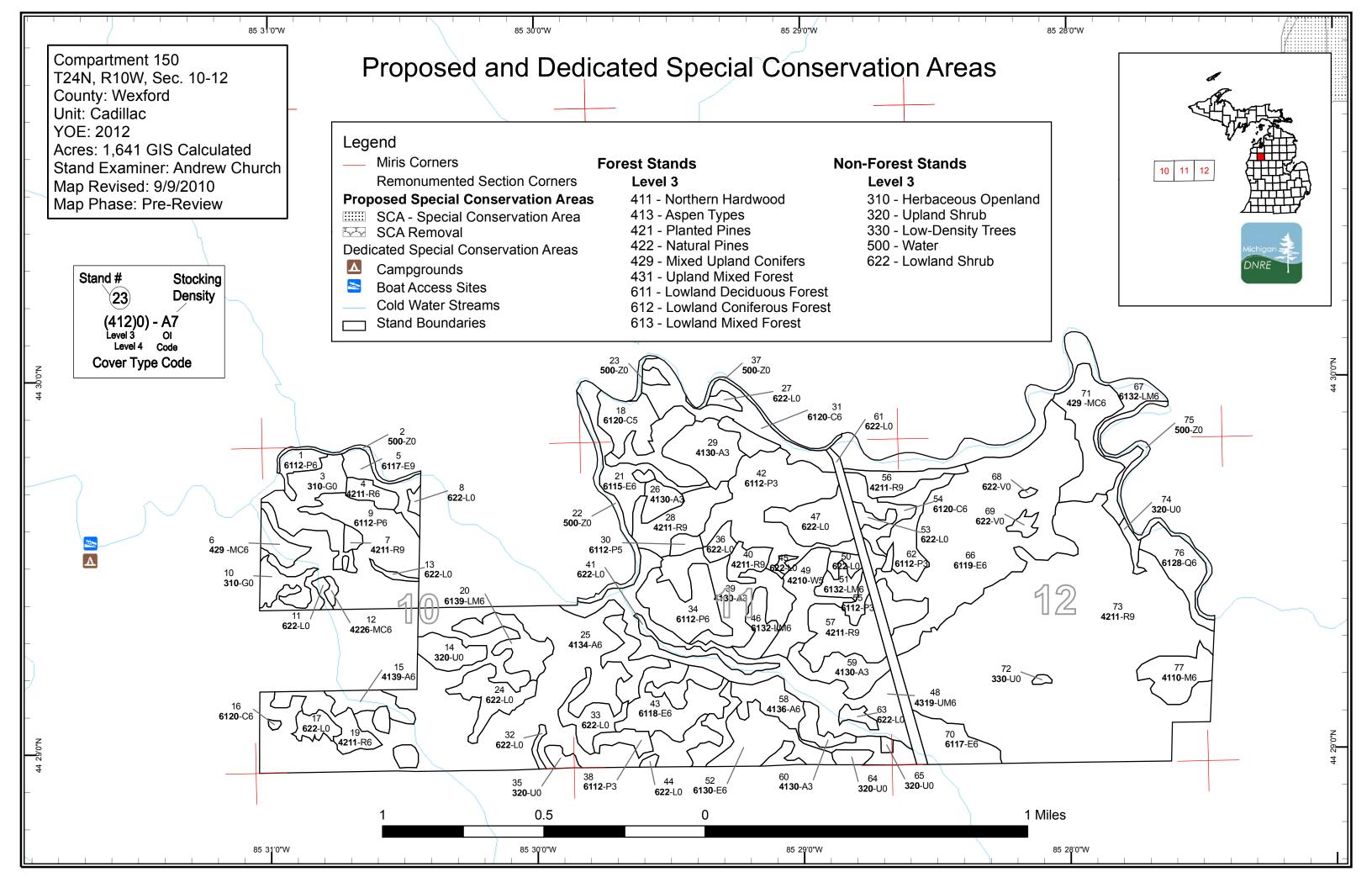
Fire Protection: Areas of pine fuel types could support intense fires. Access due to terrain could affect fire growth in this compartment. Access would be fairly good for suppression equipment, except in areas the border the Manistee River. 10-4-10/BRA

