



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52025

Entry Year 2017

Acreage: 2,441

County Otsego

Management Area: AuSable Outwash

Revision Date: 2015-05-18

Stand Examiner: Lucas Merrick

Legal Description:

T30N, R02W, Sections 25, 26, 27, 34, 35, and 36

Identified Planning Goals:

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

Soil and topography:

The compartment is flat with limited changes in topography. Dominant soil types are Lindquist, Graycalm, Rubicon, and Graycalm-Graying sands. These soils are somewhat excessively drained.

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

Private property is checker boarded with large parcels of public property. Dispersed recreation is evident throughout the area. The private ownership is a mixture of seasonal cottages, permanent residence, hunt clubs, and agriculture. Michaywe subdivision is two miles to the west.

Unique Natural Features:

Potential for dry prairie plants in grassy openings. Hill's thistle, rough fescue, Alleghany plum and pale agoseris. Goblin moonwort to know to occur in surrounding area. Potential for dusted skipper, Doll's merolonche, blazing star borer moth, grizzled skipper and red legged spittlebug in grassy openings. Potential for Kirtland's warbler in young jack pine. Potential for prairie warbler in young jack pine and upland brush.

Archeological, Historical, and Cultural Features:

Archeological concerns exist in the compartment.

Special Management Designations or Considerations:

Bass Lake Pine Barron an Ecological Reference Area is located in Section 35.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benefiting deer, grouse, wild turkey and woodcock. Oak clumps and/or large crowned oak will be left where appropriate for hard mast.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of end moraines of medium-textured till and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 800 and 1,000 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. Gravel pits are located in sections 15 and 21 to the north and east and potential is possible. Most of the compartment appears to be developed for Antrim Shale gas production and is located within the Niagaran reef trend. There may be additional reef potential. The majority of State minerals in the compartment are currently under lease.

Vehicle Access:

Access is adequate. County roads, two-tracks and pipelines allow for easy vehicle travel.

Survey Needs:

It is anticipated that property lines in section 26 will need to be established by a surveyor.

Recreational Facilities and Opportunities:

Snowmobile trails #4 and #404 are present in the compartment.

Fire Protection:

Topography is well suited for standard fire fighting operations. County roads, pipeline roads and two-tracks provide excellent access throughout the compartment. Poison gas is present in the compartment. Under the right conditions the fuel types could be prone to a large scale fire event.

Additional Compartment Information:

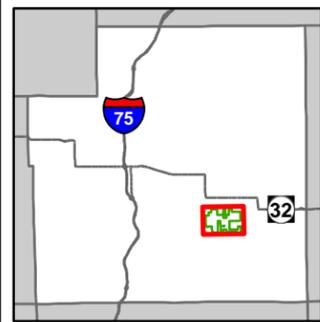
The following reports from the Inventory are attached:

- 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

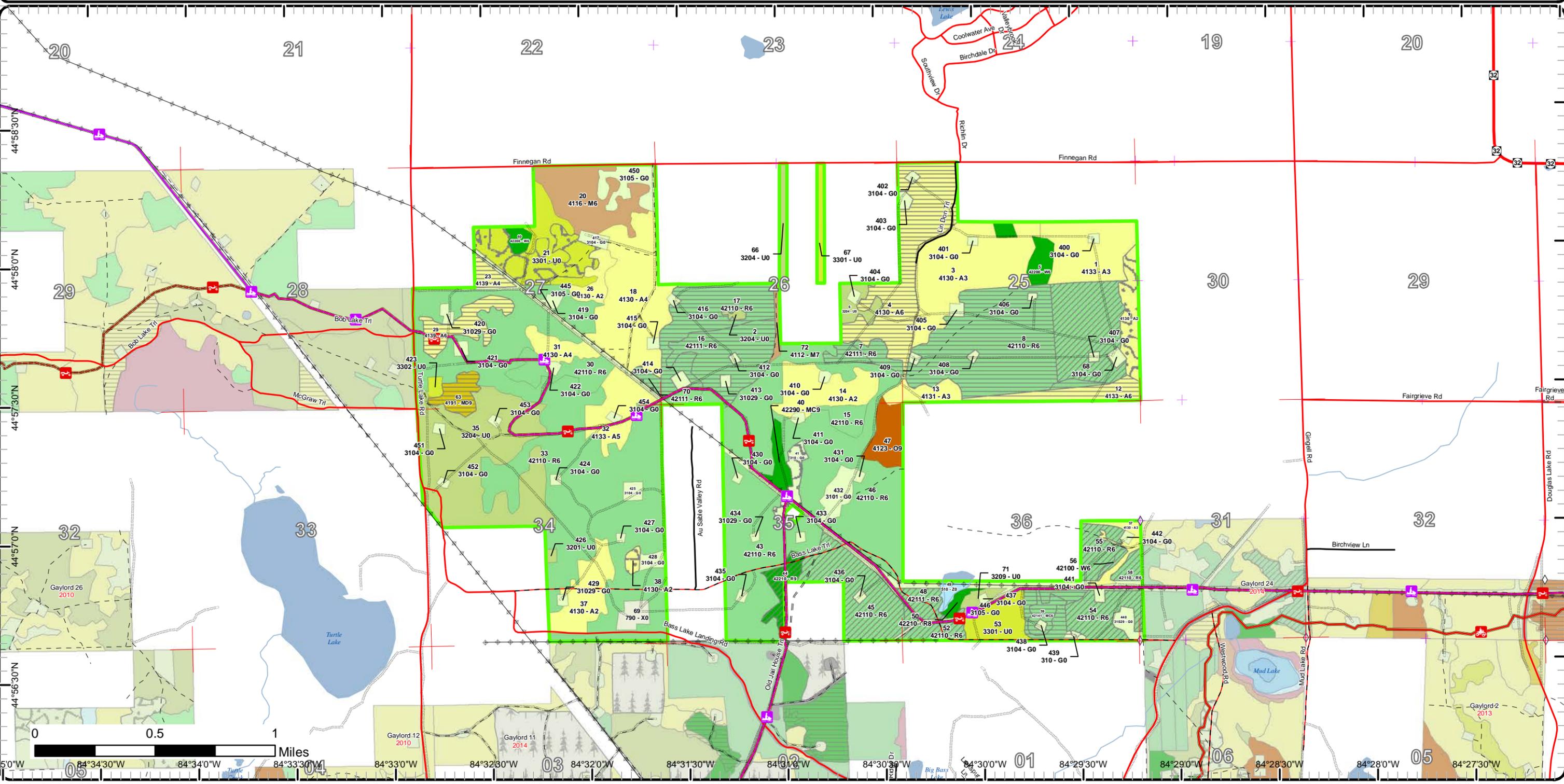


Compartment: 25
 T30N,R02W, Sec. 25-27, 34-36
 County: Otsego
 Unit: Gaylord
 Mgmt Area: AuSable Outwash
 YOE: 2017
 Acres: 2441 GIS Calculated
 Examiner: Lucas Merrick
 Map Revised: 5/18/2015
 Map Phase: Pre-Review



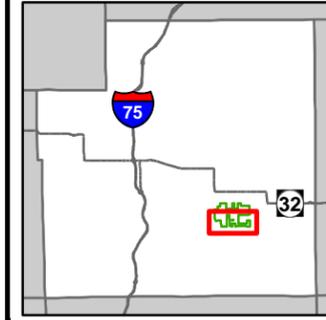
- Remonumented Section Corners
- Field Grade GPS Corners
- Miris Corners
- Highway
- County Paved Roads
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- Powerline
- Treatments**
- Site Prep
- Clearcut (w/Reserves)
- Regeneration Survey
- Thinning (Crown, Low, Systematic)

