



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 105

ENTRY YEAR: 2012

ACREAGE: 3,579

COUNTY: Emmet

Revision Date: 05/27/2010

Stand Examiner: Don Stacks

Legal Description: T37N R06W Sec. 23 – 27, 34 – 36.

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

Soil and Topography: Emmet and Blue Lakes loamy sands located on many rolling hills, some with very steep slopes.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment contains a large amount of fairly contiguous state ownership. The private ownership adjacent to the compartment consists mostly of permanent residences, some located on larger parcels. Some of these parcels currently have pine plantations or pasture located on them.

Unique, Natural Features: Red shouldered hawks have been documented near this compartment boundary in the last decade.

Archeological, Historical, and Cultural Features: None listed.

Special Management Designations or Considerations: Two MIMS plots were established in 1996 by DNR Forest Health Specialists in the SWSW of section 27. Also, a beech scale spread rate study occurred within the compartment from 2007 – 2009 by Michigan State University.

Watershed and Fisheries Considerations: This compartment is in the Maple River watershed, part of the larger Cheboygan River watershed. There are numerous intermittent streams and springs in this

compartment. A 100' no-clear cut buffer should be maintained next to waterbodies, pursuant to BMP guidelines.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of coarse textured glacial till (highlands) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1000 feet. The Devonian Detroit River formation subcrops below the glacial drift and is mined for salt in the Detroit area. Gravel pits are located north and it appears the majority of the State acreage has good gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 25 miles to the southeast. There is no known oil and gas potential in the area.

Vehicle Access: Vehicle access is good throughout the compartment by means of numerous permanent and seasonal county roads and forest two-track roads.

Survey Needs: None needed on prescribed treatment areas.

Recreational Facilities and Opportunities: A designated snowmobile trail and the North Country Pathway hiking trail run through the compartment.

Fire Protection: The Pellston Field Office is located approximately 10 miles to the east and the Readmond Township VFD is located about 3 miles to the west.

Additional Compartment Information:

- **The following 3 reports from the IFMAP Inventory System are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

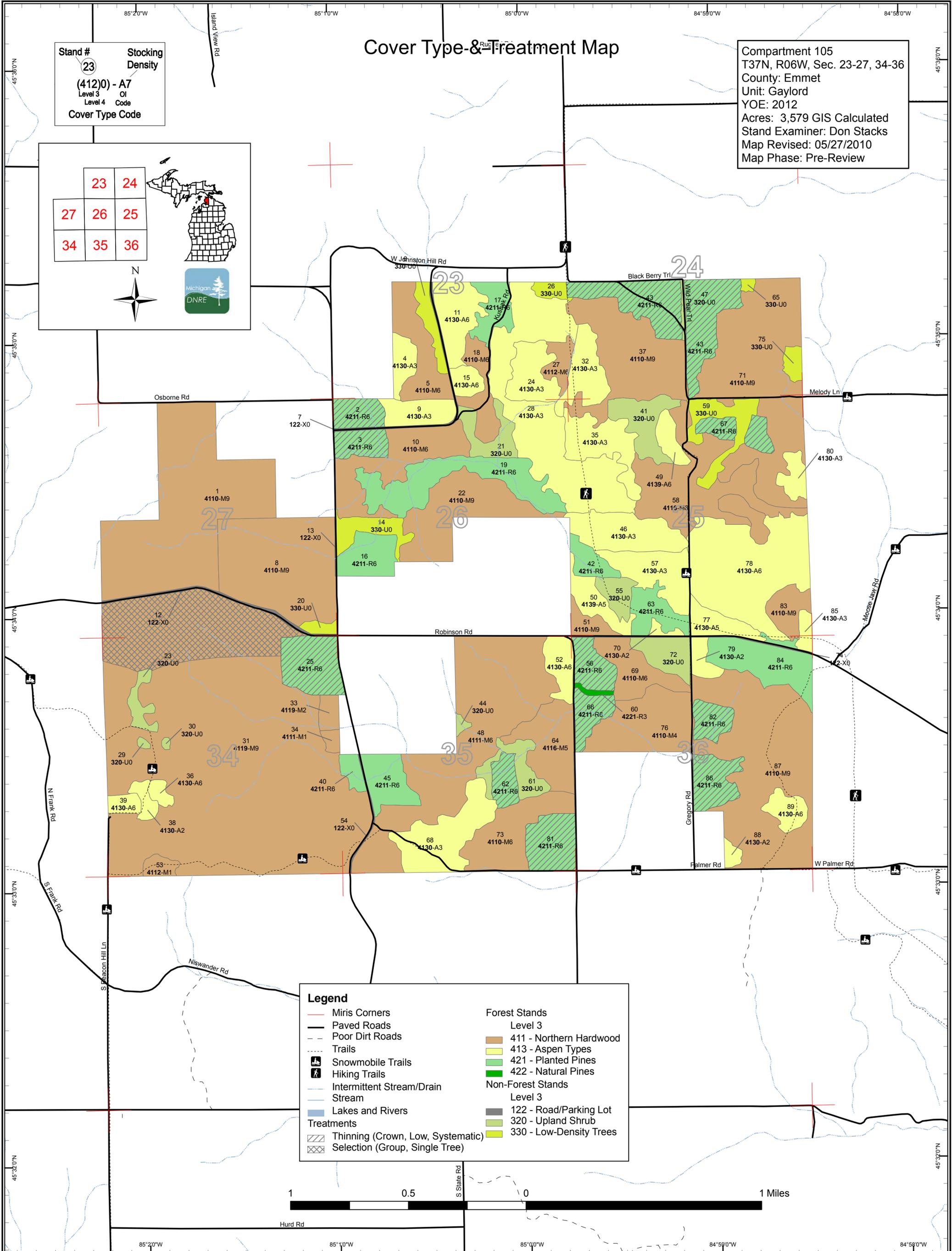
- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential and current SCA's**