Additional Compartment Information: None

- ➤ The following 5 reports from the Operations Inventory System (OIPC) are attached:
 - **♦** Cover Type by Age Class
 - **♦** Cover Type by Management Objective
 - **♦** Compartment Volume Summary
 - **♦** Proposed Treatments No Limiting Factors
 - **♦** Proposed Treatments With Limiting Factors
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - ♦ Base feature information, stand numbers, cover types
 - **♦** Proposed treatments
 - ♦ Proposed road access system
 - ♦ Suggested potential old growth







Data updated yesterday after 6:00 PM

Compartment 150 Year of Entry 2012



Age Class

| Second Content Seco | | | _ | | | | | | | | | | | | | | |
|--|-----------------------------|-------|------------------|----|------|----------------------|----------|----------------------|------|------|-------|---------------------|----------|----------------------|------|-------|--------|
| pen 0 82 0 0 219 0 0 0 0 0 0 0 0 0 | | / | | | /2 / | / _{&} / | / % / | / _{&} / | /s / | /& / | / 2 | / | / % / | \g^* | /2/ | /* / | \& / |
| pen 0 82 0 0 219 0 0 0 0 0 0 0 0 0 | | Jac S | ⁴ 0 / | | 0 | \$o., \ \ | \$g' / | 10 1 | 8 | 8 / | ve, \ | 81 ₂ \ 8 | s' / | 'g _{o'} / ' | ío / | 20 Ju | ight / |
| tidar 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Aspen | | | | 0 | 219 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Arbaceous Openland 35 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Bog | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Novel Nove | Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 52 | 53 |
| Waland Aspen/Balsam Poplar 0 51 57 0 0 0 100 0 0 0 0 0 | Herbaceous Openland | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Waland Conifers 0 | Low-Density Trees | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Note | Lowland Aspen/Balsam Poplar | 0 | 51 | 57 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 209 |
| Note | Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 |
| wland Shrub 105 0 < | Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 142 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 37 | 197 |
| tural Mixed Pines 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 orthern Hardwood 0 0 0 0 0 0 0 16 0 0 0 0 0 0 0 0 0 16 orthern Hardwood 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Lowland Mixed Forest | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 | 100 |
| orthern Hardwood 0 0 0 0 0 16 0 | Lowland Shrub | 105 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 105 |
| ad Pine 0 </th <td>Natural Mixed Pines</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> | Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| bland Conifers 0 | Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| bland Mixed Forest 0 | Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 428 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 428 |
| bland Shrub 21 0 <t< th=""><td>Upland Conifers</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>30</td><td>0</td><td>7</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>36</td></t<> | Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 36 |
| ater 27 0 <td>Upland Mixed Forest</td> <td>0</td> <td>60</td> <td>60</td> | Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 60 |
| hite Pine 0 0 0 0 0 0 0 0 0 0 0 0 0 0 20 20 | Upland Shrub | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| | Water | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| otal 192 133 57 0 242 0 718 0 7 0 1 19 0 0 273 1641 | White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 |
| | Total | 192 | 133 | 57 | 0 | 242 | 0 | 718 | 0 | 7 | 0 | 1 | 19 | 0 | 0 | 273 | 1641 |



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Cadillac Mgt. Unit Year of Entry 2012

Compartment 150 Total Compartment Acres: 1641

Acres by Treatment Type

Commercial Harvest - 242 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 5 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

| | | Cover Type by Harvest Method | | | | | | | | | |
|-----------------------------|----------|------------------------------|-----------|---|---|--|--|-----|--|--|--|
| | | / | #10.00 O. | To | N. S. | No N | in Service Ser | | S. R. S. | | |
| Aspen | | 69 | 0 | 0 | 0 | 0 | 0 | 69 | | | |
| Lowland Aspen/Balsam Poplar | | 71 | 0 | 0 | 0 | 0 | 0 | 71 | | | |
| Lowland Deciduous | | 59 | 0 | 0 | 0 | 0 | 0 | 59 | | | |
| Upland Conifers | 0 | 0 | 0 | 0 | 30 | 0 | 30 | | | | |
| White Pine | <u> </u> | 20 | 0 | 0 | 0 | 0 | 0 | 20 | | | |
| | Total | 218 | 0 | 0 | 0 | 30 | 0 | 248 | | | |

