Gwinn Forest Management Unit
Compartment Review Presentation
Compartment 060 Entry Year: 2014
Compartment Acreage: 1,754 County: Marquette

Revision Date: 8/20/2012

Stand Examiner: Ben Travis

Legal Description: T43N R26W, Sec. 1-3, 10, 12, 15

RMU (if applicable): Ralph Ground Moraine Management Area

Management Goals: Planning will focus on timber management, fisheries management and wildlife habitat management. Public access, forest roads, forest regeneration, forest health, forest fire management, forest recreation, stream crossings, water quality and any resource damage are critical assessments considered during the forest mapping and inventory process. Overall management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest treatments.

Soil and Topography: Terrain ranges from level swamps and tag alder drainages to rolling or somewhat hilly upland terrain. Major soil series in this compartment are: Onaway fines sandy loam, Emmet-Escanaba complex, Carbondale and Tawas soils, Ensley-Solona complex, Emmet-Solona fine sandy loam, Escanaba loamy fine sand, Emmet fine sandy loam, Ensley muck, Paquin sand, and Mashek fine sandy loam.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is comprised of three separate blocks of state lands. The northwest block is bordered by state land to the west and primarily small private parcels around the north and west sides. A larger block of Plum Creek lands and St. John lands border this block on the south and southeast edges. The northeast block is bordered by state land to the east, small private parcels to the north and west, and primarily Plum Creek lands to the south. The south block is bordered by state and Plum Creek lands to the west, and Plum creek and St Johns lands to the remaining sides. Most small private parcels have camps located on them. Hunting is the primary recreational use of these small holdings, and the larger industrial lands are intensively managed for timber.

Unique, Natural Features: Potential for Calypso bulbosa, round leaved orchid, limestone oak fern and Cypripedium arietinum in cedar swamp.

Archeological, Historical, and Cultural Features: No records were found in the HAL database.

Special Management Designations or Considerations: The southwestern portion of the compartment is designated as winter deer habitat. The riparian zone along Gleason Creek is designated.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Featured species include American woodcock, northern goshawk, and ruffed grouse.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of medium-textured till and glacial outwash sand and gravel and postglacial alluvium (drumlin area). There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien and Cambrian

Trempealeau Groups subcrop below the glacial drift. These formations could be used for stone. Several gravel pits are located in this area and there is potential on the upland areas. Abandoned iron mines are located eight miles to the northeast. Section 1, 10 & 14 are leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access: Public vehicle access to the northeast block is restricted by a gate on Plum Creek lands. This gates access road connects to County Road 557. The Ross Grade provides the main access route for the other two blocks of state land. Private land blocks public access to a developed DNR road network through the northwest block. The south block has two access roads open to the Public, which are connected to Ross Grade. Most DNR roads have private gates once entering private property.

Survey Needs: A minimum of four new survey monuments will need to be established to reconcile gate and private line issues.

Recreational Facilities and Opportunities: Hunting, fishing, berry picking, mushroom picking, trapping, off-road vehicle usage and snowmobiling are the primary undeveloped recreation uses. Ross Grade is a main north-south route through this portion of Marquette County and receives high recreational usage.

Fire Protection: This area has a relatively low frequency of fire.

Additional Compartment Information:

- **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**

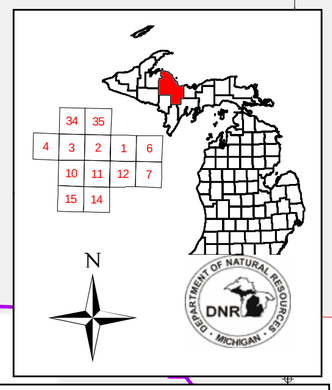
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - **Base feature information, stand numbers, cover types**
  - **Proposed treatments**
  - **Proposed road access system**
  - **Suggested potential old growth**

Cover Type & Treatment Map

Compartment: 060
T43N R25W Sec. 6, 7
T43N R26W Sec. 1-4, 10-12, 14, 15
T44N R26W Sec. 34, 35
County: Marquette
Unit: Gwinn
YOE: 2014
Acres: 1,754 GIS Calculated
Examiner: Ben Travis
Map Revised: 08/28/2012
Map Phase: Pre-Review

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

Ross Rd
Brothers Trl
West Branch Escanaba River
Ross Grade
Leighton Rd
Little West Branch
County Road 557



Legend

- Survey Grade
- 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
- Gate
- Stream
- Intermittent Stream
- Snowmobile Trail
- Snowmobile Trails
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (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
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 622 - Lowland Shrub

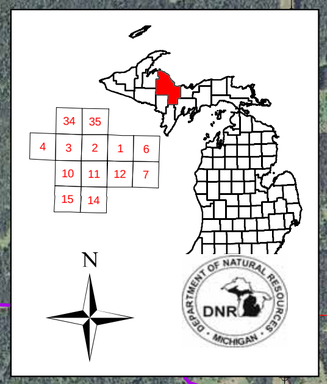
1 0.5 0 1 Miles

87°34'0"W 87°33'0"W 87°32'0"W 87°31'0"W 87°30'0"W 87°29'0"W
46°10'0"N 46°9'0"N 46°8'0"N 46°7'0"N

Stand Boundary Map

Compartment: 060
T43N R25W Sec. 6, 7
T43N R26W Sec. 1-4, 10-12, 14, 15
T44N R26W Sec. 34, 35
County: Marquette
Unit: Gwinn
YOE: 2014
Acres: 1,754 GIS Calculated
Examiner: Ben Travis
Map Revised: 04/10/2012
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
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Gate
- Snowmobile Trail
- Snowmobile Trails
- Stream
- Intermittent Stream
- Lakes and Rivers
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
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Non-Forest Stands

