COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 182

ENTRY YEAR: 2013
ACREAGE: 1,643
COUNTY: Cheboygan

Revision Date: 05/9/2011

Stand Examiner: John Scheele, Paul Roell, and Trisha Mitchell

Legal Description: T34N-R01W Sections 03, 09, 10, 15, and 16

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and Topography: This compartment is fairly level to gently rolling with predominately upland forested and non-forested vegetation types. The Cheboygan-Blue Lake Association soils are the primary soil type within the compartment. These soils are nearly level to very steep, well drained and moderately well drained, sand soils that either are moderately deep to dense till or are deep and that formed in loamy and sandy deposits.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership within this compartment consists of 3 separate large contiguous blocks which border other large contiguous state or private ownerships. The southern boundary of the compartment borders the Pigeon River Country Management Unit. The state ownership in Section 9 is landlocked by private ownership.

Unique, Natural Features: Lake Sixteen Bog is located in section 16 in the SE 1/4. Red-shouldered hawk has been record in the compartment and several records in the compartment to the east.

Archeological, Historical, and Cultural Features: A search of the Archeological Concerns database did not show any recorded features.

Special Management Designations or Considerations: Wilkes Creek, in the southwest corner of the compartment, is a designated Nature River as part of the Pigeon River system.

Watershed and Fisheries Considerations: This compartment is within the Milligan Creek watershed, which is within the larger Cheboygan River drainage. A minimum no clear-cut buffer of 300 feet should be maintained adjacent to Gokee Creek and Weed Creek to discourage beaver activity in these areas. A minimum no-clear cut buffer of 150 feet should be maintained adjacent to Wilkes Creek.

Wildlife Habitat Considerations: This compartment contains both a mix of upland habitat and lowland complex associated with Gokee and Wilkes Creeks. This lowland area supports a variety of species including black bear, various furbearers and amphibians. The upland areas consist mainly of hardwoods and aspen. Stands 3, 6, 23, 25, 26, parts of 37, 38, 42, 64, parts of 67 and 83 are going to be clear cut to provide early successional habitat for a variety of species including white-tailed deer, wild turkey, grouse, woodcock, and various early successional song birds. Stands 21, 24, 31, 35, parts of 37, 39, and 56 are going to be treated and will provide structural diversity through out the stand.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 10 and 100 feet. The Devonian Traverse Group subcrops below the glacial drift. The Traverse is used for cement and stone elsewhere in the State. The Afton limestone quarry is located 2.5 miles to the northwest. The nearest gravel pit is located in the NE of Section 2. The compartment appears to have gravel potential. The nearest oil and gas production, the Niagaran Reef Trend, is located 8 miles to the southeast. The area was recently leased and the Collingwood Formation may have oil and gas potential.

Vehicle Access: The northern portion of the compartment is accessible off of M-68, while the southern portion of the compartment is accessible off of Walker Road. A majority of the compartment is accessible via state two-track roads throughout the compartment. The western half of the compartment has limited access due to surrounding private ownership.

Survey Needs: A significant amount of survey work may be required in sections 9, 10, and 16 to establish boundary lines for prescribed treatments in those sections.

Recreational Facilities and Opportunities: The Midland to Mackinaw Riding-Hiking Trail runs through section 15 in the south portion of the compartment.

Fire Protection: No foreseen problems

Additional Compartment Information:

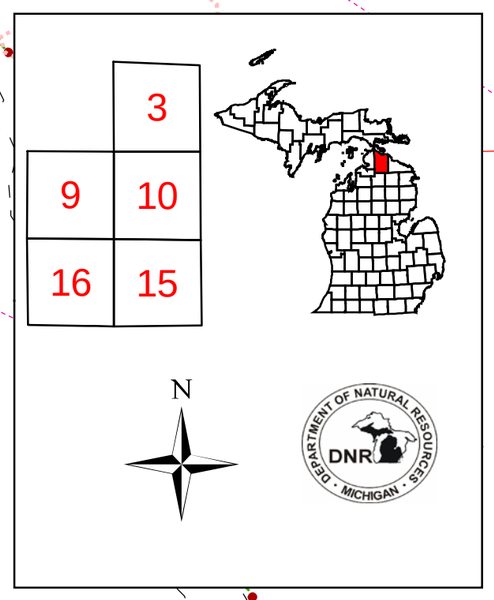
- **The following 3 reports from the IFMAP Inventory System are attached:**
  - **Cover Type by Age Class**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**