Compartment: 150 Cadillac Mgt. Unit Table 3 -- Treatments Prescribed with No Limiting Factor Year of Entry 2012 s Data updated yesterday after 6:00 PM t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Density Method CoverType Objective **Status** d Name Age Type 25 63150025-Cut 68.7 4134 - Aspen, High Density Pole 38 Harvest Clearcut with Aspen Cmpt. Review Spruce/Fir Reserves Proposal Prescription Final harvest portion to break up age of stand. Leave all Cedar, Hemlock and Oak. Winter cut only. Buffer Silver Creek and tributaries at appropriate distances. Retention: Buffers, Cedar, Hemlock, and Oak. Acceptable alternative regen: Maple/Fir. Specs: <u>Other</u> Mostly upland, but some lowland pockets. Thick fir understory in wet areas. Drainages mixed throughout. Scattered Cedar and Hemlock in wet Comments: areas. **Next** Steps: 34 63150034-Cut 25.2 6112 - Lowland High Density Pole 52 Harvest Clearcut with Lowland Aspen Cmpt. Review Aspen Reserves Proposal Prescription Final harvest. Leave all Cedar, Hemlock, and Oak. Buffer Buttermilk Creek and Manistee River at appropriate distances. Retention: Buffers, Cedar, Hemlock, and Oak. Acceptable alternative regen: Swamp Hardwoods Specs: Wet. Poor quality Aspen stand. Small drainage through middle armored by Cedars. <u>Other</u> Comments: <u>Next</u> Steps: 43 63150043-Cut 5.1 6118 - Lowland High Density Pole 87 Harvest Clearcut Cmpt. Review Aspen Deciduous with Proposal Cedar Prescription Final Harvest portion. Habitat cut. Retention: uncut portion. Acceptable alternative regen: Maple/Fir Specs: Other_ Habitat cut. Comments: Next

Steps:

Medium Density

White Pine Proposal Pole Reserves

Harvest

Clearcut with

62

Prescription Final Harvest. Leave all Cedar and Hemlock. Buffer Buttermilk Creek at appropriate distance. Retention: Strip of uncut timber shown on map, Buffer along creek, Cedar, and Hemlock. Acceptable alternative regen: Maple/Fir. Specs:

Other_ Center of stand thinned last rotation. South and North portion still in unthinned planted rows of White Pine and White Spruce. The cut portion has thick understory of Aspen. Scattered Aspen throughout. White Pine is very poor quality. Comments:

Next Steps:

49

63150049-Cut 19 7

42100 - Planted

63150066-Cut 40.0 6119 - Mixed Lowland Deciduous Cmpt. Review 66 High Density Pole 50 Harvest Clearcut with **Lowland Deciduous** with Cedar Reserves Proposal Forest

Prescription Final Harvest portion of stand to diversify age class, and guard against flooding of regen. Winter cut only. Leave all Cedar and Hemlock. Retention: Uncut portion of stand, Cedar, and Hemlock. Acceptable alternative regen: Swamp hardwoods. Specs:

Other Mostly lowland with areas of high ground. Pockets of Cedar, and pockets of Swamp Hardwoods throughout. Many drainages throughout. Two small planted WP fingers in stand south of st#71. Comments:

Next Steps: Cmpt. Review

Aspen

Cadillac Mgt. Unit

Data updated yesterday after 6:00 PM

Coniferous

Table 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 150 Year of Entry 2012 Michigan DNRE

| a n d | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-------------|-------------------|-------|------------------------------------|-------------------|--------------|-------------------|------------------------|-------------------------|--------------------------|
| 70 | 63150070-Cut | 13.4 | 6117 - Lowland Deciduous, Mixed | High Density Pole | 52 | Harvest | Clearcut with Reserves | Lowland Aspen | Cmpt. Review Proposal |

<u>Prescription</u> Final harvest. Leave all Cedar and Hemlock. Buffer Buttermilk Creek at appropriate distances. Winter cut only. Retention: Buffer, Cedar and <u>Specs:</u> Hemlock. Acceptable alternative regen: Swamp hardwoods.

