Crystal Falls Forest Management Unit
Compartment Review Presentation
Compartment #147 Entry Year: 2014
Compartment Acreage: 1042 County: Iron

Revision Date: 5/16/12

Stand Examiner: Scott Sebero

Legal Description: T43N, R31W, Sec. 5, 6, 7, 8.
T44N, R31W, Sec. 32.

RMU (if applicable):

Management Goals: Our management goals in this compartment are to develop age class distribution in aspen types, maintain health of conifer types and increase acreage where possible, and to develop the quality while maintaining diversity in hardwood types.

Soil and Topography: Land is nearly level to hilly with a mix of Sarona soils that are excessively drained to well-drained, loamy and sandy soils on ground moraines and end moraines and Cathro soils that are irregular depressions within these moraines that are poorly drained black muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership patterns in this compartment consist mostly of State lands and WE Energies with some small private parcels and hunting camps. Lands in and around this compartment are used mainly for hunting and managed for forest products.

Unique, Natural Features: The Michigamme River and Clarks Creek. The Michigamme Reservoir borders the compartment.

Archeological, Historical, and Cultural Features: None.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Compartment 147 includes a majority of the Michigamme Reservoir and is located on the north edge of the Mansfield Deer Wintering Complex. Deer use this area year round, as do many other species associated with the lowland hardwoods and conifer types. Spruce is apparent in this compartment and will result in significantly reduced conifer cover for wildlife. It is critical that travel corridors and drainages to provide benefits to migratory songbirds, as well as, bear, deer and bobcats. This area is best known for its grouse and woodcock hunting opportunities.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium in places thin to discontinuous over bedrock. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Hemlock Formation and intrusives subcrop below the glacial drift. There is not a current economic use for these rocks. The abandoned Mansfield iron mine is located two miles to the south. Part of this compartment was previously leased for metallic exploration and potential may still exist. The Lake Ellen kimberlite discovery lies to the north. The nearest gravel pit is located six miles to the southeast and there could be some potential. There is no economic oil and gas production in the UP.

Vehicle Access: Access is from Way Dam Road, Kopf's Road and connected woods roads.

Survey Needs: None.

Recreational Facilities and Opportunities:

Fire Protection:

Additional Compartment Information: None.

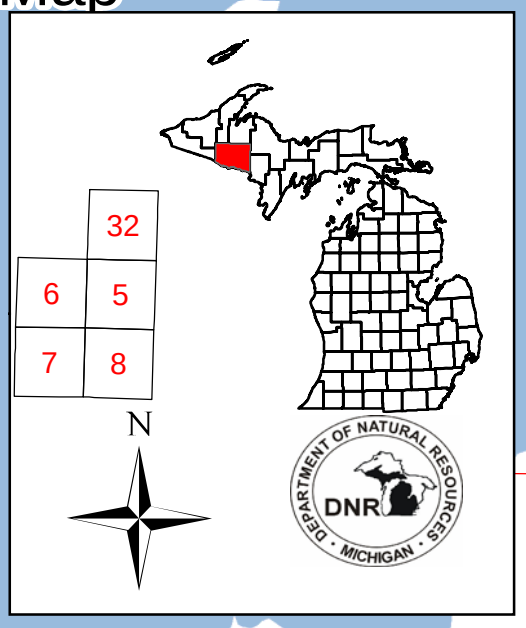
- **The following reports from the Inventory are attached:**
  - **Total Acres by Cover Type and Age Class**
  - **Proposed Treatment Summary**
  - **Proposed Treatments – No Limiting Factors**
  - **Proposed Treatments – With Limiting Factors**
  - **Stand Details (Forested and Nonforested)**
  - **Dedicated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

Cover Type & Treatment Map

Compartment: 147
T43N R31W Sec. 5-8
T44N R31W Sec. 32
County: Iron
Unit: Crystal Falls
YOE: 2014
Acres: 1,122 GIS Calculated
Examiner: Scott Sebero
Map Revised: 07/12/2012
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
- Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Stream
- Intermittent Stream
- Pipe
- Power
- Lakes and Rivers

