



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32065

Entry Year 2019

Acreage: 1,288

County Marquette

Management Area: Ralph Ground Moraine

Revision Date: 2017-08-01

Stand Examiner: Ben Travis

Legal Description:

T43N, R25W, Sections 4,5,6, and 9

Identified Planning Goals:

Manage for sustained timber production, improved wildlife habitat, and dispersed forest recreation.

Soil and topography:

Flat to gently rolling uplands interspersed with poorly drained lowlands.

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

Compartment is adjacent to large blocks of state ownership along the north, east, and south sides. Small private holdings are adjacent along the west edge. Several seasonal camps use the compartment roads for access.

Unique Natural Features:

Escanaba River corridor.

Archeological, Historical, and Cultural Features:

No occurrences found in the MNFI and Archeology Concerns Database.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Compartment 065 is found within the Ralph Ground Moraine Management Area; on Ground Moraines in northern Dickinson and southern Marquette Counties. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and dry mesic northern forest. Major forest cover types include Aspen, Northern Hardwoods, and Mixed Lowland Conifers. Almost every cover type and associated species can be found within the management area including several deer wintering complexes. This management area provides some of the finest grouse and woodcock hunting in the Midwest and this is a wildlife management priority that will continue. Wildlife management issues in the management area are: early successional forest conditions (associated with alder, riparian zones, or forested wetlands); mast (hard and soft); habitat fragmentation; mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris; and deer wintering complexes.

The following have been identified as featured species for Ralph Ground Moraine Management Area: American woodcock, black bear, Northern goshawk, ruffed grouse, and whitetail deer.

Mineral Resource and Development Concerns and/or Restrictions

Sections 3-6 & 8-9, T43N R25W and Section 33, T44N R25W, Marquette County
Sand/gravel pits are not located in the area, but there may be some sand and gravel potential within the compartment. There may be some potential for production of crushed stone within the compartment sourced from the bedrock formations. There has been no past metallic mineral production in this area, but there has been recent leasing within one mile of the compartment. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road 557 is plowed, paved county road which separates the compartment into west and east blocks. DeShambo road is a forest access route which provides seasonal access to the east block. Access to the immediate west side of County Road 557 is provided by forest access route. The far western portion of compartment is isolated by streams, private property, and wetlands. Seasonal County Road SW provides access to the southeast portion of compartment.

Survey Needs:

Several new survey monuments will be needed in future.

Recreational Facilities and Opportunities:

Access to Escanaba river provided at many spots. State snowmobile trail passes through compartment along the west side of County Road 557 and County Road SW.. Hunting, fishing, trapping, snowmobiling, and ORV riding are important forest recreation uses.

Fire Protection:

More sandy soils in uplands which could moderately increase likelihood of fires.