Other Wet hummocky ground. Scattered Cedar and Swamp Hardwoods throughout. Good maple regen.

Comments:

Next Steps:

S

71 63150071-Cut 29.5 429 - Mixed Upland High Density Pole 58 Harvest Systematic Thinning Mixed Upland Forest Cmpt. Review Conifers

<u>Prescription</u> Harvest every 3rd row. Cut all Aspen and Red Maple. Leave all Oak, and Mixed Hardwoods (other than Aspen and Red Maple). Buffer <u>Specs:</u> Manistee River at appropriate distances. Retention: Remaining Rows, Buffers, Oak, and Mixed Hardwoods.

Other Planted White Spruce, and White Pine stand growing on steps down to Manistee River. WP very poor quality. Setup for harvest last rotation but Comments: never cut.

Next Steps:

Total Treatment

Acreage Proposed: 201.7

a Limiting Factor s Year of Entry 2012 Data updated yesterday after 6:00 PM t а **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n Method CoverType Objective **Status** Name Density Age Type 9 63150009-Cut 45.9 6112 - Lowland High Density Pole 58 Clearcut with Lowland Aspen Harvest Cmpt. Review Aspen Reserves Proposal

Table 4 -- Treatments Prescribed with

Compartment: 150

Prescription Final harvest. Leave all Hard Maple, Oak, Cedar and Hemlock. Winter cut only. Access through private. Survey corners needed. Retention: Specs:

Hard Maple, Oak, Cedar, and Hemlock. Acceptable alternative Regen: Swamp Hardwoods.

Wet. Thick understory. Many drainages throughout. Small pockets of Cedar mixed throughout stand. Mostly lowland with pockets of high <u>Other</u> Comment:

ground. High ground compromised of Northern Hardwoods.

Cadillac Mgt. Unit

<u>Next</u> Steps:

Limiting Factor and No 2A: Adjacent landowner denies

Treatment Reason access

Access through private.

Total Treatment

45.9 **Acreage Proposed:**

Data updated yesterday after 6:00 PM

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2012

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| Name | Acres | CoverType | Density | Age | Type | Method | Objective | Status | |
|---------------------|-------|-----------|---------|-----|------|--------|-----------|--------|--|
| | | | | | | | | | |
| Prescription Specs: | | | | | | | | | |

Total Treatment Acreage Proposed:

Other Comments: Next Steps:

