



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 53042

Entry Year 2017

Acreage: 1,745

County Otsego

Management Area: Pigeon River Country

Revision Date: 2015-06-05

Stand Examiner: Greg Rekowski

Legal Description:

T32N R01W Sections 31, 32, and 33

Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

The topography is flat to gently rolling. The only steep slopes are located in the northwest portion of Section 31. Upland soils are characterized primarily by Rubicon and Lindquist sands, with smaller amounts of Croswell and Chinwicker sands, and Blue Lake and Leelanau loamy sands. The lowland coniferous stands are primarily Tawas-Lupton mucks while the nonforested lowland shrub stand in the Black River corridor is an Ausable-Bowstring muck.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The Compartment is mostly in state ownership with the exception of private property in Sections 32 and 33 along the Black River. Private property also borders the south edge of Section 33 as well as the west and northwest part of Section 31.

There are two producing oil wells in this Compartment and gas and oil developments are also present south of the Compartment.

Unique Natural Features:

The Black River swamp is a large unbroken wild area with many wildlife benefits, and extends both north and south of this Compartment.

There have been documented occurrences of red-shouldered hawk within this Compartment.

Archeological, Historical, and Cultural Features:

None identified.

Special Management Designations or Considerations:

None identified.

Watershed and Fisheries Considerations:

The Black River, which passes through this Compartment, is widely known for its brook trout fishery. A river access site exists on the Black River at McKinnon's Bend.

Wildlife Habitat Considerations:

A Wildlife Division representative will be available to participate at the Open House and in the formal Compartment Review.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and minor coarse-textured glacial till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. An inactive gravel pit is located in Section 30 and potential is considered good on the upland areas. However, page 30 of the Concept of Management for the PRC says that extraction of surface minerals will rarely be allowed. This area was previously leased for Niagaran oil and gas development and production was found in Section 31. Additional Niagaran reefs may be located within the Compartment. The Antrim Shale is present and has potential. The closest Antrim production is adjacent to the southwest. However, the entire Compartment is in the Consent Order Area and, as provided on page 33 of the Concept of Management, no new leases will be issued in this Area.

Vehicle Access:

There is good vehicle access throughout this Compartment with the exception of the Black River swamp. Roads designated to be closed to wheeled motorized vehicles are still closed, with the exception of the powerline right-of-way on the north side of Section 31, which has a berm and gate in need of replacement.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

A river access site exists on the Black River at McKinnon's Bend.

Fire Protection:

Fire risk is moderate to high in upland stands of this Compartment, with Section 31 having the highest potential due to the large amount of jack pine. Access is good in the instance that fire suppression is needed.

Additional Compartment Information:

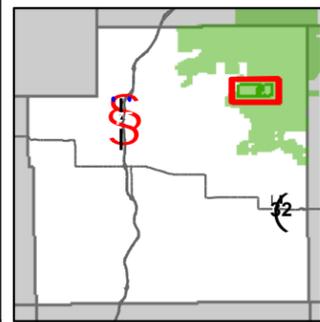
The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

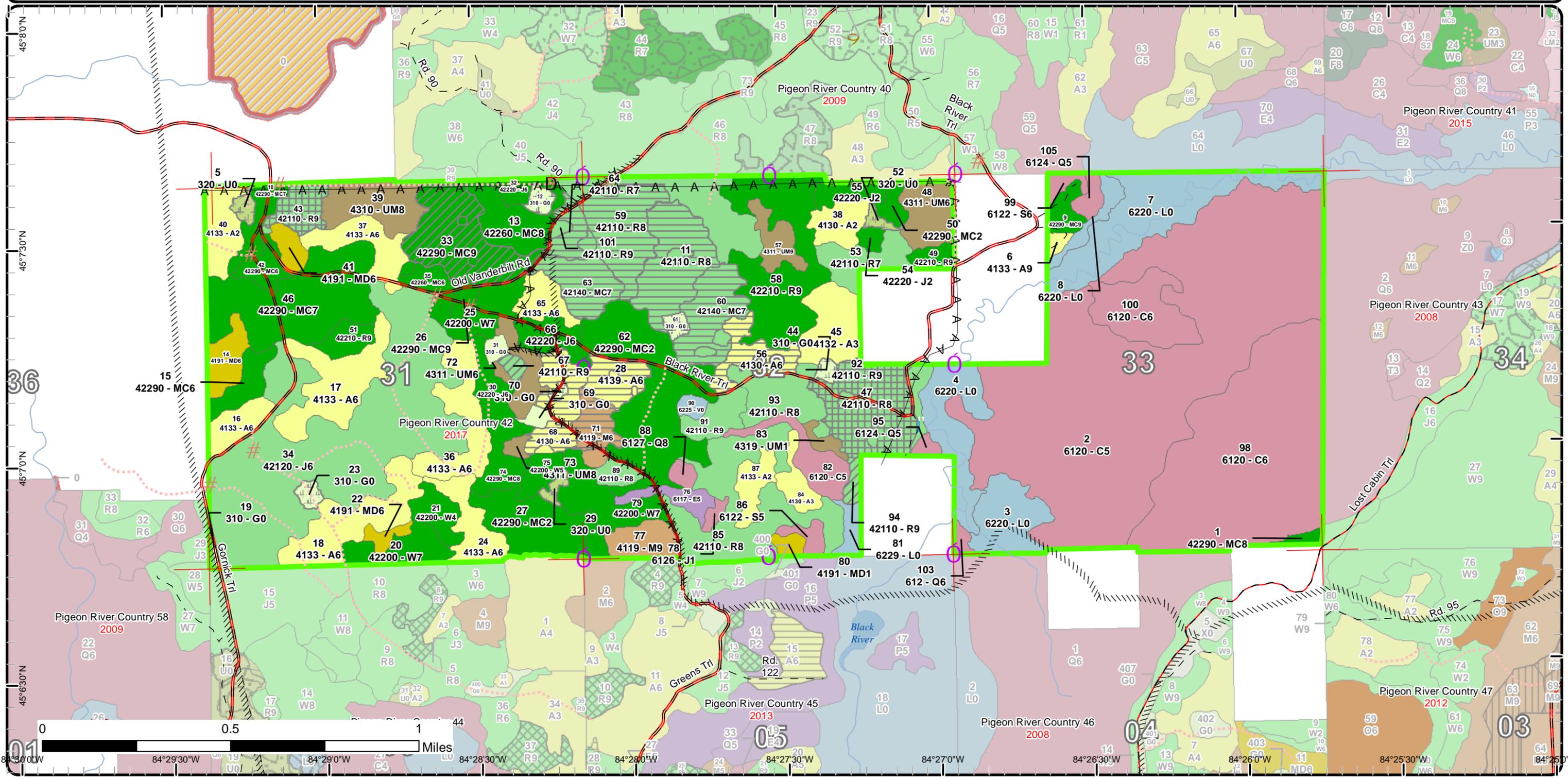
Cover Type & Treatments



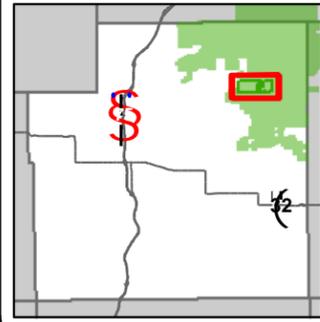
Compartment: 42
 T32N, R01W Sec. 31, 32, 33
 County: Otsego
 Unit: Pigeon River Country
 Mgmt Area: Pigeon River Country
 YOE: 2017
 Acres: 1745 GIS Calculated
 Examiner: Greg Rekowski
 Map Revised: 6/18/2015
 Map Phase: Pre-Review