Level 3

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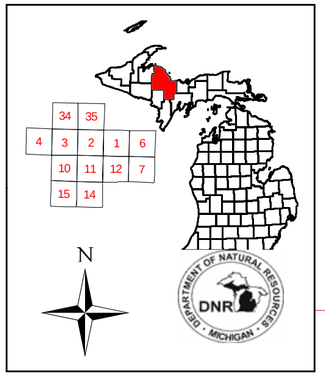
1 0.5 0 1 Miles

87°34'0"W 87°33'0"W 87°32'0"W 87°31'0"W 87°30'0"W 87°29'0"W

Dedicated & Proposed Special Conservation Area Map

Compartment: 060
T43N R25W Sec. 6, 7
T43N R26W Sec. 1-4, 10-12, 14, 15
T44N R26W Sec. 34, 35
County: Marquette
Unit: Gwinn
YOE: 2014
Acres: 1,754 GIS Calculated
Examiner: Ben Travis
Map Revised: 09/10/2012
Map Phase: Pre-Review

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



Legend

- Remonumented Section Corners
- Miris Corners
- Stand Boundaries
- Proposed Special Conservation Areas
- SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- Deer Wintering Areas

Forest Stands

Level 3

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

Non-Forest Stands

Level 3

310 - Herbaceous Openland
330 - Low-Density Trees
622 - Lowland Shrub

1 0.5 0 1 Miles

87°34'0"W 87°33'0"W 87°32'0"W 87°31'0"W 87°30'0"W 87°29'0"W 87°28'0"W
46°10'0"N 46°9'0"N 46°8'0"N 46°7'0"N

Table 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit **Compartment 060 Year of Entry 2014**

Ben Travis : 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	66	47	178	156	12	124	40	0	32	0	0	0	0	0	**655**
Cedar	0	0	0	0	0	0	0	0	22	11	0	272	1	0	**306**
Herbaceous Openland	46	0	0	0	0	0	0	0	0	0	0	0	0	0	**46**
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Lowland Conifers	0	0	0	3	0	0	0	0	12	0	0	0	5	0	**21**
Lowland Deciduous	0	0	0	0	0	0	2	0	0	0	0	0	0	0	**2**
Lowland Mixed Forest	0	0	0	0	0	0	13	0	0	0	0	0	0	0	**13**
Lowland Shrub	102	0	0	0	0	0	0	0	0	0	0	0	0	0	**102**
Lowland Spruce/Fir	0	0	0	0	12	0	0	17	0	0	0	0	0	0	**29**
Mixed Upland Deciduous	0	0	0	0	0	0	3	0	0	0	0	0	0	0	**3**
Northern Hardwood	0	0	0	0	0	0	0	100	133	89	0	0	0	0	**322**
Red Pine	0	0	0	47	0	0	0	0	0	0	0	0	0	0	**47**
Tamarack	0	0	0	0	0	11	0	0	3	0	0	0	0	0	**15**
Upland Mixed Forest	0	0	0	0	0	0	64	67	17	0	0	0	0	0	**148**
Upland Spruce/Fir	0	0	0	0	2	0	0	5	28	0	0	0	0	0	**35**
Total	**223**	**47**	**178**	**206**	**26**	**136**	**123**	**189**	**249**	**100**	**0**	**272**	**7**	**0**	**1754**

Table 2 – Proposed Treatment Summaries

Gwinn Mgt. Unit
Year of Entry 2014

Compartment 060
Total Compartment Acres: 1754

Acres by Treatment Type

Commercial Harvest - 411	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 24	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	163	0	0	0	0	0	**163**
Lowland Conifers	12	0	0	0	0	0	**12**
Lowland Deciduous	2	0	0	0	0	0	**2**
Mixed Upland Deciduous	3	0	0	0	0	0	**3**
Northern Hardwood	0	29	0	0	0	0	**29**
Red Pine	33	0	0	0	13	0	**47**
Upland Mixed Forest	148	0	0	0	0	0	**148**
Upland Spruce/Fir	0	0	5	0	0	0	**5**
Total	**362**	**29**	**5**	**0**	**13**	**0**	**411**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	32060006-Cut	2.2	4134 - Aspen, Spruce/Fir	High Density Log	60	81-110	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Leave some scattered white spruce. Retain any white pine, red pine, cedar, hemlock or oak if present. Retention will not meet the 3% threshold due to small stand size.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, fir, maple, spruce and white birch are acceptable regeneration.

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
7	32060007-Cut	12.0	6124 - Lowland Spruce-Fir	Medium Density Pole	82	81-110	Harvest	Clearcut with Reserves	6124 - Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription Specs: Retain all cedar, white pine, yellow birch and hemlock. Leave small patches of spruce across site to provide windfirm seed sources. Harvest all other species.