Cover Type & Treatment Map

Compartment 105
 T37N, R06W, Sec. 23-27, 34-36
 County: Emmet
 Unit: Gaylord
 YOY: 2012
 Acres: 3,579 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 05/27/2010
 Map Phase: Pre-Review

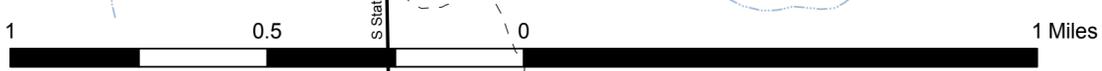
Stand #
23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

23	24
27	26
34	35
36	



Legend

— Miris Corners	Forest Stands
— Paved Roads	Level 3
- - - Poor Dirt Roads	411 - Northern Hardwood
- - - Trails	413 - Aspen Types
⊞ Snowmobile Trails	421 - Planted Pines
⊞ Hiking Trails	422 - Natural Pines
- - - Intermittent Stream/Drain	Non-Forest Stands
- - - Stream	Level 3
— Lakes and Rivers	122 - Road/Parking Lot
▨ Thinning (Crown, Low, Systematic)	320 - Upland Shrub
▨ Selection (Group, Single Tree)	330 - Low-Density Trees



85°20'W 85°10'W 85°00'W 84°50'W 84°40'W

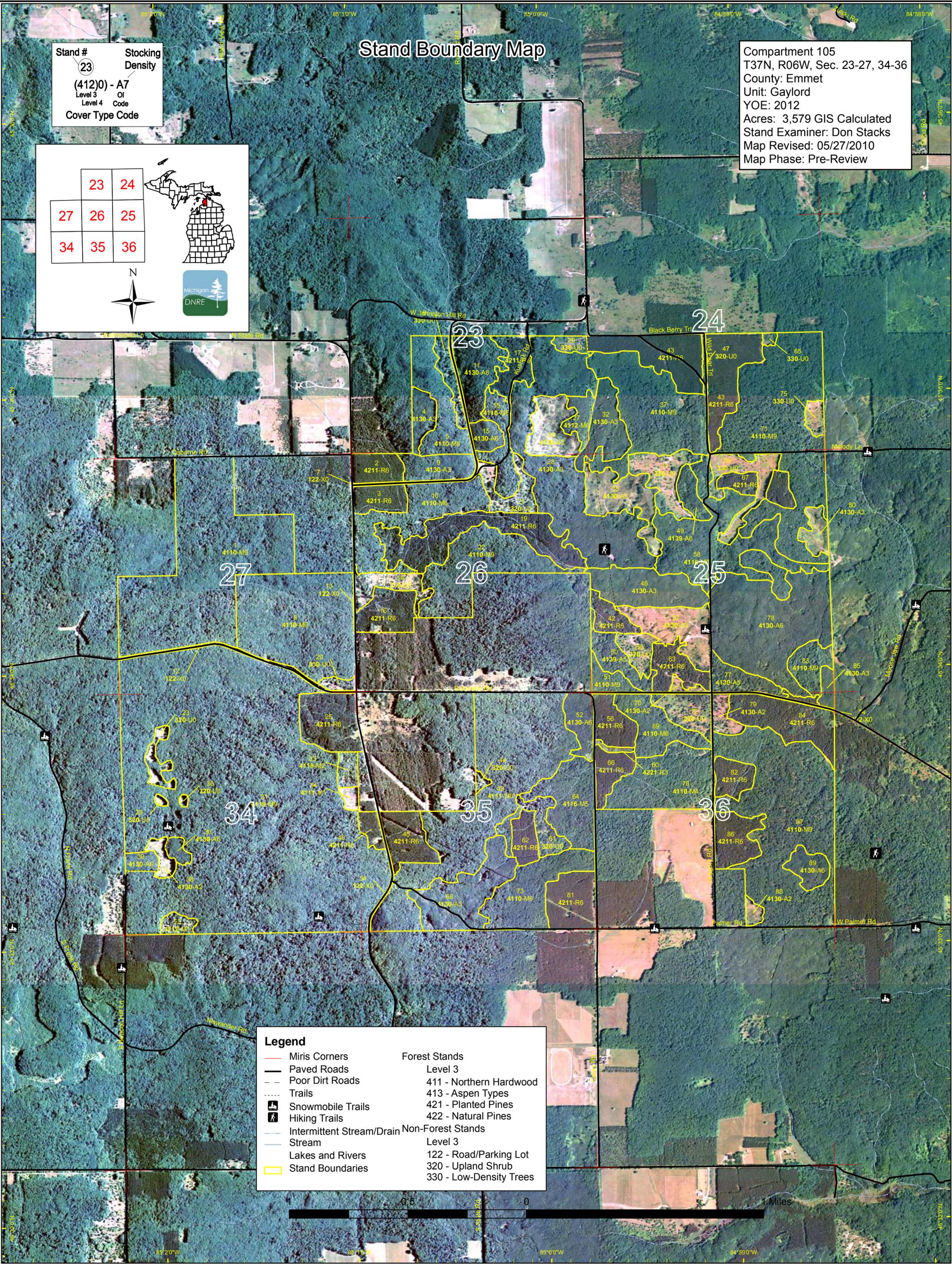
45°36'0"N 45°35'0"N 45°34'0"N 45°33'0"N 45°32'0"N