- **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 and current SCA's**

Cover Type & Treatment Map

Compartment 182
T34N, R01W, Sec. 3, 9, 10, 15, 16
County: Cheboygan
Unit: Gaylord
YOE: 2013
Acres: 1,643 GIS Calculated
Stand Examiner: John Scheele, Tricia Mitchell & Paul Roell
Map Revised: 5/25/2011
Map Phase: Pre-Review

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



Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- State Highway
- Hiking Trail
- Ski Trail
- Bike Trail
- Horse Trail
- Lakes and Rivers
- Intermittent Stream/Drain
- Stream

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

Stand Boundary Map

Compartment 182
T34N, R01W, Sec. 3, 9, 10, 15, 16
County: Cheboygan
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Stand Examiner: John Scheele,
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Map Revised: 5/25/2011
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Stand # 23 — Stocking Density
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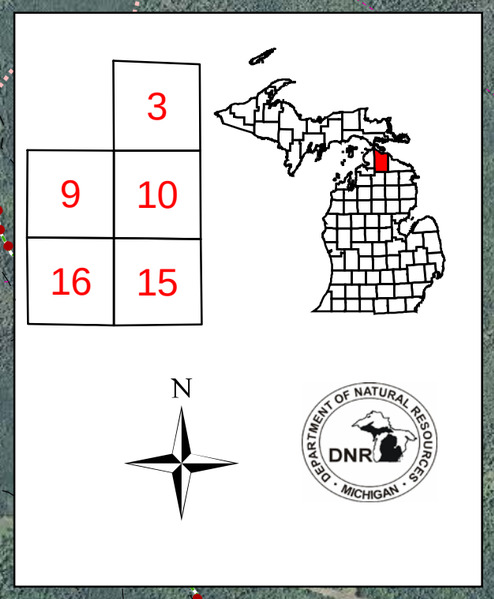
Level 3 Level 4 OI Code
Cover Type Code



Legend

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- Stand Boundaries

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Level 3
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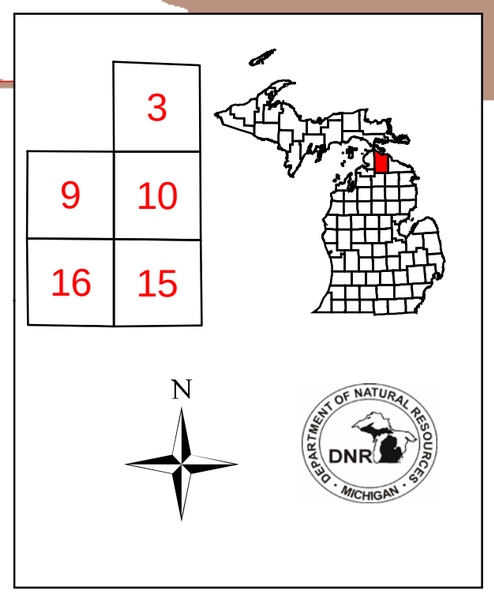
- 623 - Emergent Wetland

1 0.5 0 1 Miles

Dedicated & Proposed Special Conservation Area Map

Compartment 182
T34N, R01W, Sec. 3, 9, 10, 15, 16
County: Cheboygan
Unit: Gaylord
YOE: 2013
Acres: 1,643 GIS Calculated
Stand Examiner: John Scheele,
Tricia Mitchell &
Paul Roell
Map Revised: 5/25/2011
Map Phase: Pre-Review

Stand # 23 — Stocking Density: (412)0) - A7
Level 3 / Level 4 / OI Code
Cover Type Code



