

COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 48

ENTRY YEAR: 2013 ACREAGE: 1,967 COUNTY: Antrim

Revision Date: 05/20/2011

Stand Examiner: Ken Phillips

Legal Description: T31N-R05W, Sections 17, 20, 29, 32

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 is dominated by the Jordan River watershed. The terrain that forms the river valley can be quite steep and will pose severe limits to equipment operability. The dominant upland soil type is the Kalkaska-Montcalm loamy sand complex. Tawas muck and Roscommon mucky sands are typically associated with the wetlands along the Jordan River.

Ownership Patterns, Development, and Land Use in and Around the Compartment: No private property in-holdings occur within the compartment. Numerous private parcels do adjoin exterior compartment boundaries on both the north and south ends of the compartment.

Unique, Natural Features: A recent search of the Michigan Natural Features Inventory database returned a notation indicating the possible presence of Red-Shouldered Hawk (*Buteo lineatus*). I located two active nests while conducting stand exams.

Archeological, Historical, and Cultural Features: A search of the Archeological Concerns database did not identify any recorded features.

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Special Management Designations or Considerations: In 1972 the Jordan River became the first river in Michigan to be formally designated as a Wild-Scenic River under the State's Natural Rivers Act. In 1996 a large portion of the compartment was nominated for dedication as a Natural Area. That nomination is still pending but until such time that the application is formally evaluated and acted upon, the lands identified are to be managed in accordance with the statutory requirements of Act 451. A Department Directors Order is in place which governs specific recreational uses on State-owned land within this compartment lying south of M-32.

Watershed and Fisheries Considerations: In addition to the Natural Rivers designation, the Jordan River is also listed as a high quality designated trout stream. O'Brian's Pond is located in the northeast corner of section 20. This is a body of water that was formed due to the impoundment of Warner Creek by an old railroad grade. The level of this pond fluctuates widely depending on beaver activity. Shade, limiting sediment input, and woody debris recruitment are all crucial to maintaining high quality trout streams. Restricting cutting to outside of the appropriate buffers will help to maintain temperatures and the overall health of the watershed. Cutting appears to be away from these water bodies, and buffers are appropriate. As always, the appropriate BMP's should be applied when working in the proximity of surface water.

Wildlife Habitat Considerations: This compartment consists of a mix of upland hardwoods and a lowland complex associated with the Jordan River. The lowland area is used by a variety of species including waterfowl, amphibians, and various furbearers and songbirds. The upland area consists mainly of upland hardwoods with a small component of aspen that is utilized by white-tailed deer, grouse and woodcock. Stand 29 is a wildlife opening that is going to be treated to maintain it in this condition. Stands 7, 9, 13, 61, and 64 are upland hardwood stands that are going to be treated to provide structural diversity within the stand and the compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of a mixture of coarse-textured glacial end moraine deposits (high ground) and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Ellsworth Shale. This shale is quarried for shale/clay elsewhere in the State. One gravel pit is located on the moraine deposits to the north in Section 7. All State lands located on the moraine deposits have excellent gravel potential. Oil and gas potential in the area is primarily for the Antrim Shale gas play. This is part of the Jordan Valley Management Area and development is allowed and Section 17 is leased and has had long horizontal wells drilled below it.

Vehicle Access: Access for the general public is restricted to the Jordan River Road. Four gated State Forest trail roads provide additional restricted access to Department staff for management purposes. There are no State Forest trail roads open to the public within this compartment.

Survey Needs: It is possible that survey work will be required in order to carry out the prescribed treatment for stand #13 in section 20.