- Remonumented Section Corners
- Miris Corners
- County Gravel Roads
- = Gravel Roads
- - Poor Dirt Roads
- - - County Poor Dirt Roads
- ⋯ Closed Roads
- D Gate
- # Berms
- Campground
- | Fishing Access Site
- Rivers
- Lakes
- ||||| Pipeline
- A—A Powerline
- Treatments
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Thinning (Crown, Low, Systematic)
- Seed Tree (w/Reserves)
- Forest Covertype
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub

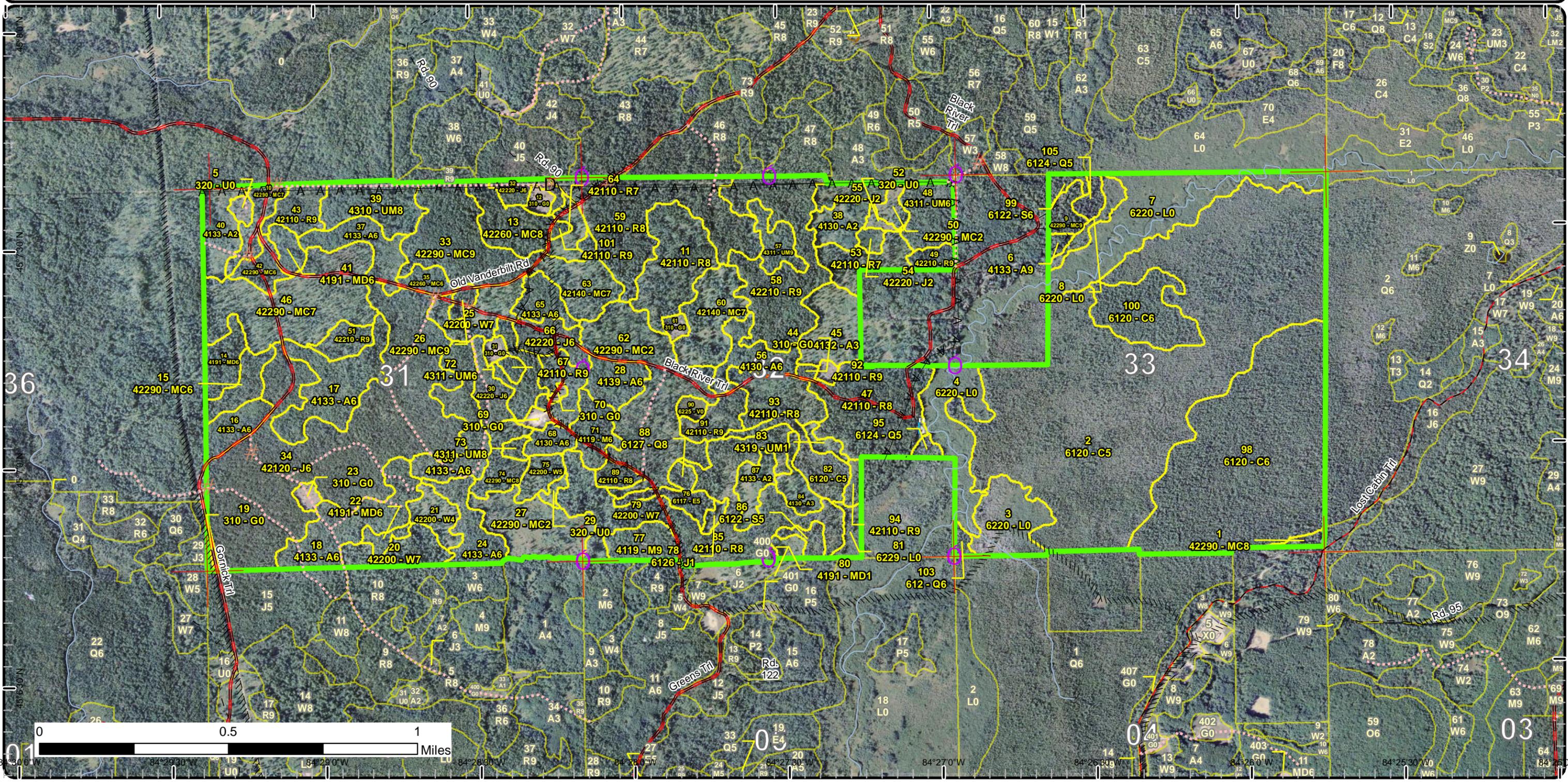


Stand Boundary Map



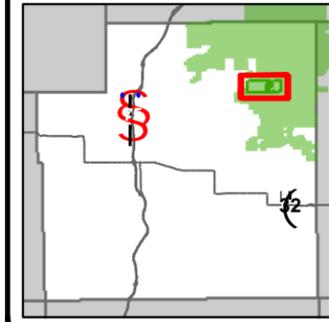
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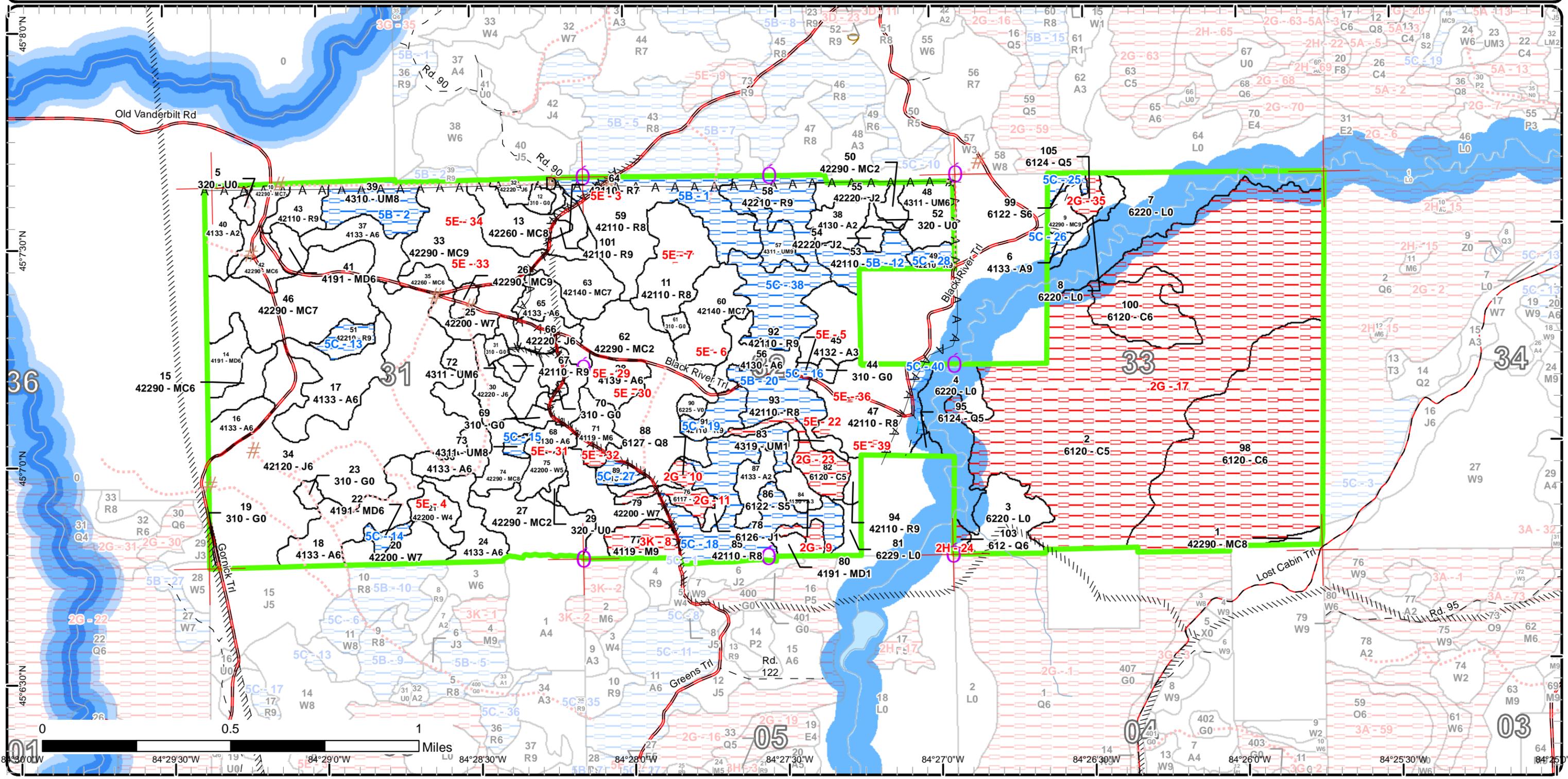
Special Conservation Areas & Site Conditions Map