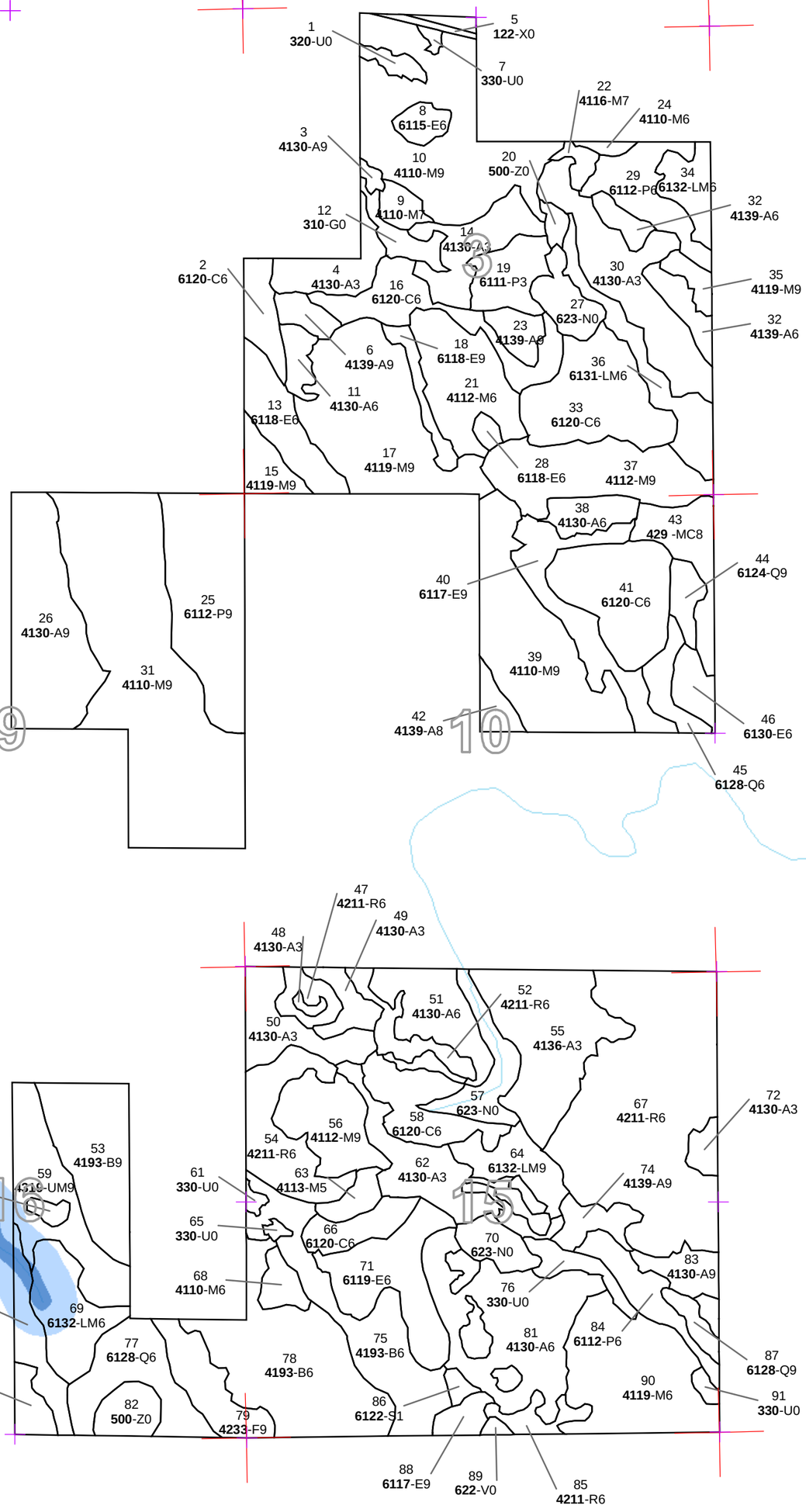


Table 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit **Compartment 182 Year of Entry 2013**