Treatments
- Planting (tree species)
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands
Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- State Forest Land

North Deerskin Lake
Reservoir
Michigamme
Michigamme River
Clarks Creek
Kopis Rd
Channing Rd
Del Acres Rd
Way Dam Rd
Stream Rd
88°15'0"W
88°14'0"W
88°13'0"W
88°12'0"W
46°11'0"N
46°10'0"N
46°9'0"N
46°8'0"N
1 0.5 0 1 Miles

Stand Boundary Map

Compartment: 147
T43N R31W Sec. 5-8
T44N R31W Sec. 32
County: Iron
Unit: Crystal Falls
YOE: 2014
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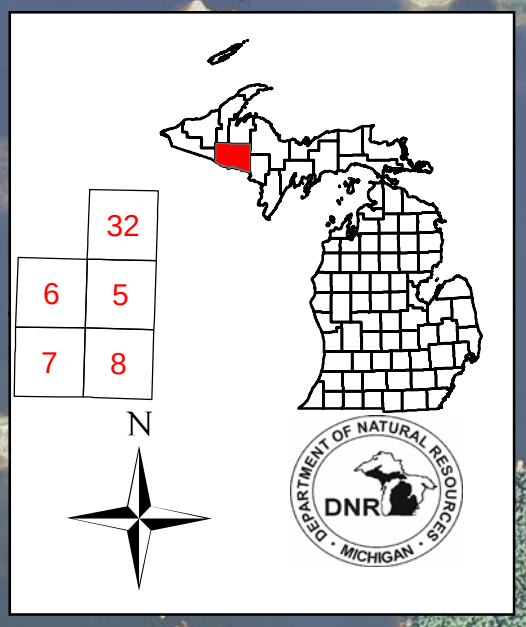


Legend

- Corners
- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
- Stream
- Intermittent Stream
- Pipe
- Power
- Stand Boundaries

Forest Stands

Level 3

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

Non-Forest Stands

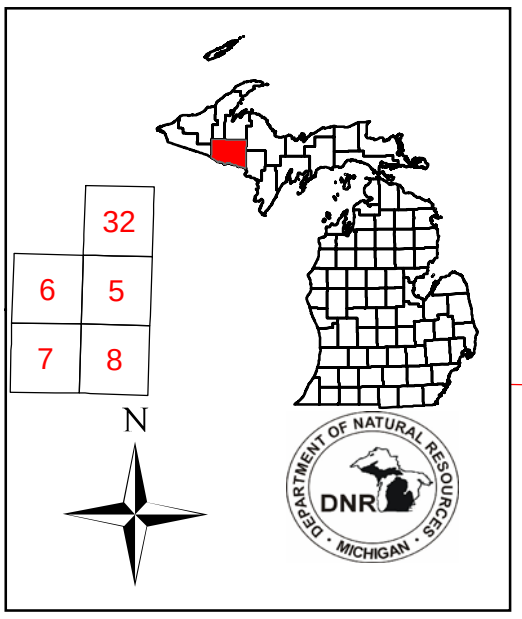
Level 3

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

Dedicated & Proposed Special Conservation Area Map

Compartment: 147
T43N R31W Sec. 5-8
T44N R31W Sec. 32
County: Iron
Unit: Crystal Falls
YOE: 2014
Acres: 1,122 GIS Calculated
Examiner: Scott Sebero
Map Revised: 07/12/2012
Map Phase: Pre-Review

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



Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries

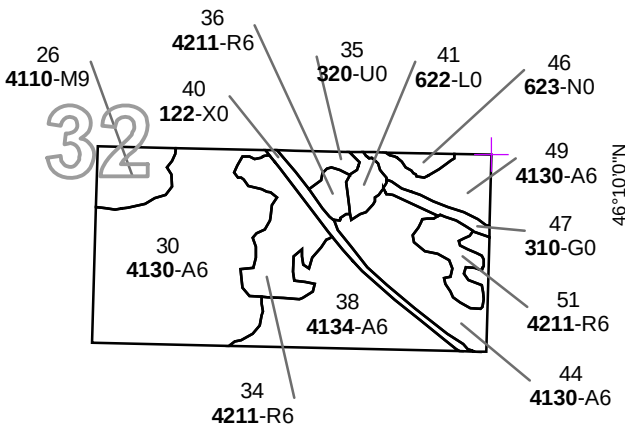
Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas

