



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 21

ENTRY YEAR: 2012

ACREAGE: 2,826

COUNTY: Otsego

Revision Date: 5/28/2010

Stand Examiner: Tim Greco

Legal Description: T29N R04W Sec. 23, 25, 26, 35 and 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: This compartment ranges from flat to rolling hills to very steep. Dominant upland soil types include Kalkaska and Rubicon sand. These soils are excessively drained, rapidly permeable and common on moraines and outwash plains in this area. The Kolke Creek drainage is dominated by Ausable-Bowstring mucks and scattered poorly drained depressions consist of Dawson peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: This compartment is mostly State ownership with large blocks of private within and adjacent to its boundary. There are significant amounts of smaller 10 – 40 acre private parcels to the west. Gas development is common on both State and private.

Unique, Natural Features: Kolke Creek flows south from Lynn Lake.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: This compartment is in the Lynn Lake and Kolke Creek area, within the Au Sable River watershed. There is currently a 200' buffer planned near water in Stand 16, which is appropriate. There are a number of small bog areas within the compartment. There should be no cutting

in these areas and trees should be left adjacent to the bogs if thinning nearby. Skid trails should not be placed next to or through the bogs.

Wildlife Habitat Considerations: This compartment contains mostly upland areas with the exception of a wetland strip that is associated with Kolke Creek which runs through the middle of this compartment. This wetland component is used by waterfowl, numerous furbearers, and a variety of amphibian species. The upland areas of this compartment consists mostly upland hardwoods, aspen and red pine. Stands 16, 35, and 68 are going to be cut to provide early successional habitat that is preferred by white-tailed deer, turkey, grouse, and woodcock. Stand 121 is going to have two areas treated to provide structural diversity and regenerate some red oak for future mast production.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Coldwater Shale, which has no current economic use. Several gravel pits are located on the uplands including a gravel pit located on State land in Section 26. State lands located on uplands have good gravel potential. Oil and gas potential in the area is primarily for the Niagaran reef and Antrim Shale plays. This compartment has producing wells from both plays on it. All State land in the compartment has been leased for oil and gas development. There is potential for additional oil and gas development in the compartment.

Vehicle Access: Access is good throughout the compartment.

Survey Needs: None.

Recreational Facilities and Opportunities: A segment of the Starvation Lake Snowmobile Trail runs through portions of this compartment.

Fire Protection:

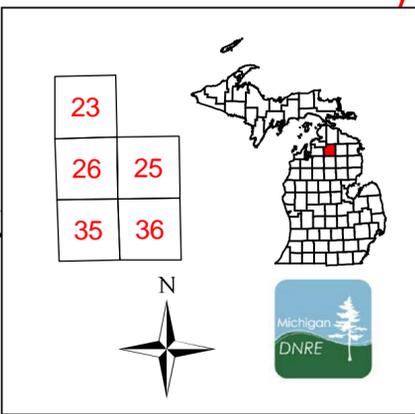
Additional Compartment Information:

- **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**

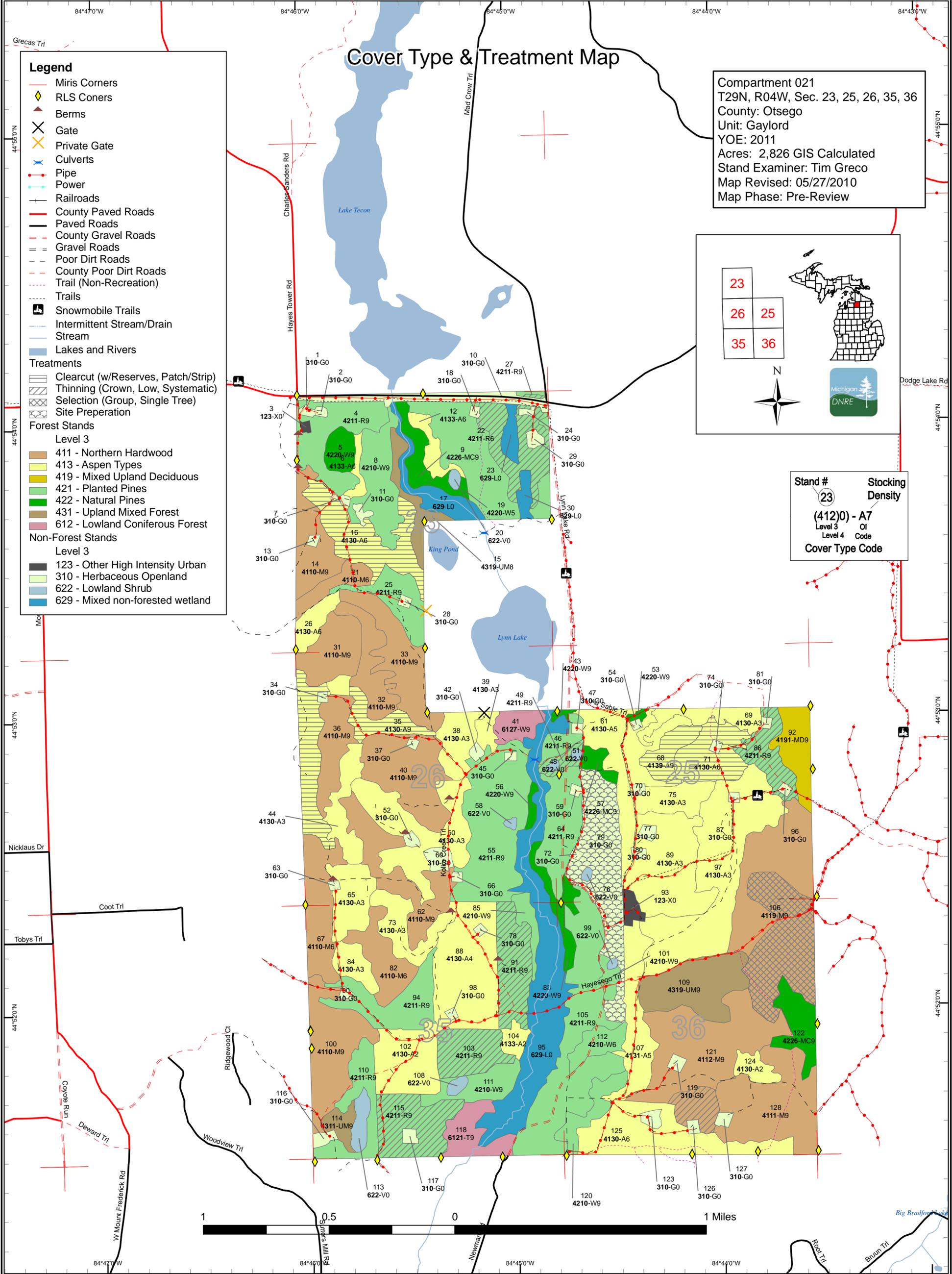
Cover Type & Treatment Map

Compartment 021
 T29N, R04W, Sec. 23, 25, 26, 35, 36
 County: Otsego
 Unit: Gaylord
 YOE: 2011
 Acres: 2,826 GIS Calculated
 Stand Examiner: Tim Greco
 Map Revised: 05/27/2010
 Map Phase: Pre-Review