0

5 – Forested StandsData updated yesterday after 6:00 PM

Compartment: 150 Year of Entry: 2012 Michigan \$

| | | Da | ata updated ye | esterday a | fter 6:00 PM Year of Entry: 2012 |
|--|--|--|--|--|--|
| Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 6112 - Lowland Aspen | High Density Pole | 6.4 | 53 | 81-110 | Aspen stand along Manistee River. |
| 42110 - Planted Red Pine | High Density Pole | 6.2 | 55 | 171-200 | Consumer's Red Pine stand. Never thinned. |
| 6117 - Lowland Deciduous, Mixed Coniferous | High Density Log | 10.7 | Uneven Age | 81-110 | Some Cedar adjacent to river, but mostly Aspen/Fir stand. Heavy deer browse. Northern Hardwoods regenerating on hillside. |
| 429 - Mixed Upland Conifers | High Density Pole | 6.9 | 72 | 81-110 | Upland tree species on hillside, Cedar along Silver creek. Stand is within buffer of Silver Creek. Good hardwood regen throughout. |
| 42110 - Planted Red Pine | High Density Log | 2.8 | 55 | 171-200 | Consumer's Red Pine stand. |
| 6112 - Lowland Aspen | High Density Pole | 65.6 | 58 | 81-110 | Wet. Thick understory. Many drainages throughout. Small pockets of Cedar mixed throughout stand. Mostly lowland with pockets of high ground. High ground compromised of Northern Hardwoods. Corners needed. |
| 42260 - Natural Pine, Mixed Deciduous | High Density Pole | 1.5 | 56 | 81-110 | Pine/Aspen hillside sloping to Silver creek. |
| 4139 - Aspen, Mixed Deciduous | High Density Pole | 9.7 | Uneven Age | 81-110 | located along silver creek. hawthorn in bottomlands along river, hard maple and aspen along hillside. steep. area too sensitive to harvest. |
| 6120 - Lowland Cedar | High Density Pole | 0.6 | 94 | 111-140 | Nice small cedar pocket. Sspen overtopping shorter Cedar and Hemlock. |
| 6120 - Lowland Cedar | Medium Density Pole | 16.0 | Uneven Age | 51-80 | Shelterwood harvested last rotation. Adequate regen of aspen and maple underneath canopy of Cedar, Hemlock, Fir. |
| 42110 - Planted Red Pine | High Density Pole | 18.4 | 55 | 171-200 | Consumer's Red Pine stand. Two islands to East never thinned. |
| 6139 - Mixed Lowland Forest | High Density Pole | 16.0 | Uneven Age | 81-110 | Occasional supercanopy Pines. Pockets of Swamp Hardwoods, Cedar and Hemlock mixed throughout. Large drainage through middle of stand. |
| 6115 - Lowland Ash | High Density Pole | 18.6 | 102 | 81-110 | Swamp Hardwoods lining Manistee river. Heavy deer browse. Many drainages throughout. |
| 4134 - Aspen, Spruce/Fir | High Density Pole | 194.3 | 38 | 81-110 | Mostly upland, but some lowland pockets. Thick fir understory in wet areas. drainages mixed throughout. Scattered Cedar and Hemlock in wet areas. |
| 4130 - Aspen | High Density Sapling | 6.9 | 6 | | Regenerating well. Mostly Aspen. |
| | Cover Type 6112 - Lowland Aspen 42110 - Planted Red Pine 6117 - Lowland Deciduous, Mixed Coniferous 429 - Mixed Upland Conifers 42110 - Planted Red Pine 6112 - Lowland Aspen 4139 - Aspen, Mixed Deciduous 4139 - Aspen, Mixed Deciduous 6120 - Lowland Cedar 6120 - Lowland Cedar 61210 - Planted Red Pine 6139 - Mixed Lowland Forest 6115 - Lowland Ash | Cover Type 6112 - Lowland Aspen 42110 - Planted Red Pole 6117 - Lowland Deciduous, Mixed Coniferous 429 - Mixed Upland Conifers 42110 - Planted Red Pine 6112 - Lowland Aspen 6112 - Lowland Aspen 4210 - Planted Red High Density Pole 6112 - Lowland Aspen 4139 - Aspen, Mixed Deciduous 6120 - Lowland Cedar High Density Pole 6120 - Lowland Cedar Medium Density Pole 42110 - Planted Red High Density Pole 6120 - Lowland Cedar High Density Pole 6120 - Lowland Cedar High Density Pole 42110 - Planted Red High Density Pole 6139 - Mixed Lowland High Density Pole 6130 - Aspen High Density Pole | Level 4 Cover TypeSize DensityAcres6112 - Lowland AspenHigh Density Pole6.442110 - Planted Red PineHigh Density Pole6.26117 - Lowland Deciduous, Mixed ConiferousHigh Density Log10.7429 - Mixed Upland ConifersHigh Density Pole6.96112 - Lowland AspenHigh Density Pole65.642260 - Natural Pine, Mixed DeciduousHigh Density Pole1.54139 - Aspen, Mixed DeciduousHigh Density Pole9.76120 - Lowland CedarHigh Density Pole0.66120 - Lowland CedarMedium Pole16.042110 - Planted Red PineHigh Density Pole18.46139 - Mixed Lowland ForestHigh Density Pole16.06115 - Lowland Ash Spruce/FirHigh Density Pole16.04134 - Aspen, Spruce/FirHigh Density Pole194.3 | Level 4 Cover TypeSize DensityAcresStand Age6112 - Lowland AspenHigh Density Pole6.45342110 - Planted Red PineHigh Density Pole6.2556117 - Lowland Deciduous, Mixed ConiferousHigh Density Log10.7Uneven Age429 - Mixed Upland ConifersHigh Density Pole6.97242110 - Planted Red PineHigh Density Log6.6586112 - Lowland AspenHigh Density Pole65.65842260 - Natural Pine, Mixed DeciduousHigh Density Pole9.7Uneven Age4139 - Aspen, Mixed DeciduousHigh Density Pole9.7Uneven Age6120 - Lowland CedarHigh Density Pole0.6946120 - Lowland CedarMedium Density Pole16.0Uneven Age42110 - Planted Red PineHigh Density Pole16.0Uneven Age6139 - Mixed Lowland ForestHigh Density Pole16.0Uneven Age6115 - Lowland AshHigh Density Pole16.0Uneven Age6115 - Lowland AshHigh Density Pole18.61024134 - Aspen, Spruce/FirHigh Density Pole194.338 | Cover Type Density Acres Age Range 6112 - Lowland Aspen High Density Pole 6.4 53 81-110 42110 - Planted Red Pine High Density Pole 6.2 55 171-200 6117 - Lowland Deciduous, Mixed Coniferous High Density Log 10.7 Uneven Age 81-110 429 - Mixed Upland Conifers High Density Pole 6.9 72 81-110 42110 - Planted Red Pine High Density Log 2.8 55 171-200 6112 - Lowland Aspen Pine High Density Pole 65.6 58 81-110 4139 - Aspen, Mixed Deciduous High Density Pole 9.7 Uneven Age 81-110 6120 - Lowland Cedar Pole High Density Pole 16.0 94 111-140 6120 - Lowland Cedar Pole Medium Density Pole 16.0 Uneven Age 51-80 6139 - Mixed Lowland Pine High Density Pole 16.0 Uneven Age 81-110 6115 - Lowland Ash Pole High Density Pole 16.0 Uneven Age 81-110 6115 - Lowland Ash Pole <td< td=""></td<> |