Stand Boundary Map

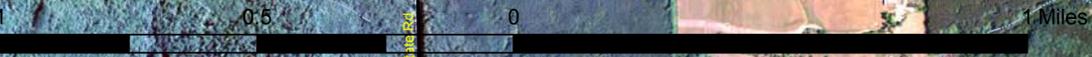
Compartment 105
 T37N, R06W, Sec. 23-27, 34-36
 County: Emmet
 Unit: Gaylord
 YOY: 2012
 Acres: 3,579 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 05/27/2010
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

23	24
27	26
34	35
36	



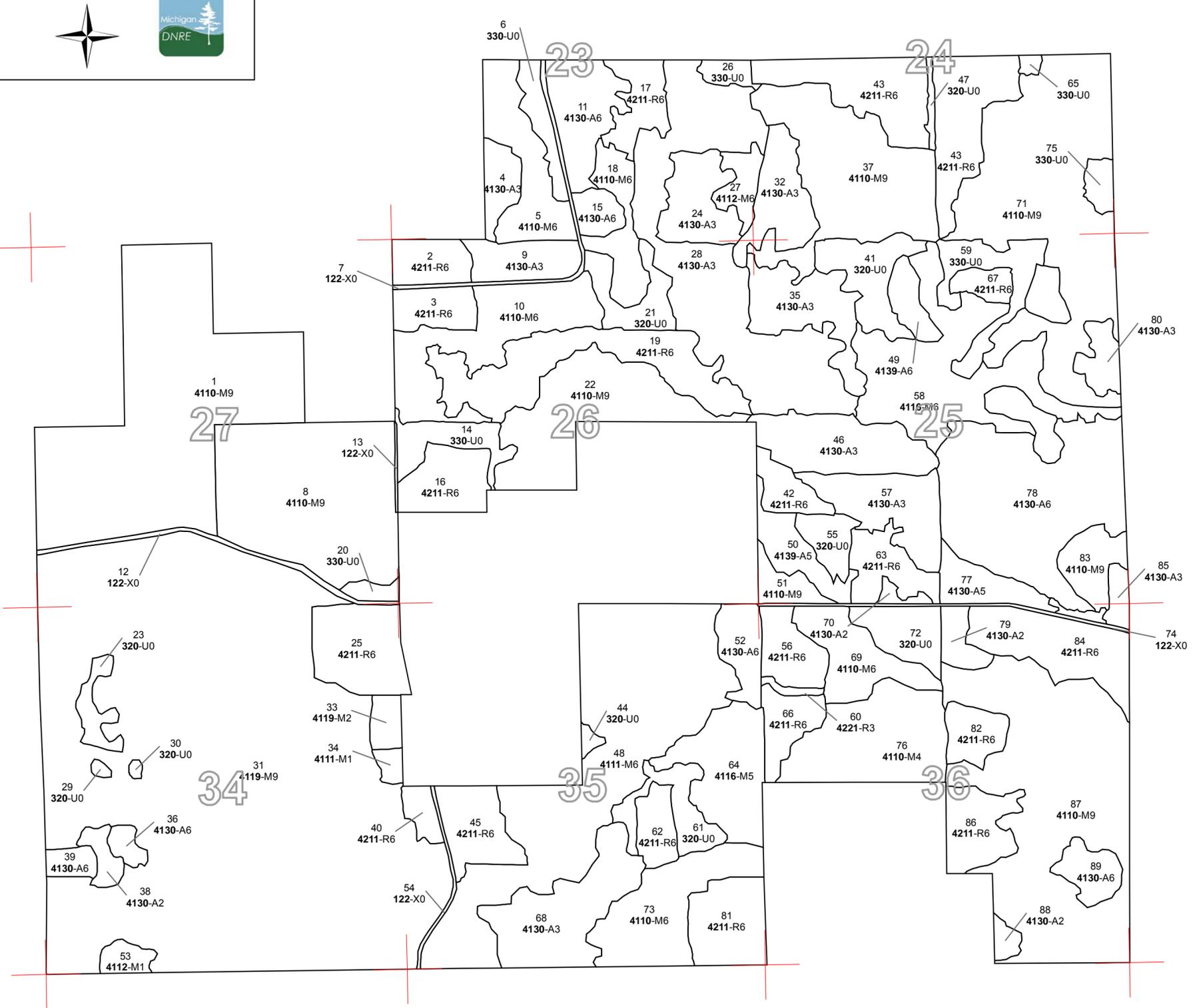
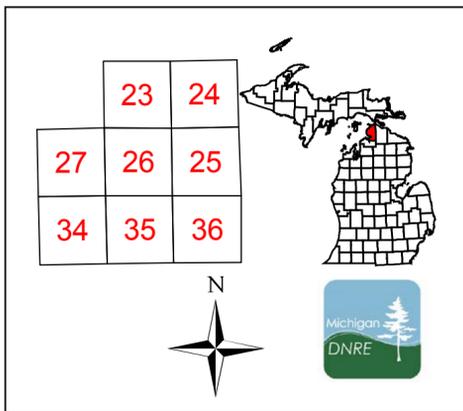
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|---------------------------|-------------------------|
| Miris Corners | Forest Stands |
| Paved Roads | Level 3 |
| Poor Dirt Roads | 411 - Northern Hardwood |
| Trails | 413 - Aspen Types |
| Snowmobile Trails | 421 - Planted Pines |
| Hiking Trails | 422 - Natural Pines |
| Intermittent Stream/Drain | Non-Forest Stands |
| Stream | Level 3 |
| Lakes and Rivers | 122 - Road/Parking Lot |
| Stand Boundaries | 320 - Upland Shrub |
| | 330 - Low-Density Trees |