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**

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

Compartment 65

Year of Entry 2019

Ben Travis : Examiner

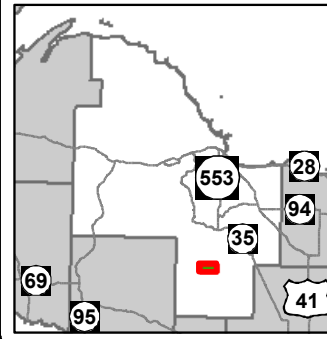


Age Class

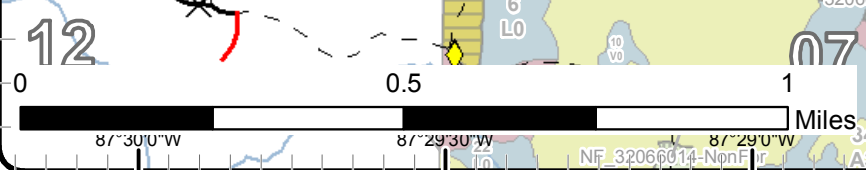
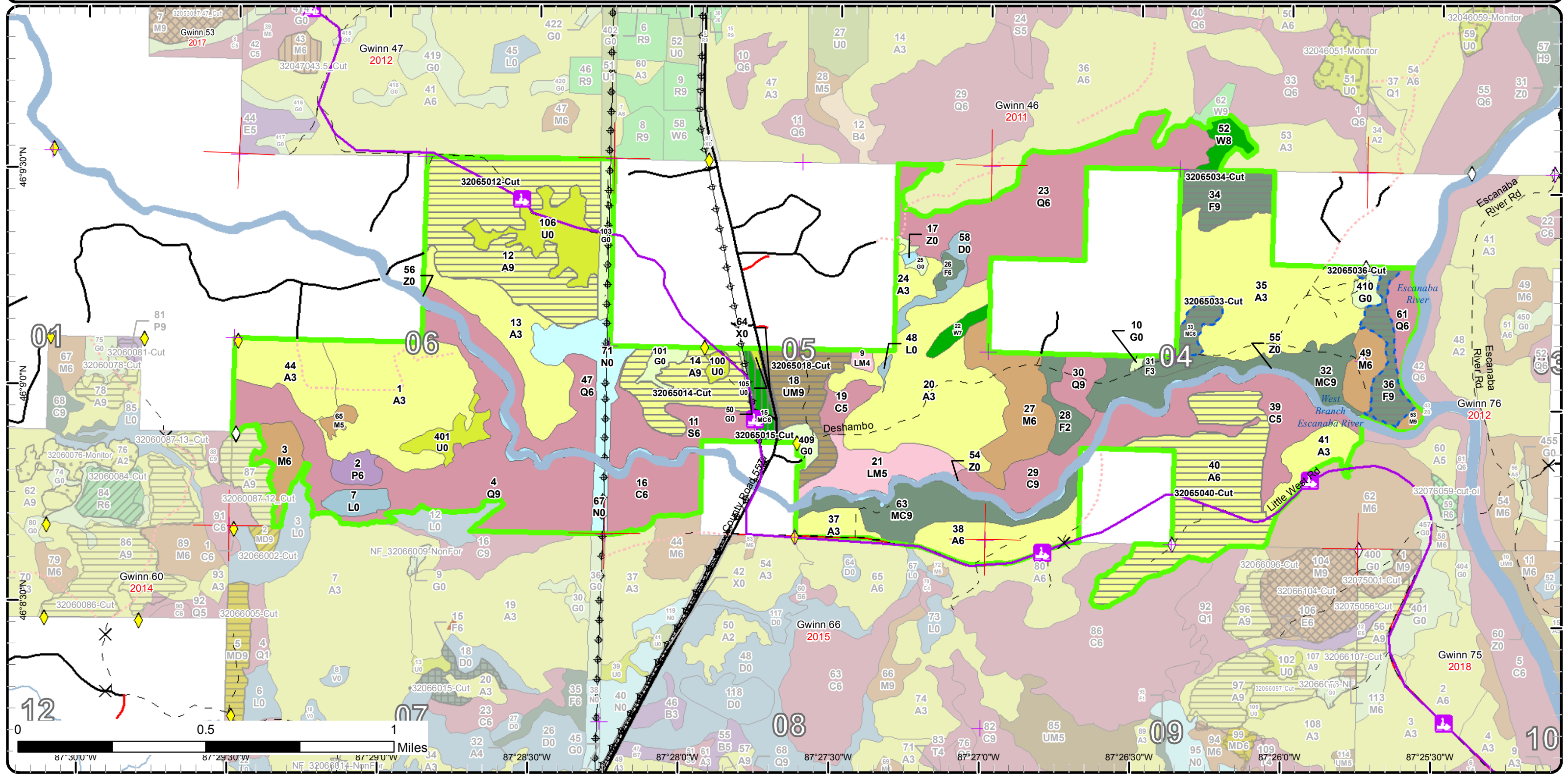
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	173	141	26	7	0	76	113	0	0	0	0	0	0	0	0	0	0	535
Cedar	0	0	0	0	0	0	0	0	0	8	42	25	19	0	0	0	0	0	94
Herbaceous Openland	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Low-Density Trees	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	38	86	99	0	0	0	0	10	233
Lowland Mixed Forest	0	0	0	0	0	0	2	0	0	22	0	0	0	0	0	0	0	0	24
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	26
Marsh	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	60
Treed Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Upland Conifers	0	0	0	0	0	0	0	33	7	0	31	0	0	0	0	0	0	0	71
Upland Mixed Forest	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Upland Spruce/Fir	0	0	0	15	0	0	0	0	15	23	0	0	0	0	0	0	0	0	53
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	0	0	0	5	8	0	0	0	0	0	0	13
Total	143	173	141	41	7	6	104	146	54	53	116	119	118	0	0	0	0	70	1290

Cover Type & Treatments Map

Compartment: 65
 T43N, R25W, Sec: 04, 05, 06
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
 Acres: 1288.4 GIS Calculated
 Examiner: Ben Travis
 Map Revised: 1/11/2018
 Map Phase: Post-Review