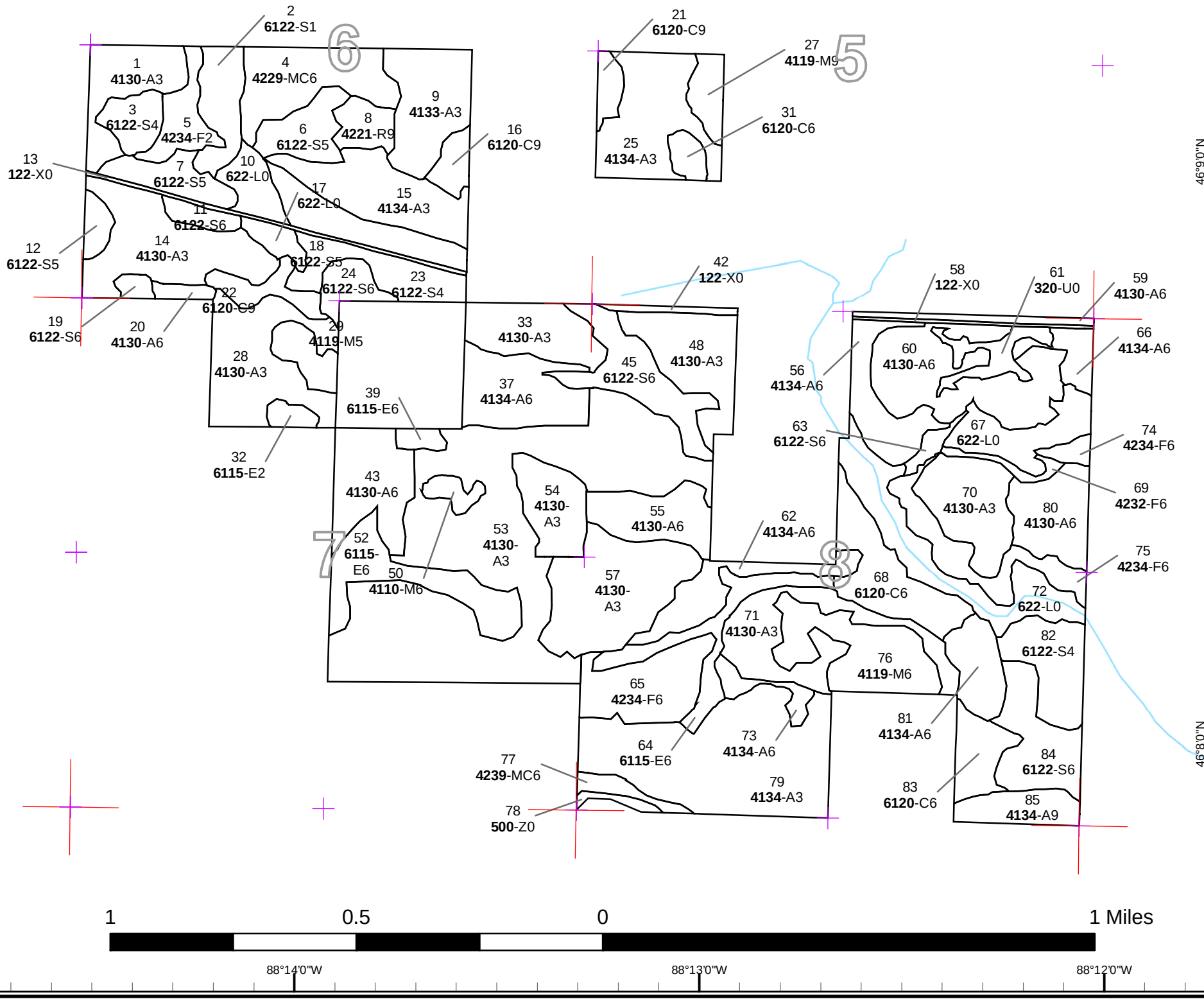
Forest Stands

Level 3
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland





1 0.5 0 1 Miles

88°14'0"W 88°13'0"W 88°12'0"W
46°9'0"N 46°10'0"N 46°8'0"N

Table 1 – Total Acres by Cover Type and Age Class

Crystal Falls Mgt. Unit **Compartment 147 Year of Entry 2014**

Scott Sebero : Examiner

Age Class

	0-9	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	79	369	15	55	44	0	12	0	0	100	0	0	0	0	**676**
Cedar	0	0	0	0	0	0	0	0	0	34	0	16	0	0	**50**
Herbaceous Openland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Lowland Deciduous	0	0	0	0	0	0	0	0	0	39	0	0	0	0	**39**
Lowland Shrub	54	0	0	0	0	0	0	0	0	0	0	0	0	0	**54**
Lowland Spruce/Fir	0	0	0	12	0	0	0	0	0	129	0	0	0	0	**141**
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	22	0	0	0	0	**22**
Northern Hardwood	0	0	0	0	0	0	0	0	0	7	0	38	0	0	**45**
Red Pine	0	0	0	0	12	0	0	0	0	7	0	0	0	0	**19**
Upland Conifers	0	0	0	0	0	0	0	0	0	4	0	0	0	0	**4**
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Upland Spruce/Fir	9	0	0	0	0	0	0	0	0	40	0	0	0	0	**49**
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	**10**
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Total	**165**	**369**	**15**	**67**	**56**	**0**	**12**	**0**	**0**	**383**	**0**	**53**	**0**	**0**	**1122**

Table 2 – Proposed Treatment Summaries

Crystal Falls Mgt. Unit
Year of Entry 2014

Compartment 147
Total Compartment Acres: 1122

Acres by Treatment Type

Commercial Harvest - 141	Site Prep - 0	Tree Planting - 2	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	109	0	0	0	0	0	**109**
Red Pine	0	0	0	0	12	0	**12**
Upland Spruce/Fir	20	0	0	0	0	0	**20**
Total	**129**	**0**	**0**	**0**	**12**	**0**	**141**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	12147020-Cut	2.2	4130 - Aspen	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: Regen survey