Dedicated & Proposed Special Conservation Area Map

Compartment 105
 T37N, R06W, Sec. 23-27, 34-36
 County: Emmet
 Unit: Gaylord
 YOY: 2012
 Acres: 3,579 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 05/27/2010
 Map Phase: Pre-Review

Stand #
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend
 — Miris Corners
 □ Stand Boundaries
Forest Stands
 Level 3
 411 - Northern Hardwood
 413 - Aspen Types
 421 - Planted Pines
 422 - Natural Pines
Non-Forest Stands
 Level 3
 122 - Road/Parking Lot
 320 - Upland Shrub
 330 - Low-Density Trees



Table 1 – Total Acres by Cover Type and Age Class
 (Level 3 Cover Type)



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Uneven Age
Aspen Types	0	138	84	215	173	18	19	11	0	33	0	0	0	0	0	692
Low-Density Trees	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76
Natural Pines	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	4	7	8	0	0	107	61	533	471	957	0	0	0	0	2148
Planted Pines	0	0	0	25	0	0	455	37	0	0	0	0	0	0	0	517
Road/Parking Lot	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Upland Shrub	118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118
Total	218	143	94	249	173	18	581	110	533	503	957	0	0	0	0	3579



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2012

Compartment 105
Total Compartment Acres: 3579

Acres by Treatment Type

Commercial Harvest - 422	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Northern Hardwood	0	130	0	0	0	0	0	130
Red Pine	0	0	0	0	292	0	0	292
Total	0	130	0	0	292	0	0	422

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2 52105002-THIN	16.6	42110 - Planted Red Pine	High Density Pole	52	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Mark and thin stand down to 90-120 sq. ft. BA this Y.O.E. Treat with the stand located to south on opposite side of W. Van Rd.

Specs:

Other Comments: Heavily stocked red pine poletimber stand. Stand was row-thinned about 15 years ago. Very clean understory. Adjacent to State and W. Van Rds.

Next Steps:

3 52105003-THIN	16.6	42110 - Planted Red Pine	High Density Pole	52	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark and thin stand down to 100-120 sq. ft. of BA this Y.O.E. Treat this stand with the red pine stand to the north on opposite side of W. Van Rd.

Specs:

Other Comments: Heavily stocked stand of red pine poletimber. Stand was row-thinned in 1994. Adjacent to State and W. Van Rds. Light hardwood understory.

Next Steps:

25 52105025-THIN	37.4	42110 - Planted Red Pine	High Density Pole	60	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Prescribe a marked thinning to reduce BA down to about 120 sq. ft. this Y.O.E. Remove larger diameter trees during this harvest before they lose commercial value, and also suppressed red pine poletimber.

Other Comments: Red pine stand in transition from poletimber to sawlogs. Stand was acquired in 1994. Pockets of trees were lost to an ice storm in 1995. Heavy shrub, hardwood and aspen saps in understory at present. On rolling hills, adjacent to State and Robinson Rds.

Next Steps:

31 52105031-SELECTION_small	129.6	4119 - Mixed Northern Hardwoods	High Density Log	90	Harvest	Single Tree Selection	S.Maple, Hard Mast Association	Cmpt. Review Proposal
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Prescription Higher BA at present time in northern 1/3 of stand, adjacent to Robinson Rd. Prescribe a selection harvest for this area this Y.O.E. Mark BA to about 75 - 80 sq. ft.

Other Comments: High quality northern hardwood sawtimber/poletimber stand south of Robinson Rd. Many rolling hills throughout stand but most are operable for equipment. Variable BA throughout stand. Snowmobile trail present in southernmost part of this stand. Beech scale present throughout stand. Many acres of northern hardwood already prescribed for treatment in section adjacent to the south. Will leave about 3/4 of a mile untreated hardwood between current prescription in Comp. 105 and treatment to the south in Comp. 104, this Y.O.E.

Next Steps:

43 52105043-THIN	83.7	42110 - Planted Red Pine	High Density Pole	52	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark and thin stand down to about 120 sq. ft. of BA. Concentrate on removing larger diameter and suppressed trees.

Specs:

Other Comments: Nice quality red pine plantation, mostly poletimber with scattered sawlog trees. West half of stand had 50% of the basal area removed in the mid 1990's. East half of stand was marked and thinned in 2004. BA is high enough presently to allow another marked thinning for the whole stand this Y.O.E. Light hardwood understory.