John Scheele : Examiner

Age Class

	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	Total
Aspen	0	0	78	134	20	25	0	0	63	5	12	0	0	0	0	**337**
Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Cedar	0	0	0	0	0	0	0	0	29	10	32	23	0	35	0	**128**
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**7**
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Lowland Aspen/Balsam Poplar	0	0	14	18	0	0	0	0	61	0	0	0	0	0	0	**92**
Lowland Conifers	0	0	0	0	0	0	6	0	0	12	0	24	0	0	0	**42**
Lowland Deciduous	0	0	0	0	24	0	0	29	0	18	0	17	0	0	0	**88**
Lowland Mixed Forest	0	0	0	0	0	0	7	10	18	16	0	21	0	0	0	**73**
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Lowland Spruce/Fir	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	**2**
Marsh	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**32**
Northern Hardwood	0	0	0	0	0	0	3	55	92	249	43	5	0	0	0	**447**
Paper Birch	0	0	0	36	0	54	0	32	0	0	0	0	0	0	0	**122**
Red Pine	0	0	0	0	0	159	0	0	0	0	0	0	0	0	0	**159**
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	**16**
Upland Mixed Forest	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	**29**
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**3**
Upland Spruce/Fir	0	0	0	0	0	6	16	0	0	0	0	0	0	0	0	**22**
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Water	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
White Pine	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	**2**
Total	**81**	**0**	**92**	**190**	**44**	**273**	**33**	**126**	**262**	**311**	**89**	**90**	**0**	**35**	**16**	**1643**

Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2013

Compartment 182
Total Compartment Acres: 1643

Acres by Treatment Type

Commercial Harvest - 586	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 7	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	80	0	0	0	0	0	**80**
Lowland Aspen/Balsam Poplar	36	0	0	0	0	0	**36**
Lowland Mixed Forest	14	0	0	0	0	0	**14**
Northern Hardwood	9	191	0	50	0	0	**250**
Paper Birch	32	0	0	0	0	0	**32**
Red Pine	44	0	0	0	86	0	**130**
Upland Mixed Forest	28	0	0	0	0	0	**28**
Upland Spruce/Fir	16	0	0	0	0	0	**16**
Total	**260**	**191**	**0**	**50**	**86**	**0**	**586**

Data updated yesterday after 6:00 PM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	52182003-CC	1.4	4130 - Aspen	High Density Log	75	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Final harvest to regeneration Aspen. No retention because of small stand size.

Other Comments:

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.

6	52182006-CCWR	5.4	4139 - Aspen, Mixed Deciduous	High Density Log	90	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Final harvest stand. Do not cut Hemlock. No other retention recommended due to small stand size.

Other Comments: Hardwood species in center of stand were select cut in 2001 along with stand 17 to the east. Large, over mature Aspen with Balsam Fir understory on outer edge of stand. A partially plugged culvert in the low part of the road needs to be address during timber sale.

Next Steps: Monitor success of regeneration during the next inventory. Acceptable regeneration includes a mix of Aspen and deciduous species.

21	52182021-STS	28.9	4112 - Maple, Beech, Cherry Association	High Density Pole	90	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to 80 BA. Access stand from the south along the east side of stand 18.

Other Comments: Current Basal Area is 133. Upland stand surrounded by lowland. Slightly more wet soil in center of stand. Stay out of this area to minimize rutting. Red Maple is heavy along the edge of the stand. Include stands 24 and 35 in sale.

Next Steps: Monitor success of thinning in next inventoy.

23	52182023-CCWR	6.4	4139 - Aspen, Mixed Deciduous	High Density Log	90	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Final harvest to regenerate Aspen. Do not cut White Spruce for tree species diversity. No retention because of small stand size.

Other Comments: Aspen is over mature and dying out. Classified as M6 in last inventory.

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes mix of Aspen and upland deciduous species.

24	52182024-STS	1.8	4110 - Sugar Maple Association	High Density Pole	75	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Mark stand to 80 BA. Include stands 21 and 35 in timber sale.

Other Comments: Current Basal Area is 147. Nice pole-sized Sugar Maple. Concrete monument in center of stand along north boundary line. Private boundary survey work may be needed.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	52182025-CCWR	35.6	6112 - Lowland Aspen	High Density Log	78	Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal

Prescription Specs: Final harvest stand in winter or dry summer. Do not cut Cedar along east boundary line.

Other Comments: Drainage way and northeast corner of stand was left as retention.

Next Steps: Monitor success of regeneration during the next inventory. Acceptable regeneration includes a mix of Aspen and deciduous species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	52182026-CCWR	45.1	4130 - Aspen	High Density Log	72	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Final haverst stand. Follow retention guildlines.