Other Comments: Stand is currently designated as potential old-growth. Recommend removing this designation and allowing stand to be treated.

Next Steps: Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Spruce, fir, tamarack, cedar, hemlock, pine, birch, red maple and aspen are acceptable regeneration.

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
8	32060008-Cut	14.4	4130 - Aspen	High Density Log	62	141-170	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision to leave some scattered bigtooth aspen was made at pre-review.

Harvest aspen, fir, white birch, maple and spruce. Use patch exclusion to meet retention standards. Leave a component of black cherry. Retain white pine, red pine, cedar, hemlock and oak if present.

Other Comments: North portion of stand is designated as potential old-growth. Recommend removal of this designation and proceeding with treatment. Hunter Walking Trail passes through stand.

Next Steps: Follow-up treatment with regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, white birch, pine and maple are acceptable regeneration.

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
9	32060009-Cut	1.5	4130 - Aspen	High Density Pole	56	81-110	Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Harvest all trees. Leave some scattered white spruce along Grade. Will not meet minimum retention levels due to small stand size.

Other Comments:

Next Steps: Follow-up with appropriate regeneration survey. Aspen, maple, fir and spruce are acceptable regeneration.

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
20	32060020-Cut	23.6	4134 - Aspen, Spruce/Fir	Medium Density Log	62	51-80	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to leave most black cherry unless needed for logging equipment operability.

Harvest aspen, maple, white birch, fir and spruce. Leave white pine, yellow birch, oak, cedar and hemlock if present. May remove a portion of the red pine if warranted. Retention will be provided for by patch exclusion.

Other Comments: East edge of stand is designated as potential old-growth. Recommend removing this designation. A permanent road will be created during the timber sale operations to provide continued access to this stand and others further east. This new road will connect into an existing DNR road network, which is only used by private landowners due to restricted entry. Numerous illegal blinds and unauthorized firewood cutting were discovered along this existing road network. A survey request will be made to have a survey monument set at the NE corner of the adjoining private 40.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, cherry, maple, fir, spruce, birch and pine are acceptable regeneration.

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
32	32060032-Cut	24.6	4319 - Mixed Upland Forest	Medium Density Pole	62	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest fir, spruce, aspen, maple and white birch. Leave white pine, cedar, hemlock and oak. May remove up to 50% of red pine if needed. Use patch exclusion to provide for retention. Include some of the purer hardwood pockets in these patches.

Other Comments: Recommend treating this stand out of entry as it will be associated with the two adjacent red pine treatments being proposed to enter in YOE 2012.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, pine, maple, white birch and cedar are acceptable regeneration.

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	32060036-Cut	5.2	42320 - Upland Spruce	High Density Log	72	111-140	Harvest	Seed Tree	42320 - Upland Spruce	Cmpt. Review Proposal

Prescription Specs: Harvest aspen, fir and maple. Leave scattered, windfirm spruce as seed source and remove remaining spruce. Leave some scattered cherry. Leave white pine, cedar, yellow birch, hemlock and oak. May remove up to 50% of red pine if desired. Retention may not make the 3% threshold due to small stand size.

Other Comments: Recommend treating this stand out of entry as it will be associated with the two adjacent red pine treatments being proposed to enter in YOE 2012.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, spruce, fir, maple, birch and pine are acceptable regeneration.

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
38	32060038-Cut	2.8	4191 - Mixed Upland Deciduous with Conifer	High Density Log	62	171-200	Harvest	Clearcut with Reserves	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal

Prescription Specs: Harvest aspen, fir, spruce, basswood, white birch and maple. Retain yellow birch. Leave white pine, red pine, cedar and hemlock if present. May leave some patches of hardwood if desired.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in the "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, pine, cedar, maple, birch and basswood are acceptable regeneration.

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
40	32060040-Cut	20.3	42110 - Planted Red Pine	High Density Pole	34	111-140	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Remove all overstory species except cedar, hemlock and white pine. Severe porcupine damage has occurred in this stand and has resulted in nearly 100% of the red pine stems being cull with little merchantable volume. A pronounced balsam poplar, fir and spruce understory will be released and allowed to become the new stand. No retention as heavy advanced regeneration will replace overstory and low merchantability of damaged red pine requires all available trees on site to be harvested to make sale feasible.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, pine, birch and maple are acceptable regeneration.

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
42	32060042-Cut	26.0	4319 - Mixed Upland Forest	High Density Log	72	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest aspen, spruce, fir, maple and white birch. Leave some small patches spruce. Retain white pine, yellow birch, cedar and hemlock. May mark up to 50% of red pine if desired.

Other Comments: Recommend treating this stand out of entry as it will be associated with the two adjacent red pine treatments being proposed to enter in YOE 2012.

Next Steps: Follow-up treatment with a regeneration survey as outlined in the "Work Instruction 2.1 Reforestation". Aspen, fir, spruce, maple, birch and pine are acceptable regeneration.

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44	32060044-Cut	39.5	4319 - Mixed Upland Forest	High Density Pole	62	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to leave all black cherry unless needed for logging equipment operability.