Compartment: 42
 T32N, R01W Sec. 31, 32, 33
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- A—A Powerline
- Stand Boundaries
- Site Condition
- - Available w/ Constraints
- - Unavailable
- Available Factors W/ Constraints
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- Unavailable Factors
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3K: Rare or unique landforms
- 5E: Long-Term Retention
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	34	23	0	28	136	0	0	0	2	0	0	0	0	0	0	0	0	223
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Cedar	0	0	0	0	0	0	0	0	0	133	13	0	306	0	0	0	0	0	452
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	0	11	0	0	170	0	0	0	0	0	0	0	0	0	0	0	0	181
Lowland Conifers	0	0	0	0	0	0	2	0	4	3	0	0	2	0	0	0	0	0	11
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Shrub	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	105
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Mixed Upland Deciduous	0	0	3	0	5	0	0	0	10	3	0	0	0	0	0	0	0	0	21
Natural Mixed Pines	0	4	81	0	12	0	0	15	0	23	106	0	0	0	0	0	0	0	241
Northern Hardwood	0	0	0	0	0	0	0	0	11	11	0	0	0	0	0	0	0	0	22
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	39	0	0	0	0	0	0	0	0	39
Red Pine	0	0	0	0	0	0	0	0	6	277	10	0	0	0	0	0	0	0	293
Upland Mixed Forest	0	0	3	0	14	10	0	0	0	30	0	0	0	0	0	0	0	0	57
Upland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	7	9	27	20	0	0	0	0	0	0	0	0	0	63
Total	130	38	121	0	59	323	11	42	51	521	143	0	308	0	0	0	0	0	1747



Report 2 – Treatment Summary

Acres of Harvest

Commercial Harvest - 0
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 17

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	39	0	0	0	0	0	0	0	0	39
Natural Mixed Pines	0	0	0	0	0	34	0	0	0	34
Northern Hardwood	9	0	0	0	0	0	0	0	0	9
Planted Mixed Pines	37	0	0	0	0	0	0	0	0	37
Red Pine	60	0	0	42	0	5	0	0	0	107
Total	144	0	0	42	0	39	0	0	0	225

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	225	0	0	0	0	0	0	0	17	242
Next Step	0	96	130	0	0	0	187	0	0	413
Total	225	96	130	0	0	0	187	0	17	655



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	53042005-NF	2.6	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	53042011-Cut	27.4	42110 - Planted Red Pine	Sawtimber Medium	81	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription -Clearcut with retention. Cut all species, except leave any supercanopy white pine over 18" if present.

Specs: -Add 2" spec, chipping, and low stumps to facilitate post-harvest trenching and planting.

Next Step

SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable At least a medium-stocked stand dominated by planted red pine with a component of planted oak. Some natural regeneration of oak, red maple, aspen, jack pine, and white pine would be expected and is acceptable in the species mix.

Regen:

Other -Area retention has already been excluded from the treatment boundary. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

12	53042012-NF	2.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

23	53042023-NF	2.5	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
28	53042028-Cut	10.3	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Cut all species except retain all oak, cherry, and birch as well as all pine over 14" DBH. Mark to leave some of the poorer quality aspen from the largest size classes (target 1-3/acre). Many of these have large amounts of decay and will serve as good snags and down woody debris in the future.

Next Step
Treatments:

Acceptable At least a medium-stocked stand dominated by aspen.
Regen:

Other -Although rare, there are some oak saplings scattered throughout the stand, try to protect them. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

29	53042029-NF	1.8	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

33	53042033-Cut	33.5	42290 - Natural Mixed Pine	Sawtimber Well	94	141-170	Harvest	Crown Thinning	42260 - Natural Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription -Thin down to 110-120 sq ft per acre. Focus on removing the smallest red pine and white pine. Mark some of the lower quality oak and most of the red maple poletimber, however don't do a species removal of the red maple. Mark some of the aspen but leave most of it to naturally senesce. Go around the pure oak/aspen pockets of which there are only a few.

Next Step
Treatments:

Acceptable
Regen:

Other -Retention has been created around the two stick nests which were found. Add two more retention pockets around additional stick nests or areas of dense pine to maintain some structural diversity within the stand.
Comment: -Permit landings in only the powerline ROW to the north and if needed, on the south end of the stand where a small portion of stand 26 (MC9) is north of Vanderbilt Road. Do not build any new roads or landings within the interior of the stand being prescribed.
-No follow-up regen survey needed. Old next step comments:

Proposed Start Date: 10/1 /2016



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
43	53042043-Cut	9.1	42110 - Planted Red Pine	Sawtimber Well	94	111-140	Harvest	Seed Tree with Retention	42260 - Natural Pine, Mixed Deciduous	Two-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription Mark to leave 10-20 ba/acre of the best quality oak and red pine. Leave all white pine. A few steep slopes in the NE part of the stand may need to be excluded from the sale, count these areas as retention. Require whole-tree skidding in nonfrozen conditions to maximize ground scarification.

Next Step
Treatments:

Acceptable At least a medium-stocked stand dominated by red pine, white pine, and oak.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

44	53042044-NF	1.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

47	53042047-Cut	33.3	42110 - Planted Red Pine	Sawtimber Medium	81	81-110	Harvest	Seed Tree with Retention	4133 - Aspen, Mixed Pine	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Seed-tree harvest with varying levels of residual dependent on the understory aspen. In areas heavy to aspen, leave less than 10 ba/acre in red pine. In areas of predominantly red pine, leave 10-20 ba/acre in red pine. Mark to leave only the largest red pine, preferably those greater than 16" DBH. Leave all oak and any white pine.

Next Step Monitoring, Natural Regen (Intermediate); Planting, Replant
Treatments:

Acceptable At least a medium-stocked stand with a mix of aspen, white pine, red pine, red oak, and red maple being acceptable.
Regen:

Other -Utilize the 2" spec to mow down all the aspen and encourage new sprouts that are free to grow.
Comment: -Require whole-tree skidding in the late summer and fall to encourage pine regeneration.
-Desired retention areas have already been created in the Site Conditions layer.
-Notify neighbors when the sale has been sold.
-The area east of Black River Trail is being excluded this harvest and should be managed on a longer rotation due to its proximity to the river.
Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
52	53042052-NF	1.8	320 - Upland Shrub	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

56	53042056-Cut	13.1	4130 - Aspen	Poletimber Well	36	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut with no area retention due to the small size of the stand. Cut all species except do not cut oak and mark to leave some of the nicer red

Specs: pine poletimber (1-3/acre). Also, leave any black cherry over 4" DBH. Add 2" spec to knock down all red maple and white pine regen.

Next Step

Treatments:

Acceptable At least a medium-stocked stand dominated by aspen with any other mix of species being acceptable.

Regen:

Other Utilize the open area in the north-central part of the stand as a landing. There is primarily poor-quality open grown white pine in this area and is adjacent to the south end of stand 58. Old next step comments:

Proposed Start Date: 10/1 /2016

59	53042059-Cut	25.3	42110 - Planted Red Pine	Sawtimber Medium	82	51-80	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription -Cut all species except leave all oak and any white pine over 18" DBH.

Specs: -Require chipping and low stumps to facilitate follow-up trenching and planting.