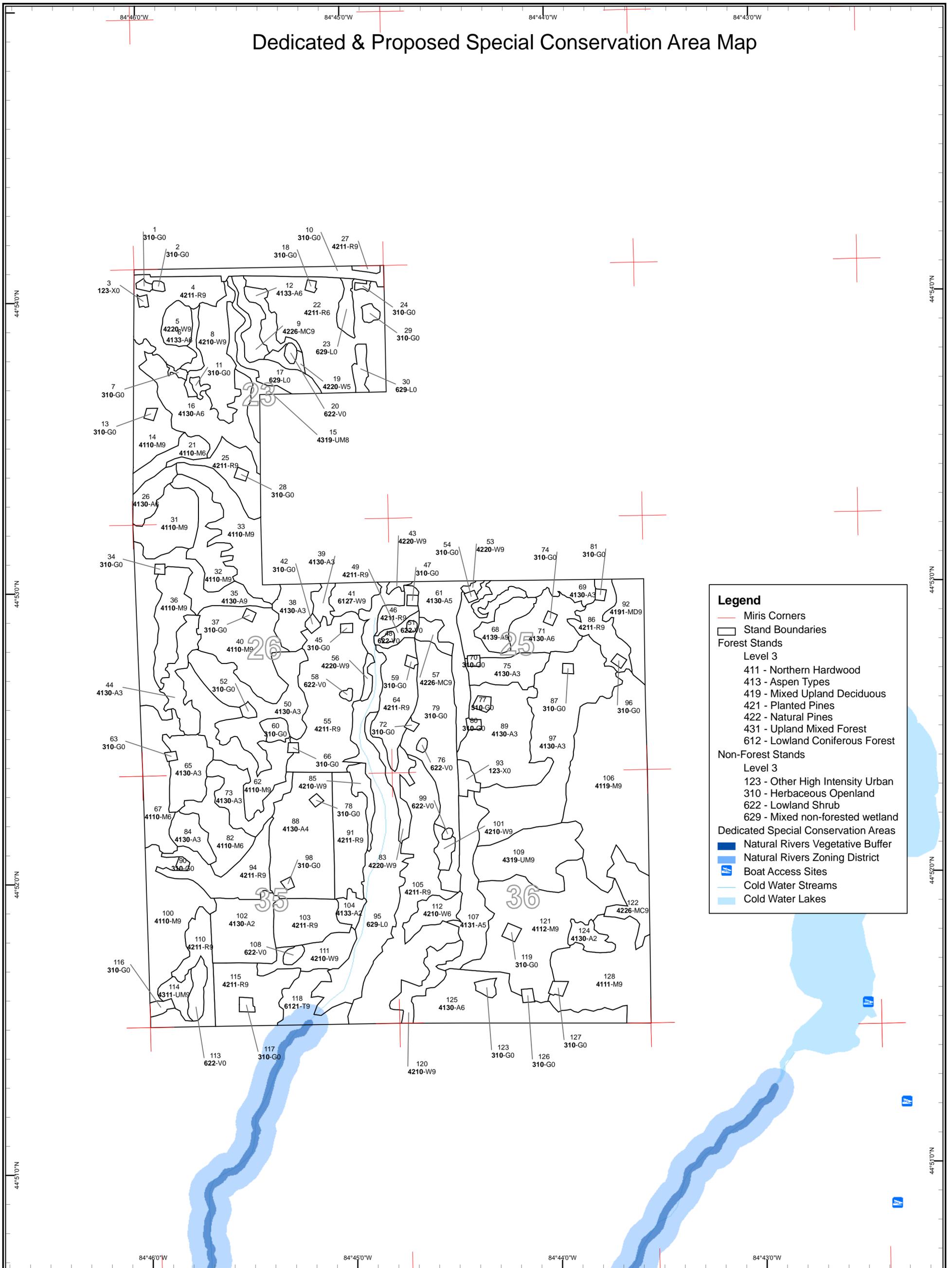


Stand # 23
 Stacking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

- Legend**
- Miris Corners
 - RLS Coners
 - Berms
 - Gate
 - Private Gate
 - Culverts
 - Pipe
 - Power
 - Railroads
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
 - Poor Dirt Roads
 - County Poor Dirt Roads
 - Trail (Non-Recreation)
 - Trails
 - Snowmobile Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
 - Thinning (Crown, Low, Systematic)
 - Selection (Group, Single Tree)
 - Site Preparation
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 123 - Other High Intensity Urban
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



Dedicated & Proposed Special Conservation Area Map



Legend

- Miris Corners
- Stand Boundaries
- Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands
 - Level 3
 - 123 - Other High Intensity Urban
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland
- Dedicated Special Conservation Areas
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Boat Access Sites
 - Cold Water Streams
 - Cold Water Lakes

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	71	197	27	223	136	138	16	56	0	0	0	0	0	0	865
Herbaceous Openland	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
Lowland Coniferous Forest	0	0	0	0	0	0	13	0	0	0	24	0	0	0	0	37
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Mixed non-forested wetland	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	143
Mixed Upland Deciduous	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Natural Pines	0	0	0	0	0	0	57	25	0	0	0	0	0	0	0	82
Northern Hardwood	0	0	0	0	0	0	97	55	332	162	74	0	0	0	0	720
Other High Intensity Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Planted Pines	0	0	0	0	0	213	489	0	0	0	0	0	0	0	0	702
Upland Mixed Forest	0	0	0	0	0	0	15	9	0	51	0	0	0	0	0	75
Total	320	71	197	27	223	349	810	130	388	212	98	0	0	0	0	2826



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2012

Compartment 021
Total Compartment Acres: 2826

Acres by Treatment Type

Commercial Harvest - 410	Site Prep - 70	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen	150	0	0	0	0	0	150
Northern Hardwood	0	71	0	0	16	0	87
Red Pine	0	0	0	0	173	0	173
Total	150	71	0	0	189	0	410