Harvest aspen, tamarack, fir, paper birch and maple. Remove all spruce 5 inches DBH and larger as measured 4 inches above ground. Leave white pine, yellow birch, cedar and hemlock. May remove up to 50% of red pine. Retain some small patches of mature spruce.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Spruce, fir, aspen, pine, birch and maple are acceptable regeneration.

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
45	32060045-Cut	13.1	42110 - Planted Red Pine	High Density Pole	34	81-110	Harvest	Clearcut	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Harvest all overstory species. Retain any white pine. Stand has suffered serious porcupine damage. Many areas with deformed trees and low merchantability. Retention beyond a few trees is not appropriate in this stand as it may be herbicided and then will be mechanically planted following harvest.

Other Comments:

Next Steps: A forest treatment proposal will be developed following harvest to provide for herbicide site prep to remove competing vegetation and re-planting of red pine. Appropriate regeneration surveys will be conducted following the planting.

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	32060046-Cut	2.8	4110 - Sugar Maple Association	High Density Pole	75	141-170	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Use single tree selection to reduce residual basal area to between 70 to 90 square feet. Retain any white pine, cedar and hemlock. Leave some scattered white spruce.

Other Comments: Will need to request that a survey monument be placed at SW corner of stand to reconcile the private line and possible trespass of a private gate.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Maple, birch, cherry, basswood, white pine, hemlock and white spruce are acceptable regeneration.

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
47	32060047-Cut	26.6	4110 - Sugar Maple Association	High Density Log	80	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Use indiviudal tree selection marking to reduce residual basal area to between 80 and 90 square feet. Retain white pine, white spruce, cedar and hemlock.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Maple, basswood, cherry, white spruce, hemlock, white pine and birch are acceptable regeneration.

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
52	32060052-Cut	23.1	4319 - Mixed Upland Forest	High Density Log	72	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest all aspen, spruce, maple and fir. Retain yellow birch, hemlock, oak, cedar, white pine and elm.

Other Comments: Stand has already been prepared out of entry for sale and has been purchased by a timber producer, contract #32-013-11-01.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, spruce, fir, maple, pine and birch are acceptable regeneration.

Proposed Start Date: 10/01/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
55	32060055-Cut	18.4	4319 - Mixed Upland Forest	High Density Log	72	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest all trees except yellow birch, hemlock, oak, cedar, white pine and elm.

Other Comments: Stand has been prepared for sale out of entry and has been purchased by a timber producer, contract #32-013-11-01.

Next Steps: Follow-up treatment with a regeneration survey as provided for in "Work instruction 2.1 Reforestation". Aspen, maple, birch, fir, spruce and white pine are acceptable regneration.

Proposed Start Date: 10/01/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	32060073-Cut	20.8	4134 - Aspen, Spruce/Fir	High Density Log	57	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: Harvest aspen, maple, fir, spruce and paper birch. Leave white pine. Reserve cedar, hemlock, yellow birch and oak if present. Patch exclusion will be used to provide for retention.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, maple, birch, white pine, fir and spruce are acceptable regeneration.

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
76	32060076-Cut1	16.9	4319 - Mixed Upland Forest	High Density Log	85	81-110	Harvest	Clearcut with Reserves	4319 - Mixed Upland Forest	Cmpt. Review Proposal

Prescription Specs: Harvest all tree species except yellow birch, hemlock, oak, cedar, white pine and elm.

Other Comments: Stand has been prepared for sale out of entry year and sold to a timber producer, contract #32-013-11-01.

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, birch, maple, fir and spruce are acceptable regeneration.

Proposed Start Date: 10/01/2011

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	32060078-Cut	15.1	4139 - Aspen, Mixed Deciduous	High Density Log	85	141-170	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision to incorporate windfirm white spruce and large aspen (prefer bigtooth if available) within retenetion patches was made at pre-review.

Harvest aspen, maple, basswood, white birch, fir and spruce. Reserve cedar, hemlock, oak, yellow birch, red pine and white pine if present. Retention will be met with patch exclusions.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, maple, birch, fir and spruce are acceptable regeneration.

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	32060081-Cut	2.4	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	60	141-170	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Specs: Harvest aspen, white birch, fir, tamarack, spruce and maple. Reserve cedar. Leave white pine, red pine, hemlock and yellow birch. Exclude any larger, denser pockets of cedar from sale.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, maple, fir, spruce, tamarack, cedar and birch are acceptable regeneration.

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
83	32060083-Cut	17.3	4134 - Aspen, Spruce/Fir	High Density Log	88	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision to incorporate large bigtooth aspen and windfirm white spruce within the retention patches was made at pre-review.

Harvest aspen, fir, spruce, maple and white birch. Reserve yellow birch. Leave cedar, hemlock, white pine, red pine and oak if present. Use patch exclusion for meeting retention standards.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, birch, maple, fir, and spruce are acceptable regeneration.

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
84	32060084-Cut	13.4	42110 - Planted Red Pine	High Density Pole	34	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision was made at pre-review to leave some of the fir, spruce and aspen along the edge of the plantation if it doesn't interfere with harvest operations.