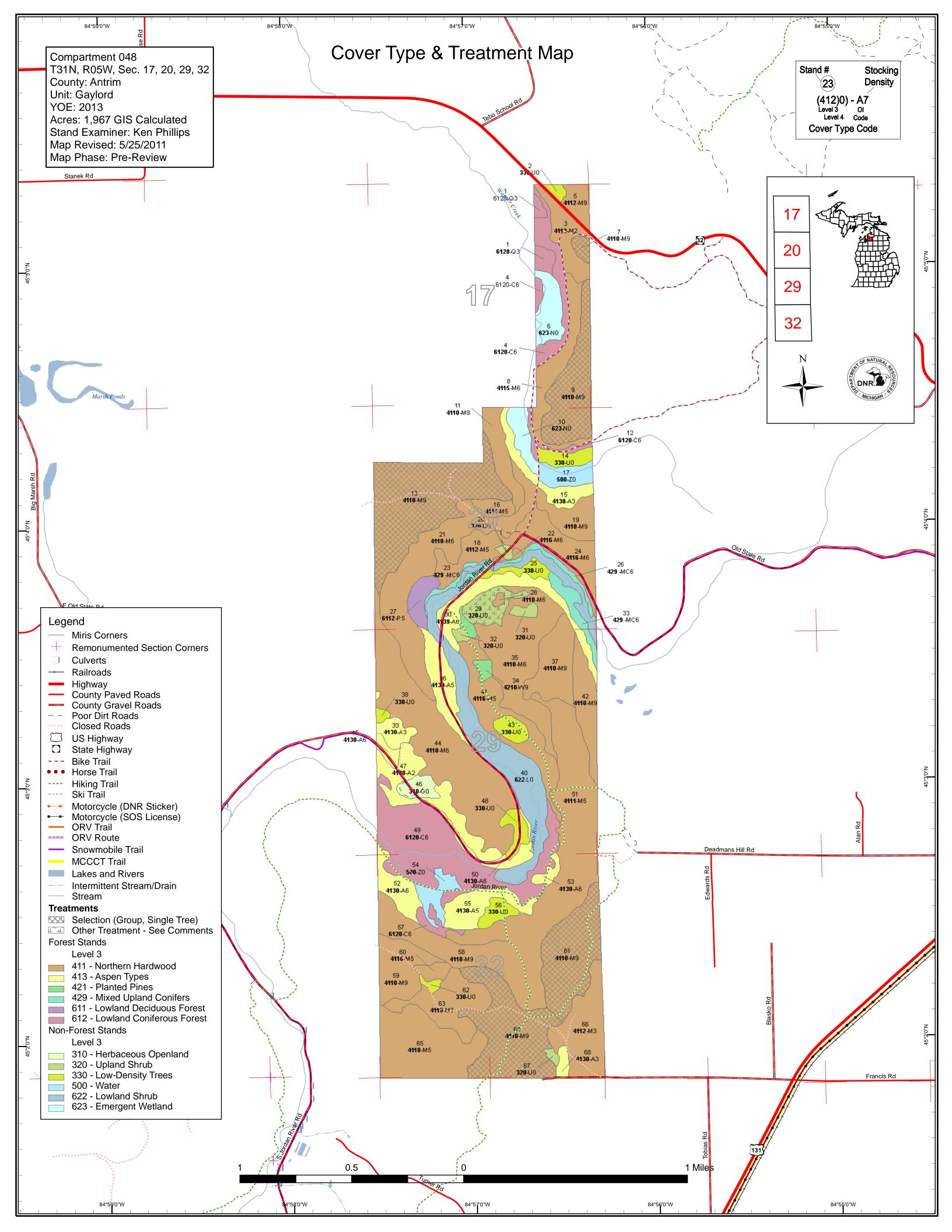
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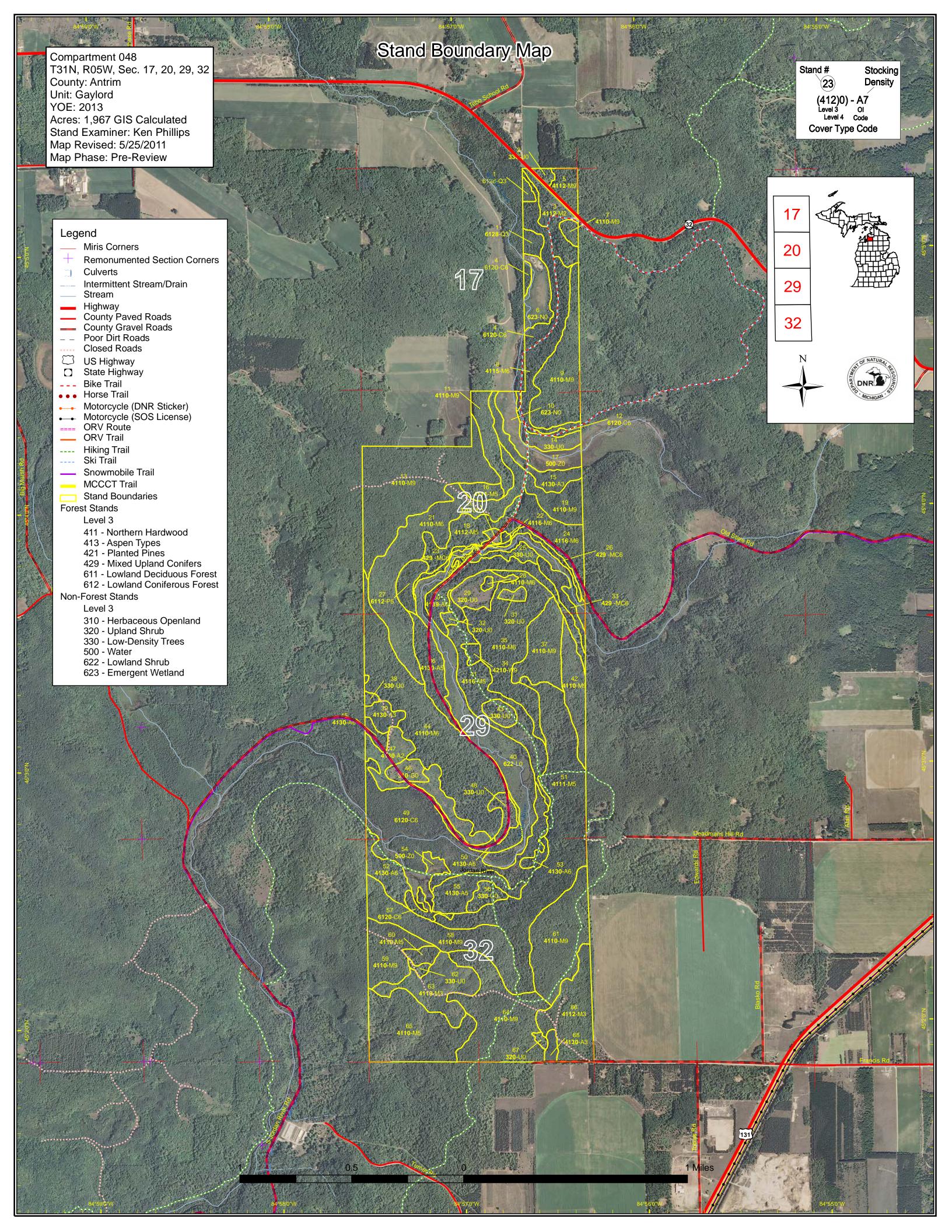
Recreational Facilities and Opportunities: Portions of the Jordan River and Warner Creek hiking trails are located within this compartment. The nationally recognized North Country Trail (NCT) utilizes sections of these two pathways as it passes through the compartment. A designated snowmobile trail utilizes the seasonally maintained Jordan River Road.