5 – Forested StandsData updated yesterday after 6:00 PM

Compartment: 150 Year of Entry: 2012



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|-------------|---|-------------------------|-------|---------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 28 | 42110 - Planted Red Pine | High Density Log | 43.8 | 55 | 171-200 | Consumers Red Pine stand. |
| 29 | 4130 - Aspen | High Density Sapling | 20.7 | 6 | | Regenerating well. Mostly Aspen. Wet pockets throughout. |
| 30 | 6112 - Lowland Aspen | Medium Density Pole | 3.2 | 55 | 1-50 | Wet. Drainage through middle. Tag Alder and Willow throughout. |
| 31 | 6120 - Lowland Cedar | High Density Pole | 25.5 | Uneven Age | 81-110 | Mostly Swamp Conifers with scattered Swamp Hardwoods throughout. Stand borders Manistee River. |
| 34 | 6112 - Lowland Aspen | High Density Pole | 25.2 | 52 | 81-110 | Wet. Poor quality Aspen stand. Small drainage through middle armored by Cedars. |
| 38 | 6112 - Lowland Aspen | High Density Sapling | 34.4 | 7 | | Regenerating well. some overstory cedar retained. |
| 39 | 4130 - Aspen | High Density Sapling | 32.4 | 6 | | Harvested 2004. Regenerating well to Aspen. Southwest finger actually regenerated by beavers. |
| 40 | 42110 - Planted Red Pine | High Density Log | 7.1 | 55 | 171-200 | Consumer's Red Pine stand. |
| 42 | 6112 - Lowland Aspen | High Density Sapling | 51.5 | 13 | | Mostly lowland with some upland. Many drainages throughout. Aspen regenerating well. |
| 43 | 6118 - Lowland Deciduous with Cedar | High Density Pole | 26.3 | Uneven Age | 81-110 | Stand is large drainage. Timber extremely variable. Pockets of Cedar mixed throughout lowland Aspen and Maple stand. Pockets of Tag and Ash found. |
| 46 | 6132 - Mixed Lowland Forest with Cedar | High Density Pole | 9.2 | Uneven Age | 81-110 | Cedar to South. Swamp Hardwoods to North. Wet. |
| 48 | 4319 - Mixed Upland Forest | High Density Pole | 59.8 | Uneven Age | 111-140 | Buffer zone along Buttermilk Creek. Trees located on sidehills and drainages. |
| 49 | 42100 - Planted White Pine | Medium Density Pole | 20.1 | Uneven Age | 81-110 | Center of stand thinned last rotation. South and North portion still in unthinned planted rows of White Pine and White Spruce. The cut portion has thick understory of Aspen. White Pine is very poor quality. |
| 51 | 6132 - Mixed Lowland Forest with Cedar | High Density Pole | 6.3 | Uneven Age | 81-110 | Wet. Mostly Cedar with Swamp Hardwoods mixed throughout. |
| 52 | 6130 - Fir, Aspen, Maple | High Density Pole | 23.2 | 39 | 81-110 | mix of aspen, maple, fir. Scattered cedar pockets found throughout stand. north south drainage through middle of stand. Stand is extremely variable. |
| 54 | 6120 - Lowland Cedar | High Density Pole | 10.6 | Uneven Age | 51-80 | Thick Red Maple regen. Wet. |