Harvest every third row of red pine. Will remove all tree species within rows being thinned. May also remove girdled and suppressed red pine between thinned rows if warranted. Aspen, maple, fir and spruce along edge of plantation will also be removed.

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
86	32060086-Cut	59.0	4139 - Aspen, Mixed Deciduous	High Density Log	55	111-140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision was made at pre-reveiw to incorporate windirm white spruce and large aspen (prefer bigtooth) into the retention patches.

Harvest aspen, fir, spruce, paper birch and maple. Reserve yellow birch and elm. Leave oak, cedar, hemlock and white pine if present. May remove up to 50% of red pine if present. Use patch exclusion to meet retention standards.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, maple, birch, fir and spruce are acceptable regeneration.

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
87	32060087-Cut	9.4	4139 - Aspen, Mixed Deciduous	High Density Log	55	111-140	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: --Ben Travis : 08/23/2012 comments: A decision to incorporate windfirm white spruce and large aspen (prefer bigtooth) into the retention patches was made at pre-review.

Harvest aspen, white birch, basswood, fir, spruce and maple. Reserve yellow birch. Leave cedar, hemlock, oak and white pine if present. May remove up to 50% of red pine if present. Use patch exclusion to meet retention standards.

Other Comments:

Next Steps: Follow-up treatment with a regeneration survey as outlined in "Work Instruction 2.1 Reforestation". Aspen, maple, basswood, fir, spruce and birch are acceptable regeneration.

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
41	NF_32060041-NonFor	7.9	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Prescribe for a timber harvest to re-open stand. Leave some scattered spruce.

Other Comments: Harvest with other adjacent timber sales.

Next Steps:

Proposed Start Date: 10/01/2012

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
43	NF_32060043-NonFor	15.7	3105 - Mixed Upland Herbaceous				Non-Forest Management	Other - Specify	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Prescribe areas with encroaching trees for timber harvest. Some nicer patches of herbaceous forage that should be maintained in the future. Leave some patches of spruce.

Other Comments: Habitat management will be done with adjacent timber prescriptions.

Next Steps:

Proposed Start Date: 10/01/2013

Total Treatment Acreage Proposed: 434.1

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**

Data updated before 2:00 PM

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

Prescription Specs:

Other Comments:

Next Steps:

Proposed Start Date: #Error

Total Treatment Acreage Proposed: **0**

Data updated before 2:00 PM

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	37.5	6		Aspen is 12 to 14 tall. Moderate stocking of aspen stems. Occasional white spruce and ironwood poles. Not seeing beaked hazel. Stand borders private property and Ross Grade.
2	6120 - Lowland Cedar	High Density Pole	8.8	112	200+	Cedar trunks have good form. Cedar crowns are healthy. Sporadic white birch and trembling aspen poles.
3	42340 - Upland Spruce/Fir	High Density Pole	1.7	45		Ridge. Some larger fir and black spruce poles.
4	6120 - Lowland Cedar	High Density Pole	4.9	112		
5	6121 - Tamarack	High Density Pole	11.4	53		2 and 3 stick tamarack. Cedar mainly found east of Ross Grade. Cedar crowns somewhat sparse. Stand adjacent to Ross Grade and private property.
6	4134 - Aspen, Spruce/Fir	High Density Log	2.2	60	81-110	
7	6124 - Lowland Spruce-Fir	Medium Density Pole	12.0	82	81-110	Took additional plot with BA of 110 sq ft. 2 to 5 stick black spruce. 5 stick white spruce. Small patches of cedar. Some balsam poplar poles.
8	4130 - Aspen	High Density Log	14.4	62	141-170	Overstory fir becoming overmature. Some 5 stick aspen present. Ironwood poles and black cherry poles are uncommon overstory associates. High quality, healthy boles. Some aspen snags.
9	4130 - Aspen	High Density Pole	1.5	56	81-110	Aspen in decline.
12	4134 - Aspen, Spruce/Fir	High Density Pole	3.4	40	51-80	White birch poles, white birch saplings, white pine sawtimber, white spruce sawtimber and cedar poles are minor overstory associates. Some patches of F3/F4. Still a component of sub-merchantable aspen - 1/2 stick.
14	6120 - Lowland Cedar	High Density Pole	22.3	82	171-200	Lot of sweep to cedar boles. Cedar canopies healthy. Sporadic balsam poplar and white birch poles. Gleason Creek passes through stand.
15	4130 - Aspen	High Density Sapling	6.7	12		Stand extends north into adjacent compartment.
16	6130 - Fir, Aspen, Maple	Low Density Log	13.3	62		Isolated, small clumps of cedar. Variable stocking with some low stocking. Tamarack and black spruce poles present to south. Scarce white birch saplings and red maple poles.
17	6120 - Lowland Cedar	High Density Log	1.5	155		
18	6121 - Tamarack	High Density Pole	3.2	82	111-140	Three stick tamarack. Healthy. Widely scattered white birch poles.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	4130 - Aspen	High Density Pole	4.6	40		Illegal ATV trail coming in from private to west. It leads to an illegal box blind.
20	4134 - Aspen, Spruce/Fir	Medium Density Log	23.6	62	51-80	Stand is falling apart - many aspen snags. There are pockets with very low stocking. Heavy levels of hazel to west. Some cedar poles found.
22	4130 - Aspen	High Density Pole	2.3	30	81-110	Still have several non-merchantable aspen stems (diameter too small) in each plot. Widely scattered elm and sugar maple poles. Black ash saplings present.
23	4110 - Sugar Maple Association	High Density Pole	52.0	80	81-110	Good to excellent quality maple boles. Two illegal box blinds with shooting lanes within stand. Access to this entire area is limited by the two adjacent private parcels. Infrequent white spruce, trembling aspen and cedar ploes in stand. Trembling aspen poles found along south edge of stand.
24	4130 - Aspen	High Density Sapling	13.1	30		Good stocking level. Aspen ranges from 14 to 18 feet tall. Infrequent white birch and sugar maple poles.
26	4110 - Sugar Maple Association	High Density Pole	24.0	80	81-110	Good to excellent quality sugar maple boles. Illegal box blinds in stand. Illegal ATV trail exits stand to provide access to another illegal box blind further to east.
27	42320 - Upland Spruce	High Density Pole	28.4	82	141-170	Many black saplings in overstory. Sporadic yellow birch poles. Areas of low stocking.
28	6120 - Lowland Cedar	High Density Pole	56.5	117	200+	Some narrow, long upland ridges. 3 foot wide stream flowing E-W through stand. Some tamarack poles.
29	4130 - Aspen	High Density Sapling	177.7	26		Aspen range from 24 to 32 feet tall. Good stocking levels.
30	4134 - Aspen, Spruce/Fir	High Density Pole	106.6	33		Adequate stocking levels. Some small areas where aspen has stagnated resulting in lower BA. Some patches of F type. Aspen diameters tend to be smaller to the northeast. Ironwood and white birch poles present. Scattered white birch saplings. A small opening is contained within this stand. Illegal box blind in stand.
31	4110 - Sugar Maple Association	High Density Log	74.0	90	81-110	Good timber quality northern hardwood stand. Infrequent ironwood, aspen and balsam poplar poles.
32	4319 - Mixed Upland Forest	Medium Density Pole	24.6	62	81-110	
33	6120 - Lowland Cedar	High Density Pole	122.9	117	200+	Cedar boles have good form. Cedar canopy healthy.
34	6120 - Lowland Cedar	Low Density Pole	10.8	117		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4110 - Sugar Maple Association	High Density Pole	30.8	80	81-110	Pocket of M3 at northwest corner. Good representation of larger maple size classes. Scattered large diameter basswood. Yellow birch, white birch and fir poles present. Illegal box blind along north edge of stand.
36	42320 - Upland Spruce	High Density Log	5.2	72	111-140	Aspen and fir are overmature. Illegal box blind on site. Multiple boards with dozens of exposed nail points nailed to tree below a deer feeder.
37	4130 - Aspen	Medium Density Pole	11.5	33	1-50	Many aspen snags. Aspen Dbh range from 6 to 8 inches. Areas where aspen density is inadequate due to health problems. These areas will continue to enlarge as many boles showing signs of decline.
38	4191 - Mixed Upland Deciduous with Conifer	High Density Log	2.8	62	171-200	Fir and balsam poplar snags not uncommon, with pockets of overstory blowdown. White birch, yellow birch and basswood are minor overstory components.