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	12147034-Cut	7.3	42110 - Planted Red Pine	High Density Pole	45	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark pine to a BA of 100 to 110 to release crowns. Remove poor quality stems first.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	12147036-Cut	1.4	42110 - Planted Red Pine	High Density Pole	45	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark red pine to reduce BA to 100 to 110 to release crowns. Remove poor quality stems first.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	12147038-Cut	12.1	4134 - Aspen, Spruce/Fir	High Density Pole	60	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	12147043-Cut	20.0	4130 - Aspen	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut. potential for broadwing hawk's nest.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51	12147051-Cut	3.3	42110 - Planted Red Pine	High Density Pole	45	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark pine to reduce BA to 100 to 110 to release crowns. Mark poor quality stems first.

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	12147055-Cut	15.3	4130 - Aspen	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	12147056-Cut	14.2	4134 - Aspen, Spruce/Fir	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
59	12147059-Cut	0.9	4130 - Aspen	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
62	12147062-Cut	13.3	4134 - Aspen, Spruce/Fir	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
65	12147065-Cut	19.8	42340 - Upland Spruce/Fir	High Density Pole	90	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	12147066-Cut	6.1	4134 - Aspen, Spruce/Fir	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	12147073-Cut	4.6	4134 - Aspen, Spruce/Fir	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
81	12147081-Cut	11.1	4134 - Aspen, Spruce/Fir	High Density Pole	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
85	12147085-Cut	9.7	4134 - Aspen, Spruce/Fir	High Density Log	90	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Cut all aspen and mixed hardwood that are two inches or more DBH. Cut all spruce, balsam and jack pine with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

Other Comments:

Next Steps: regen survey.