- Forest Covertypes**
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- Non-Forest Covertypes**
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 790 - Other Bare/Sparsely Vegetated

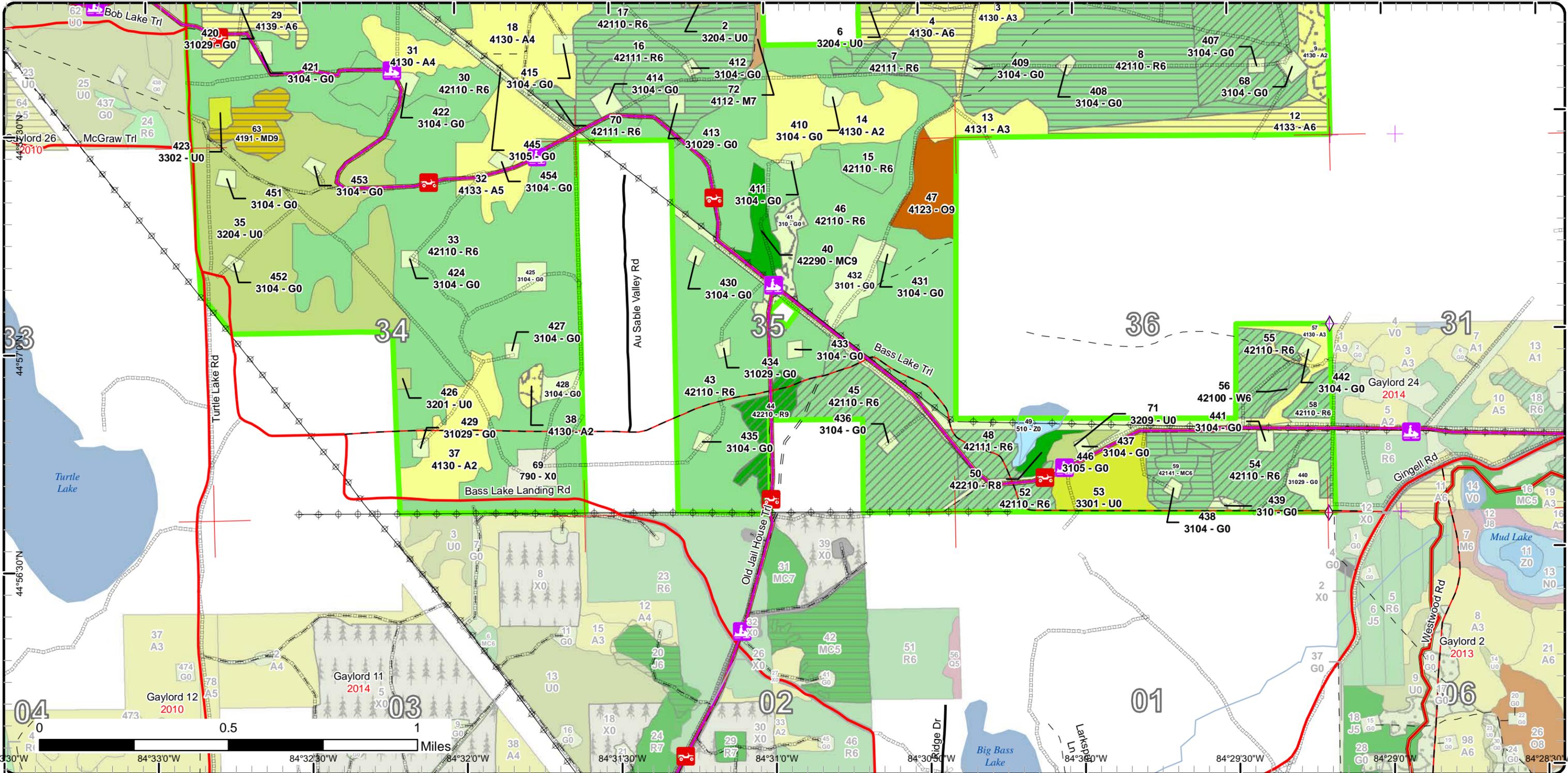


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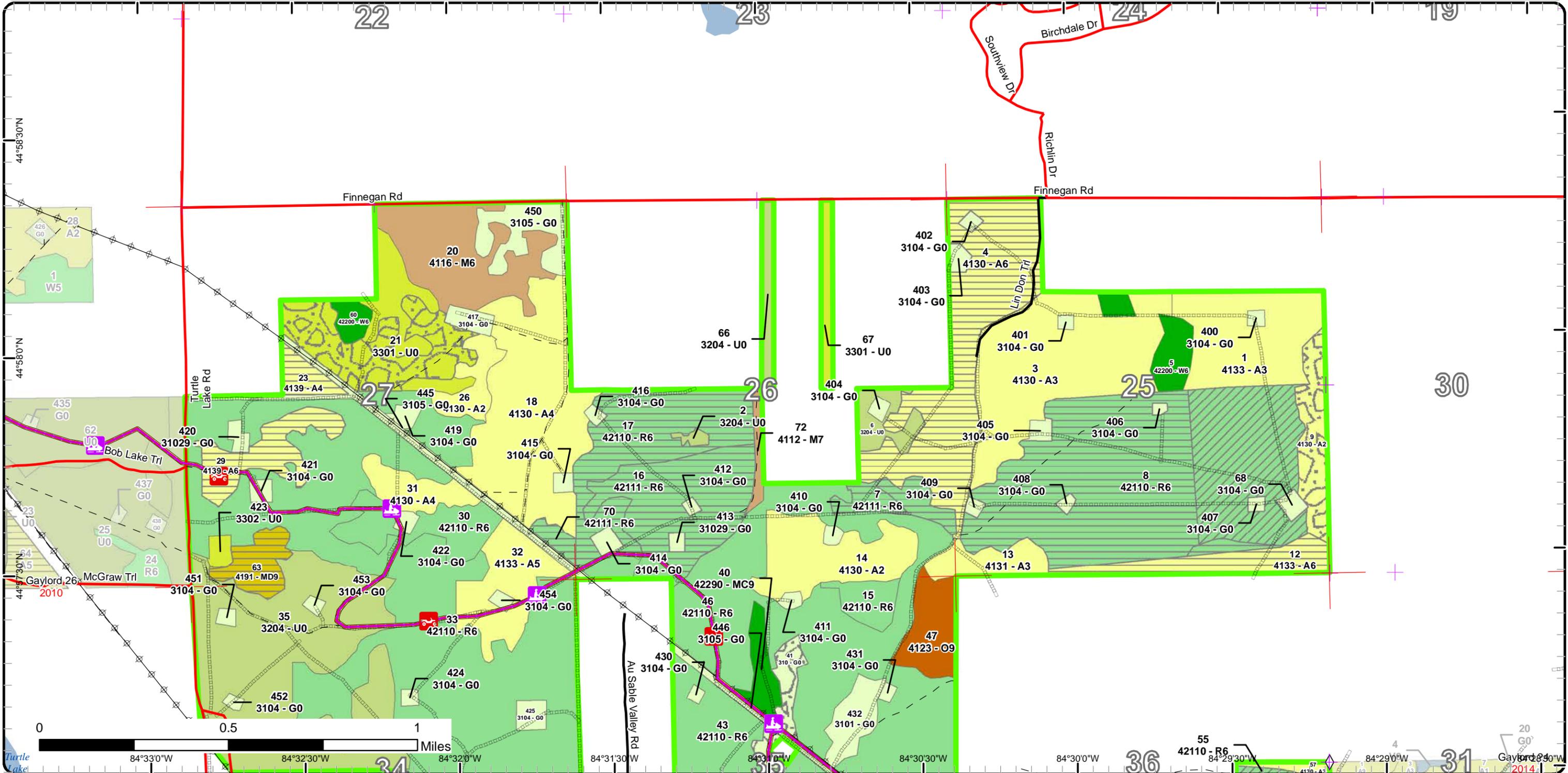