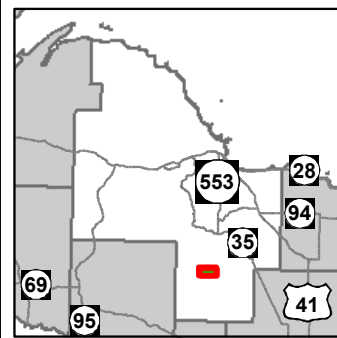


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|--------------------------------|-----------------------------------|-----------------------------------|
| — Miris Corners | — Closed | ■ 612 - Lowland Coniferous Forest |
| — Remonumented Section Corners | — Streams | ■ 613 - Lowland Mixed Forest |
| ◆ Survey Grade GPS Corners | — Lakes and Rivers All | ■ 122 - Roads/Parking Lot |
| ◇ Field Grade GPS Corners | — Pipeline | ■ 310 - Herbaceous Openland |
| — Counties | — Powerline | ■ 330 - Low Density Trees |
| ✕ Gate | — Compartment Boundary | ■ 500 - Water |
| ▲ Berms | — Treatments with Site Conditions | ■ 622 - Lowland Shrub |
| — Snowmobile Trails | — Clearcut (w/Reserves) | ■ 623 - Emergent Wetland |
| — Designated Snowmobile Trails | — Shelter Wood (w/Reserves) | ■ Lakes |
| — County Paved Roads | ■ 411 - Northern Hardwood | |
| — County Poor Dirt Roads | ■ 413 - Aspen Types | |
| — Poor Dirt Roads | ■ 422 - Natural Pines | |
| | ■ 423 - Other Upland Conifers | |
| | ■ 430 - Upland Mixed Forest | |
| | ■ 611 - Lowland Deciduous Forest | |

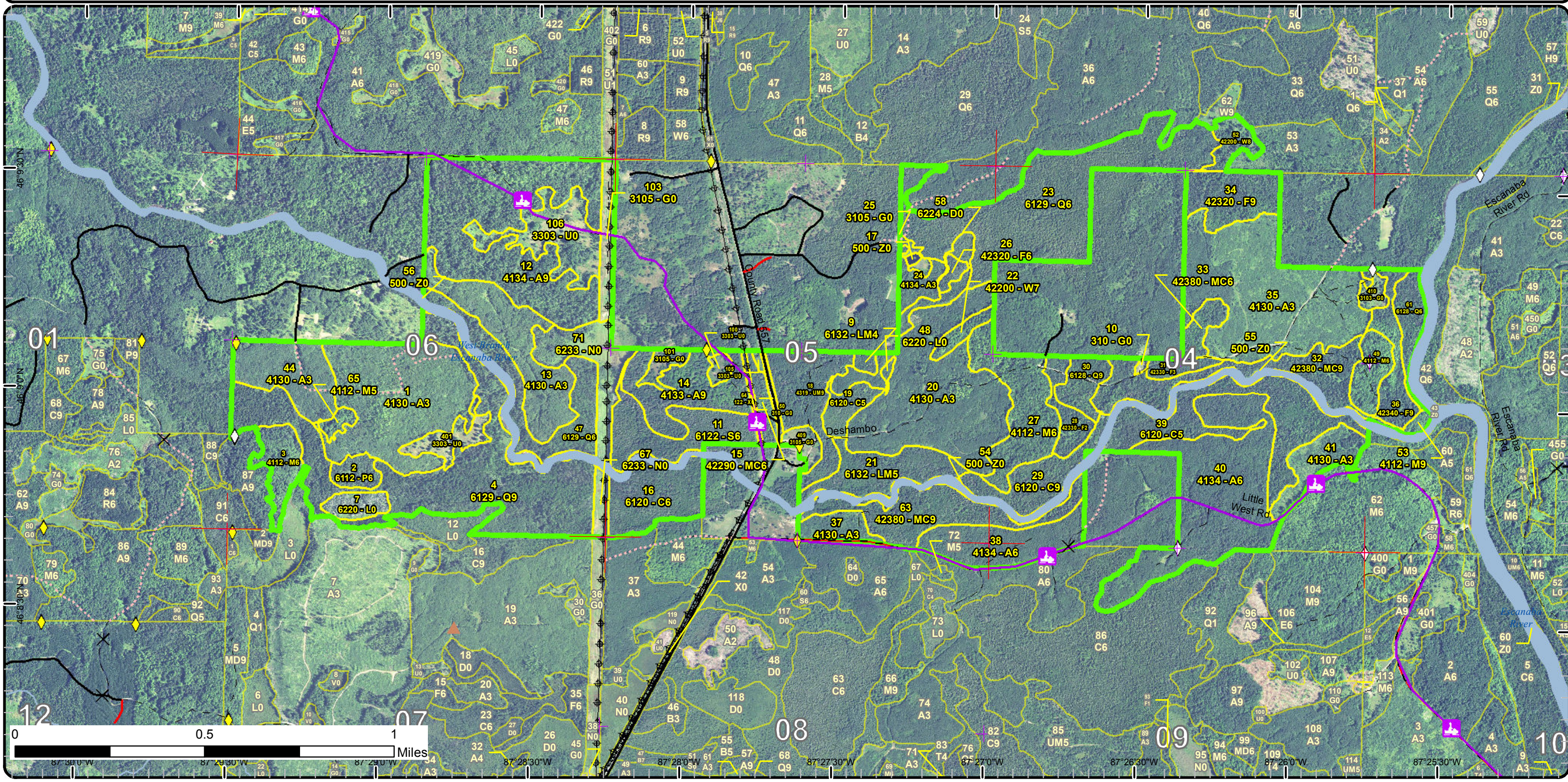


Stand Boundary Map

Compartment: 65
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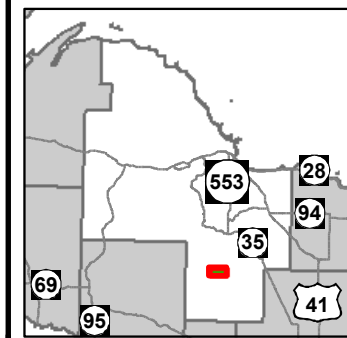