-Add 2" spec to knock down any jack pine regeneration pockets.

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable At least a medium-stocked stand dominated by planted red pine with a component of planted oak. Some natural regeneration of oak, red maple, aspen, jack pine, and white pine would be expected and is acceptable in the species mix.

Regen:

Other -Retention area has already been excluded from harvest and is near the intersection of Old Vanderbilt Road and the powerline. Old next step comments:

Proposed Start Date: 10/1 /2016

60	53042060-Cut	19.8	42140 - Planted Mixed Pine	Sawtimber Poor	81	1-50	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Clearcut all species except for any incidental oak. Require chipping, low stumps, etc to facilitate trenching and planting.

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable At least a medium-stocked stand dominated by planted red pine with a component of planted oak. Some natural regeneration of oak, red maple, aspen, jack pine, and white pine would be expected and is acceptable in the species mix.

Regen:

Other -Protect the existing retention pocket from the previous harvest.

Comment: -There is a pocket of aspen regen along the SE side that should be excluded from the sale boundary. Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
61	53042061-NF	2.3	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

63	53042063-Cut	17.0	42140 - Planted Mixed Pine	Sawtimber Poor	81	1-50	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription -Clearcut with no area retention. Leave any oak or pine over 18" DBH, these individual trees will serve as retention.

Specs: -Add 2" spec, chipping, and low stumps to facilitate post-harvest trenching and planting.

Next Step

SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable At least a medium-stocked stand dominated by planted red pine with a component of planted oak. Some natural regeneration of oak, red maple, aspen, jack pine, and white pine would be expected and is acceptable in the species mix.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

64	53042064-Cut	6.8	42110 - Planted Red Pine	Sawtimber Poor	86	1-50	Harvest	Clearcut with Retention	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription -Clearcut all species with no area retention. Leave any oak or pine larger than 18" DBH. These individual trees will serve as retention.

Specs: -Add 2" spec, chipping, and low stumps to facilitate post-harvest trenching and planting.

Next Step

SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable At least a medium-stocked stand dominated by planted red pine with a component of planted oak. Some natural regeneration of oak, red maple, aspen, jack pine, and white pine would be expected and is acceptable in the species mix.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

67	53042067-Cut	2.1	42110 - Planted Red Pine	Sawtimber Well	84	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Thin down to 100-110 sq ft per acre. Remove smallest, poor-quality stems.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other No regen survey necessary b/c it is a thinning. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
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68	53042068-Cut	15.6	4130 - Aspen	Poletimber Well	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all species except do not cut oak, birch, cherry, and do not cut any pine over 14" DBH. Mark to leave scattered poor-quality aspen to serve as future snags and woody debris (target 1-3/acre).
Specs:

Next Step
Treatments:

Acceptable Any mix of species dominated by aspen.
Regen:

Other -Utilize the grass opening in the interior as the landing.
Comment: -Retention has already been excluded and is at the far southern end. Old next step comments:

Proposed Start Date: 10/1 /2016

70	53042070-NF	1.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition:

Prescription Mow, plant, brush, burn, or herbicide to maintain opening. Planting of hard or soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

71	53042071-Cut	9.1	4119 - Mixed Northern Hardwoods	Poletimber Well	70	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Two-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Cut all species except retain all oak, birch, and cherry as well as any pine over 14" DBH. Mark to leave some of the poorer quality aspen from the largest size classes (target 1-3/acre). Many of these have large amounts of decay and will serve as good snags and down woody debris in the future.
Specs:

Next Step
Treatments:

Acceptable At least a medium-stocked stand dominated by any combination of species.
Regen:

Other -Add oak wilt spec. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

94	53042094-Cut	3.0	42110 - Planted Red Pine	Sawtimber Well	81	111-140	Harvest	Crown Thinning	42250 - Pine, Oak	Even-Aged	Proposal
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Habitat Cut: No

Site Condition:

Prescription Crown thin down to 90 sq ft per acre. Mark some oak as well but only the poor quality, suppressed ones.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 242.3

Dominant Site Conditions

	2H	3K	5B	5C	5E
Aspen				2	1
Bog					
Cedar					
Herbaceous Openland					
Jack Pine			0		
Lowland Conifers	2				
Lowland Deciduous					
Lowland Shrub					
Lowland Spruce/Fir				3	
Mixed Upland Deciduous				3	
Natural Mixed Pines					1
Northern Hardwood		11			2
Planted Mixed Pines					1
Red Pine			54	125	5
Upland Mixed Forest			19	11	
Upland Shrub					
White Pine					0
Total Forested Acres	2	11	73	143	9
Relative Percent					

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of the stand has a lower BA and more jack pine regeneration.							
2	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3K: Rare or unique landforms	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	439	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: All of the stands within this site condition are very poor quality and lie on wet ground.							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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 Year of Entry: 2017

29	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
30	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stick nest buffer							
34	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stick nest buffer							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