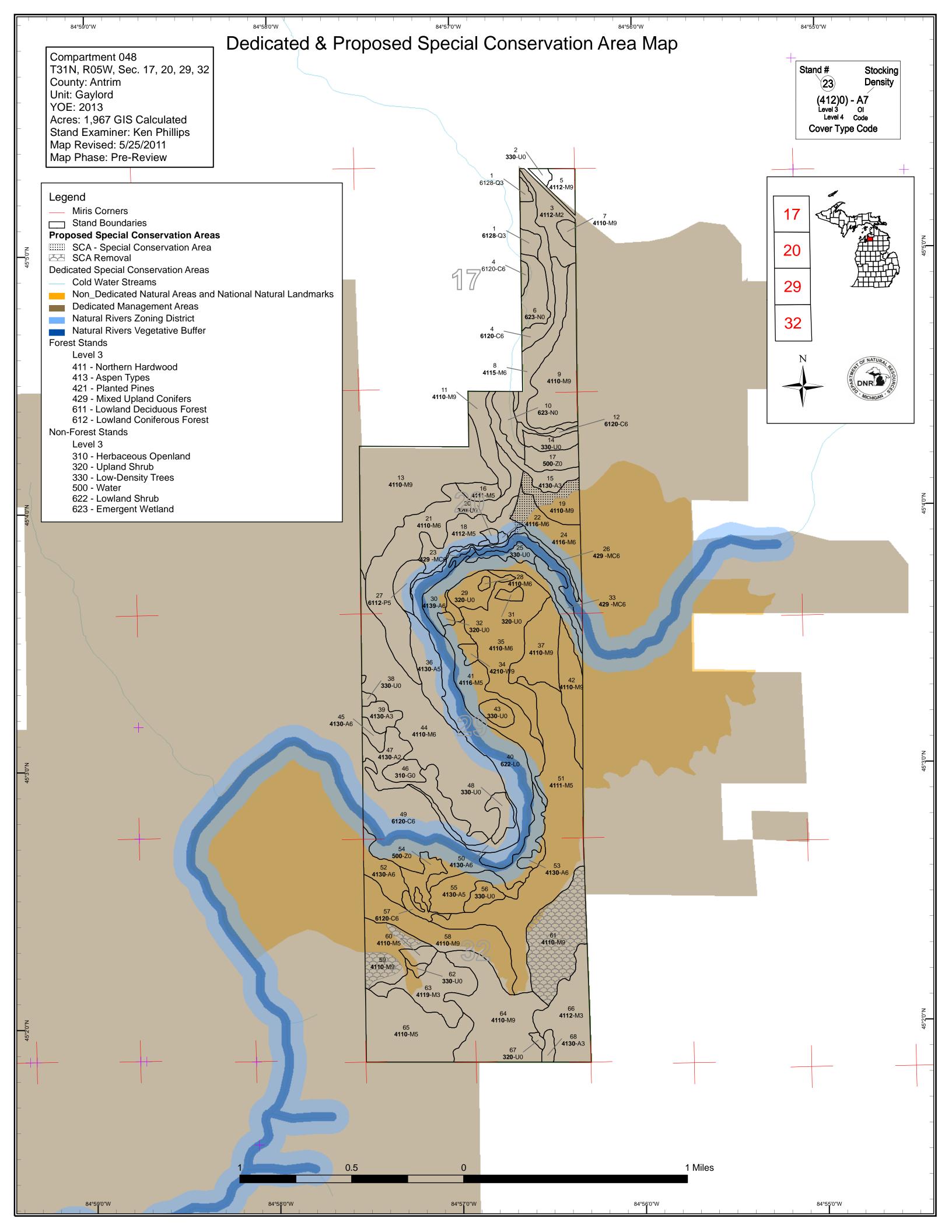
Fire Protection: The limited existing road network and steep terrain features would combine to pose a substantial access problem to most off road areas within the compartment. Fortunately, this compartment is composed of generally low risk fuel types.