Other Comments: Survey work may be needed to verify private boundaries around stand. Rerod found in northwest corner of stand north of private property corner. Fence along the south boundary line.

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of aspen and upland deciduous species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
31	52182031-STS	108.5	4110 - Sugar Maple Association	High Density Log	80	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Mark to 80 BA. Do not species cut the Aspen. Concentrate marking on low quality, multi-stemmed trees.

Other Comments: Current Basal area is 140. Gently rolling, east facing slope with Basswood and Aspen dying and falling over. High amount of multi-stemmed Basswood, White Ash, and Maple. Nice Sugar Maple in southeast corner of stand.

Next Steps: Monitor success of release during next inventory.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
35	52182035-STS	4.4	4119 - Mixed Northern Hardwoods	High Density Log	71	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal

Prescription Specs: Thin to 80 BA. Open larger gaps (60 BA) around birch, hemlock - drop and leave conifer boles on the ground as nursery logs for birch/hemlock if possible.

Other Comments: Sale to be combined with units 21 and 24.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	52182037_Clear_C	9.3	4112 - Maple, Beech, Cherry Association	High Density Log	71	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Final harvest stand. Leave steep slope area as retention.

Other Comments:

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of upland deciduous and Aspen species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37	52182037_Single TS-Cut	25.7	4112 - Maple, Beech, Cherry Association	High Density Log	71	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Thin to 80 BA. Manage for yellow birch regen - larger gaps (60 BA) around birch, leaving conifer nursery logs if possible.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	52182038-CCWR	8.5	4130 - Aspen	High Density Pole	37	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut, reserve white pine. No retention recommended because of small stand size.

Other Comments: Treat with stand 37. Lots of sub-merch, no urgency in cutting this.

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	52182039-SWR	49.9	4110 - Sugar Maple Association	High Density Log	68	Harvest	Shelter Wood with Reserves	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Thin to 80 BA with large (100'+) canopy gaps to promote regen. Carefully select crop trees.

Other Comments: Slowed growth in the past 8, 10 years; minimal regen. Management would be for basswood to promote site quality. Emphasis on basswood, yellow birch, and hemlock regen.

Next Steps: Thin stump sprouts in next entry leaving dominant/best 2-3 stems per stump.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	52182042-CC	5.2	4139 - Aspen, Mixed Deciduous	Medium Density Log	80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Clearcut stand. No retention recommended because of small stand size.

Other Comments: Aspen is terrible. BTA is rotting. Smaller BTA on W 1/2, 6-10", more fir canopy/subcanopy. Not totally worth it's own sale. Include this in timber sale of stand 39.

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Aspen and upland deciduous species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	52182054-RPThin	24.0	42110 - Planted Red Pine	High Density Pole	46	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Cut 2 rows leave 3 rows, may need to mark confidence trees in take rows.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	52182056-STS	21.4	4112 - Maple, Beech, Cherry Association	High Density Log	88	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Thin stand to 80 ba/ac, focus on removing multi-stemmed trees and those of lesser quality.

Place a scattered larger regeneration gaps when marking to encourage the stump sprouts.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
64	52182064-CCWR_exp-0	13.9	6132 - Mixed Lowland Forest with Cedar	High Density Log	85	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal

Prescription Specs: Cut eastern larger part of the Multi-Part Polygon
Final Harvest, cut all trees 2in. diameter and greater; EXCEPT white pine and cedar. Cedar and white pine are the retention. Winter harvest wet ground.

Other Comments: Cedar becomes more dominant near stand 51.

Next Steps: Acceptable species for regeneration include Aspen species and mixed hardwood species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
67	52182067_Clear_Cut	44.3	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	46	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs: Final harvest stand. Cut all species 2in or greater in diameter. Rentention for this stand is the thinning from the adjacent treatment (One Stand, Two Treatments).

Other Comments:

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of upland deciduous, conifer and Aspen species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
67	52182067_RP Thinning	61.5	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	46	Harvest	Systematic Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Cut 2 rows and leave 3 rows, may need to mark confidence trees in take rows.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
83	52182083-CCWR	8.2	4130 - Aspen	High Density Log	71	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Final Harvest, cut all trees 2in. diameter and greater; EXCEPT white pine, cedar and oak. Follow retention guidelines. Winter harvest wet ground (southern edge).