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Compartment: 42

Greg Rekowski : Examiner

Year of Entry: 2017

38	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	54	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Manage this side of the road for bigger trees and a longer rotation due to its aesthetic value and proximity to the river.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42290 - Natural Mixed Pine	Sawtimber Medium	2.5	96	51-80	-Stand transitions to lowland along the edges. A lot of downed woody debris from decadent jack pine and spruce. Pocket of nice white pine poletimber close to the road. Average ba/acre = 75 sq ft/acre.
2	6120 - Lowland Cedar	Poletimber Medium	280.6	113	51-80	-A very poor-quality stand with much of the cedar in decline and close to death. Stand is borderline non-productive. Very dense understory of balsam and alder. Wet ground with sphagnum hummocks. Average ba/acre = 55 sq ft. -Old logging roads and skid trails are evident in this stand from the imagery. -This stand will never be available for management and there is no reason to visit it again. OPIC - FMD: 1997 STAND TO BE USED FOR WINTER DEER CUTS AS DICTATED BY WILDLIFE. 2004 USED 1997 DATA.
6	4133 - Aspen, Mixed Pine	Sawtimber Well	1.9	88	111-140	OPIC - FMD: 1997 WILL NEED TO GET PRIVATE PROPERTY ACCESS AGREEMENT. 2014 - Diverse stand with a wide mix of sizes. Average ba/acre = 137 sq ft.
9	42290 - Natural Mixed Pine	Sawtimber Well	5.9	68	81-110	-Various sizes of white and red pine in the stand. Some of the red pine appears to have been planted but no planting records found. Aspen is mostly at the southern end. Average ba/acre = 104 sq ft.-There is a small opening at the far north end that appears to be used quite heavily by hunters.
10	42290 - Natural Mixed Pine	Sawtimber Poor	8.6	85	1-50	-Stand was a part of Gornick Trail Red Pine, #53-013-08-01, bought by Biewer. All aspen and jack pine were removed and nothing else. Multiple sizes of white pine. South 1/2 is primarily white pine, north 1/2 primarily red pine. Jack pine regen limited to the NE portion of stand, east of Gornick Trail. Average ba/acre = 43 sq ft.
11	42110 - Planted Red Pine	Sawtimber Medium	28.7	81	51-80	-Stand cut as part of Greens Landing Road Block, #53-010-97-01, bought by Georgia Pacific. Summer whole-tree harvest. Patches of jack pine throughout, mostly in old skid trails and open areas with a lower overstory BA. Trace of red oak and jack pine in overstory, witch hazel in understory. Heavy browse on red maple. Average ba/acre = 55 sq ft.
13	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	16.0	94	51-80	-Looks like there used to be a decent amount of jack pine in the northern parts of this stand but most of it is dead now. Some slopes in the interior. Nice white pine understory. Trace of red oak. -Average basal area per acre = 75 sq ft.
14	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.0	72	81-110	-Somewhat unique stand in relation to the surrounding stands. Leave unmanaged for the time being. Trace of red oak, beech, and ironwood. Average ba/acre = 86 sq ft.
15	42290 - Natural Mixed Pine	Poletimber Well	9.2	61	81-110	-Wide mix of sizes in this stand, especially the white pine. Much of the jack pine, aspen, and birch has died and the dense white pine understory is taking over. Allow natural succession to white pine to continue. Average ba/acre = 104 sq ft.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4133 - Aspen, Mixed Pine	Poletimber Well	9.6	46	81-110	-A few pockets of pure white pine and jack pine poletimber. Trace of paper birch and balsam fir. Average ba/acre = 110 sq ft.
17	4133 - Aspen, Mixed Pine	Poletimber Well	27.5	43	81-110	-Needs ten more years of growth. Quaking aspen is poor quality but the bigtooth is showing decent growth. NE finger is where most of the red maple is located. Average ba/acre = 91 sq ft.
18	4133 - Aspen, Mixed Pine	Poletimber Well	27.3	44	81-110	Uneven distribution of aspen. Many areas are pure white pine poletimber. Some spots where the aspen doesn't appear too healthy. Trace of paper birch. A lot of small diameters in this stand, let it put on more growth before considering a treatment.
20	42200 - Natural White Pine	Sawtimber Poor	12.8	67	1-50	-Stand cut as part of McCourt's North and East timber sale, #53- 005-91-01, bought by Georgia Pacific. All aspen, red maple, and jack pine were removed. Previous stand examiner noted heavy browse on the aspen understory and that is still the case with most of it being dead. Red maple is also being heavily browsed. Previous harvest must have been a whole-tree harvest because there are some scattered pockets of jack pine regeneration. Red pine regeneration is present but rare. -Residual ba/acre from 4 plots = 45 sq ft per acre.
21	42200 - Natural White Pine	Poletimber Poor	8.7	56	1-50	-Stand cut as part of Gornick Trail Red Pine, #53-013-08-01, all aspen and jack pine were removed from the stand, nothing else. -Residual ba/acre = 20 sq ft. Varying sizes of white pine in the stand but the majority are in the poletimber size class. -Heavy browse on the aspen regeneration. Much of it appears to be dead.
22	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.3	82	81-110	-Fairly unique stand as compared to the surrounding pine dominated landscape. Trace of ironwood. -No treatment. Let this stand progress naturally.
24	4133 - Aspen, Mixed Pine	Poletimber Well	13.9	45	81-110	-Majority of stand is pole-size however there are scattered log- size RP, WP, RM, and A trees that were not cut in previous harvest giving it the appearance of a two-aged stand. Multiple sizes of white pine in the stand. -Trace of paper birch. -Heavy browse on red maple understory. -4 BA plots were taken with an average of 109 sq ft per acre. -Let this stand grow some more and consider management during the next entry period.
25	42200 - Natural White Pine	Sawtimber Poor	14.3	65	1-50	-Stand cut as part of Greco Roamin' Pine timber sale, 353-004- 08-01, bought by Pinney's Logging. Everything cut except for white pine, red oak, and green marked red pine. All new ingrowth is chiefly white pine and red maple, with a small amount of jack pine. Witch hazel and red maple stump sprouts being heavily browsed. -2013 regen survey - 383 WP TPA, 400 RM TPA, 233 QA TPA. Stand passed based on previous OI prescription comments. Did not notice any QA at time of field inventory. Elk browse likely. -Average ba/acre = 45 sq ft. -Accept regen as is and manage for white pine/mixed deciduous. Leave the residual overstory alone, do not cut.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	42290 - Natural Mixed Pine	Sawtimber Well	3.1	88	81-110	-Variable sizes of white pine. Looks like all aspen and red maple were removed at one point as they are quite small.-Trace of red oak at southern edge.-Average basal area per acre = 84 sq ft.
27	42290 - Natural Mixed Pine	Sapling Medium	25.4	17	Immature	-This stand was previously coded as an A3 but browsing has killed almost all of the aspen. The aspen that survived are heavily damaged. The remainder of the stand is primarily poor-quality, open grown jack pine and white pine. Red pine has seeded in a few areas but overall is a very minor component.
28	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.8	48	81-110	-The lack of oak and abundance of aspen is what separates this stand from the MD type stand to the south. Looks like a two-aged stand as there are scattered large aspen and red maple mixed in among the smaller poletimber. No cutting records found but appears that most red maple and aspen were removed at some point while some were left uncut for some reason. Clumps of white pine more common along the east edge. -6 basal area plots were taken with an average of 90 sq ft per acre.
30	42220 - Natural Jack Pine	Poletimber Well	9.1	45	51-80	1-2 stick jack pine. Needs another ten years of growth. Average ba/acre = 60 sq ft.
32	42220 - Natural Jack Pine	Poletimber Well	5.8	41	81-110	-There are some scattered larger-sized jack pine in the stand, mostly west of the opening. There is also a small depression (20'x20') west of the opening that was filled with water at time of inventory.
33	42290 - Natural Mixed Pine	Sawtimber Well	35.7	94	141-170	OPIC - FMD: 2005 HOLD FOR STRUCTURAL DIVERSITY. 2014 - Very high quality pine stand. Little evidence that any harvest activity has taken place in this stand. A few old cut stumps but it must have been a very light TSI cut. Almost appears natural, no planting records found. 2 stick nests were located in the stand along with an MNFI hit for RSH nest which was not found. Good habitat for goshawk. A few small pockets where oak and aspen are more common. One of the last remaining high density, closed canopy pine stands in the surrounding landscape. Average ba/acre = 170 sq ft.