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- ▲ Berms
- Snowmobile Trails
- Designated Snowmobile Trails
- County Paved Roads
- Paved Roads
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- - Poor Dirt Roads
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- Stand Boundaries
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- 423 - Other Upland Conifers
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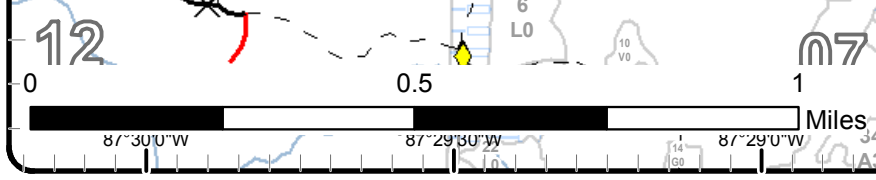
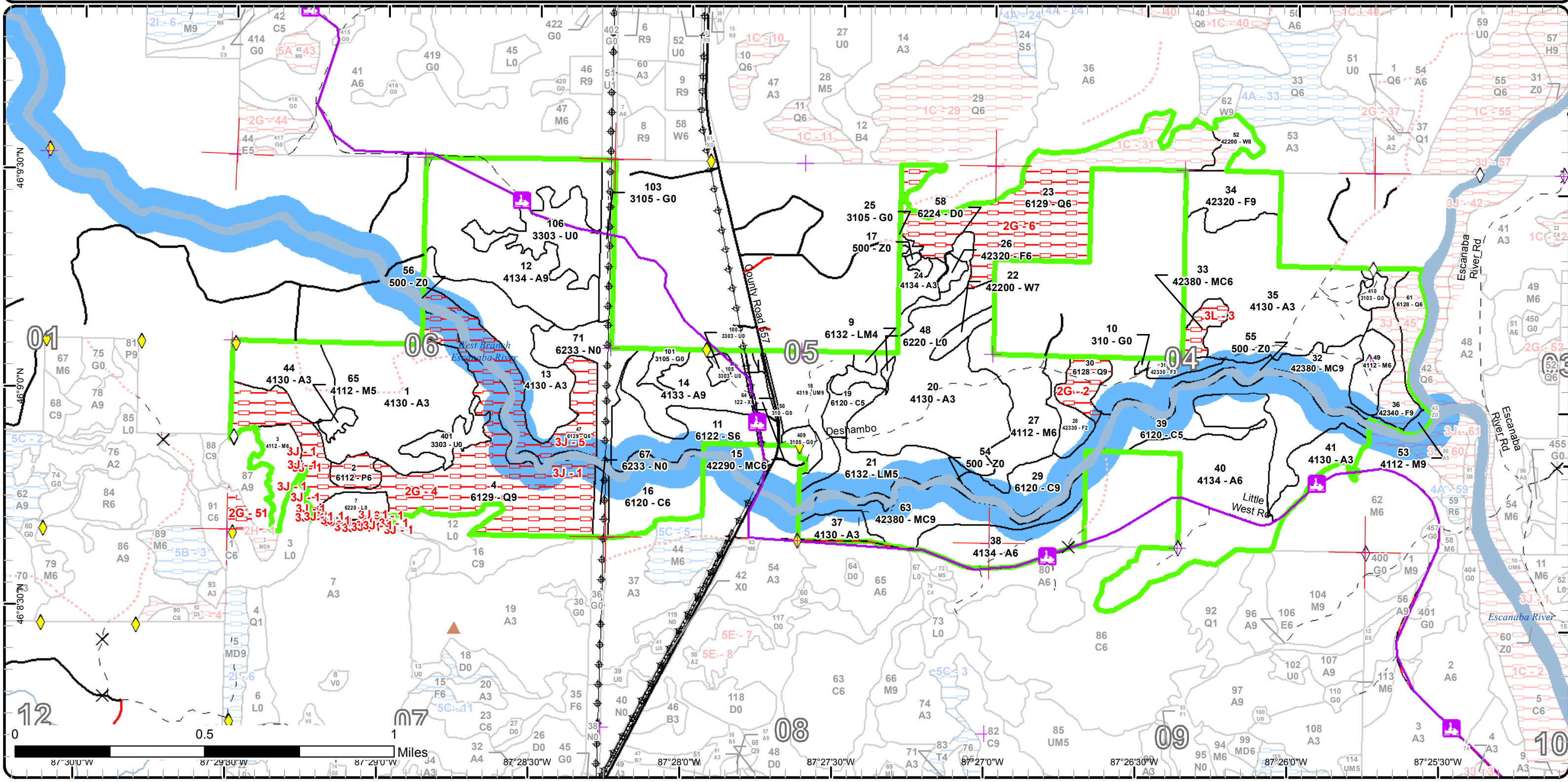