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	52021016-Cut	49.3	4130 - Aspen	High Density Pole	50	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> FINAL HARVEST ASPEN STAND. NO RETENTION TO PROMOTE REGENERATION WITHIN IRREGULAR SHAPED BOUNDARY.									
<u>Specs:</u>									
<u>Other</u> EXISTING ACCESS IS THROUGH PRIVATE. JOB HAS BREAKUP POTENTIAL AND NEW ROAD CONSTRUCTION MAY BE NECESSARY									
<u>Comments:</u> IF PVT ROAD USE IS DENIED. LOTS OF SMALL DIAMETER HDWD IN UNDERSTORY. MAY WANT TO CONSIDER CHIPPING SPECIFICATION.									
<u>Next</u>									
<u>Steps:</u>									
22	52021022_EA ST-THINNING	35.2	42110 - Planted Red Pine	High Density Pole	50	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> VARIABLE STOCKING. ROWS ARE NOT SUITED FOR A THIRD ROW THINNING. MAY NEED TO MARK. RESIDUAL BASAL AREA									
<u>Specs:</u> SHOULD BE 120 SQ. FT. RUN BOUNDARY AWAY FROM EDGE OF BOGS TO KEEP HARVEST ACTIVITY ON HIGH GROUND.									
<u>Other</u> POTENTIAL BREAKUP WITH GOOD ACCESS.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
27	52021027_sm all-Cut	0.7	42110 - Planted Red Pine	High Density Log	50	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> MARK ROWS NORTH SOUTH. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT.									
<u>Specs:</u>									
<u>Other</u> NE SECTION CORNER WAS DESTROYED. FOUND CONCRETE MONUMENT/REROD ON SURFACE NEAR POLE BUILDING EAST OF									
<u>Comments:</u> THIS STAND.									
<u>Next</u>									
<u>Steps:</u>									
35	52021035- east-Cut	18.0	4130 - Aspen	High Density Log	70	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> FINAL HARVEST. NO RETENTION DUE TO SMALL STAND SIZE, AGE AND STEEPNESS OF SLOPES.									
<u>Specs:</u>									
<u>Other</u> STEEP SOUTH SLOPE.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
35	52021035- west-Cut	34.2	4130 - Aspen	High Density Log	70	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> FINAL HARVEST ASPEN AND MIXED HARDWOOD. FLAT GROUND. NO RETENTION DUE TO NARROW STAND ORIENTATION AND									
<u>Specs:</u> AGE.									
<u>Other</u> PRIVATE BOUNDARY HAS BEEN ESTABLISHED. VERIFY PRIVATE WORK - CORNERS ARE PRESENT.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									
49	52021049-Cut	6.0	42110 - Planted Red Pine	High Density Log	47	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> FIRST ENTRY THIRD ROW THINNING. IRREGULAR ROWS - MAY NEED TO MARK. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT.									
<u>Specs:</u> RUN BOUNDARY AWAY FROM EDGE OF BOGS TO KEEP HARVEST ACTIVITY ON HIGH GROUND.									
<u>Other</u> RR GRADE RUNS THROUGH STAND.									
<u>Comments:</u>									
<u>Next</u>									
<u>Steps:</u>									



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
68	52021068-Cut	16.2	4139 - Aspen, Mixed Deciduous	High Density Log	65	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> FINAL HARVEST ASPEN AND HARDWOOD. SLIGHTLY EXPANDED INTO ADJACENT ASPEN STAND (7" DBH AGE 30). THIS, ALONG <u>Specs:</u> WITH NO RETENTION, SHOULD HELP PROMOTE FULL COVERAGE OF ASPEN REGENERATION. <u>Other</u> ROLLING HILLS WITH SOME STEEP SLOPES. ASPEN CORES SHOWED SIGNS OF DECLINE. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
71	52021071-Cut	32.4	4130 - Aspen	High Density Pole	35	Harvest	Clearcut	Aspen	Cmpt. Review Proposal
<u>Prescription</u> FINAL HARVEST ASPEN STAND. NO RETENTION. <u>Specs:</u> <u>Other</u> ADDED AT PRE-REVIEW. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
86	52021086-Cut	22.8	42110 - Planted Red Pine	High Density Log	47	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> FIRST ENTRY THIRD ROW THINNING. DUE TO THE VARIABILITY IN STOCKING - MARK TO CUT. FOCUS ON REMOVAL OF MULTI <u>Specs:</u> STEM AND FORKED TREES. LEAVE LOWER STOCKED AREAS UNMARKED. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT. <u>Other</u> FLAT. RR GRADE RUNS THROUGH STAND. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
91	52021091-Cut	37.4	42110 - Planted Red Pine	High Density Log	50	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> MARKED THINNING. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT. FOCUS EFFORTS ON REMOVING FORKED AND MULTI STEMS <u>Specs:</u> FIRST. LEAVE LOWER STOCKED AREAS UNMARKED. <u>Other</u> THINNED 1996. FLAT. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
103	52021103-Cut	29.5	42110 - Planted Red Pine	High Density Log	50	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> MARKED THINNING. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT. FOCUS EFFORTS ON REMOVING FORKED AND MULTI STEMS <u>Specs:</u> FIRST. LEAVE LOWER STOCKED AREAS UNMARKED. <u>Other</u> THINNED 1996. FLAT. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									
106	52021106- south-Cut	70.8	4119 - Mixed Northern Hardwoods	High Density Log	75	Harvest	Single Tree Selection	Mixed Northern Hardwoods	Cmpt. Review Proposal
<u>Prescription</u> MARK TO 80 SQ. FT. RESIDUAL BASAL AREA. FOCUS MARKING EFFORTS ON CROP TREE RELEASE AND REMOVAL OF DEFECTIVE - <u>Specs:</u> LARGE CROWNED RED OAK AND BEECH. CROWNS WITH THE THREAT OF LARGE BRANCHES SNAPPING NEED TO BE REMOVED. REGENERATION GAPS OF 100 - 200 FOOT DIAMETER SHOULD BE CLEANED BY MARKING ALL TREES WITHIN THEIR BOUNDARIES. <u>Other</u> MOSTLY FLAT WITH AREAS OF ROLLING HILLS. <u>Comments:</u> <u>Next</u> <u>Steps:</u>									

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



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
115	52021115-Cut	41.2	42110 - Planted Red Pine	High Density Log	50	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription MARKED THINNING. RESIDUAL BASAL AREA SHOULD BE 120 SQ. FT. FOCUS EFFORTS ON REMOVING FORKED AND MULTI STEMS
Specs: FIRST. LEAVE LOWER STOCKED AREAS UNMARKED.