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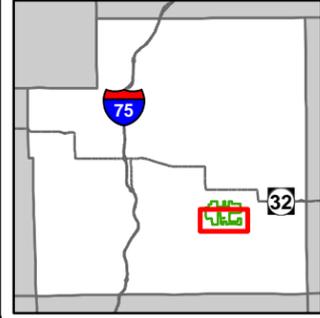


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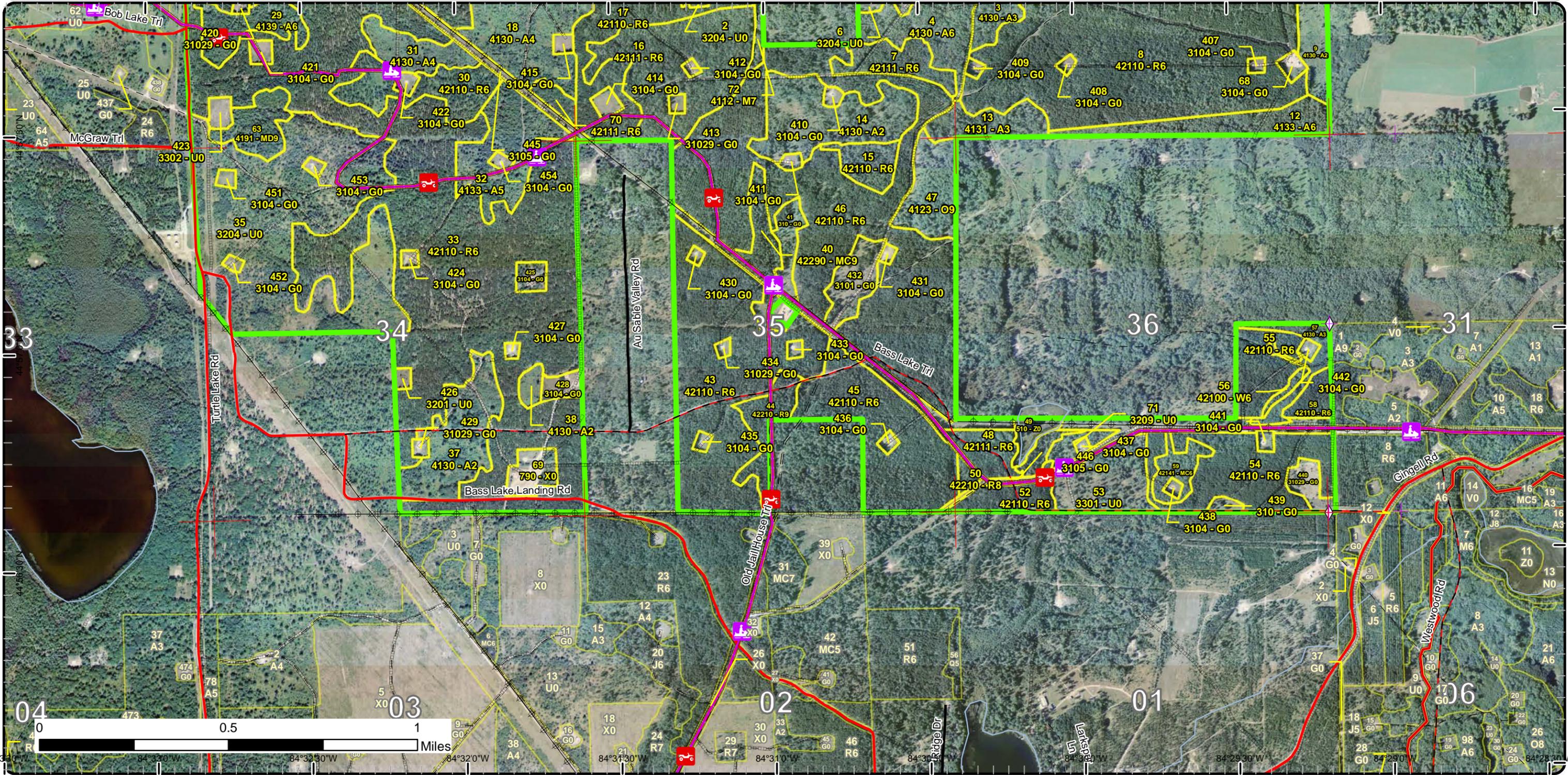
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Stand Boundary Map



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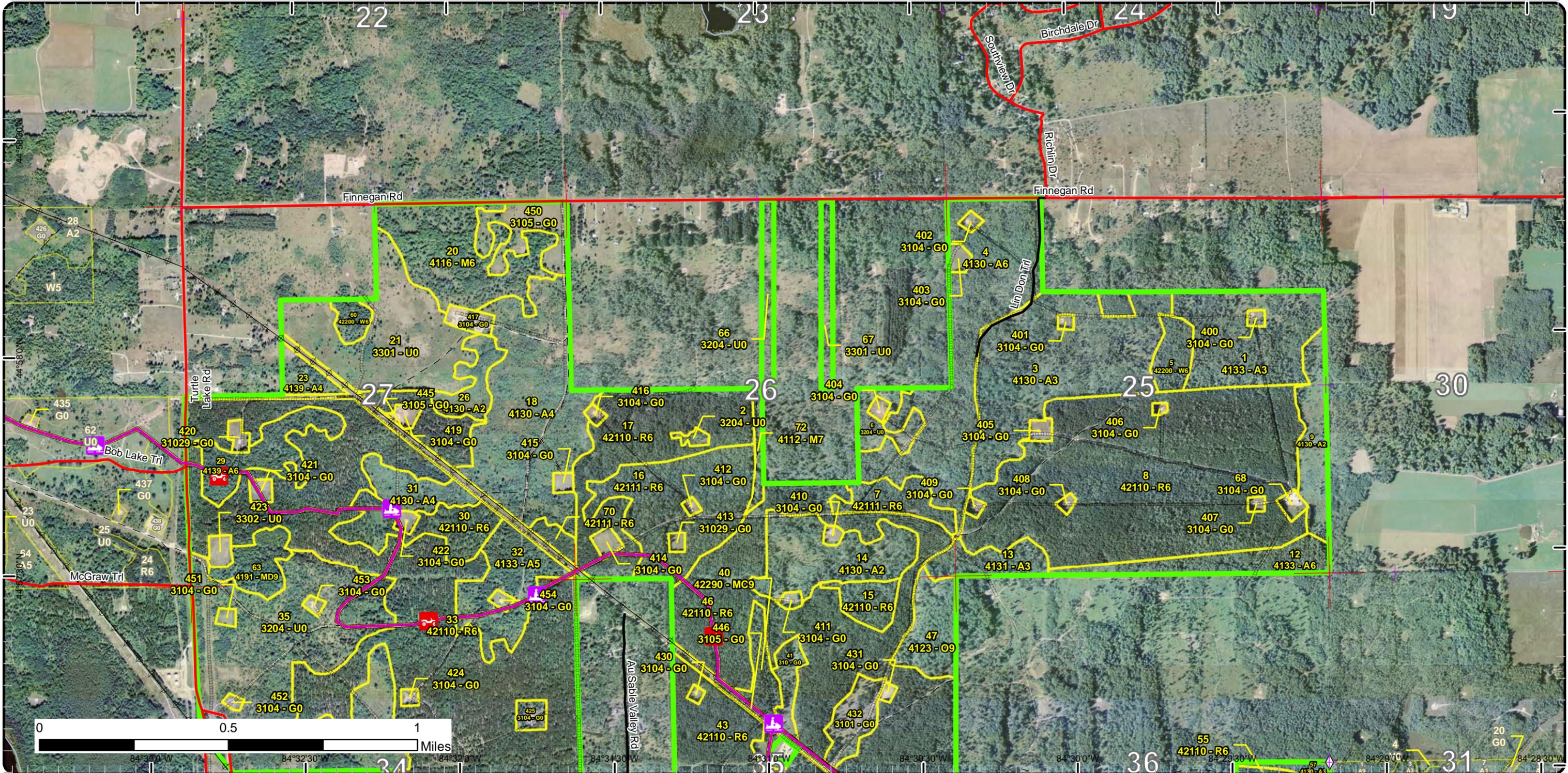