Next Steps:



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	52105056- THIN	19.8	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> High BA presently. Prescribe a marked thinning, reducing BA down to about 120 sq. ft. Access from Palmer Rd. to the south. Palmer Rd. also serves as a designated snowmobile trail, so harvesting operations will be limited to non-winter months.</p> <p><u>Other</u> Red pine plantation, mostly poletimber with a few scattered sawlog trees. Stand was row-thinned in 1994. Mostly clean understory.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
62	52105062- THIN	13.8	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark and thin stand down to about 120 sq. ft. of BA this Y.O.E. Non-winter harvest due to designated snowmobile trail.</p> <p><u>Other</u> Red pine plantation, mostly poletimber, with a few trees reaching sawtimber diameters. Stand was row- thinned about 1992. Fairly good quality stems. Dense mixed hardwood understory.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
66	52105066- THIN	17.0	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Prescribe a marked thinning to reduce BA down to about 120 sq. ft. Access from Palmer Rd., to the south. Non-winter harvest operations only because of snowmobile trail on Palmer Rd.</p> <p><u>Other</u> Red pine plantation, mostly poletimber, with a few scattered sawlog trees. Stand was row-thinned in 1994. Higher BA at present. Lighter hardwood understory, except for south 1/4 of stand.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
67	52105067- THIN	17.0	42110 - Planted Red Pine	High Density Pole	54	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark and thin this stand down to about 120 sq. ft. of BA this Y.OE. Non-winter harvest because of designated snowmobile trail on Melody Lane and Gregory Road.</p> <p><u>Other</u> Two separate red pine plantations, separated by an opening with a two-track running through. High BA at present time. Eastern stand has a couple of rows of white pine planted for about every twelve rows of red pine. Two separate red pine plantations, separated by an opening with a two-track running through. High BA at present time. Eastern stand has a couple of rows of white pine planted for about every twelve rows of red pine. Mostly poletimber with a few sawlog trees. More dense understory in east plantation.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
81	52105081- THIN	30.7	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark and thin red pine down to about 120 sq. ft. of BA. Non-winter harvest due to presence of designated snowmobile trail.</p> <p><u>Other</u> Red pine poletimber stand with a few sawtimber-sized trees scattered throughout stand. Fairly good form and quality. Stand was row-thinned in 1992. Mostly clean understory. Adjacent to county roads and snowmobile trail.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									
82	52105082- THIN	15.1	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Thin this stand, with red pine stand 1/4 south, this Y.O.E. Mark stand down to about 120 sq. ft. BA. Harvest operations will take place only during non-winter months because of snowmobile trail on Gregory Rd.</p> <p><u>Other</u> Red pine plantation, mostly poletimber, with a lesser amount of sawlogs present. Stand was row-thinned in 1992. Good quality. Fairly dense hardwood sapling understory. Adjacent to Gregory Rd., which also serves as a snowmobile trail.</p> <p><u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>									

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
86	52105086-THIN	24.5	42110 - Planted Red Pine	High Density Pole	53	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription: Thin this stand, along with red pine stand 1/4 north, this Y.O.E. Mark stand down to about 120 sq. ft. of BA. Harvest operations will only take place during non-winter months because of the snowmobile trail.

Other Comments: Red pine plantation, mostly poletimber, with a lesser amount of sawlogs present. Stand was row-thinned in 1992. Good quality. Fairly dense hardwood sapling understory. Adjacent to Gregory Rd., which also serves as a snowmobile trail.

Next Steps:

**Total Treatment
Acreage Proposed: 421.7**

Table 4 -- Treatments Prescribed with a Limiting Factor



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Stand	Gaylord Mgt. Unit			5 – Forested Stands		Compartment: 105
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
1	4110 - Sugar Maple Association	High Density Log	215.1	90	81-110	High quality northern hardwoods on rolling hills. Nice mix of sawtimber/poletimber.
2	42110 - Planted Red Pine	High Density Pole	16.6	52	171-200	Heavily stocked red pine poletimber stand. Stand was row-thinned about 15 years ago. Very clean understory. Adjacent to State and W. Van Rds.
3	42110 - Planted Red Pine	High Density Pole	16.6	52	200+	Heavily stocked stand of red pine poletimber. Stand was row-thinned in 1994. Adjacent to State and W. Van Rds. Light hardwood understory.
4	4130 - Aspen	High Density Sapling	12.9	17		Aspen regen on ridge from 1993 final harvest. Adjacent to private property.
5	4110 - Sugar Maple Association	High Density Pole	39.4	78	81-110	Northern hardwood stand located on a north - south running ridge adjacent to W. Van Rd. Mix of poletimber/sawtimber, mostly sugar maple, at present time. Quality is fairly good. BA is slightly low.
8	4110 - Sugar Maple Association	High Density Log	125.9	85	81-110	Stand has high quality sawtimber/poletimber with a slightly lower BA at present time, on hilly terrain. North half of stand was acquired by the State of Michigan in 2001. Adjacent to State and Robinson Rds.
9	4130 - Aspen	High Density Sapling	20.8	28		Mixed aspen/northern hardwood stand in transition from saps to poletimber. Adjacent to W. Van Rd.
10	4110 - Sugar Maple Association	High Density Pole	61.4	65	81-110	Stand consists of a mix of northern hardwood poletimber. Quality is not that great. There is a good sugar maple sapling component in the stand that should produce crop trees in the future. Adjacent to W. Van Rd.
11	4130 - Aspen	High Density Pole	32.8	80	51-80	Stand consists of mixed aspen/northern hardwood poletimber located on a north-south running ridge. The west half of this stand is adjacent to W., Van Rd. The aspen overstory is somewhat sparse, except for a few dense clones, with some decline present. The understory consists of dense, advanced northern hardwood saps, mostly sugar maple and beech.
15	4130 - Aspen	High Density Pole	9.7	33	51-80	Small aspen stand in transition from saplings to young poletimber from 1977 final harvest. Located on west-facing side slope adjacent to county road. Understory consists of mixed northern hardwood saplings.
16	42110 - Planted Red Pine	High Density Pole	25.3	27	141-170	Young red pine stand just reaching small poletimber, about 3 sticks. Scattered hardwood found throughout stand. Adjacent to State Rd. and private property.
17	42110 - Planted Red Pine	High Density Pole	19.5	52	111-140	Lesser stocked red pine plantation, mostly poletimber with a few sawlog trees present. Every third row of red pine, along with all hardwood and aspen, was removed in 1992.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4110 - Sugar Maple Association	High Density Pole	23.7	82	81-110	Fair quality northern hardwood, mostly sugar maple poletimber. Stand is located on a north-south running ridge. Slightly lower BA at the present time.
19	42110 - Planted Red Pine	High Density Pole	66.2	52	141-170	Red pine plantation in transition from poletimber to sawtimber. Slightly lower BA at present time. Dense hardwood understorey. North Country Pathway runs through east end of the plantation. Plantation had every third row of red pine and all hardwood and aspen removed in 1992.
22	4110 - Sugar Maple Association	High Density Log	71.2	81	81-110	Northern hardwood sawtimber/poletimber stand, on rolling hills, some of which are steep. Larger diameters are located in the eastern half of the stand. Fairly nice quality. Adjacent to private property. BA slightly low at this time.
24	4130 - Aspen	High Density Sapling	27.9	7		Mixed aspen/northern hardwood regen from 2003 final harvest.
25	42110 - Planted Red Pine	High Density Pole	37.4	60	171-200	Red pine stand in transition from poletimber to sawlogs. Stand was acquired in 1994. Pockets of trees were lost to an ice storm in 1995. Heavy shrub, hardwood and aspen saps in understorey at present. On rolling hills, adjacent to State and Robinson Rds.
27	4112 - Maple, Beech, Cherry Association	High Density Pole	11.6	89	81-110	Small hardwood stand, mostly poletimber, just starting to produce sawlogs. Quality is fair. Fairly even mix of sugar maple and beech, with a few scattered basswood and big-toothed aspen. Slightly lower BA at present time.
28	4130 - Aspen	High Density Sapling	134.2	26		Aspen regen in transition from saps to poletimber from 1984 final harvest. North Country Pathway runs through this stand.
31	4119 - Mixed Northern Hardwoods	High Density Log	649.7	90	111-140	High quality northern hardwood sawtimber/poletimber stand south of Robinson Rd. Many rolling hills throughout stand but most are operable for equipment. Variable BA throughout stand. Snowmobile trail present in southernmost part of this stand.
32	4130 - Aspen	High Density Sapling	28.6	16		Mixed aspen/northern hardwood regen from 1994 final harvest. North Country Pathway runs along the west edge of this stand.
33	4119 - Mixed Northern Hardwoods	Medium Density	7.9	20		Stand consists of young northern hardwood encroaching in from the west, scattered upland brush, and scotch pine saplings left over from previous harvest to the south. Adjacent to private on east.
34	4111 - S.Maple, Hard Mast Association	Low Density Sapling	4.1	7		Mixed hardwood/aspen saplings from scotch pine final harvest in 2003.
35	4130 - Aspen	High Density Sapling	36.8	7		Mixed aspen/northern hardwood regen from 2003 final harvest.
36	4130 - Aspen	High Density Pole	5.4	35	51-80	Aspen stand in transition from saps to small poletimber.