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







Compartment 048 Year of Entry 2013

Gaylord Mgt. Unit Kendal Phillips : Examiner



Age Class

							Age	Ciass									
	*gr	40	6,7	0.70	op. St.	\$5.0g.	DO.	\$5.0g	86.00	R. P.	\$ 6	85.00	00,00	70,73	Za X	St. A.	No.
Aspen	0	38	0	35	0	0	0	0	30	97	0	0	0	0	0	200	
Cedar	0	0	0	0	0	0	0	0	0	32	114	0	0	0	0	146	
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	ĺ
Low-Density Trees	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52	1
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	12	1
Lowland Conifers	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9	1
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	1
Marsh	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	1
Northern Hardwood	0	0	0	90	0	23	0	0	141	308	174	326	262	0	0	1325	1
Upland Conifers	0	0	0	0	0	0	0	0	22	0	0	2	0	0	0	24	1
Upland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	l
White Pine	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	1
Total	246	38	0	125	9	29	0	0	205	438	288	328	262	0	0	1967	
																	4



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit

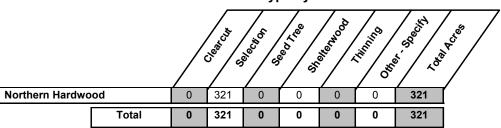
Compartment 048 Year of Entry 2013 **Total Compartment Acres: 1967**

Acres by Treatment Type

Commercial Harvest - 321 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Tree Seeding - 0 Pesticide - 0 Opening Maintenance - 16

Cover Type by Harvest Method



DNR DNR

Table 3 -- Treatments Prescribed Compartn Gaylord Mgt. Unit with No Limiting Factor Year of E s t а **Treatment** Size Stand **Treatment Treatment** Cover Type **Approval** Acres Stage1 n Density Method Name Objective Status CoverType Type d Age 52048007-Cut 4.6 4110 - Sugar Maple High Density Log 95 Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review Association Association Proposal Prescription Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Due to the presence of beech bark disease in this compartment, I would recommend removing all but the very smooth barked beech stems. Occassional hemlock exist throughout the stand and Specs: these should be left. <u>Other</u> -- Kendal Phillips: 05/18/2011 comments: Comments: For access and logistical reasons it would be best to mark this stand in 2015 in conjunction with the thinning of stand #31 in compartment #47 adjacent to the east. The proposed start date for work has been set to 10/01/2014 to reflect this out of year of entry work. The goal is to release crops trees within the residual stand while also opeing up the canopy to promote natural northern hardwood regeneration. Next Steps: 9 **52048009-Cut** 54.7 4110 - Sugar Maple High Density Log Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review Association Association Proposal Prescription Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Due to the presence of beech bark disease in this compartment, I would recommend removing all but the very smooth barked beech stems. Specs: For access and logistical reasons it would be best to mark this stand in 2015 in conjunction with the thinning of stands #31 and #40 in Other_ compartment #47 adjacent to the east. The start up date has been changed to 10/01/2014 to reflect this out of entry year work. Comments: The goal is to release crops trees within the residual stand while also opeing up the canopy to promote natural northern hardwood regeneration. **Next** Steps: 13 52048013-Cut 115.0 4110 - Sugar Maple High Density Log 110 Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review Association Association Proposal Prescription Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Due to the presence of beech bark disease in this Specs: compartment, I would recommend removing all but the very smooth barked beech stems. Existing access is available but some road improvements will be required. A survey may be required to identify the private property lines on the Other_ north side of the stand. Comments: The goal is to release crops trees within the residual stand while also opeing up the canopy to promote natural northern hardwood regeneration. Next Steps: 52048061-Cut 63.9 4110 - Sugar Maple High Density Log Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review Association Association Proposal Prescription Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Remove basswood clumps when possible. Specs: Other_ We may want to consider a winter only harvesting specification due to the presence of the North County Pathway/Jordan River Trail. A small Comments: semi-open area along the border of the farm field will not need to be marked. The goal is to release crops trees within the residual stand while also opeing up the canopy to promote natural northern hardwood regeneration. Next Steps: 52048064-Cut 82.6 4110 - Sugar Maple High Density Log 90 Harvest Single Tree Selection 4110 - Sugar Maple Cmpt. Review

Association Association Proposal

Prescription Release crop trees by selectively marking down to 80-90 square feet of residual basal area. Remove basswood clumps when possible. Due to the presence of beech bark disease in this compartment, I would recommend removing all but the very smooth barked beech stems. Specs:

Other We may want to consider a winter only harvesting specification due to the presence of the North County Pathway/Jordan River Trail. Comments:

Next The goal is to release crops trees within the residual stand while also opeing up the canopy to promote natural northern hardwood regeneration. Steps:

Gaylord Mgt. Unit Table 3 -- Treatments Prescribed Compartment: 048 Year of Entry 2013 with No Limiting Factor s t **Treatment** Acres Stage1 Size Stand **Treatment Treatment Cover Type Approval** n CoverType Density Method Objective Status Name Age Type d 29 NF_52048029-16.5 Non-Forested 0 Non-Forest Other - Specify 3205 - Mixed Upland Cmpt. Review Management . Proposal NonFor Shrub <u>Prescription</u> Opening Maintenance Specs: <u>Other</u> Comments: <u>Next</u>

Total Treatment

Steps:

Acreage Proposed: 337.2

S t a		Gay	lord Mgt. Unit	Table 4 -		ents Prescrib ing Factor	Compartment: 048 Year of Entry 2013	DNR DNR DNR	
n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Error						
Preso Spec	cription s:								
Othe Com	<u>r</u> ment:								
Next Steps									
	ing Factor and N tment Reason	<u>lo</u>							

Total Treatment
Acreage Proposed:

0

Out of YOE -- Treatments Prescribed with No Limiting Factor

Year of Entry: 2013

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Cover Type Objective Treatment Approval Status **Treatment** Treatment **Acres** Stage1 Size Stand Name CoverType Density Type Method Age <u>Prescription</u> Specs: <u>Other</u> Comments: <u>Next</u>

Total Treatment Acreage Proposed:

oposed:

0

Steps:

S t	Gaylord Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 048 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	8.5	35		A multi-poly stand of two seperate area of dense conifer regen that may have developed following a blowdown event. The regen is 15-20 feet tall and includes a lot of cedar.
3	4112 - Maple, Beech, Cherry Association	Medium Density	22.8	40	1-50	Based on land record cards this stand was presumably cut in 1971. The basal area recorded was primarily in residual pole sized trees. The regeneration in my mind is definitely the dominant feature. There are some semi-open areas scattered throughout the stand. Much of the regen is over 40 feet tall. White pine while not a dominant species is very apparent in this stand.
4	6120 - Lowland Cedar	High Density Pole	26.3	85	141-170	This stand transitions from uplands to the east to the low ground along warner Creek to the west. Red maple is fairly common along the eastern edge. This is a multi-poly stand that also includes a small area on the west side of Warner Creek.
5	4112 - Maple, Beech, Cherry Association	High Density Log	11.0	95	51-80	This stand was heavily thinned in the past resulting in a farily open stand of large diameter trees with a very well developed understory. In general the quality of this stand is low with red maple making up a significant component of the stand.
7	4110 - Sugar Maple Association	High Density Log	4.6	95	111-140	This stand was thinned in 1987 along with the stand in the adjacent compartment to the east. It is a nice quality stand growing on fairly flat terrain.
8	4115 - Y.Birch, Hemlock NH	High Density Pole	32.2	70	111-140	The majority of this stand lies on a steep west facing side hill. The red maple and yellow birch really distinguish this stand from those adjacent. There is also quite a heavy fir understory throughout this stand.
9	4110 - Sugar Maple Association	High Density Log	54.7	95	111-140	This stand lies on fairly flat terrain and extends eastward into the adjacent compartment. It does not appear that it has ever been thinned in the past.
11	4110 - Sugar Maple Association	High Density Log	21.2	90	81-110	This stand lies on a steep east facing side hill. Diameters in this stand are much larger than in any adjacent stands but the quality overall is still preety low.
12	6120 - Lowland Cedar	High Density Pole	5.7	85	141-170	A narrow multi-poly stand lying at the base of a steep slope. The edge closest to the wetlands is quite wet with a lot of tag alder. The edge near the base of the slope is drier with more red maple mixed in. I used the same data as for the larger swamp conifer stand just to the north.
13	4110 - Sugar Maple Association	High Density Log	115.0	110	111-140	This stand was sold during the last Y.O.E. but was never cut. The stand quality is very nice awith many single stemmed crop trees. The stand lies on top of a ridge on flat terrain so it is certainly operable. The biggest drawback is the low stocking level.
15	4130 - Aspen	High Density Sapling	20.2	27	1-50	This was harvested in 1984. The resulting regen is about 40-50 feet tall and is doing very well except for beaver damage along the lowland edges.