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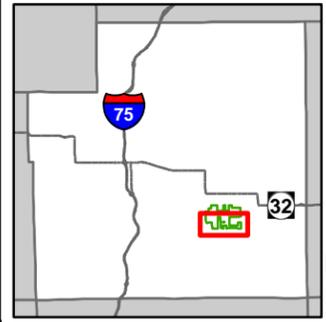
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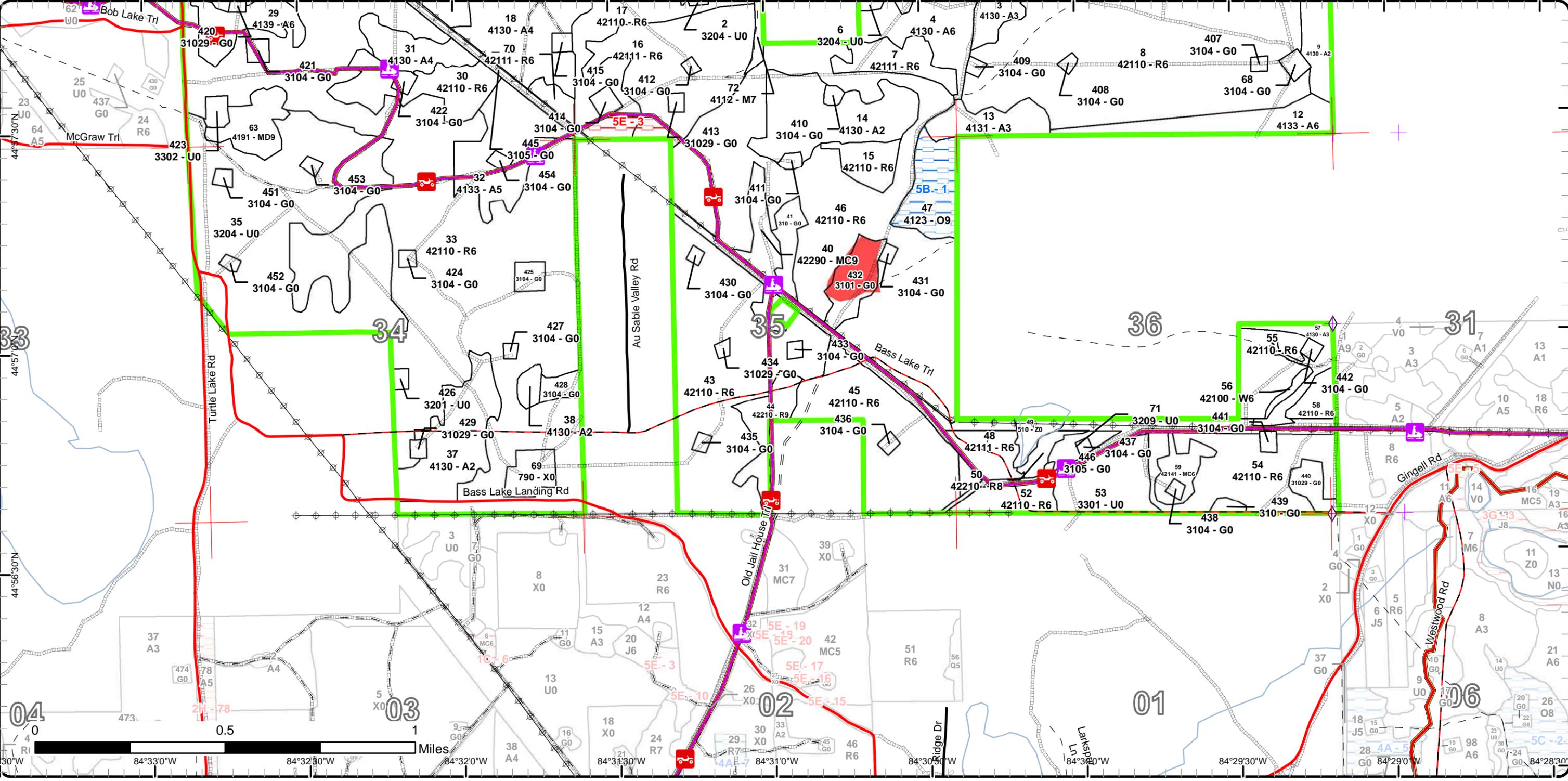
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Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable Factors
- 5E: Long-Term Retention
- Special Conservation Areas
- Ecological Reference Areas
- Natural Rivers Zoning District