S t a n d	Gaylord Mgt. Unit		5 – Forested Stands			Compartment: 105	Michigan DNRE
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Inventory Method: IFMAP	
							General Comments:
37	4110 - Sugar Maple Association	High Density Log	92.5	91	111-140	High quality mix of northern hardwood sawtimber/poletimber. Many larger diameter trees at present but not overly crowded at this point. Hold selection harvest for 10 years.	
38	4130 - Aspen	Medium Density	7.4	6		Mixed aspen/northern hardwood regen from 2004 final harvest.	
39	4130 - Aspen	High Density Pole	7.0	35	1-50	Aspen/mixed hardwood in transition from saps to poletimber.	
40	42110 - Planted Red Pine	High Density Pole	7.8	53	141-170	Red pine poletimber stand with scattered sawlogs present. Stand was thinned in 2003, resulting in a slightly lower BA this Y.O.E. Sparse hardwood understory. Adjacent to State Rd. and private residence.	
42	42110 - Planted Red Pine	High Density Pole	13.1	52	141-170	Red pine plantation in transition from poletimber to sawtimber. Lower BA at present time. Dense hardwood and shrub understory. North Country Pathway runs through stand.	
43	42110 - Planted Red Pine	High Density Pole	83.7	52	171-200	Nice quality red pine plantation, mostly poletimber with scattered sawlog trees. West half of stand had 50% of the basal area removed in the mid 1990's. East half of stand was marked and thinned in 2004. BA is high enough presently to allow another marked thinning for the whole stand this Y.O.E. Light hardwood understory.	
45	42110 - Planted Red Pine	High Density Pole	25.7	53	141-170	Red pine poletimber with a few scattered sawlogs present. Stand was thinned in 2003. Lower BA at this time. Adjacent to State Rd. and private ownership.	
46	4130 - Aspen	High Density Sapling	42.9	18		Mixed aspen saps from 1992 final harvest.	
48	4111 - S.Maple, Hard Mast Association	High Density Pole	180.6	70	81-110	Mix of northern hardwood poletimber, with a lesser amount of sawtimber. Fair quality. Lower BA at present.	
49	4139 - Aspen, Mixed Deciduous	High Density Pole	11.3	66	51-80	Mix of big-toothed aspen/northern hardwood, mostly poletimber, on west-facing slope. Unevenly stocked with areas of dense clones surrounded by areas of sparse hardwood. Not very good quality.	
50	4139 - Aspen, Mixed Deciduous	Medium Density Pole	18.8	58	1-50	Stand consists of a sparse mix of quaking aspen poletimber, with scattered sugar maple and black cherry. Dense mix of shrubs in understory, with a few apple trees present.	
51	4110 - Sugar Maple Association	High Density Log	10.3	84	81-110	Small stand of northern hardwood, mostly sugar maple. Mix of sawtimber and poletimber though slightly understocked at this time. Adjacent to Robinson Rd.	
52	4130 - Aspen	High Density Pole	17.7	33	51-80	Young aspen stand in transition from saps to poletimber. Adjacent to Robinson and Cetas Rds.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	4112 - Maple, Beech, Cherry Association	Low Density Sapling	7.1	10		Upland brush stand that has converted to a mixed northern hardwood sapling stand, with a few scattered red pine saplings and juniper shrubs.
56	42110 - Planted Red Pine	High Density Pole	19.8	53	171-200	Red pine plantation, mostly poletimber with a few scattered sawlog trees. Stand was row-thinned in 1994. Mostly clean understory.
57	4130 - Aspen	High Density Sapling	37.4	6		Mixed aspen regen from 2004 final harvest. Heavy berry brush ground cover.
58	4116 - Mixed N. Hardwood - Aspen	High Density Pole	90.8	74	81-110	Stand consists of a mix of northern hardwood, mostly poletimber, with a consistent but lesser amount of big-toothed aspen. Lower BA and smaller hardwood diameters presently. Better quality on west side of Gregory Rd. Dense understory in stand on east side of Gregory Rd.
60	42210 - Natural Red Pine	High Density Sapling	2.5	14		Small stand of young, natural red pine seedlings that have filled in a landing area to the adjacent pine plantations on either side.
62	42110 - Planted Red Pine	High Density Pole	13.8	53	200+	Red pine plantation, mostly poletimber, with a few trees reaching sawtimber diameters. Stand was row- thinned about 1992. Fairly good quality stems. Dense mixed hardwood understory.
63	42110 - Planted Red Pine	High Density Pole	21.6	52	81-110	Lesser stocked red pine plantation in transition from poletimber into sawtimber. Lower BA at present time. Dense hardwood understory. Adjacent to Robinson Rd. and North Country Pathway.
64	4116 - Mixed N. Hardwood - Aspen	Medium Density Pole	45.2	56	1-50	Stand consists of lesser stocked, poor quality mixed northern hardwood and scattered sparse mixed aspen in the overstory, with a dense growth of hardwood and shrubs in the understory.
66	42110 - Planted Red Pine	High Density Pole	17.0	53	171-200	Red pine plantation, mostly poletimber, with a few scattered sawlog trees. Stand was row-thinned in 1994. Higher BA at present. Lighter hardwood understory, except for south 1/4 of stand.
67	42110 - Planted Red Pine	High Density Pole	17.0	54	171-200	Two separate red pine plantations, separated by an opening with a two-track running through. High BA at present time. Eastern stand has a couple of rows of white pine planted for about every twelve rows of red pine. Mostly poletimber with a few sawlog trees. More dense understory in east plantation.
68	4130 - Aspen	High Density Sapling	54.3	27		Well-stocked mixed aspen stand, with a lesser amount of northern hardwood, in transition from saplings to small poletimber.
69	4110 - Sugar Maple Association	High Density Pole	32.0	80	81-110	Fair quality mixed northern hardwood, mostly poletimber. Lesser amounts of BTA found throughout stand. Slightly lower BA at present.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
70	4130 - Aspen	Medium Density	3.1	6		Aspen regen from 2004 final harvest. A few scattered large RP and WP trees found within stand. Adjacent to Robinson Rd.
71	4110 - Sugar Maple Association	High Density Log	170.9	74	51-80	Fairly nice quality northern hardwood stand. Nice mix of sawtimber and poletimber. Stand was thinned in 2002. Dense hardwood regen in understory following harvest.
73	4110 - Sugar Maple Association	High Density Pole	51.1	77	81-110	Mix of fair quality mixed northern hardwood, mostly poletimber with a lesser sawtimber component. Adjacent to Cetas Rd. and Palmer Rd (designated snowmobile trail).
76	4110 - Sugar Maple Association	Low Density Pole	61.9	50	1-50	Sparse overstory of poor quality mixed hardwoods over dense hardwood and upland shrub understory.
77	4130 - Aspen	Medium Density Pole	17.9	40	51-80	Stand consists of sparse mixed aspen poletimber with scattered black cherry poles and white pine of various diameters. Dense shrub understory. Adjacent to Robinson Rd. North Country Pathway runs through this stand.
78	4130 - Aspen	High Density Pole	118.9	35	51-80	Dense aspen regen in transition from saps to poletimber from 1975 final harvest. Scattered hardwood poletimber and saps also present.
79	4130 - Aspen	Medium Density	10.0	6		The primary component of the stand is quaking aspen regen with lesser amounts of mixed hardwood and hawthorn/pin cherry brush. A sparse overstory of white pine, red pine, black cherry and sugar maple is also present, possibly for aesthetics.
80	4130 - Aspen	High Density Sapling	11.6	6		Mixed aspen regen, with lesser amounts of northern hardwood regen, from 2004 final harvest.
81	42110 - Planted Red Pine	High Density Pole	30.7	53	141-170	Red pine poletimber stand with a few sawtimber-sized trees scattered throughout stand. Fairly good form and quality. Stand was row-thinned in 1992. Mostly clean understory. Adjacent to county roads and snowmobile trail.
82	42110 - Planted Red Pine	High Density Pole	15.1	53	141-170	Red pine plantation, mostly poletimber, with a lesser amount of sawlogs present. Stand was row-thinned in 1992. Good quality. Fairly dense hardwood sapling understory. Adjacent to Gregory Rd., which also serves as a snowmobile trail.
83	4110 - Sugar Maple Association	High Density Log	18.0	80	81-110	Nice quality stand of mostly sugar maple sawtimber. Slightly lower BA at the present time.
84	42110 - Planted Red Pine	High Density Pole	46.2	53	141-170	Red pine plantation in transition from poletimber to sawtimber. Slightly lower BA at this time. Scattered hardwood, aspen, and white pine throughout stand. Dense hardwood understory. Adjacent to Robinson Rd. North Country Pathway runs through this stand.
85	4130 - Aspen	High Density Sapling	6.2	23		Dense aspen regen from 1987 final harvest. This stand was harvested with the larger acreage stand in the adjacent compartment to the east.