S t	Gaylord Mgt. Unit			5 – Fo	orested Sta	nds Compartment: 048 Year of Entry: 2013	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
16	4111 - S.Maple, Hard Mast Association	Medium Density Pole	8.1	100	51-80	This is a very low quality stand growing on an exposed south facing ridge top. Most of the timber is severely stunted.	
18	4112 - Maple, Beech, Cherry Association	Medium Density Pole	30.5	70	51-80	This is a very poor quality stand of open grown hardwood. Due to the open character of the stand a well developed understory has developed. The stand occupies flat ground.	
19	4110 - Sugar Maple Association	High Density Log	21.6	110	111-140	A similar stand to the sawlog sized stand further to the west. This is growing on a north facing slope. Quality of this stand is quite good.	
21	4110 - Sugar Maple Association	High Density Pole	91.8	110	111-140	A stand of decent quality poletimber growing on a steep east facing side hill. Very little aspen in this stand as compared to the south facing slopes along the Jordan Valley Road further to the east.	
22	4116 - Mixed N. Hardwood - Aspen	High Density Pole	1.9	80	81-110	An isolated stand of high density maple and aspen.	
23	429 - Mixed Upland Conifers	High Density Pole	1.9	100	81-110	A meandering stand occupying an upland ridge along the river. This is a strange stand due to the fact that it also lies on several old railroad grades that tend to give it an unnatural appearance. Some very large white pine are in this stand.	
24	4116 - Mixed N. Hardwood - Aspen	High Density Pole	32.9	80	81-110	Stand occupies a south facing slope and the flat ground adjacent to the Jordan River Road. Aspen is very apparent in this stand. Some of the very steep slopes are only sparsely stocked.	
26	429 - Mixed Upland Conifers	High Density Pole	10.2	70	81-110	A narrow meandering stand on upland soils but bordering the lowlands adjacent to the river. This is a very variable stand but due to the narrowness of the stand it could not be further subdivided due to the mapping standards. Most areas are heaviest to fir but some areas have a lot of white pine. There has been lots of recent windthrow in this stand.	
 27	6112 - Lowland Aspen	Medium Density Pole	11.9	70	51-80	This is definitely a wet stand for a large part of the year. Lots of craddel knolls throughout the stand. There is also a very heavy lowland shrub understory. This stand is isolated from the lowlands along the river by a slight narrow ridge of uplands.	
 28	4110 - Sugar Maple Association	High Density Pole	1.5	80	81-110	This is an island of hardwood within a wildlife opening.	
30	4139 - Aspen, Mixed Deciduous	High Density Pole	35.1	80	51-80	This stand is very similar to the stand to the west on the other side of the river. This stand is on an upland site that appears to have a slightly higher water table. There is a very diverse understory.	
33	429 - Mixed Upland Conifers	High Density Pole	11.5	70	81-110	A narrow stand along the river that is predominately upland although there are occassional pockets of low ground included.	
34	42101 - Planted White Pine, Mixed Deciduous	High Density Log	6.6	40	111-140	This is a multi-poly stand of planted white pine. Apparently a Boy Scout troop planted this in 1971. Growth rates are very impressive since most stems are 10 inches in DBH.	

S t	Gaylord Mgt. Unit			5 – Fo	orested Sta	Compartment: 048 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
35	4110 - Sugar Maple Association	High Density Pole	77.5	80	81-110	This is a very low quality stand dominated by small diameter basswood clumps. Stand lies on flat terrain. The understory is fairly dense and well developed.
36	4130 - Aspen	Medium Density Pole	26.1	80	1-50	An over-mature stand of aspen on a seasonally wet site. Lots of mortality which is why the basal area is so low. There is a very heavy and complex understory that most likely holds a lot of birds. A few big white pine are scattered throughout. I have also included a couple of small patches of low quality northern hardwood within this stand that were too small for mapping standards.
37	4110 - Sugar Maple Association	High Density Log	36.4	100	141-170	Stand of fairly nice quality hardwood on slightly rolling terrain. This is a lot nicer than the stand adjacent to the west. Stand has a light understory.
39	4130 - Aspen	High Density Sapling	10.5	28	1-50	This is a multi-poly stand of aspen regen. which resulted from a 1983 harvest. Portions of both units of this stand extend west into the adjacent compartment.
41	4116 - Mixed N. Hardwood - Aspen	Medium Density Pole	47.8	80	51-80	This is a highly variable, generally low quality stand growing on a dry upland site. Aspen is more prevalent closer to the river while open grown hardwoods dominate on the higher ground. The aspen is over-mature and are slowly being eliminated by beaver activity. There is a very complex and heavy understory throughout the stand.
42	4110 - Sugar Maple Association	High Density Log	27.2	105	111-140	This stand lies on a steep east facing side hill. There are very large diameter trees in this stand. Often they are old and of poor form. I found two active RSH nests in this stand.
44	4110 - Sugar Maple Association	High Density Pole	133.6	105	81-110	This is a low quality stand with a heavy percentage of basswood clumps. The stand occupies flat terrain for the most part but a narrow east facing slope was also included near the Jordan Valley Road. The stand has a well developed understory.
45	4130 - Aspen	High Density Pole	5.2	80	51-80	An over-mature stand of aspen that was presumably left for aesthetic reasons when the adjacent timber was cut. There is a very thick and well developed understory.
47	4130 - Aspen	Medium Density	37.5	6		Stand was cut in 2004-2005. For the most part this is poor quality regeneration. Large patches of primarily blackberry and raspberry occur throughout the stand. Most of the aspen regen is less tha 10 feet tall. Widely scattered hardwood residual was left throughout in addition to all elm, white pine and upland shrubs.
49	6120 - Lowland Cedar	High Density Pole	107.4	90	141-170	Overall this is a mixed swamp conifer stand that is quite wet. Cedar dominates especially near the river and seeps. Black spruce is more prevalent on the better drained areas of the stand. Some portions of the stand are intermixed with patches of open marsh.
50	4130 - Aspen	High Density Pole	12.5	80	81-110	An over-mature stand of aspen which again was apparently left as a visual buffer when the adjacent stand was cut. Portions of the stand nearest the river are experiencing beaver damage.