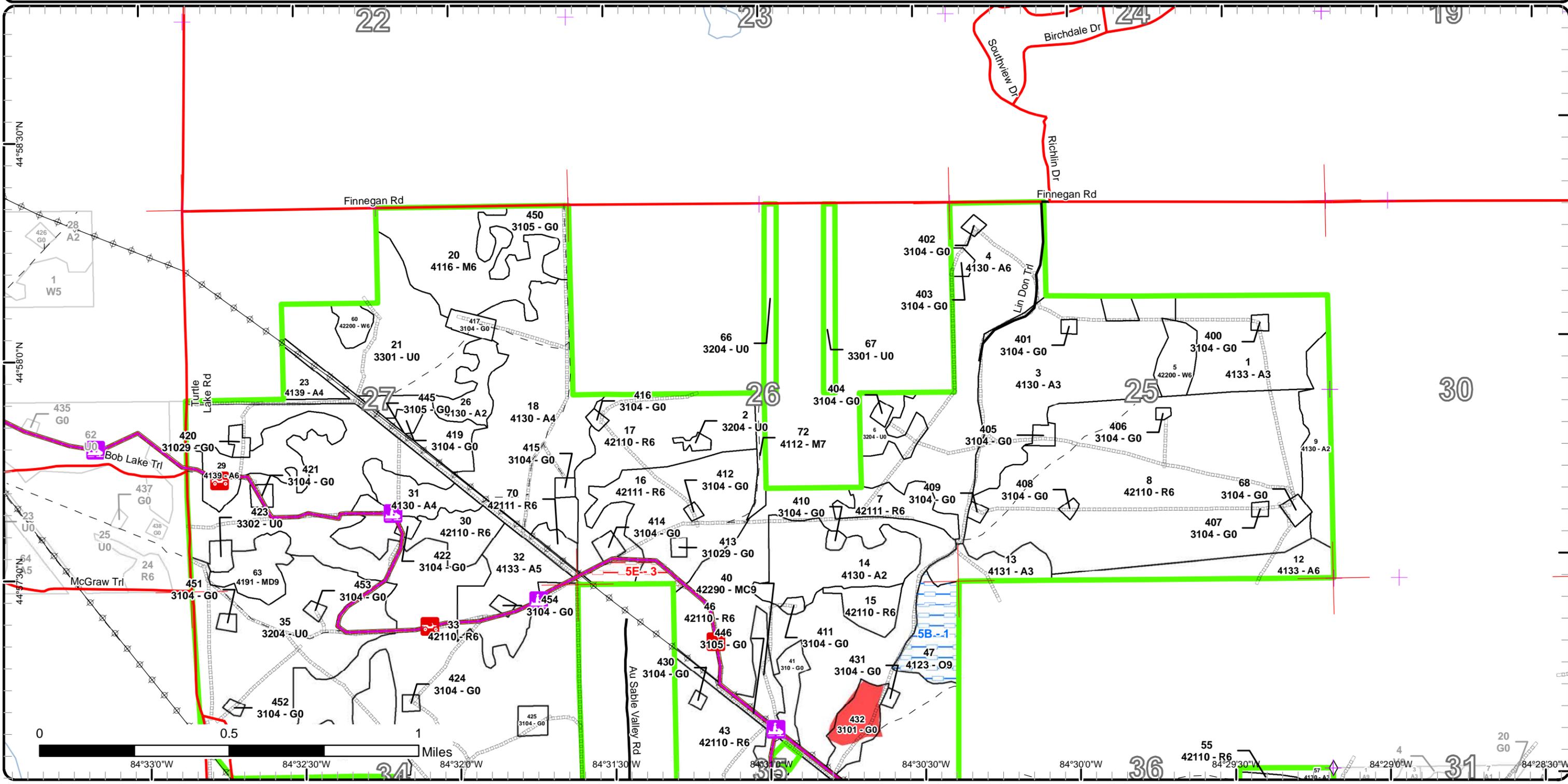


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Report 1 – Total Acres by Cover Type and Age Class

Gaylord Mgt. Unit

Compartment 25

Year of Entry 2017

Lucas Merrick : 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	27	65	198	142	95	56	0	0	0	0	0	0	0	0	0	0	0	583
Bare/Sparsely Vegetated	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Herbaceous Openland	174	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174
Low-Density Trees	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Mixed Upland Deciduous	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0	58
Oak	0	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	21
Planted Mixed Pines	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	0	0	0	1231	0	15	0	4	0	0	0	0	0	0	0	1250
Upland Shrub	177	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	177
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Total	471	27	65	198	142	95	1377	15	0	26	0	25	0	0	0	0	0	0	2441



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 25

Total Compartment Acres: 2,441

Commercial Harvest - 701
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 85

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	151	0	0	0	0	0	0	0	0	151
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	0	15
Planted Mixed Pines	9	0	0	0	0	0	0	0	0	9
Red Pine	295	0	0	0	230	0	0	0	0	524
White Pine	0	0	0	0	2	0	0	0	0	2
Total	470	0	0	0	232	0	0	0	0	701

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	701	1	0	0	0	84	0	0	0	786
Next Step	0	293	293	0	145	145	323	148	0	1348
Total	701	294	293	0	145	145	406	148	0	2134



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
4	52025004-Cut	94.7	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No **Site Condition:** None

Prescription Harvest all trees 2" and up except for oak. Do not cut oak with 12" dbh or greater.

Specs:

Next Step

Treatments:

Acceptable Aspen, with red maple, oak, birch and mixed conifer.

Regen:

Other 3-10% retention. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

7	52025007-25- New	6.8	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	111- 140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** None

Prescription Harvest all trees 2" and up.

Specs:

Next Step

Treatments:

Acceptable Aspen, red maple, oak, and mixed pine at minimum stocking.

Regen:

Other Minimum retention. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

7	52025007-Cut	8.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** None

Prescription Final harvest. Do not leave retention due to small size and to help with site prep efforts.

Specs:

Next Step 1 - Pesticide, Aerial; 2 - Burn, Slash; 3 - SitePrep, Trenching; 4 - Planting, Initial Plant; 5 - Monitoring, Artificial Regen(1yr)

Treatments:

Acceptable planted red pine

Regen:

Other Set up with stand 8. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

8	52025008-28- New	71.0	42110 - Planted Red Pine	Poletimber Well	53	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** None

Prescription Remove every third row of red pine. Do not cut oak. Remove white pine and other misc species found within designated harvest rows.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other There is one large legacy sized spruce spruce tree found in stand that should be protected from harvest operations. 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
8	52025008-7- New	3.6	42110 - Planted Red Pine	Poletimber Well	53	171- 200	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition: None**Prescription Final harvest all trees 2" and up. Do not leave retention within stand.Specs:Next StepTreatments:Acceptable Aspen mixed with conifer, red maple, and oak at minimum stocking.Regen:Other Follow aspen component when running lines. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

8	52025008-Cut	136.8	42110 - Planted Red Pine	Poletimber Well	53	171- 200	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Final harvest all trees 2" and up. Leave minimum retention in the SE corner along the portion of plantation converting to aspen/mixed hardwoods.Specs:Next Step 1 - Pesticide, Aerial; 2 - Burn, Slash; 3 - SitePrep, Trenching; 4 - Planting, Initial Plant; 5 - Monitoring, Artificial Regen(1yr)Treatments:Acceptable Planted red pineRegen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2016

9	52025009- Monitor	23.2	4130 - Aspen	Sapling Medium	6	Immatur re	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: Yes**Site Condition: None**Prescription Stand was planted red pine in competition with aspen and red maple. Regeneration expected to be patchy with pockets of aspen.Specs:Next StepTreatments:Acceptable aspen, red maple, oak, and mixed pine at minimum level.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2014

12	52025012-Cut	23.7	4133 - Aspen, Mixed Pine	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Final harvest all trees 2" and up. Protect understory shrubs from damage (specifically hemlock).Specs:Next StepTreatments:Acceptable Aspen at minimal stocking with mixed conifer, red maple, and oak present.Regen:Other Minimal retention for sake of aspen regeneration. 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
16	52025016-Cut	56.4	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition: None**Prescription Final harvest all trees 2" and up. Do not leave retention within sale area.Specs:Next Step 1 - Other, Other; 2 - SitePrep, Trenching; 3 - Planting, Initial PlantTreatments:Acceptable planted red pineRegen:Other Long term retention identified south of snowmobile trail. Protect u type from operations. Protect snowmobile trail from operations. Old next step
Comment: comments:Proposed Start Date: 10/1 /2016

17	52025017-Cut	62.2	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Cut all trees 2" and up.Specs:Next Step 1 - Other, Other; 2 - SitePrep, Trenching; 3 - Planting, Initial PlantTreatments:Acceptable planted red pine.Regen:Other Do not leave retention in sale area. Retention has been designated south of the snowmobile trail. Protect the U-type (stand 2) from operations
Comment: and planting. Maintain this pocket upland brush. Survey may be required. Protect snowmobile trail from operations. Old next step comments:Proposed Start Date: 10/1 /2016

21	52025021- Monitor	45.2	3301 - Low Density Deciduous Trees	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Approved Proposal
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Habitat Cut: Yes**Site Condition: None**Prescription Monitor regeneration. Aspen should meet minimum stocking requirements.Specs:Next StepTreatments:Acceptable Aspen and a mixture of red maple, oak, and mixed pine.Regen:Other Old next step comments:Comment:Proposed Start Date: 10/1 /2014

23	52025023-Cut	8.0	4139 - Aspen, Mixed Deciduous	Poletimber Poor	50	1-50	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Harvest all trees 2" and up except for oak. Do not cut oak.Specs:Next StepTreatments:Acceptable Aspen, maple, oak and mixed conifer. Poor stocking is acceptable as long as aspen is present in some amount within stand.Regen:Other Harvest with stand 29. 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
29	52025029-Cut	24.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Proposal

Habitat Cut: No **Site Condition:** None

Prescription Final harvest all species 2" and up except for oak. Leave oak. Do not leave conifer unless found in retention areas. Make efforts to protect oak regeneration.
Specs:

Next Step
Treatments:

Acceptable Mixed aspen with red maple, oak, and misc conifer.
Regen:

Other Use retention islands to protect pockets of oak saplings. Protect snowmobile trail from operations. Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

38	52025038- Monitor	3.7	4130 - Aspen	Sapling Medium	5	Immatu re	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: Yes **Site Condition:** None

Prescription Stand was a poorly stocked stand with aspen, red maple, oak, u-type, and misc conifer.
Specs:

Next Step
Treatments:

Acceptable Aspen with red maple, oak, and a minor conifer component at minimum stocking.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2014

41	52025041- Monitor	11.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	Monitoring	Artificial Regen(3yr)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Approved Proposal
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Habitat Cut: Yes **Site Condition:** None

Prescription Monitor regen. Planted 5/11/2012. Will be up for a year 3 check.
Specs:

Next Step
Treatments:

Acceptable A fully stocked jack pine stand with pockets of maple, aspen, mixed conifer, and oak.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 5 /11/2015

44	52025044-Cut	15.0	42210 - Natural Red Pine	Sawtimber Well	87	141- 170	Harvest	Crown Thinning	42290 - Natural Mixed Pine	Two-Aged	Proposal
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Habitat Cut: No **Site Condition:** None

Prescription Manage for large diameter mixed pine. Target poor form and suppressed trees. Residual BA 90-110
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Majority of plantation trees are suppressed in understory. Protect snowmobile trail from operations. 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
45	52025045-Cut	60.3	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition: None**Prescription Target BA is 110-130. Target suppressed and poor form.Specs:Next StepTreatments:AcceptableRegen:Other Mark white pine and maple to cut as well. If maple are not interfering with pine growth or in the way of operations leave in an attempt to limit maple regeneration. Old next step comments:Proposed Start Date: 10/1 /2016

48	52025048-Cut	11.6	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Remove every third row where evident. Mark to cut in areas if needed. Protect oak from harvest. Remove red maple and aspen in designated rows only.Specs:Next StepTreatments:AcceptableRegen:Other Protect snowmobile trail from operations. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

52	52025052-Cut	13.9	42110 - Planted Red Pine	Poletimber Well	55	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Remove every third row of red pine.Specs:Next StepTreatments:AcceptableRegen:Other Protect oak component from harvest. Protect snowmobile trail from operations. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

54	52025054-19- New	16.1	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Final harvest. Cut all tress 2" and up. Do not leave retention to help facilitate planting efforts.Specs:Next Step 1 - Other, Other; 2 - SitePrep, Trenching; 3 - Planting, Initial PlantTreatments:Acceptable Planted red pineRegen:Other Leave oak in stand. 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
54	52025054-Cut	31.1	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition: None**Prescription Target poor formed and suppressed trees. Do not cut oak. Target BA (110 - 130).Specs:Next StepTreatments:AcceptableRegen:Other Understory is well stocked in NW portions. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

55	52025055-Cut	19.7	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Mark to cut. Target BA (110 -130). Target poor form and suppressed. Do not cut oak.Specs:Next StepTreatments:AcceptableRegen:Other Patchy in areas, some potential walk through. Pockets of A3. Protect snowmobile trail from operations. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

56	52025056-Cut	2.1	42100 - Planted White Pine	Poletimber Well	55	171- 200	Harvest	Crown Thinning	4210 - Planted White Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Mark to cut target BA (110-130). Target poor form and suppressed,Specs:Next StepTreatments:AcceptableRegen:Other Cut with adjacent stands. May be able to mark out rows. This 2 acres has not been thinned. Protect snowmobile trail from operations. Old next step comments:Comment:Proposed Start Date: 10/1 /2016

58	52025058-Cut	7.1	42110 - Planted Red Pine	Poletimber Well	55	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**Prescription Thin to an average of (110 - 130BA). Target poor form and suppressed trees.Specs:Next StepTreatments:AcceptableRegen:Other Some walk through area (SE). Protect snowmobile trail from operations. 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
59	52025059-Cut	9.0	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	55	141- 170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition: None								
<u>Prescription</u> Cut all trees 2" and up. Do not leave retention to help facilitate planting efforts.											
<u>Specs:</u>											
<u>Next Step</u> 1 - Other, Other; 2 - SitePrep, Trenching; 3 - Planting, Initial Plant											
<u>Treatments:</u>											
<u>Acceptable</u> planted red pine.											
<u>Regen:</u>											
<u>Other</u> Leave oak. Protect snowmobile trail from operations. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
63	52025063-Cut	14.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	67	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
Habitat Cut: No			Site Condition: None								
<u>Prescription</u> Cut all trees 2" and up. Leave minimum retention. Mark some conifer to leave.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Red maple, aspen, oak, birch and pine. If regen fails to meet standard, manage area with adjacent opening..											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
70	52025070-Cut	4.4	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	55	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: No			Site Condition: None								
<u>Prescription</u> Final harvest all trees 2" and up.											
<u>Specs:</u>											
<u>Next Step</u> 1 - Other, Other; 2 - SitePrep, Trenching; 3 - Planting, Initial Plant											
<u>Treatments:</u>											
<u>Acceptable</u> planted red pine											
<u>Regen:</u>											
<u>Other</u> No retention do to small size. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
439	52025439- Prep	1.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Proposal
Habitat Cut: Yes			Site Condition: None								
<u>Prescription</u> Plant with adjacent stands											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Planted red pine											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											

**Total Treatment
Acreage Proposed: 786.3**

Report 5 – Site Conditions

Gaylord Mgt. Unit
Lucas Merrick : Examiner

Compartment: 25
Year of Entry: 2017

Dominant Site Conditions

5E

Aspen	
Bare/Sparsely Vegetated	
Herbaceous Openland	
Low-Density Trees	
Mixed Upland Deciduous	
Natural Mixed Pines	
Northern Hardwood	
Oak	
Planted Mixed Pines	
Red Pine	8
Upland Shrub	
Water	
White Pine	
Total Forested Acres	8
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	21	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Stand has been under planted to white pine. Allow understory to develop.							
3	Unavailable	5E: Long-Term Retention	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Identified retention for stand 17.							