Other THINNED 1996. FLAT.
Comments:

Next
Steps:

121	52021121_sm all-Cut	16.0	4112 - Maple, Beech, Cherry Association	High Density Log	75	Harvest	Crown Thinning	Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription MARKED THINNING. RESIDUAL BASAL AREA SHOULD BE 80 SQ. FT. FOCUS EFFORTS ON CROP TREE RELEASE.
Specs:

Other ROLLING HILLS.
Comments:

Next
Steps:

**Total Treatment
 Acreage Proposed: 409.8**

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: 021
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
4	42110 - Planted Red Pine	High Density Log	40.8	50	111-140	SOUTH END IS LESS DENSE. THINNED 2004. FLAT. OPEN AND LIMBY. BETTER STOCKING ON NORTH END. RP SI = 60. STAND BA = 140 FROM 6 PLOTS.
5	42200 - Natural White Pine	High Density Log	11.7	55	111-140	VERY NICE QUALITY WP. FLAT TO SLIGHTLY ROLLING. RANGE OF DIAMETERS. NATURAL STAND. ASPEN IS DYING. OLD WP STUMPS COMMON. WP SI = 70. STAND BA = 140 FROM 3 PLOTS.
6	4133 - Aspen, Mixed Pine	High Density Pole	5.3	50	1-50	POOR QUALITY TA MIXED WITH WP. FLAT. AREAS OF HEAVY HDWD UNDERSTORY. TA SI = 60. STAND BA = 50 FROM 3 PLOTS.
8	42101 - Planted White Pine, Mixed Deciduous	High Density Log	37.9	50	81-110	FLAT. MIX OF OLD ASPEN AND WP. AREAS OF THICK HDWD UNDERSTORY. ASPEN IS DYING. WP IS DECENT QUALITY BUT LIMBY WITH A RANGE OF DIAMETERS. WP SI = 55. STAND BA = 100 FROM 5 PLOTS.
9	42260 - Natural Pine, Mixed Deciduous	High Density Log	13.2	50	111-140	FLAT. GOOD QUALITY RED AND WHITE PINE. PINE DIAMETERS VARY. ASPEN IS BIG AND DYING. NICE STAND. WP SI = 70. STAND BA = 140 FROM 3 PLOTS.
12	4133 - Aspen, Mixed Pine	High Density Pole	10.9	50	51-80	VARIOUS SIZE AND QUALITY ASPEN REGEN MIXED WITH SCATTERED PINE. FLAT. WP WELL REPRESENTED IN THE UNDERSTORY. TREMBLING ASPEN SI = 65. TOTAL BA = 70 FROM 3 PLOTS.
14	4110 - Sugar Maple Association	High Density Log	32.8	75	81-110	THINNED 2003. GOOD QUALITY HDWD ON ROLLING HILLS. SUPPRESSED 2 - 4" DIAM HM SAPS COMMON. RUBUS. HEAVY HDWD UNDERSTORY. YB PRESENT. SOME AREAS HAVE DAMAGED TOPS. HM SI = 60. STAND BA = 110 FROM 5 PLOTS.
15	4319 - Mixed Upland Forest	Medium Density Log	15.4	50	1-50	SPARSE STOCKING ALONG CREEK. POOR QUALITY OVERSTORY. CLUMPY MAPLE. NORTH END HAS DECENT ASPEN. WP IS SEEDING IN. WP STUMPS COMMON. WP SI = 60. STAND BA = 40 FROM 4 PLOTS.
16	4130 - Aspen	High Density Pole	49.3	50	81-110	FLAT. DECENT ASPEN - MIX OF TA AND BTA. SOME MAPLE AND WP. LOTS OF HDWD IN UNDERSTORY. BTA SI = 65. STAND BA = 110 FROM 6 PLOTS.
19	42200 - Natural White Pine	Medium Density Pole	4.7	50	1-50	OPEN GROWN SCATTERED WOLF WP WITH CLUMPY SMALL DIAM RM. FLAT. FRESH BEAVER ACTIVITY. WP SI = 65. STAND BA = 20 FROM 2 PLOTS.
21	4110 - Sugar Maple Association	High Density Pole	14.1	75	81-110	RANGE OF VERY STEEP TO ROLLING HILLS. QUALITY VARIES. LOTS OF 2 - 4" DIAM SUPPRESSED HM SAPS. HM SI = 65. STAND BA = 100 FROM 3 PLOTS.



Stand	Gaylord Mgt. Unit			5 – Forested Stands		Compartment: 021	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Inventory Method: IFMAP	
22	42110 - Planted Red Pine	High Density Pole	97.2	50	141-170	WEST HALF HAS MANY AREAS SPARSLY STOCKED. RP IS LIMBY WITH SCATTERED WP, RM AND ASPEN. FLAT. EAST HALF IS BETTER QUALITY AND WELL STOCKED. SCATTERED OAK LOGS. RP SI = 60. STAND BA = 160 FROM 16 PLOTS.	
25	42110 - Planted Red Pine	High Density Log	24.5	47	141-170	THINNED 1996. DECENT QUALITY. VARIABLE STOCKING. SOME PORKY DAMAGE. FLAT. FORKS AND MULTI STEM COMMON. AREAS OF THICK HDWD UNDERSTORY. RP SI = 65. STAND BA = 160 FROM 5 PLOTS.	
26	4130 - Aspen	High Density Pole	12.9	45	51-80	DECENT ASPEN REGEN ON FLAT TO ROLLING HILLS. BTA SI = 65. STAND BA = 70 FROM 3 PLOTS.	
27	42110 - Planted Red Pine	High Density Log	1.7	50	171-200	SMALL STAND OF RP. DECENT QUALITY. WELL STOCKED. RP SI = 60. STAND BA = 190 FROM 2 PLOTS.	
31	4110 - Sugar Maple Association	High Density Log	32.4	85	51-80	FLAT TO STEEP SLOPES. RANGE OF QUALITY ACROSS STAND. PART OF STAND WAS THINNED 2005. THE UNTHINNED AREAS ARE MOSTLY POOR QUALITY WITH CLUMPS COMMON AND BIGGER TREES WITH DEFECTS. SUPPRESSED HM SAPS 2 - 4" DIAM COMMON. HM SI = 65. STAND BA = 80 FROM 5 PLOTS.	
32	4110 - Sugar Maple Association	High Density Log	29.0	85	81-110	MOSTLY GOOD QUALITY. THINNED 2005. FLAT TO ROLLING HILLS. SOME AREAS THICK TO BEECH REGEN. RUBUS COMMON. BROWSE DAMAGE COMMON. UNCUT STEEP SLOPES HAVE LOTS OF SUPPRESSED 2 - 4" DIAM HM. HM SI = 65. STAND BA = 100 FROM 6 PLOTS.	
33	4110 - Sugar Maple Association	High Density Log	44.6	85	81-110	THINNED 1996. GOOD QUALITY HDWD ON FLAT TO ROLLING HILLS. 2 - 4" DIAM SUPPRESSED HM SAPS COMMON. HEAVY IRONWOOD UNDERSTORY. HM SI = 65. STAND BA = 100 FROM 9 PLOTS.	
35	4130 - Aspen	High Density Log	56.1	70	81-110	WEST SIDE ALONG PRIVATE SCATTERED ASPEN CLONES MIXED WITH POOR QUALITY HDWD. FLAT GROUND. SOME BIG ASPEN DYING. EAST SIDE IS ALMOST ALL ASPEN. SOUTH SLOPE STEEP IN AREAS. BTA SI = 70. STAND BA = 100 FROM 5 PLOTS.	
36	4110 - Sugar Maple Association	High Density Log	28.6	55	81-110	FORKS AND CLUMPS COMMON. MOSTLY POOR QUALITY. SOME DECENT SINGLE STEMS. ROLLING HILLS. SOME SCATTERED ASPEN. LOTS OF SUPPRESSED HM SAPS. NE CORNER WAS THINNED 2005. HM SI = 60. STAND BA = 100 FROM 5 PLOTS.	
38	4130 - Aspen	High Density Sapling	21.4	30	1-50	DECENT YOUNG ASPEN MIX WITH HM STUMP SPROUTS. FLAT. BTA SI = 65. STAND BA = 40 FROM 3 PLOTS.	
39	4130 - Aspen	High Density Sapling	6.6	4		NICE THICK MIXED TA AND BTA REGEN WITH SOME MAPLE STUMP SPROUTS. SCATTERED RESIDUAL WP. FLAT. BTA SI = 65.	