S	Gaylord Mgt. Unit t			5 – Fo	orested Sta	Compartment: 048 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	4111 - S.Maple, Hard Mast Association	Medium Density Pole	146.8	85	51-80	The stand occupies a steep west facing side hill below Deadman's Hill overlook. Some of the steepest, most exposed slopes are sparsely stocked. Lower slopes tend to be better quality. There is a well developed understory.
52	4130 - Aspen	High Density Pole	18.6	80	51-80	This is a dry stand at the base of a steep slope. It also lies adjacent to an area of lowlands and has suffered past beaver damage along the wetland edges. The aspen component is over-mature and falling apart. The understory is well developed and is slowly replacing the stand as the aspen continues to die out.
53	4130 - Aspen	High Density Pole	5.0	75	51-80	Stand of over-mature aspen that lies on the lower slopes and bottomlands along an area of cedar springs.
55	4130 - Aspen	Medium Density Pole	24.9	75	51-80	This stand apparently has a high water table as there is a seep that begins within the stand which eventually forms a small tributary to the Jordan. Where this tributary intersects with the hiking trail a small 1/2 acre stand of Phragmites has developed in a partially flooded portion of the stand. It is unknown at this time if the Phragmites is native or invasive. The timber in the stand is often sparse with lowland conifer species occuring frequently throughout the stand. Several large white pine are also in the stand.
57	6120 - Lowland Cedar	High Density Pole	6.6	90	141-170	This is a small isolated stand of swamp conifers growing at the base of a very steep side hill. Numerous springs seep out of this stand forming a tributary to the Jordan River. I used the same data as for the large swamp stand to the north.
58	4110 - Sugar Maple Association	High Density Log	57.0	100	81-110	This stand lies on a steep north facing side hill. This is nice quality hardwood witha light understory. Beech bark disease is in this stand.
59	4110 - Sugar Maple Association	High Density Log	33.5	110	81-110	This stand lies on flat ground at the top of a steep slope that drops off to the north. It is much better quality than the stand further to the south. There is a well developed understory throughout this stand.
60	4110 - Sugar Maple Association	Medium Density Pole	6.3	70	51-80	This is a low quality open grown hardwood stand with a well developed understory. It is growing on fairly flat terrain.
61	4110 - Sugar Maple Association	High Density Log	63.9	100	111-140	This is a nice quality stand growing on flat terrain. Basswood is still multiple stemmed but sugar maple is largely single stemmed. A small semi-open area lies adjacent to the farm field in the far northern portion of the stand. This area was too small to delineate out as a seperate stand.
63	4119 - Mixed Northern Hardwoods	High Density Sapling	41.1	27	1-50	This stand was cut in 1984. The parent stand did have some aspen in it and it has regenerated in isolated portions of the stand. Northern hardwood regen is still dominant though. Aspen is far out distancing the hardwood regen both in hieght and diameter growth.

s t	Gaylor	d Mgt. Unit		5 – Fo	orested Sta	Compartment: 048 Year of Entry: 2013
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	4110 - Sugar Maple Association	High Density Log	82.6	90	111-140	This is a moderate quality hardwood stand. It is much nicer than the stand to the west but not as nice as the stand to the northeast. This stand still has a lot of multiple stemmed clumps in it.
65	4110 - Sugar Maple Association	Medium Density Pole	72.4	70	51-80	This is a very poor quality stand on rolling terrain. Many of the south facing slopes are sparsely stocked with stunted timber. There is a fairly well developed understory so possiblly over time this stand will develope on it's own.
66	4112 - Maple, Beech, Cherry Association	High Density Sapling	48.8	27		This northern hardwood stand was final harvested in 1984. The resulting regen is very heavy to cherry with very little aspen anywhere in the stand. The south end of the stand is poorer quality. Some jack pine have been planted along the road in an effort to control vehicle access to the interior road system. Only a couple of residual trees were left in the sale area.
68	4130 - Aspen	High Density Sapling	4.4	27	1-50	This stand was part of a 1984 timber sale that also included the adjacent stand of hardwood regen. This must have been the only clone of aspen within the parent stand. The regen here is over 50 feet tall and some individual stems are reaching merchantable size.