Proposed Start Date: 10/01/2013

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	NF_12147061-Plant_small	2.0	320 - Upland Shrub				Tree Planting	Hand Plant	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Wildlife Division will hand plant crab apple seedlings along trail road to prevent adjacent camp owner from mowing grass openings.

Other Comments:

Next Steps: survey

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 143.3

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error							

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Error

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: **0**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2014

Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12091001-Cut	31.4	4110 - Sugar Maple Association	High Density Log	87		Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal - Incomplete

Prescription Specs: Mark trees to 80 BA leaving best tree in place according to the Compleat Marker but focusing on White Ash to avoid Emerald Ash borer devastation. Create canopy gaps for regeneration

Other Comments:

Next Steps: Regen check according to certification

Proposed Start Date: 10/01/2013

Total Treatment Acreage Proposed: 31.4

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	15.8	8		
2	6122 - Black Spruce	Low Density Sapling	12.0	30		
3	6122 - Black Spruce	Low Density Pole	7.5	90	1-50	
4	42290 - Natural Mixed Pine	High Density Pole	22.4	90	51-80	
5	42340 - Upland Spruce/Fir	Medium Density	9.4	8		
6	6122 - Black Spruce	Medium Density Pole	10.8	90	51-80	
7	6122 - Black Spruce	Medium Density Pole	9.8	90	1-50	
8	42210 - Natural Red Pine	High Density Log	6.7	90	141-170	thin next entry when removing spruce from stand 80.
9	4133 - Aspen, Mixed Pine	High Density Sapling	21.4	15	1-50	
11	6122 - Black Spruce	High Density Pole	3.8	90	1-50	
12	6122 - Black Spruce	Medium Density Pole	3.8	90	51-80	
14	4130 - Aspen	High Density Sapling	30.1	8		
15	4134 - Aspen, Spruce/Fir	High Density Sapling	23.6	15	1-50	consider removing spruce next entry.
16	6120 - Lowland Cedar	High Density Log	4.8	110	141-170	
18	6122 - Black Spruce	Medium Density Pole	15.1	90	1-50	
19	6122 - Black Spruce	High Density Pole	2.0	90	51-80	
20	4130 - Aspen	High Density Pole	2.2	90	81-110	
21	6120 - Lowland Cedar	High Density Log	3.9	110	141-170	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	6120 - Lowland Cedar	High Density Log	6.9	110	141-170	
23	6122 - Black Spruce	Low Density Pole	14.2	90	1-50	
24	6122 - Black Spruce	High Density Pole	6.5	90	51-80	
25	4134 - Aspen, Spruce/Fir	High Density Sapling	25.9	16		
26	4110 - Sugar Maple Association	High Density Log	4.4	110	81-110	
27	4119 - Mixed Northern Hardwoods	High Density Log	6.2	110	81-110	
28	4130 - Aspen	High Density Sapling	28.6	18		
29	4119 - Mixed Northern Hardwoods	Medium Density Pole	6.9	90	51-80	
30	4130 - Aspen	High Density Pole	28.0	40	81-110	
31	6120 - Lowland Cedar	High Density Pole	3.8	90	81-110	
32	6115 - Lowland Ash	Medium Density	2.8	90	1-50	
33	4130 - Aspen	High Density Sapling	17.1	18		
34	42110 - Planted Red Pine	High Density Pole	7.3	45	171-200	
36	42110 - Planted Red Pine	High Density Pole	1.4	45	141-170	
37	4134 - Aspen, Spruce/Fir	High Density Pole	20.8	36	51-80	
38	4134 - Aspen, Spruce/Fir	High Density Pole	12.1	60	81-110	
39	6115 - Lowland Ash	High Density Pole	2.5	90	1-50	
43	4130 - Aspen	High Density Pole	20.0	90	81-110	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4130 - Aspen	High Density Pole	10.7	28	51-80	
45	6122 - Black Spruce	High Density Pole	19.1	90	51-80	
48	4130 - Aspen	High Density Sapling	21.0	18		
49	4130 - Aspen	High Density Pole	4.6	28	51-80	
50	4110 - Sugar Maple Association	High Density Pole	3.4	110	51-80	
51	42110 - Planted Red Pine	High Density Pole	3.3	45	141-170	
52	6115 - Lowland Ash	High Density Pole	20.0	90	51-80	
53	4130 - Aspen	High Density Sapling	116.5	18		
54	4130 - Aspen	High Density Sapling	13.8	8		
55	4130 - Aspen	High Density Pole	15.3	90	81-110	wet stand. winter cut.
56	4134 - Aspen, Spruce/Fir	High Density Pole	14.2	90	81-110	
57	4130 - Aspen	High Density Sapling	33.5	18		
59	4130 - Aspen	High Density Pole	3.8	90	81-110	harvest portion east of two track.
60	4130 - Aspen	High Density Pole	33.9	37	51-80	pockets of dead trees
62	4134 - Aspen, Spruce/Fir	High Density Pole	13.3	90	81-110	
63	6122 - Black Spruce	High Density Pole	2.5	90	51-80	
64	6115 - Lowland Ash	High Density Pole	14.0	90	51-80	
65	42340 - Upland Spruce/Fir	High Density Pole	19.8	90	51-80	lots of rock