34	42120 - Planted Jack Pine	Poletimber Well	144.1	45	81-110	-Wait another ten years to start breaking this stand up. Primarily 1 stick trees at present. Average ba/acre = 79 sq ft. Trace of red oak, black spruce, and balsam fir. -No planting records but from the imagery it appears it was planted. -Quite a few jack pine with broken tops, likely from the heavy snowstorm in the winter of 2012.
35	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	5.2	37	51-80	OPIC - FMD: 2005 BROKE THIS OUT FROM STAND 37, THE WHITE PINE IS MORE PREVALENT IN THIS STAND 2014- BTA mostly in the east half.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
36	4133 - Aspen, Mixed Pine	Poletimber Well	21.7	44	51-80	-Varying site quality. The north-south running part of the stand lies on a slight ridge and has more of the red maple and bigtooth aspen. The east-west running portion of the stand has more quaking aspen and is lower quality.-Trace of balsam fir.-Needs at least ten more years of growth.
37	4133 - Aspen, Mixed Pine	Poletimber Well	14.7	37	1-50	OPIC - FMD: 2005 THIS STAND IS JUST MOVING INTO THE POLE STAGE. 2014 - Poor quality quaking aspen and red maple, with much of the QA appearing close to death. The western half of the stand lies on a slight ridge and this is where most of the red oak poletimber is located. Decent natural pine regeneration.
38	4130 - Aspen	Sapling Medium	9.7	17	Immature	-Stand cut as part of Black River Trail Block, #53-004-97-01, AJD. A large portion of the aspen have severely damaged boles from past elk antler rubs. Some of these trees have splintered and fallen over. Elk browse looks like it limited some of the aspen regeneration as there are several open areas throughout the stand. Hypoxylon canker is also scattered throughout. Overall not a very healthy stand.
39	4310 - Pine, Oak Mix	Sawtimber Medium	19.1	89	51-80	OPIC - FMD: 1995 LEAVE 50-60 PERCENT CROWN COVER TO PROMOTE OAK. 2005 THIS STAND WILL PROBABLY BECOME A WHITE PINE STAND. THERE ARE SOME PATCHES OF W3 IN THE STAND. THE ASPEN AND HARDWOOD REPRODUCTION IS BEING BROWSED PRETTY HEAVILY. 2014 - Stand harvested as part of Powerline Blocks, #53-013-97-01. Oak overstory is more abundant in the west 1/2 of stand. Average ba/acre = 78 sq ft. Red maple being browsed hard. All aspen sprouts have been browsed to death.
40	4133 - Aspen, Mixed Pine	Sapling Medium	13.0	17	Immature	- Stand harvested as part of Powerline Blocks, #53-013-97-01. Browse has affected some areas but white pine is slowly filling in. The quaking aspen appears very unhealthy. Noticed quite a few dead stems. Hypoxylon canker is present but rare so not sure if that's the culprit.
41	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.4	37	81-110	OPIC - FMD: 2005 THIS STAND IS CONVERTING TO WHITE PINE NATURALLY. 2014 - Stand was harvested in 1978, looks like only aspen and red maple were removed. Nice representation of oak.
42	42290 - Natural Mixed Pine	Poletimber Well	7.1	39	81-110	OPIC - FMD: 2005 THIS STAND IS MOVING OUT OF THE SAPLING STAGE. 2014 - Average ba/acre = 104 sq ft. Variable sizes of white pine. Trace of red oak.
43	42110 - Planted Red Pine	Sawtimber Well	9.9	94	111-140	-Stand thinned as part of Powerline Blocks timber sale, #53-013-97-01. Averagea ba/acre = 129 sq ft. Trace of white pine. Nice red pine. Steep slopes.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4132 - Aspen, Jack Pine	Sapling Well	18.1	6	1-50	-Stand part of Twin Vulture II timber sale, #53-012-08-01, bought by Northern Timberlands. Summer whole-tree harvest. Jack pine has seeded in well. Browse damage to aspen is not too severe at this point. Trace of red pine regen. Average ba/acre of overstory red pine is roughly 15 sq ft.
46	42290 - Natural Mixed Pine	Sawtimber Poor	51.7	95	1-50	-Stand cut as part of Gornick Trail Red Pine, #53-013-08-01, bought by Biewer. Everything cut except for white pine, oak, and green marked red pine. Average ba/acre = 35 sq ft. Advanced white pine regeneration was left uncut. Red pine is seeding in a few areas (seedlings 6"-1' at time of inventory), heaviest on old skid trails and landing areas. Red maple stump sprouts are being browsed quite heavily. No planting records found but it is likely that the overstory trees were planted. -Evaluate regeneration at next inventory cycle to see if pine continues to fill in the stand. If inadequate, consider burning to promote a new flush of regen.
47	42110 - Planted Red Pine	Sawtimber Medium	40.2	81	81-110	-Stand cut as part of Dock Trespass Block, 353-003-97-01, bought by A.J.D. Everything was cut except for oak, red pine, and white pine. Aspen understory contains both QA and BTA and is not uniform throughout the stand, rather the highest densities seem to be in the central and north parts of the stand. A few of the aspen clumps are approaching 3-4" in diameter however the majority is still quite small. There is a small bog/wetland in the southern part of the stand. Average ba/acre = 90 sq ft.
48	4311 - Pine, Aspen Mix	Poletimber Well	14.5	35	51-80	-Variable stand. Almost appears as if past harvest removed only the aspen and nothing else. Jack pine mostly along the western edge of the stand. -Let the aspen grow more before considering a harvest.
49	42210 - Natural Red Pine	Sawtimber Well	4.7	78	111-140	-Mix of red pine sizes in this stand. Some of the smaller pine may have been planted but no records were found. Several large old burnt-out pine stumps throughout. Trace of paper birch. Average ba/acre = 134 sq ft. -Manage with the stand to the north when that is ready to be harvested. Retain the large XL-sized red and white pine when this stand is harvested in the future.
50	42290 - Natural Mixed Pine	Sapling Medium	4.0	6	1-50	-Stand cut as part of Twin Vulture II, #53-012-08-01, bought by Northern Timberlands. Everything cut except white pine, red oak, and green marked red pine. Whole-tree harvest in the summer. Jack pine has seeded in well, especially in the north half (avg height around 3.5 feet). SE corner of stand is mostly residual white pine and red pine. Residual ba/acre averages 25 sq ft. The aspen is being heavily browsed, not sure how much will survive.
51	42210 - Natural Red Pine	Sawtimber Well	6.7	89	81-110	-Stand cut as part of Gornick Trail Red Pine, #53-013-08-01, bought by Biewer. Red pine marked to cut, all jack pine and hardwoods were removed, and no white pine or oak were cut. Average ba/acre = 83 sq ft.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	42110 - Planted Red Pine	Sawtimber Poor	13.2	81	1-50	-Stand cut as part of Black River Trail Block, #53-004-97-01, bought by AJD. Nice understory of jack pine, most of which is free to grow. Red pine has seeded in a few areas but is mostly overtopped. Overstory average ba/acre = 38 sq ft. -Previous OI inventory had this stand coded as an A3 stand and lumped with the stands to the north. Very small amount of aspen in the stand.
54	42220 - Natural Jack Pine	Sapling Medium	2.5	17	Immature	-Stand cut as part of Black River Trail Block, #53-004-97-01, bought by AJD.
55	42220 - Natural Jack Pine	Sapling Medium	6.4	17	Immature	-Stand cut as part of Black River Trail Block, #53-004-97-01, bought by AJD. Jack pine seeded in very well throughout most of the stand. Most of the aspen has been browsed to death by elk. This stand was previously coded as an A3 stand and lumped together with the stand to the south. Red pine has seeded in a few areas but this regen is mostly overtopped. The overstory red pine become more frequent as you most west in the stand.
56	4130 - Aspen	Poletimber Well	13.1	36	81-110	-Clearcut in 1976 by Champion. The bigtooth is showing excellent growth but the quaking is only moderate quality and showing a few signs of decline. The central part of the stand is more open and contains primarily red pine and open-grown white pine. Trace of red oak.
57	4311 - Pine, Aspen Mix	Sawtimber Well	8.8	82	111-140	-Similar to the surrounding stand, this stand has some planted red pine in it as well as natural red pine. Trace of red oak, paper birch, witch hazel, and hawthorn. Average ba/acre = 125 sq ft. -Consider leaving this stand as well as stand 58 unmanaged as they will be the only pine stands that haven't been managed in the compartment.