Special Conservation Areas & Site Conditions Map

Compartment: 65
 T43N, R25W, Sec: 04, 05, 06
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Ralph Ground
 Moraine
 YOE: 2019
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- Miris Corners
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- Counties
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- ▲ Berms
- Snowmobile Trails
- Designated Snowmobile Trails
- County Paved Roads
- Paved Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- ⋯ Closed
- Streams
- Lakes and Rivers All
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 65

Total Compartment Acres: 1,288

Commercial Harvest - 241
 Harvests with Site Condition - 22
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	189	0	0	0	0	0	0	0	0	189
Natural Mixed Pines	0	0	0	0	6	0	0	0	0	6
Upland Conifers	7	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	26	0	0	0	0	0	0	0	0	26
Upland Spruce/Fir	36	0	0	0	0	0	0	0	0	36
Total	257	0	0	0	6	0	0	0	0	263

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	263	0	0	0	0	0	0	0	0	263
Next Step	0	0	0	0	0	0	263	0	0	263
Total	263	0	0	0	0	0	263	0	0	526



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
12	32065012-Cut	84.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	63	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove all trees except leave white pine, red pine, black cherry, basswood, birch, and elm. Leave some small patches of maple along snowmobile trail. Retention should include some bigtooth aspen (for Northern Goshawk) and scattered white spruce for wildlife cover (State Game Fund). Ensure 100 foot no-cut buffer along Escanaba River.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, balsam poplar, fir, spruce, red maple, red pine, and white pine.

Regen:

Other Will need to harvest during snow-free period to avoid using snowmobile trail during riding season. SBW impacting fir/spruce in stand, and aspen also deteriorating.

Proposed Start Date: 10/01/2017

14	32065014-Cut	28.4	4133 - Aspen, Mixed Pine	Sawtimber Well	63	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove aspen, maple, fir, and spruce. Mark approximately 1/2 to 2/3 of red pine for removal. Ensure that some of the larger red pine are left for possible cavity nesters. Mark some white pine for operation of logging equipment, to reduce stocking levels resulting in suppressed/stunted crowns and/or cull unhealthy trees, and to release healthy/vigorous white pine. Use edges of openings to enhance retention of patches of mature aspen. Leave black cherry, birch, and oak. Retention should include some bigtooth aspen (for Northern Goshawk) and scattered white spruce for wildlife cover (State Game Fund). Ensure 100 foot no-cut buffer along Escanaba River.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, fir, spruce, red pine, white pine, red maple, and white birch.

Regen:

Other Accelerate rotation due to impacts of SBW. Will need to harvest during non-winter months to avoid potential safety conflicts between logging trucks and snowmobiles on state trail.

Proposed Start Date: 10/01/2017

15	32065015-Cut	6.1	42290 - Natural Mixed Pine	Poletimber Well	78	81-110	Harvest	Shelterwood	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove aspen, jack pine, maple, fir, and spruce. Mark approximately 1/2 to 2/3 of red pine for removal. Mark some white pine for operation of logging equipment, to reduce stocking levels resulting in suppressed/stunted crowns and/or unhealthy trees, and to release healthy/vigorous white pine. Leave black cherry, birch, and oak. Strive to maintain at most 40 or 50 sq. ft. of overstory pine where heaviest. Some areas will fall below this stocking level due to higher density of aspen and red maple.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, red maple, fir, birch, spruce, white pine, and red pine.

Regen:

Other Will conduct harvest operations during non-winter months due to snowmobile trail. Accelerate rotation due to SBW impacts.

Comment:

WLD - Agree with Treatment (State Game Fund)

Proposed Start Date: 10/01/2017



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
18	32065018-Cut	25.6	4319 - Mixed Upland Forest	Sawtimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove aspen, maple, fir, and most spruce. Mark approximately 1/2 to 2/3 of red pine for removal. Ensure that some larger red pines are left for future cavity development. May mark some white pine for operation of logging equipment, to reduce stocking levels resulting in suppressed/stunted crowns and/or unhealthy trees, and to release healthy/vigorous white pine. Use edges of opening to enhance retention of patches of mature aspen and spruce (wildlife cover). Leave black cherry, birch, and oak. Ensure 100 foot no-cut buffer along Escanaba River.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, birch, red maple, white pine, red pine, fir, and spruce.

Other Comment: Maintain highest levels of mature red pine along Co Rd 557 for travel aesthetics.

WLD - Retention should include some wind firm White Spruce (10%) (wildlife cover). Do not cut oversized red pine (cavity nesters) (State Game Fund)

Proposed Start Date: 10/01/2018

33	32065033-Cut	7.0	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Wildlife Concerns**

Prescription Remove aspen, balsam poplar, fir, spruce, ash, tamarack, and maple. Leave birch, cedar, white pine, and hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Cedar, white pine, tamarack, aspen, birch, red maple, fir, and spruce.