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4134 - Aspen, Spruce/Fir	High Density Pole	6.1	90	81-110	
68	6120 - Lowland Cedar	High Density Pole	20.9	90	81-110	
69	42320 - Upland Spruce	High Density Pole	2.6	90	81-110	
70	4130 - Aspen	High Density Sapling	19.7	8		
71	4130 - Aspen	High Density Sapling	23.3	18		
73	4134 - Aspen, Spruce/Fir	High Density Pole	4.6	90	81-110	
74	42340 - Upland Spruce/Fir	High Density Pole	2.5	90	51-80	
75	42340 - Upland Spruce/Fir	High Density Pole	15.1	90	81-110	
76	4119 - Mixed Northern Hardwoods	High Density Pole	23.7	110	81-110	lots of rock. cedar growing on steep rock side hills.
77	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	3.8	90	51-80	
79	4134 - Aspen, Spruce/Fir	High Density Sapling	58.5	16		steep rock outcrops with older trees on top.
80	4130 - Aspen	High Density Pole	16.4	40	81-110	
81	4134 - Aspen, Spruce/Fir	High Density Pole	11.1	90	81-110	aspen breaking up. pockets of balsam blowdown.
82	6122 - Black Spruce	Low Density Pole	15.9	90	1-50	
83	6120 - Lowland Cedar	High Density Pole	9.8	90	171-200	
84	6122 - Black Spruce	High Density Pole	18.2	90	51-80	
85	4134 - Aspen, Spruce/Fir	High Density Log	9.7	90	81-110	

6 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	622 - Lowland Shrub	7.6	No	Unspecified	
13	122 - Road/Parking Lot	3.6	No	Unspecified	railroad
17	622 - Lowland Shrub	4.1	No	Unspecified	
35	320 - Upland Shrub	1.7	No	Unspecified	
40	122 - Road/Parking Lot	2.3	No	Unspecified	kopf's road.
41	622 - Lowland Shrub	1.7	No	Unspecified	
42	122 - Road/Parking Lot	2.2	No	Unspecified	railroad.
46	623 - Emergent Wetland	1.0	No	Unspecified	
47	310 - Herbaceous Openland	1.3	No	Unspecified	power line
58	122 - Road/Parking Lot	1.8	No	Unspecified	railroad
61	320 - Upland Shrub	7.2	Yes	Medium (NonForested)	private land owner mowing portions of stand. plant red pine to stop this practice.
67	622 - Lowland Shrub	14.3	No	Unspecified	old beaver dam and associated meadow.
72	622 - Lowland Shrub	25.9	No	Unspecified	clark creek and lowland associated with it.
78	50 - Water	1.8	No	Unspecified	michigamme river

Data updated before 10:00 AM

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.
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.