Other Comments: Mature Aspen and Birch starting to fall out of canopy. Beech and Balsam established in understory.

Next Steps: Acceptable species for regeneration include Aspen species and mixed hardwood species.

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	NF_52182012-NonFor	6.6	Non-Forested		0	Non-Forest Management	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal

Prescription Specs: mow/burn and/or burn

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: 516.0

Data updated yesterday after 6:00 PM

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
53	52182053-CCWR	32.0	4193 - Birch, Aspen	High Density Log	62	Harvest	Clearcut with Reserves	4193 - Birch, Aspen	Cmpt. Review Proposal

Prescription Specs: Final Harvest, cut all trees 2in. diameter and greater; EXCEPT white pine, cedar, and hemlock. Leave tree mark white birch and follow retention guidelines.

Other Comment: Factor Limited because of divided interest possible access through the north private property.

Next Steps: Acceptable species for regeneration include Aspen species and mixed hardwood species.

Limiting Factor and No Treatment Reason: 2A: Adjacent landowner denies access
No definate access to stand at this time.
See comments for limiting factor for stand 79 treatment.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
59	52182059-CCWR	28.4	4319 - Mixed Upland Forest	High Density Log	43	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Final Harvest, cut all trees 2in. diameter and greater; EXCEPT white pine, cedar, and hemlock. Leave tree marked white birch and follow retention guidelines. Wilkes Creek is a designated Natural River as part of the Pigeon River system, do not cut within 150' of the creek. Good area for a Retention Pocket

Other Comment: Factor Limited because of divided interest possible access through the north private property.

Next Steps: Acceptable species for regeneration include Aspen species and mixed hardwood species.

Limiting Factor and No Treatment Reason: 2A: Adjacent landowner denies access
No definate access to stand at this time. See comments for limiting factor for stand 79 treatment.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
79	52182079-CCWR	16.3	42330 - Upland Fir	High Density Log	52	Harvest	Clearcut with Reserves	42330 - Upland Fir	Cmpt. Review Proposal

Prescription Specs: Final Harvest, cut all trees 2in. diameter and greater; EXCEPT white pine and cedar. White pine and cedar will be acceptable retention.

Other Comment: Objective is to regenerate balsam fir and birch with a smaller component of aspen and red maple.
Divided interest on the parcel.

Next Steps: Monitor success of regeneration during next inventory. Acceptable regeneration includes a mix of Balsam Fir, Birch, Aspen and Red Maple.

Limiting Factor and No Treatment Reason: 1D: Other agency concerns (name)
State has undivided 1/2 interest with another owner.

Total Treatment Acreage Proposed: **76.7**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013

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

Prescription Specs:

Other Comments:

Next Steps:

Total Treatment Acreage Proposed: **0**

Data updated yesterday after 6:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	High Density Pole	9.6	74		
3	4130 - Aspen	High Density Log	1.4	75		
4	4130 - Aspen	High Density Sapling	13.0	24		
6	4139 - Aspen, Mixed Deciduous	High Density Log	5.4	90	81-110	Select cut in 2001. Large, over mature Aspen with Balsam Fir understory on outer edge of stand.
8	6115 - Lowland Ash	High Density Pole	5.0	85		
9	4110 - Sugar Maple Association	Low Density Log	4.8	100	1-50	Individual, open grown, very branchy maple.
10	4110 - Sugar Maple Association	High Density Log	63.6	85	81-110	
11	4130 - Aspen	High Density Pole	5.6	28		
13	6118 - Lowland Deciduous with Cedar	High Density Pole	17.4	100		Pockets of larger Cedar 14 DBH. High amount of deer and/or elk dropings.
14	4130 - Aspen	High Density Sapling	18.4	18		
15	4119 - Mixed Northern Hardwoods	High Density Log	8.0	95	81-110	Nice pole-sized Sugar Maple in south of stand. A drainageway runs through the middle of the stand from west to east. Low quality trees on the north side of drainage with lower BA. No access to stand. Factor Limit.
16	6120 - Lowland Cedar	High Density Pole	22.7	100		Drainage flowing from west to east. Balsam Fir beginning to blow over. Possible elk and /or deer yarding area.
17	4119 - Mixed Northern Hardwoods	High Density Log	55.0	85	81-110	Select cut in 2001.
18	6118 - Lowland Deciduous with Cedar	High Density Log	6.2	85		Drainageway flowing south to north. Flowing water in spring. Aspen blowing over.
19	6111 - Lowland Balsam Poplar	High Density Sapling	13.6	18		
21	4112 - Maple, Beech, Cherry Association	High Density Pole	28.9	90	111-140	Upland stand surrounded by lowland. Slightly wetter soil in center of stand. Red Maple is heavy along the edge of the stand.
22	4116 - Mixed N. Hardwood - Aspen	Low Density Log	3.2	50		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4139 - Aspen, Mixed Deciduous	High Density Log	6.4	90		Aspen is over mature and dying out. Classified as M6 in last inventory.
24	4110 - Sugar Maple Association	High Density Pole	1.8	75	141-170	Nice pole-sized sugar maple. Concrete monument in center of stand along north boundary line. Private boundary survey work may be needed.
25	6112 - Lowland Aspen	High Density Log	46.2	78		Birch and Aspen over maturing and falling over. Pockets of wetter areas with Cedar and/or Black Ash. Beech scale in the northeast corner of the stand. Also found a drainage with flowing water in northeast corner of stand.
26	4130 - Aspen	High Density Log	45.1	72		Aspen over maturing. Survey work may be needed to verify private boundaries around stand. Rerod found in northwest corner of stand. Fence along the south boundary line.
28	6118 - Lowland Deciduous with Cedar	High Density Pole	2.1	85		Unhealthy stand with Balsam Fir blowdown. Depression spot of lowland surrounded by upland.
29	6112 - Lowland Aspen	High Density Pole	18.2	24		Seasonally wet, KOTAR typed stand as mostly lowland with exception in the West.
30	4130 - Aspen	High Density Sapling	35.1	23		
31	4110 - Sugar Maple Association	High Density Log	108.5	80	111-140	Gently rolling, east facing slope with Basswood and Aspen dying and falling over. High amount of multi-stemmed Basswood, White Ash, and Maple. Nice Sugar Maple in southeast corner of stand.
32	4139 - Aspen, Mixed Deciduous	High Density Pole	11.6	32	51-80	
33	6120 - Lowland Cedar	High Density Pole	35.1	170		
34	6132 - Mixed Lowland Forest with Cedar	High Density Pole	10.1	63		Patches of blow down all over stand.
35	4119 - Mixed Northern Hardwoods	High Density Log	4.4	71	141-170	
36	6131 - Hemlock, White Pine, Maple, Birch	High Density Pole	18.2	75	111-140	2 pockets of QA in S. Excessive slash in South.
37	4112 - Maple, Beech, Cherry Association	High Density Log	35.2	71	141-170	
38	4130 - Aspen	High Density Pole	8.5	37		Treat with stand 31 only if 31 is harvested. Lots of sub-merch, no urgency in cutting this.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4110 - Sugar Maple Association	High Density Log	49.9	68	111-140	Slowed growth in the past 8, 10 years; minimal regen. Manage for best tree in place. Consider emphasis on basswood for site quality. Protect/encourage birch and hemlock regen.