Other Comment: Will need to be a winter cut or during very dry summer/fall. Stick nest to be evaluated.

WLD - Small lowland stand (7 acres) with excellent wildlife features I recommend retaining the whole stand (20% Cedar) if the cedar resource will be damaged by harvest operations. Black bear, northern goshawk, white-tailed deer. (State Game Fund)

Proposed Start Date: 10/01/2018

34	32065034-Cut	20.6	42320 - Upland Spruce	Sawtimber Well	83	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove maple, fir, spruce, tamarack, aspen, and some white birch. Leave white pine, red pine, hemlock, cedar, yellow birch, and oak. Leave

Specs: black cherry for black bear soft mast. Use patch retention. Retain some scattered paper birch (State Game Fund)

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Fir, spruce, red maple, white pine, jack pine, red pine, aspen, and birch.

Other Comment: Accelerate rotation due to SBW. Will create new road to connect access road to stand 34 to the existing road network to north. This new road will remain open for public use.

Proposed Start Date: 10/01/2017

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
36 32065036-Cut	15.1	42340 - Upland Spruce/Fir	Sawtimber Well	76	81-110	Harvest	Clearcut with Retention	42330 - Upland Fir	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition: BMPs**

Prescription Remove aspen, fir, most spruce, maple, and balsam poplar. Leave cedar, black cherry (black bear fruit forage) white pine, red pine, birch, elm, and hemlock. Leave some small patches of maple. Leave scattered white spruce for wildlife cover (State Game Fund). Ensure that a 100 foot wide no-cut buffer left along Escanaba River.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Fir, spruce, black cherry, aspen, red maple, birch, and pine.
Regen:

Other Accelerate harvest due to SBW impacts.
Comment:

Proposed Start Date: 10/01/2017

40 32065040-Cut	75.5	4134 - Aspen, Spruce/Fir	Poletimber Well	53	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Remove aspen, fir, spruce, ash, and red maple.

Specs: Retain all black cherry, basswood, birch, white pine, hemlock, and cedar. Incorporate large bigtooth aspen into retention patches if possible. Also may exclude any purer maple patches. Leave some mature white spruce with red line. Ensure 100 foot wide no-cut buffer along Escanaba River.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Aspen, fir, spruce, maple, birch, black cherry, and basswood.
Regen:

Other Will be some vernal areas to line out of sale.
Comment: Will not harvest during snowmobile season as on state trail.

WLD - Agree with Treatment (State Game Fund)

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 263.0**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 65
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		1C	2G	3J	3L
536	536	0	0	Aspen		0		
94	94	0	0	Cedar				
27	23	0	3	Herbaceous Openland			3	
38	38	0	0	Low-Density Trees				
6	0	0	6	Lowland Aspen/Balsam Poplar		6		
233	0	0	233	Lowland Conifers	26	145	62	
24	24	0	0	Lowland Mixed Forest				
8	8	0	0	Lowland Shrub		0		
26	26	0	0	Lowland Spruce/Fir				
27	27	0	0	Marsh				
6	6	0	0	Natural Mixed Pines				
60	58	0	2	Northern Hardwood		0	2	
7	7	0	0	Treed Bog				
71	50	0	21	Upland Conifers			14	7
26	26	0	0	Upland Mixed Forest				
52	37	0	15	Upland Spruce/Fir			15	
2	2	0	0	Urban				
34	34	0	0	Water				
12	5	0	8	White Pine	8			
1,288	1,000		289	Total Forested Acres	34	151	97	7
	78%		22%	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	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Ben Travis : Examiner