58	42210 - Natural Red Pine	Sawtimber Well	45.3	82	111-140	-Planting records indicate that red pine and jack pine were planted in this stand in 1933. However, there is an older age class of natural red pine which is about 1/2 of the overall red pine basal area. Most of these trees are in the XL size class and easily distinguishable from the other red pine. Cored two larger XL red pine trees; a 19" tree was 104 years old and a 21" was 108 years old. For the most part this stand appears "natural." In some spots the planted red pine are small and overtopped because of the larger natural red pine. Trace of spruce, paper birch, and red oak. Large fire scarred stumps are present throughout. Average ba/acre = 123 sq ft. -Consider leaving this stand as well as stand 57 unmanaged as they will be the only pine stands that haven't been managed in the compartment.
59	42110 - Planted Red Pine	Sawtimber Medium	50.8	82	51-80	-Stand cut as part of the The Wave Jack Pine timber sale, #53-016-91-01, bought by Georgia Pacific. All species except oak, red pine, and white pine were cut. Majority of species removed were jack pine and aspen. Sale notes that jack pine in the area was hit hard by jack pine budworm. -Pockets of jack pine regeneration throughout. The BA is a bit less in the eastern half of the stand and jack pine regeneration is more abundant here than in the west half. -XL size natural red pine are scattered throughout but rare. -Average ba/acre = 71 sq ft.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	42140 - Planted Mixed Pine	Sawtimber Poor	21.6	81	1-50	-Stand cut as part of Twin Vulture II, #53-012-08-01, bought by Northern Timberlands. Everything cut in stand except for white pine, red pine, or oak. Whole-tree summer harvest. Jack pine has seeded in well in the skid trails and more open areas although it is often overtopped by red maple or aspen. Browse damage on the aspen and maple is heavy in places. Patchy distribution of the overstory pine due to the species removal harvest. Thick grass and sedge component due to heavy ungulate use. Average ba/acre = 32 sq ft. -Natural regen survey in 2013. Stand passed based on OI Rx comments. Results - JP 800 TPA, RM 1800 TPA, QA 217 TPA.
62	42290 - Natural Mixed Pine	Sapling Medium	55.6	17	1-50	-Stand cut as part of Green's Landing Road Block, #53-010-97-01, Georgia Pacific. All trees cut except for red pine, white pine, oak, and some scattered seed-tree jack pine. Jack pine regen heaviest on skid trails and landing areas, not as prevalent in the areas that weren't scarified as much. A lot of dead aspen stems from browse. Red maple is also being heavily browsed. Scattered pockets of R8 throughout. Trace of red oak and white pine in the overstory. Average ba/acre of residual RP and JP = 22 sq ft per acre.
63	42140 - Planted Mixed Pine	Sawtimber Poor	17.1	81	1-50	-Stand cut as part of Greco Roamin' Pine, #53-004-08-01, Pinney's Logging. Everything cut except for white pine, oak, and green-marked red pine. Average ba/acre = 38 sq ft. -2013 regen survey - RP 0 TPA, WP 625 TPA, RM 675 TPA, QA 100 TPA. Stand failed acceptable regen standards but was accepted as is at a 2013 PRC regen meeting.
64	42110 - Planted Red Pine	Sawtimber Poor	6.8	86	1-50	-Stand cut as part of Greco Roamin' Pine, #53-004-08-01, Pinney's Logging, everything cut except for red pine and white pine. Mostly jack pine, aspen, and red maple were removed. Average ba/acre = 32 sq ft. -2013 regen survey - 33 JP TPA, 1000 WP TPA, 133 BC TPA, 800 RM TPA, 133 QA TPA. Stand passed regen standards based on OI prescription comments. -Current regeneration is not very desirable. Heavy browse on the red maple and aspen, with most of the aspen appearing to be dead. Majority of RM regen in the south half of stand. Burn or scarify to try and get more red pine to seed in.
65	4133 - Aspen, Mixed Pine	Poletimber Well	8.7	46	81-110	Needs at least another ten years of growth. Average ba/acre = 90 sq ft. An old road runs north-south in the eastern part of the stand.
66	42220 - Natural Jack Pine	Poletimber Well	10.7	45	81-110	-Developing nicely. -Small pocket of mature red, white, and jack pine at the southeast corner of stand.
67	42110 - Planted Red Pine	Sawtimber Well	2.1	84	141-170	-Some of the red pine appears to be in rows but difficult to tell. No planting records were found. High quality pine in this stand. Average ba/acre = 147 sq ft.
68	4130 - Aspen	Poletimber Well	16.2	47	51-80	-Varying timber quality throughout the stand. Portion of stand south of gas well has most of the red maple, white pine, and bigtooth aspen and quality is generally better. Portion of stand north-northeast of the gas well has very poor quality quaking aspen and some of it appears to be dying. -Red maple understory is heavily browsed.-8 basal area plots were taken with an average of 74 sq ft per acre.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	4119 - Mixed Northern Hardwoods	Poletimber Well	10.8	70	51-80	-A lot of poor quality red maple poletimber with scattered larger trees. Not a hardwood site, habitat type PArVHa. Aspen and jack pine are more frequent along the western edge and are starting to decline. Moderate quality oak, the presence of which makes this stand somewhat unique in relation to the surrounding pine-dominated landscape. Some of the oak are massive, measured one at 33" DBH. Bigtooth aspen mostly confined to a clump south of Green's Landing Trail. Average ba/acre = 73 sq ft.
72	4311 - Pine, Aspen Mix	Poletimber Well	10.2	48	81-110	-Variable stand. Appears that the majority of red maple and aspen were removed at one time. Some areas of very small diameters, especially in the north end. Clump of larger aspen and red maple near the southern well pad with a small pocket of mature red pine near the southeast edge. Trace of red oak and paper birch. -6 basal area plots were taken with an average of 80 sq ft per acre. -Poor quality red maple and aspen. Let this stand put on more growth before considering a treatment.
73	4311 - Pine, Aspen Mix	Sawtimber Medium	1.9	85	51-80	-Poor quality aspen and red maple. Likely a two-aged stand, the aspen and red maple seem to be much younger. Leave unmanaged for now and let the white pine develop. -Average ba/acre = 60 sq ft.
74	42290 - Natural Mixed Pine	Sawtimber Medium	10.8	85	51-80	-Stand cut as part of Twin Vulture Red Pine timber sale, #53-009-07-01, bought by Precision. Everything was cut in stand except for oak, white pine, and leave-tree red pine. Pockets of advanced white pine regeneration were protected and are common throughout the stand. Red maple regeneration is being heavily browsed. -Regen survey completed in 2013 resulted in a failure but MO change was accepted at PRC regen meeting. -Residual stems are high quality with some very large white pine scattered throughout. Residual ba/acre = 67 sq ft. -Accept stand as is and manage for white pine/mixed deciduous. Leave the residual overstory alone until the regeneration develops to a merchantable size.
75	42200 - Natural White Pine	Poletimber Medium	6.5	49	51-80	-Stand cut as part of Twin Vulture Red Pine timber sale, #53-009-07-01, bought by Precision. Everything was cut in this stand except for red pine, white pine, and oak. Previous stand had an irregular distribution of jack pine so the resulting stand is quite variable in stocking density. Most of the advanced white pine regeneration was protected from damage so there are several different size classes of white pine. One clump of dense pine in the eastern half of the stand but the remainder is much more open.
76	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.6	90	51-80	The E-SE part of the stand has a small inclusion of upland maple and aspen, the remainder of the stand is a very wet drainage.
77	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.7	87	111-140	Diverse stand that is very unique in relation to the surrounding landscape. Most of the hemlock have dead tops due to porcupines and are barely hanging on, several of them have already died. Average ba/acre = 137 sq ft. Leave this stand unmanaged.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	6126 - Lowland Jack Pine	Sapling Poor	2.1	16	Immature	A wet bog-like stand that is filling in with jack pine and white pine around the edges. Sedges and shrub willow constitute the understory and dominate the open areas, did not notice much shagnum. A few upland hummocks with large white pine growing on them.
79	42200 - Natural White Pine	Sawtimber Poor	20.4	78	1-50	-Stand was cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. Everything was cut except for red pine, white pine, oak, and hemlock. Residual white pine are highly variable in size and don't appear to have been planted although the red pine was likely planted. Heavy browse on the maple and aspen regeneration, with many of the aspen stems appearing dead. Sedge is thick in areas where ungulate use is heavy. Average ba/acre = 46 sq ft. Trace of hemlock and red oak. -Previous examiner updated this stand as an A3 in OIPC following harvest completion.