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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 105

Inventory Method: IFMAP

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
86	42110 - Planted Red Pine	High Density Pole	24.5	53	171-200	Red pine plantation, mostly poletimber, with a lesser amount of sawtimber. Stand was row-thinned in 1992. Light hardwood understory. Adjacent to Gregory Rd., which also serves as a designated snowmobile trail.
87	4110 - Sugar Maple Association	High Density Log	177.8	80	81-110	High quality stand of northern hardwood sawtimber. Stand received a selection harvest in 2003 - 2004. Lower post-harvest BA at present time. Lighter hardwood understory with a dense growth of berry brush. Snowmobile trail and North Country Pathway run through center of stand.
88	4130 - Aspen	Medium Density	4.4	6		Aspen regen from 2004 final harvest. Medium range stocking density.
89	4130 - Aspen	High Density Pole	14.1	35	51-80	Mixed aspen stand just reaching small poletimber size class. Some stems are still in the sapling stage. Mixed hardwood saps in the understory. Snowmobile trail runs through the middle of this stand.



Stand	Cover Type	Acres	Gen Cmts:
6	3301 - Low Density Deciduous Tree	12.5	Northern hardwood/aspen saps and small poletimber encroaching into upland shrub stand.
7	122 - Road/Parking Lot	7.2	W. Van Rd.
12	122 - Road/Parking Lot	8.2	Robinson Rd.
13	122 - Road/Parking Lot	1.0	State Rd.
14	3303 - Mixed Low Density Trees	18.5	Open stand with a mix of black cherry, red pine, and scotch pine saps and small poletimber with scattered clumps of hawthorne, sumac, and pin cherry.
20	3303 - Mixed Low Density Trees	4.7	Open area that has filled in with encroaching hardwood saplings and scattered red pine and scotch pine saplings.
21	3204 - Mast Producing Shrub	19.4	Clumps of dense hawthorne with scattered pin cheery and black cherry.
23	3205 - Mixed Upland Shrub	9.8	Stand was clearcut in 2004 to encourage black cherry regen. At present, stand consists of mostly raspberry and scattered hardwood regen.
26	3301 - Low Density Deciduous Tree	6.2	Scattered sugar maple, beech, pin cherry, and red pine saps, with a few juniper clumps.
29	3205 - Mixed Upland Shrub	1.3	Stand was clearcut in 2004 to encourage black cherry regen. At present stand consists of a mix of raspberry and young mixed hardwood regen.
30	3205 - Mixed Upland Shrub	1.0	Stand was clearcut in 2004 to encourage black cherry regen. At present, stand consists of mostly raspberry shrubs and mixed northern hardwood regen.
41	3204 - Mast Producing Shrub	27.5	Large opening with a mix of pin cherry, black cherry, and sumac. A fair amount of apple trees are found in this stand also.
44	3204 - Mast Producing Shrub	2.2	Sparse pin cherry in opening.
47	3204 - Mast Producing Shrub	2.9	Pin cherry, berry brush, and apple trees along seasonal county road.
54	122 - Road/Parking Lot	2.9	State Rd.
55	3204 - Mast Producing Shrub	12.7	Open ground, clumps of dense hawthorn with scattered hardwood and rp/wp saps and small poletimber.



Stand	Cover Type	Acres	Gen Cmts:
59	3302 - Low Density Conifer Trees	25.8	Grass opening which has started to be encroached by naturally grown red pine seedlings which have seeded in from adjacent red pine plantation.
61	3204 - Mast Producing Shrub	20.4	Open stand of hawthorn, pin cherry, and a few small aspen clones.
65	3301 - Low Density Deciduous Tree	2.0	Mostly sugar maple saps, with scattered apple trees, pin cherry, and just a few red pine saplings.
72	3204 - Mast Producing Shrub	20.4	Open upland brush stand with clumps of dense hawthorne, th scattered pin cherry, black cherry, and juniper. A few large white pine are located in this stand. Adjacent to Robinson and Gregory Rds.
74	122 - Road/Parking Lot	5.1	Robinson Rd.
75	3301 - Low Density Deciduous Tree	6.7	Scattered apple trees, scotch pine, pin cheery and hawthorn.



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Inventory Method: IFMAP

Stand	SCA Type	SCA Name	Acres	Comments



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
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