40	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	23.8	39	111-140	
41	6120 - Lowland Cedar	High Density Pole	31.9	99		
42	4139 - Aspen, Mixed Deciduous	Medium Density Log	5.2	80	1-50	Large diameter aspen falling out. Smaller diameter big tooth aspen on W 1/2, 6-10"; more fir canopy/subcanopy. Consider treating with adjacent stand.
43	429 - Mixed Upland Conifers	Medium Density Log	16.4	Uneven Age	81-110	paper birch is falling out, some XL WP (22").
44	6124 - Lowland Spruce-Fir	High Density Log	6.0	58	81-110	
45	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.0	86	51-80	
46	6130 - Fir, Aspen, Maple	High Density Pole	7.2	52	111-140	Fairly excessive amount of coarse woody debrie.
47	42110 - Planted Red Pine	High Density Pole	6.5	46	141-170	Row thinned plantation.
48	4130 - Aspen	High Density Sapling	1.2	27		Small stand of regenerating Aspen within Red Pine plantation.
49	4130 - Aspen	High Density Sapling	7.2	27		Access road on east side of stand.
50	4130 - Aspen	High Density Sapling	17.6	17		
51	4130 - Aspen	High Density Pole	20.2	27		
52	42110 - Planted Red Pine	High Density Pole	9.4	46	111-140	
53	4193 - Birch, Aspen	High Density Log	32.0	62	51-80	
54	42110 - Planted Red Pine	High Density Pole	24.0	46	200+	
55	4136 - Aspen, Mixed Conifer	High Density Sapling	42.4	16		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4112 - Maple, Beech, Cherry Association	High Density Log	21.4	88	141-170	
58	6120 - Lowland Cedar	High Density Pole	19.0	79		Two very dense pockets of softwood.
59	4319 - Mixed Upland Forest	High Density Log	29.4	43	51-80	
60	42200 - Natural White Pine	High Density Log	2.3	97	51-80	
62	4130 - Aspen	High Density Sapling	24.7	42		
63	4113 - R.Maple, Conifer	Medium Density Pole	5.4	64	51-80	
64	6132 - Mixed Lowland Forest with Cedar	High Density Log	16.4	85	141-170	
66	6120 - Lowland Cedar	High Density Pole	10.1	83	81-110	
67	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	105.8	46	141-170	
68	4110 - Sugar Maple Association	High Density Pole	5.7	95	81-110	
69	6132 - Mixed Lowland Forest with Cedar	High Density Pole	21.0	107	141-170	
71	6119 - Mixed Lowland Deciduous Forest	High Density Pole	28.8	64	81-110	
72	4130 - Aspen	High Density Sapling	4.0	25		
74	4139 - Aspen, Mixed Deciduous	High Density Log	7.9	72		
75	4193 - Birch, Aspen	High Density Pole	36.0	26		
77	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	23.8	107		
78	4193 - Birch, Aspen	High Density Pole	54.3	42		
79	42330 - Upland Fir	High Density Log	16.3	52	81-110	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
80	42340 - Upland Spruce/Fir	High Density Log	6.0	47	111-140	
81	4130 - Aspen	High Density Pole	47.6	26		Old Road on eastern side of stand.
83	4130 - Aspen	High Density Log	8.2	71	81-110	Mature Aspen and Birch starting to fall out of canopy. Beech and Balsam established in understory.
84	6112 - Lowland Aspen	High Density Pole	14.4	74		Stream runs through it.
85	42110 - Planted Red Pine	High Density Pole	13.2	46	111-140	
86	6122 - Black Spruce	Low Density Sapling	2.1	23		
87	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	4.4	89	171-200	Intermitent stream runs through the stand. A lot of wind throw. Old pine stumps burnt.
88	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	5.0	82	81-110	
90	4119 - Mixed Northern Hardwoods	High Density Pole	51.1	77	111-140	

6 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	320 - Upland Shrub	3.4	N\A	Unspecified	
5	122 - Road/Parking Lot	1.7	N\A	Unspecified	
7	3302 - Low Density Conifer Trees	1.1	N\A	Unspecified	
12	310 - Herbaceous Openland	6.6	N\A	Unspecified	
20	50 - Water	2.5	N\A	Unspecified	
27	623 - Emergent Wetland	9.9	N\A	Unspecified	
57	623 - Emergent Wetland	13.9	N\A	Unspecified	
61	330 - Low-Density Trees	1.2	N\A	Unspecified	
65	330 - Low-Density Trees	1.0	N\A	Unspecified	
70	623 - Emergent Wetland	8.5	N\A	Unspecified	
73	622 - Lowland Shrub	12.4	N\A	Unspecified	
76	3303 - Mixed Low Density Trees	7.1	N\A	Unspecified	
82	50 - Water	8.7	N\A	Unspecified	
89	6225 - Bog	1.1	N\A	Unspecified	
91	330 - Low-Density Trees	1.8	N\A	Unspecified	

Data updated yesterday after 6:00 PM

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.

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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.