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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 021
Year of Entry: 2012

Inventory Method: IFMAP

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	4110 - Sugar Maple Association	High Density Log	55.9	85	81-110	THINNED 2005. DECENT HDWD ON ROLLING HILLS. LOTS OF SUPPRESSED 2 - 4" DIAM HM SAPS. HM SI = 65. STAND BA = 95 FROM 5 PLOTS.
41	6127 - Lowland Pine	High Density Log	13.3	50	111-140	VERY NICE WP MIXED WITH SOME TAMARACK, BS AND TAG ALDER. WET. SOME OPEN AREAS. WP SI = 60. STAND BA = 130 FROM 3 PLOTS.
43	42200 - Natural White Pine	High Density Log	1.6	50	141-170	DECENT WP ON EDGE OF SWAMP. WP SI = 60. STAND BA = 150 FROM 1 PLOT.
44	4130 - Aspen	High Density Sapling	22.6	4		NICE THICK ASPEN REGEN ~ 20 FT TALL. BTA SI = 65.
46	42110 - Planted Red Pine	High Density Log	8.8	47	111-140	NICE RP THINNED 2003. SOME SCATTERED WP. MULTI STEM COMMON. RP SI = 60. STAND BA = 140 FROM 2 PLOTS.
49	42110 - Planted Red Pine	High Density Log	6.0	47	200+	GOOD QUALITY RP. NEVER THINNED. SOME MULTI STEM AND FORKS. SOME WP. OLD WP STUMPS COMMON. OLD RR GRADE. RP SI = 60. STAND BA = 200 FROM 2 PLOTS.
50	4130 - Aspen	High Density Sapling	59.5	13		NICE THICK ASPEN REGEN ON ROLLING HILLS. A FEW SCATTERED RESIDUAL OAK. BTA SI = 65.
53	42200 - Natural White Pine	High Density Log	1.7	60	111-140	GOOD QUALITY SMALL STAND. WP SI = 60. STAND BA = 120 FROM 1 PLOT.
55	42110 - Planted Red Pine	High Density Log	86.7	47	141-170	THINNED 1996. FLAT. DECENT QUALITY. MULTI STEM COMMON. SOME SCATTERED WP AND ASPEN. OLD WP STUMPS COMMON. AREAS HAVE HEAVY HDWD UNDERSTORY. RP SI = 65. STAND BA = 160 FROM 11 PLOTS.
56	42200 - Natural White Pine	High Density Log	3.3	50	81-110	LOTS OF 20" DIAMETER WP. MOST ARE FORKED - ALL ARE LIMBY. 12 - 15" WP ARE NICE. LOTS OF DEAD AND DOWN. WP SI = 60. STAND BA = 110 FROM 2 PLOTS.
57	42260 - Natural Pine, Mixed Deciduous	High Density Log	6.9	50	111-140	RED PINE WAS THINNED. MIXED WITH WP, OLD ASPEN AND RM CLUMPS. MIX OF WP SIZE CLASSES. SOME SCATTERED OAK. WP SI = 55. STAND BA = 130 FROM 2 PLOTS.
61	4130 - Aspen	Medium Density Pole	34.9	40	1-50	PATCHY STOCKING WITH RANGE OF SIZE CLASSES. MOSTLY POOR QUALITY SAPS AND POLES. OLD WP STUMPS COMMON. BTA SI = 55. STAND BA = 40 FROM 4 PLOTS.

Stand	Gaylord Mgt. Unit			5 – Forested Stands		Compartment: 021	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012	
62	4110 - Sugar Maple Association	High Density Log	47.3	70	81-110		MOSTLY POOR QUALITY CLUMPY HDWD ON ROLLING TO STEEP SLOPES. SOME FLAT AREAS. SCATTERED OLD ASPEN AND DECENT SINGLE STEMS. LARGE BAS AND HM HAVE DEFECT - FORKS. LOTS OF SUPPRESSED HM SAPS 2 - 4" DIAM. HM SI = 60. STAND BA = 105 FROM 5 PLOTS.
64	42110 - Planted Red Pine	High Density Log	36.7	50	141-170		THINNED 2003. AREAS OPEN GROWN, SHORT AND LIMBY FROM PATCHY STOCKING. BETTER STOCKING HAS GOOD QUALITY. OLD WP STUMPS, WP POLES AND LOGS COMMON. RP SI = 55. STAND BA = 150 FROM 4 PLOTS.
65	4130 - Aspen	High Density Sapling	26.7	27	1-50		STAND HARVESTED 1982. ROLLING HILLS. NICE REGEN WITH SCATTERED HDWD UNDER ~ 1 - 2" DIAM. BTA SI = 65. STAND BA = 45 FROM 2 PLOTS.
67	4110 - Sugar Maple Association	High Density Pole	39.9	55	51-80		ROLLING HILLS SOME STEEP. MOSTLY POOR QUALITY HDWD. CLUMPY MAPLE. SOME SCATTERED ASPEN. HM SI = 55. STAND BA = 80 FROM 4 PLOTS.
68	4139 - Aspen, Mixed Deciduous	High Density Log	16.2	65	81-110		POOR QUALITY CLUMPY HDWD MIXED WITH ASPEN ON ROLLING HILLS. SOME HILLS STEEP. ASPEN IS OLD AND SHOWING SIGNS OF DECLINE. CORE HAD ROT. BTA SI = 55. STAND BA = 100 FROM 4 PLOTS.
69	4130 - Aspen	High Density Sapling	19.0	4			PATCHY REGEN WHERE THICK TO HDWD. AREAS HEAVY TO BEECH STUMP SPROUTS ~ 6 FT TALL. SOME OPEN AREAS. FLAT EAST AND HILLY WEST. SOME SCATTERED RESIDUAL RED OAK LOGS. BTA SI = 60.
71	4130 - Aspen	High Density Pole	52.7	35	81-110		NICE THICK REGEN. MOSTLY FLAT WITH SOME ROLLING HILLS. SOME SCATTERED MAPLE, BEECH AND OAK. BTA SI = 65. STAND BA = 90 FROM 2 PLOTS.
73	4130 - Aspen	High Density Sapling	26.3	13			DECENT ASPEN REGEN MIXED WITH RM STUMP SPROUTS. SOME ROLLING HILLS AND STEEP SLOPES. SOME SCATTERED OAK. BTA SI = 65.
75	4130 - Aspen	High Density Sapling	20.9	30	1-50		NICE THICK REGEN ON MOSTLY FLAT TO ROLLING HILLS. MAPLE STUMP SPROUTS COMMON. BTA SI = 65. STAND BA = 40 FROM 2 PLOTS.
82	4110 - Sugar Maple Association	High Density Pole	28.5	55	81-110		RANGE OF SIZE CLASSES. ROLLING HILLS. AREAS OF POOR QUALITY MULTI STEM. BETTER QUALITY ON BASE OF HILLS WHERE DECENT SINGLE STEMS ARE COMMON. SOME DEFECTIVE LARGE HM AND BASSWOOD. HM SI = 55. STAND BA = 80 FROM 3 PLOTS.
83	42200 - Natural White Pine	High Density Log	16.0	50	51-80		TRANSITION BETWEEN CREEK AND UPLAND PLANTED PINE. SCATTERED LARGE WP. OLD WP STUMPS COMMON. AREAS OF DECENT WP UNDERSTORY. WP SI = 60. STAND BA = 80 FROM 3 PLOTS.