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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4133 - Aspen, Mixed Pine	Sapling Well	53.6	17	Immature	Sparse in the northern portions. Stand as a whole is around 75% canopy closure. Thick pockets with open areas. Good shrub understory.
3	4130 - Aspen	Sapling Well	93.7	25	Immature	REGEN 25ft HIGH. OAK, WP, & RP NOT CUT. Extensive elk activity. Stand transitioning into a merchantable stand. Majority of oak in west. Open pockets with shrubs in east. Canopy cover is right around 75%
4	4130 - Aspen	Poletimber Well	94.7	46	81-110	Variable stand. Patchy in quality and maturity. Pockets of quaking aspen and pockets of big tooth aspen. Red maple consistent throughout. Some areas with BTA logs. A fair amount of oak regen over 8" tall.
5	42200 - Natural White Pine	Poletimber Well	14.5	50	111-140	A couple big seed source trees. Plenty of 4-8" trees mixed in with saw logs. Pockets of aspen. Red pine, maple, birch and hemlock also present.
7	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	15.2	55	111-140	Poorer quality red pine do to hardwood competition. Pockets of porcupine damage. There are a few area of good quality red pine (eastern portions are better in quality). Understory is well stocked in majority of stand.
8	42110 - Planted Red Pine	Poletimber Well	211.5	53	171-200	Majority of white pine found in eastern portions, red maple in the west. Some porcupine damage. Understory is variable, open in spots, thick in others.
9	4130 - Aspen	Sapling Medium	23.2	6	Immature	Extensive elk activity. Heavy browse on red maple stump sprouts. Canopy closure around the 50% mark. Pocket of larger diameter white pine in northern portions. Stand is a matrix of fully stocked aspen pockets and open areas.
12	4133 - Aspen, Mixed Pine	Poletimber Well	23.7	55	81-110	Elk activity. Variable stand with a 2 acre pocket of small diameter aspen 3-4". Nice pockets of hawthorn, witch hazel, and cherry brush. Quality of aspen seems to better in eastern portions.
13	4131 - Aspen, Oak	Sapling Well	15.4	27	Immature	Browse evident. Fairly open understory. Aspen is patchy. Some aspen decline evident in QA.
14	4130 - Aspen	Sapling Medium	40.5	27	Immature	Elk activity in stand. A mixture of aspen pockets and upland shrub with scattered saw log oak and pine. Some paper birch present in stand.
15	42110 - Planted Red Pine	Poletimber Well	10.9	55	81-110	Stand has large saw log unplanted red pine throughout making up approx. 38% of canopy. The plantation was under planted and or planted around these trees and makes up about 50% of canopy. The plantation average diameter is around 6-7 inches with pockets of suppressed trees. 85 is the age of natural pine.
16	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	60.1	55	141-170	Pockets of nice plantation. Clumpy red maple competing with majority of planted pine.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	42110 - Planted Red Pine	Poletimber Well	67.1	55	141-170	Stand does not have the red maple component that 16 does. Variable stand, DBH ranges from 5 -12", pockets of poor form, open areas, variable BA (80-210).
18	4130 - Aspen	Poletimber Poor	94.1	36	1-50	Sparse. Pockets with better stocking in south.
20	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	53.0	55	81-110	Clumpy maple, below average quality. Big tooth aspen clones look good. Pockets of grass and shrub types. A few open areas with dips may be acting as frost pockets making tree regeneration difficult.
23	4139 - Aspen, Mixed Deciduous	Poletimber Poor	8.0	50	1-50	Poorly stocked, average quality.
26	4130 - Aspen	Sapling Medium	13.1	25	Immature	Below average quality aspen. Canopy coverage around 50%
29	4139 - Aspen, Mixed Deciduous	Poletimber Well	24.7	55	81-110	Balsam fir and "bam" also present. Aspen below average quality. Excellent looking oak in understory and canopy. Around 75% canopy closure. Excellent shrub component.
30	42110 - Planted Red Pine	Poletimber Well	25.6	55	81-110	STAND THINNED 10/2010. Nice pockets of 140+BA in a couple areas. A couple pockets of little to no over story with aspen and red maple regeneration.
31	4130 - Aspen	Poletimber Poor	15.3	36	1-50	Canopy coverage close to 50%. Understory is fairly open. Hypox present. Below average quality aspen.
32	4133 - Aspen, Mixed Pine	Poletimber Medium	33.0	36	51-80	Island of mature timber in north west- aspen and red pine over topped by pine. Open pockets of U-type
33	42110 - Planted Red Pine	Poletimber Well	380.9	57	111-140	Stand thinned in 2010. Minor amounts of wind damage. Variable stand. A few pockets of white pine. Oak and hardwood understory doing well along northern portions.
37	4130 - Aspen	Sapling Medium	35.6	27	Immature	Patchy stand. Birch, white pine, and red pine also present. 25-30' tall aspen. Some oak regeneration also doing well.
38	4130 - Aspen	Sapling Medium	3.7	5	Immature	Browse damage evident. Regenerating aspen. Regen ranged fro 900 stems an acre to 4100 stems an acre, avg was 2300 stems per acre. 6-10' tall. Little aspen in northern portions.
40	42290 - Natural Mixed Pine	Sawtimber Well	10.6	87	81-110	UNDER PLANTED RED PINE UNDER A RED AND WHITE PINE RESIDUAL. MAJORITY OF THE PLANTRATION FAILED, BUT WHAT TREES SUCCEDED ARE DOING WELL BUT VERY LIMBY. TYPICAL WEEVIL DAMAGED WP (TWISTED AND CROOKED). AREA OF FULLY STOCKED UNDERSTORY.
43	42110 - Planted Red Pine	Poletimber Well	107.7	55	111-140	STAND THINNED 11/16/2009. Scattered large diameter natural red pine. Some minor areas with wind damage. Variable quality, pockets of stunted pine..



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	42210 - Natural Red Pine	Sawtimber Well	15.0	87	141-170	Natural pine that was under planted. Areas where plantation is evident, some pockets are just natural saw log red and white pine. Excellent patches of hawthorn in southern portions.
45	42110 - Planted Red Pine	Poletimber Well	60.3	55	141-170	Thinned 2004 SALE # 009-98-01. Some porcupine damage. Lower stocking and quality in NW. Some large diameter white pine throughout.
46	42110 - Planted Red Pine	Poletimber Well	188.5	55	111-140	Southeast portion thinned in 2004- SALE # 009-98-01. Northwest thinned in 2009. A couple pockets missed and not treated within the stand. Stand over and understory quality varies. Red maple understory heavier in NW. Scattered relic red and white pine.
47	4123 - Red Oak	Sawtimber Well	21.4	102	51-80	Stand thinned in 09, white pine planted 2010. Browse on deciduous regen evident. Western edge of stand slope down a hill and starts to turn into a u-type.
48	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	11.6	55	171-200	Red pine BA 160avg. Several large diameter red and white oak. Portions of plantation not in competition with deciduous species looks good.
50	42210 - Natural Red Pine	Sawtimber Medium	4.5	102	111-140	Jack pine in decline. Oak and white pine working their way into canopy. Bracken and sweet fern. Dispersed camping?
52	42110 - Planted Red Pine	Poletimber Well	13.9	55	171-200	Open pockets. Aspen, oak and jack pine present. Difficult topo in small triangle piece.
54	42110 - Planted Red Pine	Poletimber Well	46.3	55	141-170	Row thinned in 97. Heavy understory in western portions, east is fairly open.
55	42110 - Planted Red Pine	Poletimber Well	19.7	55	141-170	Thinned in 1997. Plenty of sawlogs. Almost called stand a log/pole with 10" diameter. Unerstory varies - fully stocked aspen in some pockets. A couple oaks in canopy in north.
56	42100 - Planted White Pine	Poletimber Well	2.1	55	171-200	Some oak has made it past browse line.
57	4130 - Aspen	Sapling Well	11.1	17	Immature	Aspen looks good. Good looking understory as well. Some oak regen above the browse line. Sparse pockets in middle of finger but stocking picks up again in southern portions.
58	42110 - Planted Red Pine	Poletimber Well	7.1	55	141-170	Thinned in 1997. Sparse area in SE w/ relic pine and a fully stocked understory. Elk activity.
59	42141 - Planted Mixed Pine, Mixed Deciduous	Poletimber Well	9.0	55	141-170	Planted white pine with mixed deciduous. Planting not evident in many areas.
60	42200 - Natural White Pine	Poletimber Well	5.9	57	81-110	Weevil, a couple dead tops. Parent tree in center of stand. White pine slowly expanding. Larger diameter trees have the poorest form.