5 – Forested StandsData updated vesterday after 6:00 PM

Compartment: 150 Year of Entry: 2012



| t | Data updated yesterday after 6:00 PM | fter 6:00 PM Year of Entry: 2012 | | | | |
|-------------|--|----------------------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 55 | 6112 - Lowland Aspen | High Density Sapling | 5.6 | 13 | | Regenerating well. Wetter areas have Tag Alder. |
| 56 | 42110 - Planted Red Pine | High Density Log | 10.2 | 55 | 171-200 | Consumer's Red Pine stand. |
| 57 | 42110 - Planted Red Pine | High Density Log | 31.7 | 55 | 171-200 | Consumer's Red Pine Stand. |
| 58 | 4136 - Aspen, Mixed Conifer | High Density Pole | 24.6 | 36 | 81-110 | nice aspen stand. Difficult to access. wait one more rotation till harvest. |
| 59 | 4130 - Aspen | High Density Sapling | 15.6 | 6 | | Regenerating well. Mostly Aspen. |
| 60 | 4130 - Aspen | High Density Sapling | 6.3 | 7 | | great regen |
| 62 | 6112 - Lowland Aspen | High Density Sapling | 16.7 | 6 | | Mostly Aspen. |
| 66 | 6119 - Mixed Lowland Deciduous Forest | High Density Pole | 125.1 | 50 | 81-110 | Mostly lowland with areas of high ground. Pockets of Cedar, and pockets of Swamp Hardwoods throughout. Wait one more rotation to harvest for age class diversity. Many drainages throughout. Two small planted WP fingers in stand south of st#71. |
| | 6132 - Mixed Lowland Forest with Cedar | High Density Pole | 45.4 | Uneven Age | 81-110 | Mix of Swamp Conifers and Swamp Hardwoods along Manistee River. Some nice Cedar pockets. |
| | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Pole | 16.7 | 52 | 51-80 | Wet hummocky ground. Scattered Cedar and Swamp Hardwoods throughout. Good maple regen. |
| 71 | 429 - Mixed Upland Conifers | High Density Pole | 29.5 | 58 | 171-200 | Planted White Spruce, White Pine and Red Pine stand growing on steps down to Manistee River. WP very poor quality. Setup for harvest last rotation but never cut. Is RP growing in this stand ours? |
| 73 | 42110 - Planted Red Pine | High Density Log | 307.8 | 55 | 171-200 | Consumer's Red Pine stand. |
| 76 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 17.1 | Uneven Age | 111-140 | Cedar/Fir stand along Manistee River. Sidehill growing Northern Hardwoods. |
| 77 | 4110 - Sugar Maple Association | High Density Pole | 16.4 | 56 | 51-80 | Young Hard Maple stand. |