Stand	Gaylord Mgt. Unit			5 – Forested Stands		Compartment: 021
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2012
						General Comments:
84	4130 - Aspen	High Density Sapling	13.5	4		CUT 2005. NICE ASPEN REGEN WITH SOME SCATTERED RM AND IRONWOOD. BTA SI = 60.
85	42100 - Planted White Pine	High Density Log	8.8	50	111-140	LIMBY AND FORKED WP. FORKED AT ~ 25 FT. SOME DECENT SINGLE STEMS. ASPEN IS DYING. WP SI = 55. STAND BA = 140 FROM 2 PLOTS.
86	42110 - Planted Red Pine	High Density Log	22.8	47	171-200	MOSTLY VERY NICE RP. FLAT. FORKED AND MULTI STEM COMMON. PATCHES OF POORLY STOCKED AND SOME DEAD. RR GRADE IN STAND. RP SI = 60. STAND BA = 180 FROM 3 PLOTS.
88	4130 - Aspen	Low Density Pole	72.5	50	51-80	MOSTLY OPEN WITH SCATTERED ASPEN CLONES. ASPEN IS POOR QUALITY. MORTALITY COMMON. OLD WP STUMPS COMMON. FLAT. SCATTERED CHERRY. TA SI = 55. STAND BA = 60 FROM 2 PLOTS.
89	4130 - Aspen	High Density Sapling	65.8	30	1-50	NICE THICK REGEN ON FLAT TO MOSTLY ROLLING HILLS. MAPLE STUMP SPROUTS COMMON. SCATTERED OAK RESIDUAL. BTA SI = 65. STAND BA = 40 FROM 2 PLOTS.
91	42110 - Planted Red Pine	High Density Log	37.4	50	141-170	THINNED 1996. GOOD QUALITY BUT LIMBY. FLAT. FORKS AND MULTI STEM COMMON. VARIABLE STOCKING. RP SI = 60. STAND BA = 170 FROM 7 PLOTS.
92	4191 - Mixed Upland Deciduous with Conifer	High Density Log	25.1	60	81-110	POOR QUALITY CLUMPY BEECH AND MAPLE. RANGE OF FLAT TO ROLLING HILLS. ASPEN IS DEAD/DYING. LOADED WITH OLD WP STUMPS. SCATTERED DECENT QUALITY WP. AREAS THICK TO HDWD UNDERSTORY. WP SI = 50. STAND BA = 90 FROM 3 PLOTS.
94	42110 - Planted Red Pine	High Density Log	36.9	47	111-140	THINNED 1996. STOCKING VARIES. LIMBY - FORKS AND MULTI STEM COMMON. SCATTERED RM AND BASSWOOD. SOME PORKY DAMAGE ADJACENT TO HDWD STANDS. RR GRADE. AREAS OF PURE THICK M3. WELL STOCKED AREAS ARE GOOD QUALITY. RP SI = 60. STAND BA = 140 FROM 4 PLOTS.
97	4130 - Aspen	High Density Sapling	111.6	15		THICK BTA REGEN MIXED WITH SOME TA AND CHERRY. MOSTLY FLAT. SCATTERED OAK LOGS AND SOME WP. BTA SI = 65.
100	4110 - Sugar Maple Association	High Density Log	55.0	65	81-110	POOR QUALITY HDWD ON ROLLING HILLS. FORKS AND MULTI STEM COMMON. SOME DECENT SCATTERED CROP TREES. ASPEN PRESENT BUT DYING OUT. HM SI = 55. STAND BA = 100 FROM 5 PLOTS.
101	42101 - Planted White Pine, Mixed Deciduous	High Density Log	6.0	50	111-140	SOME DECENT WP. LOTS OF DEFECTIVE FORKS AND LIMBY. FLAT. LEAVE TO HELP CORRECT. ASPEN COMMON BUT DYING. WP SI = 50. STAND BA = 140 FROM 2 PLOTS.