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 25
Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	14.9	67	81-110	Portion of failed plantation in stand. A few oak saps. A nice shrub understory.
70	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	4.4	55	111-140	A couple large juneberry clumps. Much of plantation hard to see but a few spots still have evident rows.
72	4112 - Maple, Beech, Cherry Association	Sawtimber Poor	5.0	57	1-50	Open grown clumps of red maple mixed with upland brush.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	3204 - Mast Producing Shrub	1.8	No	Pocket of u-type. Area should be protected if pine stand is entered for treatment.
6	3204 - Mast Producing Shrub	11.5	No	U-type filling in with trees. Quaking aspen is poor quality. Oak sapling are in good condition.
21	3301 - Low Density Deciduous Tree	67.2	No	Stand Year Origin 2009. Stand did not regenerate well as a whole. A nice couple pockets of aspen 10' tall but majority of stand is now upland brush with scattered deciduous trees. A few pockets of small diameter aspen were not harvested. This stand has now been combined with surrounding u-type for mapping purposes.
35	3204 - Mast Producing Shrub	147.2	No	All tree species are represented in sap, pole, and log. Excellent shrub component throughout the u-type. Many old relic pine stumps. Sweet fern and blueberry throughout. A stick nest found in stand. Eastern finger north of pipeline had a wildfire run through it in April 2010 (10 acres). A couple acres of lowland in south between the red pine plantation.
41	310 - Herbaceous Openland	11.8		Planted 5/11/2012. Most of red pine not tall enough to be recorded as canopy species. Can see the tops of a couple sticking out of the snow. Some pole sized white pine left in northern portions. Only 3-4 acres of stand were roller chopped and planted.
49	510- Water (OI)	5.3	No	Old evidence of beaver activity.
53	3301 - Low Density Deciduous Tree	25.8	No	Southwest portions have the most open ground. Plenty of sweet fern.
66	3204 - Mast Producing Shrub	10.2	No	Recommend disposal.
67	3301 - Low Density Deciduous Tree	9.9	No	Recommend disposal.
68	3104 - Degraded	2.4	No	Facility. Multiple buildings and storage tanks. 8' fence with barbed wire. ENERVEST OPERATING-ASE 3A STATE FACILITY.
69	790 - Other Bare/Sparsely Vegetate	8.7	No	CPF. Multiple buildings and storage tanks. Eastern edge has developed into a u-type.
71	3209 - Upland Shrub (OI)	5.0	No	Stand is filling in. Right around 25% canopy coverage. Sweet fern.
400	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING- STATE CHESTER 4-25
401	3104 - Degraded	1.0	No	Well site. POISON GAS. ENERVEST OPERATING- STATE CHESTER 8-25. Small building on site.
402	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING-STATE CHESTER 3-25. Pipe and fuel line stored on site.



Stand	Cover Type	Acres	Managed Site	General Comments:
403	3104 - Degraded	2.4	No	Abandoned well site. Restoration needed.
404	3104 - Degraded	1.5	No	Well site. Solar panel- Could not see well head? Looks like it was covered with snow by a loader?
405	3104 - Degraded	2.2	No	Well site. ENERVEST- STATE CHESTER D1-25. Multiple buildings.
406	3104 - Degraded	0.7	No	Well site. ENERVEST OPERATING-STATE CHESTER 7-25
407	3104 - Degraded	1.1	No	Well site. ENERVEST OPERATING-STATE CHESTER 6-25
408	3104 - Degraded	1.0	No	Well site. ENERVEST OPERATING-STATE CHESTER 5-25
409	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING-STATE CHESTER 9-25
410	3104 - Degraded	1.5	No	Well site. ENERVEST OPERATING-STATE CHESTER 8-26
411	3104 - Degraded	1.5	No	Well site. ENERVEST OPERATING-STATE CHESTER 6-35
412	3104 - Degraded	0.9	No	Well site. ENERVEST OPERATING-STATE CHESTER 7-26
413	31029 - Grass (OI)	1.4	No	Well site - abandoned. Sweet fern and knappweed
414	3104 - Degraded	2.7	No	Abandoned well site. Small brush pile in center of stand. Extensive knapp weed.
415	3104 - Degraded	1.7	No	OPIC - FMD: abandoned. Need restoration. Extensive knappweed coverage.
416	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING-STATE CHESTER 5-26. Small building on
417	3104 - Degraded	4.3	No	A well site along with multiple tanks and out buildings. CORE ENERGY-STATE CHESTER 1-27
419	3104 - Degraded	2.3	No	Well site. Enervest Operating LLC, STATE CHESTER 2-27. Building/shed on site.
420	31029 - Grass (OI)	2.4	No	Well site. ENERVEST OPERATING - STATE CHESTER 6-22.
421	3104 - Degraded	2.3	No	OPIC - FMD: abandoned well site. Site has been this way for over 10 yrs.



Stand	Cover Type	Acres	Managed Site	General Comments:
422	3104 - Degraded	1.8	No	Well site. ENERVEST OPERATING- STATE CHESTER M1-27
423	3302 - Low Density Conifer Trees	3.1	No	Abandoned well. Efforts to reclaim are visible. Planted jack pine and grasses evident. Knapweed and mullen present. Aspen saplings found around perimeter.
424	3104 - Degraded	1.3	No	Well site. ENERVEST OPERATING-NML & O 2-34
425	3104 - Degraded	3.9	No	Well site. ENERVEST OPERATING-STATE CHESTER 10-34. 1 small building. Clumps of cherry, aspen, and juneberry.
426	3201 - Sweet Fern	1.5	No	Abandoned site. Could see sweet fern poking out of snow.
427	3104 - Degraded	0.9	No	Well site. ENERVEST OPERATING-STATE CHESTER 7-34
428	3104 - Degraded	4.3	No	Well site. MERIT ENERGY-STATE CHESTER L 2-34. Storage tanks, small building, and misc debris. Western portion looks like an abandoned pad?
429	31029 - Grass (OI)	1.4	No	Well site. ENERVEST OPERATING-STATE CHESTER8-34
430	3104 - Degraded	0.9	No	Well site. ENERVEST OPERATING LLC-STATE CHESTER 2-35 knapweed
431	3104 - Degraded	1.0	No	Well site. ENERVEST OPERATING-STATE CHESTER 7-35.
432	3101 - Poverty Grass, Cladonia	13.4	No	A pine baron community (MNF1). Open areas covered with sweet fern starting to fill in with trees. Portions of remnant failed plantation.
433	3104 - Degraded	1.1	No	Well pad. ENERVEST OPERATING- STATE CHESTER (ASE#5) #3-35. knapweed
434	31029 - Grass (OI)	1.0	No	Well site. ENERVEST OPERATING-STATE CHESTER 8-35
435	3104 - Degraded	1.2	No	Well site. EVERVEST OPERATING-STATE CHESTER 5-35. Some pine seeding in on site.
436	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING-STATE CHESTER 4-35. Small building on site
437	3104 - Degraded	0.9	No	Well site. ENERVEST OPERATING- STATE CHESTER 4-36. Small building on site.
438	3104 - Degraded	1.1	No	Well site. ENERVEST OPERATING-STATE CHESTER 9-36. Some pine filling in around perimeter.



Stand	Cover Type	Acres	Managed Site	General Comments:
439	310 - Herbaceous Openland	2.0	No	Small opening, elk activity. RPP remnants, scattered cherry brush.
440	31029 - Grass (OI)	6.6	No	One storage tank, solar panel, and multiple monitoring wells on sight. Pines have been planted on site. Could see the tops of a couple peaking out of the snow. Sweet fern and knapp weed.
441	3104 - Degraded	1.6	No	Well site. STATE CHESTER 3-36. Small building on site.
442	3104 - Degraded	1.3	No	Well site. ENERVEST OPERATING-STATE CHESTER 10-36
445	3105 - Mixed Upland Herbaceous	15.9	No	powerline
446	3105 - Mixed Upland Herbaceous	37.7	No	power line and pipeline
450	3105 - Mixed Upland Herbaceous	19.1	No	An old berm can be found in stand. Miscellaneous upland brush and trees.
451	3104 - Degraded	1.4	No	Abandoned well site. Restoration needed.
452	3104 - Degraded	1.0	No	ENERVEST OPERATING-STATE CHESTER 4-34. Solar panel on site
453	3104 - Degraded	1.2	No	Well site. ENERVEST OPERATING-STATE CHESTER3-34
454	3104 - Degraded	1.4	No	Well site. STATE CHESTER 1-34