Compartment: 65
Year of Entry: 2019

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3L: Other wildlife concerns	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave for wildlife habitat per wildlife biologist.							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	60	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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 6 – 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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	Sapling Well	66.3	8	Immature	Retained all white pine, hemlock and cedar in recent harvest. 2010- Treated under contract #32- 013-09.
2	6112 - Lowland Aspen	Poletimber Well	6.1	49	51-80	Low and wet soil. Big balsam poplar, but small w. birch and fir which are younger and more vigorous.
3	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.8	101	81-110	
4	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	98.9	118	111-140	Larger cedar mostly poor timber quality due to form and rot. Some gaps with blowdown. Stand protects riparian areas along creek and river.
9	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	2.0	56	81-110	Patchy distribution of cedar, predominantly along the west edge. White birch, balsam poplar, and black ash saplings present. Scattered black ash small poles. Willow.
11	6122 - Black Spruce	Poletimber Well	26.0	76	81-110	Cedar mostly small, some to 12" Dbh but poor timber quality. Small stream winds through stand. River corridor.
12	4134 - Aspen, Spruce/Fir	Sawtimber Well	84.7	63	51-80	Four to five stick aspen. Some really nice clones of bigtooth aspen. Higher density of overstory fir to northwest. Snowmobile trail passes through stand. White pine, red maple, black cherry, red pine, elm, sugar maple, and basswood are overstory associates.
13	4130 - Aspen	Sapling Well	36.1	17	Immature	Stand harvested under permit #32-16-99. Swales draining into large pond or swamp east.
14	4133 - Aspen, Mixed Pine	Sawtimber Well	28.4	63	81-110	4 to 6 stick aspen. Red maple is in overstory. Black cherry and black spruce saplings present. Snowmobile trail passes through stand. Private gate where road enters private to north. Small cabin to NW edge of stand does set on small parcel (.14 acres) of private land extending into the state block - reconciled during trespass resolution project. Refer to compartment file for more information.
15	42290 - Natural Mixed Pine	Poletimber Well	6.1	78	81-110	
16	6120 - Lowland Cedar	Poletimber Well	25.2	108	111-140	Riparian zone along West Branch of Escanaba river. Springs in stand draining to creek. Cedar mostly poor timber quality. Thick areas of cedar but some sparse areas south.
18	4319 - Mixed Upland Forest	Sawtimber Well	25.6	56	81-110	4 to 5 merchantable stick aspen. White spruce, black cherry, and red maple saplings present. Black cherry and white pine are uncommon overstory associates. Red pine concentrated along Co Rd 557.
19	6120 - Lowland Cedar	Poletimber Medium	8.0	88	1-50	Higher stocking levels to north and along high ground edges of stand. Alder areas. Patches of cedar. Mostly poorly stocked and marginally productive.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	4130 - Aspen	Sapling Well	78.5	18	Immature	Harvested under contract #32-017-99-01. well-stocked. Small patches of tag alder and black spruce saplings. Some semi-open patches.
21	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	22.2	88	51-80	Inoperable area with saturated muck. Escanaba river corridor. Black ash patchy in distribution. Tamarack, trembling aspen, and balsam poplar found in overstory.
22	42200 - Natural White Pine	Sawtimber Poor	4.6	98	51-80	Cut under contract 32-017-99-01 K&K logging in 2000. All pine and hardwood left for visual and retention reasons. Some pine regen occurring. Low ridge.
23	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	85.9	108	51-80	High, good road from private to west crossing to stand 36. Patches of more dense tamarack. Stand is very wet, ponding. Black ash, white birch, and tamarack saplings present.
24	4134 - Aspen, Spruce/Fir	Sapling Well	7.3	33	51-80	Pond created as a trespass. Some tree shelters and apple trees placed in stand and in adjacent G as trespass. Illegal shooting lane cut into stand from tower blind. Some clones of aspen 1 to stick tall, others 1/2 stick. Black cherry saplings present.
26	42320 - Upland Spruce	Poletimber Well	2.5	86	81-110	4 to 6 stick black spruce. Patches of blow-down. Red maple, white birch, and black spruce saplings present. Infrequent aspen in canopy.
27	4112 - Maple, Beech, Cherry Association	Poletimber Well	31.7	96	81-110	Moderate timber quality maple boles. Residual basal area between 80 and 90 sq. ft.. Cedar, fir, white spruce, white birch, and American elm overstory associates. Cut in 1989. Stand thinned again September 2009. Small patches of black ash poles. Raspberry patches common. More hilly to north. Sugar maple regeneration lacking, and is being uniformly browsed by deer. Vernal ponds.
28	42330 - Upland Fir	Sapling Medium	9.5	29	Immature	Balsam poplar and white pine saplings present.
29	6120 - Lowland Cedar	Sawtimber Well	18.7	118	201+	Escanaba river corridor. Some hemlock within overstory. Infrequent black ash and white birch in canopy.
30	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	9.8	93	111-140	Balsam poplar and white pine are uncommon in overstory. Patchy distribution to cedar and hemlock. Vigorous closed canopy. Local name of "Rip Jack creek" for drainage passing through stand.
31	42330 - Upland Fir	Sapling Well	4.7	29	51-80	Higher aspen composition to north of road. Low ridge.
32	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	32.7	69	51-80	Escanaba river corridor. Steep bank in areas.
33	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	7.0	73	81-110	White pine, yellow birch, and balsam poplar are in overstory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	42320 - Upland Spruce	Sawtimber Well	20.6	83	81-110	5 to 6 stick black spruce. Spruce blowdown occurring. Tamarack and red pine uncommon overstory associates. Higher proportion of overstory red maple to south portion of stand. Red maple, trembling aspen, and black spruce saplings present.
35	4130 - Aspen	Sapling Well	83.2	6	Immature	Retained all white pine, hemlock and cedar from prior aspen harvest. 2012-stand treated under harvest contract #32-015-09-0.. Large chip pile with resulting mat may impede regeneration at the landing site. Good aspen stocking level. White spruce and red maple saplings present.
36	42340 - Upland Spruce/Fir	Sawtimber Well	15.1	76	81-110	Sugar maple and white pine are uncommon overstory associates. Black cherry saplings present.
37	4130 - Aspen	Sapling Well	8.8	9	Immature	White pine, hemlock, and cedar retained in past harvest. Treated under permit #32-016-09.
38	4134 - Aspen, Spruce/Fir	Poletimber Well	26.3	29	51-80	Some cherry poles and cherry saplings.
39	6120 - Lowland Cedar	Poletimber Medium	42.3	98	51-80	Some black cherry, white birch, and black ash. Ash swales in spots. Riparian zone along West Branch of Escanaba river.
40	4134 - Aspen, Spruce/Fir	Poletimber Well	75.5	53	81-110	Scattered black cherry in canopy and saplings in understory. Areas with dense fir overstory. Will need to accelerate rotation due to SBW impacts. 4 to 5 stick aspen.
41	4130 - Aspen	Sapling Well	15.1	9	Immature	All white pine, hemlock and cedar retained from past harvest. Treated under permit #32-016-09.
44	4130 - Aspen	Sapling Well	25.9	17	Immature	Stand cut in 2001 under permit #32-015-99.
47	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.8	98	81-110	Riparian zone along West Branch of Escanaba river.
49	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.9	121	81-110	Stand cut in 2005 C.J. Logging permit #11-02-01. Poor to moderate timber quality to sugar maple boles.
52	42200 - Natural White Pine	Sawtimber Medium	7.5	108	51-80	
53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	2.0	121	81-110	Riparian zone and dispersed campsite along West Branch of Escanaba river.
61	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.4	79	51-80	Riparian zone along West Branch of Escanaba river. Steep bank separates this stand and stand 36 to west.
63	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	31.3	93	51-80	Riparian zone along big West Branch of Escanaba river.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 65
Year of Entry: 2019