80	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	3.0	11	Immature	-Stand cut as part of Green's Landing Aspen, #53-016-03-01, bought by Tulgestka. Clearcut consisting of mostly red maple, aspen, red pine, and spruce. Regeneration is poorly stocked, many areas with little to no regen. Scattered lowland pockets throughout. At this point a toss-up between a forested stand or a non-forested shrub stand.
82	6120 - Lowland Cedar	Poletimber Medium	13.1	90	81-110	-Poor quality, wet stand. Thin finger of the stand is a drainage with mostly red maple with pine on the perimeter. The main body of the stand is dominated by cedar. Quite a bit of blowdown with some of the cedar showing signs of decline. Average ba/acre = 99 sq ft.
83	4319 - Mixed Upland Forest	Sapling Poor	3.0	17	Immature	-Stand was cut as part of Dock Trespass Block, #53-003-97-01, bought by AJD. Everything removed except for red pine. Stand is slowly filling in with conifers.
84	4130 - Aspen	Sapling Well	7.1	7	Immature	-Stand cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. Everything cut in stand except for oak, white pine, and red pine. Residual overstory ba/acre = roughly 10 sq ft. Nice looking aspen regeneration with little browse impacts except for the north finger of the stand.
85	42110 - Planted Red Pine	Sawtimber Medium	48.5	81	51-80	-Stand cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. White pine in the stand is natural not planted. Some of the XL sized red pine appear natural as well. Trace of hemlock. Average ba/acre = 79 sq ft. -Most of the red maple and aspen understory is in the south 1/2 of the stand, closer to Greens Landing Trail. Most of the white pine understory is in the north 1/2 of the stand. A few pockets of low ground. -Scattered mortality of red pine throughout the stand that looks like it occurred sometime shortly after the harvest. Didn't notice any flagging or other symptoms that would indicate ongoing mortality. -Let grow another ten years.
86	6122 - Black Spruce	Poletimber Medium	4.1	91	51-80	-Bog-like stand. Upland around the edges. Dense understory of lowland shrubs in places. Most of the QA is in the west-running finger of the stand. Average ba/acre = 80 sq ft.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	4133 - Aspen, Mixed Pine	Sapling Medium	8.6	7	Immature	-Stand cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. Everything cut except for oak, white pine, and red pine. Residual ba ranges from 0-30 sq ft. A few scattered red maple poles that weren't cut. Rolling terrain. Heavy browse on the maple and aspen regeneration. Not sure how much of the aspen will survive. Next inventory cycle this will likely be a maple-white pine stand.
88	6127 - Lowland Pine	Sawtimber Medium	2.7	85	51-80	Upland around the edges. Trace of white spruce and paper birch.
89	42110 - Planted Red Pine	Sawtimber Medium	4.2	81	51-80	-Stand was part of Green's Landing Road Block, #53-010-97-01, Georgia Pacific. All jack pine, aspen, and maple were cut. -Average ba/acre = 75 sq ft.
91	42110 - Planted Red Pine	Sawtimber Well	9.4	81	81-110	-Stand cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. Everything cut except for red pine, white pine, and oak. There is a small bog at the SW corner of the stand. There is a small component of natural red pine, most of which are XL-sized. Red maple regeneration increases as you move north in the stand, not as abundant in the south part. Average ba/acre = 103 sq ft. -2013 regen survey - RM 1200 TPA, QA 140 TPA, WP 140 TPA, JP 240 TPA. Stand did not pass regen standards (RP MO) but was accepted as is at a 2013 PRC regen meeting. -Allow the red pine to mature and consider a treatment in ten years. A prescribed burn should also be considered here to help reduce the red maple understory.
92	42110 - Planted Red Pine	Sawtimber Well	1.3	81	141-170	-Stand cut as part of Twin Vulture II timber sale, #53-012-08-01, bought by Northern Timberlands. All jack pine was removed from the stand. Thin in ten years. Avg ba/acre = 167 sq ft.
93	42110 - Planted Red Pine	Sawtimber Medium	16.6	81	51-80	-Stand cut as part of Twin Vulture Red Pine, #53-009-07-01, bought by Precision. Everything cut except for white pine, oak, and leave-tree marked red pine. There are some XL-sized natural red pine in the stand. Trace of red oak. Average ba/acre = 80 sq ft. -2013 regen survey - 1016 RM TPA, 417 A TPA, 67 WP TPA, 33 JP TPA. Regen results indicate a failure based on OI Rx which noted a RP management objective for the stand. Regen was accepted as is at a 2013 PRC regen meeting. -At the next inventory cycle, consider burning to set back the red maple.
94	42110 - Planted Red Pine	Sawtimber Well	3.0	81	111-140	-Nice red pine stand that has been thinned before. Understory is mostly bracken fern, blueberry, and winter green with only minor amounts of red maple regen. Average ba/acre = 130 sq ft. Treat with the stand to the north.
95	6124 - Lowland Spruce-Fir	Poletimber Medium	2.2	55	51-80	Scattered pockets of upland intermixed with lowland. Lowland areas are dense with alder and blowdown and also appeared to have black ash at one time. Variable sizes of spruce and maple. Average ba/acre = 60 sq ft. Do not manage.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
98	6120 - Lowland Cedar	Poletimber Well	133.4	88	81-110	<p>-Overall this is a wet stand with limited commercial opportunities. The spruce and tamarack is of decent quality but the cedar is poor quality with some showing decline. Stocking is not uniform as throughout the stand there are scattered pockets of nearly pure alder with little to no tree growth in them. Ground cover is sphagnum hummocks with scattered Labrador Tea and sedge. Red-osier dogwood is present as well but all are below 3 feet in height and heavily browsed. Average ba/acre = 90 sq ft.</p> <p>-No commercial management recommended.</p> <p>- FMD: 1997 STAND TO BE USED FOR WINTER DEER CUTS AS DICTATED BY WILDLIFE. 2004 USED 1997 DATA.</p>
99	6122 - Black Spruce	Poletimber Well	3.0	90	81-110	<p>Nice quality spruce with the exception of the SW corner where it becomes wetter and the stocking declines. Aspen along with a trace of red maple and paper birch along the far eastern edge of the stand. Snow on the ground at time of inventory but sphagnum appears to be the dominant ground cover. Average ba/acre = 107 sq ft.</p>
100	6120 - Lowland Cedar	Poletimber Well	25.1	113	81-110	<p>-From the imagery this stand appears to be of better quality than the surrounding stand 2. Probably similar in quality and composition to stand 98. No management possible even if it is good quality.</p>
101	42110 - Planted Red Pine	Sawtimber Well	1.2	79	171-200	
103	612 - Lowland Coniferous Forest	Poletimber Well	2.1	113	81-110	<p>Unable to reach this stand. From imagery, the northern half of this stand appears to be upland.</p>
105	6124 - Lowland Spruce-Fir	Poletimber Medium	4.0	73	51-80	<p>-Very wet, poor quality stand. Black ash used to be a large component but it is now all dead. Balsam fir is filling in the stand. Average ba/acre = 62 sq ft.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6220 - Alder/willow	20.9	No	The western half of this stand used to be forested but is now dead and dying timber. Old pipeline ROW travels through the stand, visible from aerial imagery. A small tributary to the Black River flows through the SW portion of the stand.
4	6220 - Alder/willow	25.4	No	There is a small public access point (McKinnon's Bend) to the Black River which flows through this stand.
5	320 - Upland Shrub	2.6	No	
7	6220 - Alder/willow	47.1	No	Only visited the edges of this stand but it appears to be almost pure alder. Black River flows through the stand.
8	6220 - Alder/willow	6.2	No	OPIC - FMD: 2005 THIS STAND IS ALMOST 100% BLACK AASH 2014- All of the black ash is now dead, making this stand mostly nonforested. Average ba/acre = 5 sq ft for the remaining fir, spruce, pine, and cedar.
12	310 - Herbaceous Openland	2.8	No	
19	310 - Herbaceous Openland	0.9	No	Pipeline ROW. Gornick Trail also runs through the middle.
23	310 - Herbaceous Openland	2.5	No	
29	320 - Upland Shrub	1.8	No	White pine is filling in around the perimeter.
31	310 - Herbaceous Openland	2.3	No	Active Merit Energy well pad.
44	310 - Herbaceous Openland	1.8	No	
52	320 - Upland Shrub	1.8	No	
61	310 - Herbaceous Openland	2.3	No	
69	310 - Herbaceous Openland	2.4	No	Active well pad
70	310 - Herbaceous Openland	1.1	No	
81	6229 - Mixed lowland shrub	5.0	No	-Black ash component is dead from EAB. A few small clumps of trees scattered throughout but this is primarily a stand of thick alder.



Stand	Cover Type	Acres	Managed Site	General Comments:
90	6225 - Bog	2.6	No	