6 - Nonforested Stands

Compartment: 048 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:		
2	3301 - Low Density Deciduous Tree	2.9	No	Unspecified	A semi-open stand of cherry and open grown hardwoods.		
6	6233 - Wet Meadow	19.8	No	Unspecified	For the most part this is an open stand of marsh grass species. Immediately adjacent to Warner Creek, however, some stunted cedar do occur. I saw two Sandhill Cranes in this stand.		
10	6233 - Wet Meadow	13.1	No	Unspecified	A stand of lowland grass species growning along Warner Creek. Beavers are starting to impound stretches of the creek so some areas are currently flooded.		
14	3302 - Low Density Conifer Trees	10.1	No	Unspecified	Most of this stand is dead standing cedar that was flooded by beaver activity. Only a few live trees are left.		
17	50 - Water	14.0	No	Unspecified	O'Brian's Pond. The water level is especially high due to recent beaver activity.		
20	3205 - Mixed Upland Shrub	2.3	No	Unspecified	This is quite an open stand. There are a few open grown hardwoods and quite a few apple trees.		
25	3303 - Mixed Low Density Trees	7.9	No	Unspecified	This stand occupies uplands but it is immediately adjacent to the lowland brush stand near the Jordan River. There is a wide mix of species but the overall stocking level is still quite sparse.		
29	3205 - Mixed Upland Shrub	16.5	Yes	Low (NonForested)	This is a managed wildlife opening. Notes indicate that Siberian Crab were plated here in 1971 but I suspect other species may have been planted over the years as well. Windrows still exist from when the opening was created.		
31	3205 - Mixed Upland Shrub	3.6	Yes	Low (NonForested)	This is a managed wildlife opening. Notes indicate that Siberian Crab were plated here in 1971 but I suspect other species may have been planted over the years as well.		
32	3205 - Mixed Upland Shrub	2.3	Yes	Low (NonForested)	I believe that this is a wildlife opening. There is a lot of Siberian Crab in it along with some cherry.		
38	3301 - Low Density Deciduous Tree	2.0	No	Unspecified	A lightly stocked stand of large diameter open grown hardwoods. The majority of this stand lies in the adjacent compartment to the west.		
40	6229 - Mixed lowland shrub	97.6	No	Unspecified	This stand straddles both sides of the Jordan River for a considerable distance. Various lowland shrub species are represented. Some areas of open marshland also were found.		
43	3301 - Low Density Deciduous Tree	8.6	No	Unspecified	Primarily scattered cherry with some open grown hardwoods. This appears to be a low quality, dry site.		

6 - Nonforested Stands

Compartment: 048 Year of Entry: 2013



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
46	3105 - Mixed Upland Herbaceous	9.4	No	Unspecified	This stand was included in the harvest of the surrounding aspen stand. This was already a poorly stocked stand before the harvest and it has not really regenerated except for a few isolated clones of aspen that are coming back. Lots of black berry.
48	3301 - Low Density Deciduous Tree	9.4	No	Unspecified	A semi-open stand. Open grown hardwoods are found toward the west but cherry dominate along the road.
54	50 - Water	13.2	No	Unspecified	This is open water for the most part. Some areas of marsh though do exist as well. A tributary to the Jordan flows through this stand.
56	3301 - Low Density Deciduous Tree	8.9	No	Unspecified	This is a semi-open stand of low density open grown northern hardwoods. Actually the understory is beginning to fill in on it's own quite well.
62	3303 - Mixed Low Density Trees	2.5	No	Unspecified	This is a semi-open stand of open grown hardwood along with some white pine. Lots of blackberry and raspberry in this stand.
67	3205 - Mixed Upland Shrub	1.9	No	Unspecified	A very open stand of scattered cherry.

Gaylord Mgt. Unit

Compartment: 048
Year of Entry: 2013



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.

Stand	SCA Type	SCA Name	Acres	Comments
19	Unique Site - SCA	52048019	21.6	Maintain SCA coding as this area was probably meant to be mapped as part of the nominated Natural Area for the Jordan Valley. It has the same cover type and topography as the nominated area and its exclusion from the current boundary is likely just a mapping error.
61	SCA Removal	52048061 - SCA Removal	63.9	It is proposed to remove the SCA designation for these areas. They were previously coded "Potential Old Growth" but fall outside of the nominated Natural Area for the Jordan Valley, and are otherwise managerailly desirable for treatment.



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.

Conservation Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen condistocked trout populations and those of other coldwater fish specific year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210.	es (e.g., slimy sculpin) to persist from se conditions due to substantial
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific managrules, as governed by Part 5, Department of Natural Resources, 324.504). Section 38 of the Administrative Procedures Act (MCL the promulgation of rules. This is an active program, with one pro DNR.	of the NREPA (MCL 324.502(2) and 24.238) provides for public requests for
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from sprapproved distance from the river centerlines. The Natural Rivers most Natural Rivers. The Vegetative Buffer ranges from 25 to 10 and Vegetative Buffers for each Natural River see the table locate folder.	Zoning District is a 400 foot buffer for 0 feet. To view specific Zoning Districts
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wilderness and Froposed for legal dedication, but for which legal dedication by le nomination process is defined by Part 351, Wilderness and Natu Environmental Protection Act, 1994 PA 451. The program is adm require the submittal of a Natural Areas Nomination Packet to the proposed sites in various stages of review. Final dedication of no Areas is accomplished through legislative action.	gislature has not occurred. The ral Areas, of the Natural Resources and inistered by the DNR. Nominations DNR. This is an active program, with