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Gaylord Mgt. Unit

5 – Forested Stands

Inventory Method: IFMAP

Compartment: 021

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
102	4130 - Aspen	Medium Density	41.7	40	1-50	PATCHES OF ASPEN CLONES. POOR QUALITY. SOME MORTALITY. FLAT. MIXED WITH OPEN AREAS AND/OR UPLAND BRUSH. SCATTERED CHERRY. SHADED UNDERSTORY HAS CHERRY AND MAPLE. TREMBLING ASPEN SI = 50. STAND BA = 40 FROM 3 PLOTS.
103	42110 - Planted Red Pine	High Density Log	29.5	50	141-170	THINNED 1996. NICE RP. FLAT. SOME FORKS AND MULTI STEMS. SOME LIGHTER STOCKING IN AREAS. RED PINE SI = 60. STAND BA = 170 FROM 4 PLOTS.
104	4133 - Aspen, Mixed Pine	Medium Density	7.3	40		MOSTLY POOR QUALITY ASPEN. BEAVER ACTIVITY. DRAINAGE ON WEST EDGE WITH THICK TAG ALDER. ASPEN SI = 50.
105	42110 - Planted Red Pine	High Density Log	99.6	50	111-140	DECENT QUALITY RP. DIAMETERS AND STOCKING ARE VARIABLE. SCATTERED ASPEN DYING. TWINS AND FORKS COMMON. FLAT. RP SI = 55. STAND BA = 140 FROM 9 PLOTS.
106	4119 - Mixed Northern Hardwoods	High Density Log	134.2	75	111-140	MOSTLY FLAT WITH AREAS OF ROLLING HILLS. LOTS OF LARGE DIAMETER GOOD QUALITY RED OAK. ALSO LOTS OF LARGE DIAMETER/CROWN BEECH WITH DEFECT COMMON. AREAS OF GOOD QUALITY HM. 2 - 4" DIAM SUPPRESSED HM SAPS COMMON. HEAVY BEECH UNDERSTORY. HM SI = 60. STAND BA = 120 FROM 10 PLOTS.
107	4131 - Aspen, Oak	Medium Density Pole	39.3	40	1-50	SPARSE POOR QUALITY ASPEN ON MOSTLY FLAT GROUND. OLD RR GRADE. SCATTERED WP. BTA SI = 55. STAND BA = 50 FROM 4 PLOTS.
109	4319 - Mixed Upland Forest	High Density Log	50.5	80	81-110	ROLLING HILLS. DECENT WP WITH RANGE OF SIZE CLASSES. POOR QUALITY CLUMPY/CROOKED HARDWOOD. OLD WP STUMPS. BEECH SAPS HEAVY IN AREAS. WP SI = 55. STAND BA = 90 FROM 5 PLOTS.
110	42110 - Planted Red Pine	High Density Log	27.2	47	141-170	THINNED 1996. SW CORNER HAS LOTS OF DEFECT FROM PORKY DAMAGE AND THICK HDWD UNDERSTORY. MOSTLY FLAT WITH SOME ROLLING HILLS. REST OF STAND WAS HEAVILY THINNED - LIMBY AND OPEN GROWN. SOME AREAS HEAVY TO ASPEN REGEN. RP SI = 60. STAND BA = 150 FROM 6 PLOTS.
111	42100 - Planted White Pine	High Density Log	20.8	50	111-140	MOSTLY PLANTED WP WITH SOME PLANTED RP. WP IS FORKED AND LIMBY. SCATTERED WET AREAS. ASPEN IS DYING. WP SI = 55. STAND BA = 130 FROM 3 PLOTS.
112	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	14.1	50	141-170	DECENT WP WITH DYING ASPEN OVER. AS ASPEN DIES WP SHOULD BENEFIT FROM RELEASE. LIMBY WP WITH SOME FORKS - LEAVE TO CORRECTAND FURTHER PRUNE. WP SI = 50. STAND BA = 150 FROM 3 PLOTS.
114	4311 - Pine, Aspen Mix	High Density Log	9.0	60	51-80	MIX OF ASPEN AND WP. ASPEN IS OLD AND IN POOR CONDITION. LOTS OF FORKED WP. SOME HAWTHORN. FLAT. ASPEN SI = 60. STAND BA = 80 FROM 2 PLOTS.

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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 021

Inventory Method: IFMAP

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	42110 - Planted Red Pine	High Density Log	41.2	50	141-170	THINNED 1996. NICE RP. LIMBY. FLAT. FORKS AND TWINS COMMON. MORE OPEN GROWN WHERE ASPEN AND HDWD WERE REMOVED. RP SI = 60. STAND BA = 170 FROM 6 PLOTS.
118	6121 - Tamarack	High Density Log	24.0	90	81-110	LOWLAND CONIFER WITH BF SAPS IN THE UNDERSTORY. TAM SI = 55. STAND BA = 100 FROM 1 PLOT.
120	42101 - Planted White Pine, Mixed Deciduous	High Density Log	17.3	50	141-170	WHITE PINE PLANTATION ON FLAT GROUND. SCATTERED RM CLUMPS AND ASPEN SLIGHTLY OVERTOPPING. WP HAS SOME DEFECT BUT LEAVING 10 YEARS SHOULD HELP CORRECT. ASPEN ~ 40 BA. MAPLE SEEDLINGS. WP SI = 55. STAND BA = 150 FROM 3 PLOTS.
121	4112 - Maple, Beech, Cherry Association	High Density Log	103.3	75	111-140	MOSTLY ROLLING HILLS WITH SOME FLAT AREAS. SOME PLOTS HEAVY TO DYING ASPEN. HEAVY TO POOR QUALITY HDWD CLUMPS. AREAS OF DECENT SINGLE STEMS. 2 - 4" DIAM SUPPRESSED HM COMMON. SOME SCATTERED WP AND RO. HM SI = 60. STAND BA = 130 FROM 9 PLOTS.
122	42260 - Natural Pine, Mixed Deciduous	High Density Log	22.9	60	81-110	MOSTLY FORKED WP LOGS. ROLLING HILLS. SOME OPEN GROWN WP AND RM. AREAS WITH NICE SINGLE STEMS. WIDE RANGE OF WP SIZES. HDWD MOVING IN. OLD WP STUMPS COMMON. WP SI = 50. STAND BA = 100 FROM 3 PLOTS.
124	4130 - Aspen	Medium Density	9.6	6		MIX OF SPARSE ASPEN REGEN AND HDWD STUMP SPROUTS. C/C 2003. BEST ASPEN REGEN ~ 20 FT TALL. ASPEN SI = 60.
125	4130 - Aspen	High Density Pole	62.6	37	81-110	GOOD QUALITY THICK ASPEN REGEN. FLAT. MIXED WITH MAPLE SAPS. MOVING WEST TA PRESENCE IS GREATER. SCATTERED PB. BTA SI = 60. STAND BA = 80 FROM 2 PLOTS.
128	4111 - S.Maple, Hard Mast Association	High Density Log	74.2	95	81-110	GOOD QUALITY HM AND BEECH. THINNED 2003. FLAT. SOME RM AND SCATTERED OAK LOGS. DEFECTIVE WOLF BEECH COMMON. VERY FEW CLEAN REGEN HOLES. HEAVY BEECH SAPS IN UNDERSTORY. HM SI = 75. STAND BA = 110 FROM 6 PLOTS.