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4112 - Maple, Beech, Cherry Association	Poletimber Medium	2.9	101	51-80	Residual patch retention from harvest permit #32-15-99.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	6220 - Alder/willow	6.8	No	
10	310 - Herbaceous Openland	0.7	No	Mowed by adjacent camp owner.
17	500 - Water	0.6	No	Pond constructed in trespass.
25	3105 - Mixed Upland Herbaceous	2.0	No	Opening was made in trespass at time unsanctioned pond was dug. Several small fence enclosures present protecting apple trees. Planted oak saplings present. Cultivated food plot at north end, extending off private property. Opening to south flat with St John's wort and spotted knapweed. Fringe and patches of aspen, tamarack, black cherry, spruce, and fir saplings.
48	6220 - Alder/willow	0.9	No	
50	310 - Herbaceous Openland	1.7	No	Powerline right-of-way.
54	500 - Water	10.1	No	Big West Branch Escanaba river.
55	500 - Water	9.7	No	Big West Branch of Escanaba river.
56	500 - Water	13.1	No	Big West Branch Escanaba river.
58	6224 - Treed Bog	7.1	No	Black spruce, fir, and tamarack saplings. Thick tag alder.
64	122 - Road/Parking Lot	2.2	No	County Road 557 and r-o-w.
67	6233 - Wet Meadow	4.4	No	Powerline right-of-way. Wet.
71	6233 - Wet Meadow	22.2	No	Some water. Powerline ROW as well.
100	3303 - Mixed Low Density Trees	2.6	No	White pine and trembling aspen main trees. Snowmobile trail passes through stand.
101	3105 - Mixed Upland Herbaceous	4.5	No	Rough surface. Poor herbaceous forage. Small patches of aspen saplings and white pine saplings. Diverse tree species present. Will convert to forested stand by next entry period. Possible to inter-plant some oak saplings here and in stand 406 if wildlife has available stock.
103	3105 - Mixed Upland Herbaceous	9.7	No	2 major powerlines and associated cleared ROW. Two-track follows upland portion of corridor.



Stand	Cover Type	Acres	Managed Site	General Comments:
105	3303 - Mixed Low Density Trees	0.7	No	Two-track at north side. Good decking area.
106	3303 - Mixed Low Density Trees	25.4	No	Rough ground. Snowmobile trail passes through stand. Scattered trembling aspen, black cherry, and white pine poletimber located. White pine, trembling aspen, jack pine, and black cherry saplings present.
401	3303 - Mixed Low Density Trees	9.1	No	
409	3105 - Mixed Upland Herbaceous	4.7	No	Old opening to north of Deshambo's HQ camp. Trembling aspen saplings filling in along perimeter. Sporadic larger white pines. Stand was burned by private owners to south this spring. There is infestation of leafy spurge in field, as well as along Co Rd 557 and private to south. Would suggest planting red pine in opening to help identify property and access road as belonging to state.
410	3103 - Rubus-Fern	3.4	No	Cherry brush, fir saplings, and white spruce saplings present. Scattered, stunted black cherry poles - good soft mast producers. Few openings in vicinity, so would be nice to prolong non-forested condition for as long as possible.