39	6123 - Lowland Fir	High Density Sapling	3.5	32		Field assessed 4 of the cut strips. 2 to 4 inches of snow on the ground. Overstory fir ranged from 16 to 24 feet tall. Very few fir stems are in the small pole size (5 inch Dbh). Small white birch poles are just at the 4.5 inch Dbh threshold. Fir and black spruce seedlings are veryy scarce, and not found in every strip. I only located one 8.5 inch tall cedar seedling in all the strips I examined.
40	42110 - Planted Red Pine	High Density Pole	20.3	34	111-140	Extreme frequency of porcupine girdling damage. Very close to 100% of red pine poles are impacted. Many stems are going to rapidly die as foliage is very sparse. Standing dead red pine present. Damage occurs both at ground level and around 8 feet above ground, rendering many stems (approximately 50%) without even one undamaged stick. Many trees have multiple tops above porcupine damage. The red pine timber crop should be considered a near failure, and immediate salvage of merchantable stems should occur. Stand has variable stocking levels and a high diversity of other canopy species. Pockets of upland fir and aspen exist. The average number of sticks per red pine stem is one.
42	4319 - Mixed Upland Forest	High Density Log	26.0	72	81-110	Fir is overmature, with 3 to 5 sticks. Aspen is also stagnating. Sugar maple, yellow birch and white birch are overstory associates.
44	4319 - Mixed Upland Forest	High Density Pole	39.5	62	81-110	Very mixed stand with a lot of tree diversity in both the understory and overstory. Cedar and tamarack poles are present. Black cherry, white birch, sugar maple and tamarack saplings present. Some fir and white spruce trees measure up to 18 inches Dbh.
45	42110 - Planted Red Pine	High Density Pole	13.1	34	81-110	Severe porcupine girdling of majority of red pine stems. High frequency of deformity and sparse foliage. Increasing mortailty is likely. Pockets of red pine snags. Timber potential of red pine is greatly diminished. There is less damage in this stand than in red pine stand to north, but stocking of uninjured red pine is far too low to warrant further maturation of stand. Most patches of red pine have suffered 100% girdling injury, while smaller areas have 50% girdling.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4110 - Sugar Maple Association	High Density Pole	2.8	75	141-170	Illegal box blind on state land.
47	4110 - Sugar Maple Association	High Density Log	26.6	80	81-110	Fair amount of defect, disease, and spacing issues.
48	6120 - Lowland Cedar	High Density Log	9.9	117	200+	Cedar boles have very poor form due to sweep and lean. Cedar foliage full and healthy. Some 16 to 18 inch Dbh cedar. Infrequent white birch and balsam poplar poles found.
49	6120 - Lowland Cedar	High Density Pole	8.1	117	200+	Some sweep to cedar boles, but overall good form. Healthy cedar canopies.
50	6120 - Lowland Cedar	High Density Pole	11.1	92		Moderate to low quality cedar boles. Canopy healthy. Patches of lower cedar density.
51	6120 - Lowland Cedar	High Density Log	9.8	117	200+	Cedar crowns healthy.
52	4319 - Mixed Upland Forest	High Density Log	23.1	72	81-110	Scarce overstory balsam poplar and cedar found. Stand has been prepared for a treatment - Rough Riders timber sale, #32-013-11-01. No cutting has occurred at this time. Sale contract expires 5/31/2015. Yellow birch, hemlock, oak, cedar, white pine and elm are being left on site.
53	4130 - Aspen	High Density Pole	22.1	37	81-110	Aspen range from 8 to 12 inches Dbh. Infrequent black cherry poles and white birch saplings.
54	4110 - Sugar Maple Association	High Density Pole	28.9	70	81-110	Moderate quality hardwood stand. Occasional white spruce and trembling aspen poles. Heavy sedge.
55	4319 - Mixed Upland Forest	High Density Log	18.4	72	81-110	Scarce overstory balsam poplar and cedar found. Stand has been prepared for a treatment - Rough Riders timber sale, #32-013-11-01. No cutting has occurred at this time. Sale contract expires 5/31/2015. Yellow birch, hemlock, oak, cedar, white pine and elm are being left on site.
56	6120 - Lowland Cedar	High Density Log	9.0	117	200+	Fairly good quality cedar boles. Small pockets of blowdown and sweep. Cedar crowns healthy. Patches of heavier tag alder. White spruce and balsam poplar in overstory.
57	4110 - Sugar Maple Association	High Density Pole	43.4	75	81-110	Nice pockets of sugar maple saplings in understory. Also pockets of moderate to high density white ash saplings in center of stand. Moderate quality sugar maple boles. Stocking levels variable. Areas with nice quality, multi-trunked white ash sawtimber. One white ash trunk measured 22 inches Dbh.
59	6120 - Lowland Cedar	High Density Log	2.0	117		
60	4110 - Sugar Maple Association	High Density Pole	10.8	70	81-110	Illegal ground blind present.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	4130 - Aspen	High Density Sapling	16.4	16	81-110	Scattered cedar poles.
62	4130 - Aspen	High Density Log	33.6	55	111-140	Well established sugar maple midstory - saplings 2 to 3 inch dbh. Occasional aspen snags.
64	4134 - Aspen, Spruce/Fir	High Density Log	4.2	49	81-110	2 size-classes of overstory aspen, smaller class 10 to 11 inches Dbh which is healthy and 12 plus inch diameter class that is beginning to declining. Waiting another 10 years to allow 4th stick to develop better diameter in many trees is desirable, and health/vigor concerns will be minimum. Sporadic white birch saplings.
66	6122 - Black Spruce	High Density Pole	7.5	40		
67	4110 - Sugar Maple Association	High Density Pole	7.6	70	81-110	
68	42360 - Upland Cedar	High Density Log	8.1	117	171-200	Cedar boles have poor form. Variable stocking with lower desnities having a lot of tag alder and black ash saplings. Tamarack a member of overstory.
70	4130 - Aspen	High Density Sapling	23.7	16		Aspen ranges from 28 to 32 feet tall. Variable stocking, but overall levels will be adequate for timber production. Higher densities to west. No full sticks yet. Aspen is healthy.