Stand	Cover Type	Acres	Gen Cmts:
1	310 - Herbaceous Openland	1.4	GRASS DEPRESSION - OLD BORROW PIT. KNAPWEED.
2	3102 - Grass	1.1	GAS WELL - VALVE SYSTEM. KNAPWEED AND SOME SCATTERED RED PINE REGEN.
3	123 - Other High Intensity Urban	1.1	FENCED IN CPF WITH TWO BUILDINGS.
7	310 - Herbaceous Openland	1.5	GAS WELL - VALVE SYSTEM. KNAPWEED.
10	310 - Herbaceous Openland	22.7	GRASS. MULTIPLE PIPELINES AND SNOWMOBILE TRAIL ALONG MANCELONA ROAD. WELL MAINTAINED. KNAPWEED.
11	310 - Herbaceous Openland	2.1	NICE CLEAN OPENING. GRASS/BRACKEN WITH SCATTERED CHERRY.
13	310 - Herbaceous Openland	1.2	GAS WELL - VALVE SYSTEM. KNAPWEED.
17	629 - Mixed non-forested wetland	20.2	KOLKE CREEK. MOSTLY MARSH WITH TAG ALDER ON EDGES.
18	310 - Herbaceous Openland	1.1	GAS WELL - VALVE SYSTEM. KNAPWEED.
20	6225 - Bog	2.0	A FEW SCATTERED BLACK SPRUCE, WHITE PINE AND TAMARACK.
23	629 - Mixed non-forested wetland	7.5	DRIED UP POND - MOSTLY MARSH. BUFFER OF CHERRY SHRUBS AND GRASS ON HIGH GROUND BETWEEN LOWLAND AND RP PLANTATION.
24	310 - Herbaceous Openland	1.1	GRASS DEPRESSION - OLD BORROW PIT. KNAPWEED.
28	310 - Herbaceous Openland	1.2	GAS WELL - VALVE SYSTEM. KNAPWEED.
29	310 - Herbaceous Openland	2.6	TWIN GAS WELLS - BOTH VALVE SYSTEMS. KNAPWEED.
30	629 - Mixed non-forested wetland	5.9	DRIED UP POND - MOSTLY MARSH. SOME SCATTERED WHITE PINE. BUFFER OF CHERRY SHRUBS AND GRASS BETWEEN LOWLAND AND RED PINE PLANTATION.
34	310 - Herbaceous Openland	1.0	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
37	310 - Herbaceous Openland	1.1	GAS WELL - PUMP JACK AND SHED. KNAPWEED.



Stand	Cover Type	Acres	Gen Cmts:
42	310 - Herbaceous Openland	1.8	OLD WELL SITE - NOT OCCUPIED. GRASS AND KNAPWEED.
45	310 - Herbaceous Openland	1.1	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
47	310 - Herbaceous Openland	1.2	GAS WELL - PUMP JACK. KNAPWEED.
48	6225 - Bog	1.1	SCATTERED WHITE PINE AND TAMARACK SAPS.
51	6225 - Bog	1.0	
52	310 - Herbaceous Openland	1.9	CLEAN GRASS OPENING. KNAPWEED.
54	310 - Herbaceous Openland	1.0	GAS WELL - PUMP JACK.
58	6225 - Bog	1.2	WHITE PINE AROUND PERIMETER. RR GRADE ON EAST EDGE.
59	310 - Herbaceous Openland	1.2	GAS WELL - VALVE SYSTEM. KNAPWEED.
60	310 - Herbaceous Openland	5.5	OLD GRAVEL PIT. MOSTLY OPEN. PATCHES OF JACK PINE SURVIVED PLANTING. LOTS OF EXPOSED GROUND. KNAPWEED.
63	310 - Herbaceous Openland	1.0	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
66	310 - Herbaceous Openland	1.1	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
70	310 - Herbaceous Openland	1.4	GAS WELL - PUMP JACK. KNAPWEED.
72	310 - Herbaceous Openland	1.0	GAS WELL - VALVE SYSTEM. KNAPWEED.
74	310 - Herbaceous Openland	1.2	GAS WELL - PUMP JACK. KNAPWEED.
76	6225 - Bog	1.2	SOME SCATTERED WHITE PINE AND TAMARACK. RPP C/C AROUND ENTIRE PERIMETER WITH NO BUFFER.
77	310 - Herbaceous Openland	2.3	OLD WELL SITE - NOT OCCUPIED. SOME ASPEN AND WHITE PINE. KNAPWEED.
78	310 - Herbaceous Openland	1.0	GAS WELL - PUMP JACK AND SHED. KNAPWEED.



Stand	Cover Type	Acres	Gen Cmts:
79	310 - Herbaceous Openland	69.8	STAND IS BEING HARVESTED AND VERY CLOSE TO COMPLETE. TMS IS AWARE AND HAS ON LIST TO TRENCH. CHIPPING HAS LEFT THE SITE VERY CLEAN. THERE IS A BOG WITHIN THE CUT BOUNDARY THAT WAS NOT BUFFERED. MAY CONSIDER BUFFERING WHEN TRENCHING.
80	310 - Herbaceous Openland	1.5	GAS WELL - DISCONNECTED PUMP JACK. KNAPWEED.
81	310 - Herbaceous Openland	1.1	EMPTY GAS PAD - NOT OCCUPIED. GUTTED PIPES. KNAPWEED.
87	310 - Herbaceous Openland	1.1	GAS WELL - PUMP JACK. KNAPWEED.
90	310 - Herbaceous Openland	1.4	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
93	123 - Other High Intensity Urban	5.6	CPF OR BOOSTER STATION WITH SHED AND MULTIPLE WELLS. KNAPWEED.
95	629 - Mixed non-forested wetland	109.4	KOLKE CREEK. MOSTLY MARSH AND TAG ALDER. SNAGS COMMON. SOME SCATTERED WHITE PINE, TAMARACK AND PAPER BIRCH.
96	310 - Herbaceous Openland	1.2	GAS WELL - PUMP JACK. KNAPWEED.
98	310 - Herbaceous Openland	1.0	GAS WELL - PUMP JACK AND SHED. KNAPWEED.
99	6225 - Bog	1.0	
108	6225 - Bog	2.9	
113	6225 - Bog	8.4	TAG ALDER AROUND EDGES. SCATTERED TAMARACK AND WHITE PINE ~ 35 FT. TALL.
116	310 - Herbaceous Openland	2.9	GAS WELL - PUMP JACK AND SHED. ADJACENT TO AN OLD WELL SITE WITH SCATTERED CHERRY. BOTH HAVE KNAPWEED.
117	310 - Herbaceous Openland	2.1	OLD WELL SITE. NO LONGER OCCUPIED. SCATTERED RED PINE SAPS ~ 8 FEET TALL. LOTS OF KNAPWEED.
119	310 - Herbaceous Openland	2.1	GAS WELL - PUMP JACK AND PROPANE TANK. KNAPWEED.
123	310 - Herbaceous Openland	3.0	GAS WELL - VALVE SYSTEM AND PROPANE TANK.
126	310 - Herbaceous Openland	1.6	NEW GAS WELL - PUMP JACK. KNAPWEED.



Stand	Cover Type	Acres	Gen Cmts:
127	310 - Herbaceous Openland	2.1	GAS PAD NO LONGER OCCUPIED. CLEAN OPENING.



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
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.