6 – Nonforested StandsData updated yesterday after 6:00 PM

Michigan DNRE

Compartment: 150

Year of Entry: 2012

| Stand | Cover Type | Acres | Gen Cmts: |
|-------|--------------------------------|-------|---|
| 2 | 50 - Water | 3.3 | Manistee River |
| 3 | 3105 - Mixed Upland Herbaceous | 25.3 | Hawthorns planted throughout. |
| 8 | 6220 - Alder/willow | 1.7 | tag alder along tributary to manistee river. |
| 10 | 3105 - Mixed Upland Herbaceous | 9.6 | Planted Hawthorn in field. |
| 11 | 6220 - Alder/willow | 1.8 | Tag Alder along Silver Creek. |
| 13 | 6220 - Alder/willow | 1.5 | tag alder drainage leading to buttermilk creek. |
| 14 | 3205 - Mixed Upland Shrub | 10.9 | Autumn Olive was planted. |
| 17 | 6220 - Alder/willow | 6.1 | |
| 22 | 50 - Water | 8.7 | Manistee River |
| 23 | 50 - Water | 1.5 | Manistee River |
| 24 | 6220 - Alder/willow | 15.3 | Tag Alder pocket with scattered Swamp Hardwoods throughout. Some sapling Firs on islands. |
| 27 | 6220 - Alder/willow | 4.4 | Tag Alder pockets along Manistee River. |
| 32 | 6220 - Alder/willow | 1.6 | Tag alder armoring drainage. |
| 33 | 6220 - Alder/willow | 12.4 | mostly tag alder. scattered aspen fir and maples. |
| 35 | 3205 - Mixed Upland Shrub | 3.1 | Aspen starting to creep in fron edges. |
| 36 | 6220 - Alder/willow | 4.7 | Mostly Tag Alder with Willow and Cattails. |
| 37 | 50 - Water | 3.5 | Manistee River |
| 41 | 6220 - Alder/willow | 7.1 | tag alder and grass along buttermilk creek. |

6 - Nonforested Stands Data updated yesterday after 6:00 PM

Compartment: 150 Year of Entry: 2012

| Stand | Cover Type | Acres | Gen Cmts: |
|-------|----------------------------------|-------|--|
| 44 | 6220 - Alder/willow | 1.0 | |
| 45 | 6220 - Alder/willow | 1.2 | tag alder pocket |
| 47 | 6220 - Alder/willow | 17.9 | Wet. Sapling Birch and Tamarack present. |
| 50 | 6220 - Alder/willow | 3.7 | Tag Alder and Willow. |
| 53 | 6220 - Alder/willow | 3.4 | Wet. Tag Alder with occasional Tamarack and Birch sapling. |
| 61 | 6229 - Mixed lowland shrub | 18.4 | Powerline. Is a mix of upland and lowland. Mostly lowland. |
| 63 | 6220 - Alder/willow | 3.0 | Tag Alder and grass along Buttermilk Creek. |
| 64 | 3205 - Mixed Upland Shrub | 3.3 | Trees starting to fill in. Mix of pine and cherry trees. |
| 65 | 3205 - Mixed Upland Shrub | 1.1 | Pine and Cherry starting to creep in from sides. |
| 68 | 6225 - Bog | 0.7 | |
| 69 | 6225 - Bog | 2.7 | Bog |
| 72 | 3302 - Low Density Conifer Trees | 0.9 | Landing for Red Pine stand. Red Pine regen. |
| 74 | 3205 - Mixed Upland Shrub | 2.8 | |
| 75 | 50 - Water | 9.9 | Manistee River. |

Cadillac Mgt. Unit Compartment: 150

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.

Data updated yesterday after 6:00 PM

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

Cadillac Mgt. Unit Compartment: 150





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 Area | Туре | Data updated yesterday after 6:00 PM Description | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|----------------------|----------------------|---|---|
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen cor stocked trout populations and those of other coldwater fish spe 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 nese conditions due to substantial |