71	6122 - Black Spruce	Medium Density	4.7	42		Infrequent white pine poles.
72	4130 - Aspen	High Density Sapling	25.5	5		Aspen ranges from 10 to 12 feet tall. Variable stocking with some pockets that are poorly stocked. High ridge runs through stand.
73	4134 - Aspen, Spruce/Fir	High Density Log	20.8	57	81-110	Starting to see pockets of aspen mortality. Heavier stocking of fir along north edge. Sporadic white pine poles. Small lowland inclusion.
76	4319 - Mixed Upland Forest	High Density Log	16.9	85	81-110	Stand has been prepared for a treatment - Rough Riders timber sale, #32-013-11-01. No cutting has occurred at this time. Sale contract expires 5/31/2015. Any yellow birch, hemlock, oak, cedar, white pine and elm are being left on site.
77	6122 - Black Spruce	High Density Pole	16.5	75	141-170	Black crowns healthy.
78	4139 - Aspen, Mixed Deciduous	High Density Log	15.1	85	141-170	
79	4110 - Sugar Maple Association	High Density Pole	6.3	70	81-110	Moderate quality timber.
81	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	2.4	60	141-170	Aspen deteriorating. Site becomes wetter to east.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6120 - Lowland Cedar	High Density Log	7.9	117	200+	Cedar crowns healthy. Moderate quality form to cedar boles. Very sparse underbrush. Infrequent white birch poles.
83	4134 - Aspen, Spruce/Fir	High Density Log	17.3	88	81-110	Some aspen up to 16 inches Dbh. Fir is declining. Pockets of blowdown. Occasional red maple and yellow birch poles.
84	42110 - Planted Red Pine	High Density Pole	13.4	34	200+	Moderate to good form and condition to most red pine stems. Small pockets of spruce, aspen and fir poles along margins of stand which will be harvested.
86	4139 - Aspen, Mixed Deciduous	High Density Log	59.0	55	111-140	Many aspen trees showing signs of decline with numerous aspen snags present. Yellow birch, basswood, black ash and elm are infrequent overstory associates. Small opening contained within south portion of this stand. Opening is fairly well filled in with various tree saplings.
87	4139 - Aspen, Mixed Deciduous	High Density Log	9.4	55	111-140	Component of aspen in decline. Aspen snags present. Yellow birch and basswood are infrequent overstory associates.
88	6120 - Lowland Cedar	High Density Log	3.1	117	141-170	Severe sweep to most cedar boles. Lot of blowdown.
89	4110 - Sugar Maple Association	High Density Pole	14.5	90	111-140	Moderate quality sugar maple boles. Some nice 16 foot sugar maple logs developing. Fair amount of sugar maple borer damage. Largest diameter maples are 14 inches Dbh. Patches of dense ironwood regeneration.
90	6120 - Lowland Cedar	High Density Pole	2.1	112	200+	
91	6120 - Lowland Cedar	High Density Pole	7.7	117	111-140	Frequent sweep to cedar boles. Descend short steep slope from west to reach stand. Stocking declines as you head east. Crown vigor and average diameter also decline the further east you proceed.
92	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	5.5	130		
93	4130 - Aspen	High Density Sapling	3.2	3		Aspen range from 12 to 14 feet tall. Some small patches of maple poles present.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
10	6220 - Alder/willow	35.4	No	Unspecified	Scattered small patches of tamarack poles.
11	3105 - Mixed Upland Herbaceous	1.8	N\A	Unspecified	Old opening is still around 80 percent open. White spruce poles, trembling aspen poles, white spruce saplings, trembling aspen saplings and balsam poplar saplings are present.
13	6220 - Alder/willow	15.5	No	Unspecified	Tag alder predominates. Some sporadic spruce and balsam poplar poles/saplings west of road, Infrequent cedar and tamarack poles.
21	6220 - Alder/willow	8.9	No	Unspecified	
25	3302 - Low Density Conifer Trees	8.4	N\A	Unspecified	Area is still about 60% open. White spruce, fir, aspen tamarack and black cherry saplings are filling in. Some scattered white spruce poles. Road coming into stand from private to west is used exclusivley by private owners. Heavier stocking of trees to south.
41	3105 - Mixed Upland Herbaceous	7.9	N\A	Unspecified	Stand is approximately 60% to 75% open. White spruce poles and saplings are encroaching along edges. Infrequent black spruce and balsam poplar poles are present. Illegal box blind located in stand.
43	3105 - Mixed Upland Herbaceous	15.7	N\A	Unspecified	Stand remains fairly open in certain areas. F-type fringe closing in along perimeter of stand. White spruce, balsam poplar and fir saplings encroaching. White spruce and fir poles also present. Infrequent tamarack poles. Tree stand found at far east edge.
58	3105 - Mixed Upland Herbaceous	2.6	No	Unspecified	
63	6220 - Alder/willow	25.3	No	Unspecified	Tag alder widespread with small patches of tamarack saplings. Uncommon white birch poles
65	3105 - Mixed Upland Herbaceous	2.4	No	Unspecified	Stand filling in with fir, white spruce, trembling aspen, white pine, tamarack and white birch saplings. White spruce, fir, trembling aspen and red maple poles present. Stand is approxiamtely 50% open.
69	6220 - Alder/willow	6.5	No	Unspecified	
74	3105 - Mixed Upland Herbaceous	1.9	N\A	Unspecified	
75	3105 - Mixed Upland Herbaceous	6.0	N\A	Unspecified	Stand is roughly 60 to 70% open yet. Aspen, fir and white spruce saplings encroaching. Fir and white spruce poles found in scattered and in clumps across stand. Nice mix of cover and openland.

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
80	3105 - Mixed Upland Herbaceous	8.1	N\A	Unspecified	Old managed opening with areas of high quality forage. Fir, spruce, aspen and cherry are filling in certain areas. Stand still about 95% open.
85	6220 - Alder/willow	10.6	No	Unspecified	

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
multiple - see	**SCA Removal**	32060_SCA	139.4	SCA Removal - does not meet old growth criteria.

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.