



**FOREST MANAGEMENT UNIT  
COMPARTMENT REVIEW PRESENTATION**

**COMPARTMENT # 29 ENTRY YEAR: 2011**

**Compartment Acreage: 1410 County: Gladwin**

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**Revision Dates:** Draft 10-12-09, 10-29-09.

**Stand Examiner:** Mark Reichel

**Legal Description:** T20N, R2E, Sections 1, 2, 3, 9, 10, 11, 12

**Management Goals:** The primary priority in this compartment is improving access. Currently only about 350 acres are accessible for timber and wildlife management, as well as low enforcement (see vehicle access section below). Consequently, three harvests and a large planting were factor limited for access reasons. Only 18% of this compartment is aspen cover (low for Gladwin FMU), and none of this aspen is over 30 years old, so there are no aspen harvests this year of entry. One diverse mixed stand will have an aspen/red maple removal to maintain these species while maintaining the stand as a mixed stand. Much of the compartment, especially the western portion, is good upland pine sites that were historically upland hemlock/white pine forest according to the GLO records. In the absence of fire this area has succeeded toward hardwoods and the red pine component is decreasing, but red pine is an intermediate seral species on these sites according to Kotar. Almost ¼ of this compartment is white pine.

**Soil and Topography:** The compartment is in the headwaters of the Tittabawassee River, with the East Branch of the river, LaPorte Creek and smaller drainages in the northern and western portions of the compartment. These drainages have short but steep slopes and consist of soils in the Evert-Winterfield association. There is a lot of wetland in section 12. The compartment is only 22% lowland, which is low for Gladwin FMU. The low areas consist of Kinross, Roscommon and associated poorly drained soils (15-20% of the compartment). The western end of the compartment, and the east half of section 2, are mostly upland with a large percentage of Rubicon and associated soils (about 20% of the compartment). The majority of the compartment is Au Gres, Croswell and Chelsea soils, which range from moderately well drained to poorly drained, but are mostly somewhat poorly drained. Soils in this compartment are diverse, with small areas of soils from a number of other soil associations represented (Iosco-Brevort-Ingalls, Epoufette, etc.).

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** This compartment consists of four parcels, spread over seven sections; it borders a large amount of private land. The surrounding private land is mostly forested and used for hunting camps and some permanent residences.

**Unique, Natural Features:** None per MNFI.

**Archeological, Historical, and Cultural Features:** None per HAL database.

**Special Management Designations or Considerations:** None

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** This is a very diverse and highly productive wildlife compartment. Habitat essentials for turkeys, deer, grouse, waterfowl, cats and bears are present. Eagles commonly utilize the East Branch of the Tittabawassee River as a foraging area. Consequently, permanent public access to this compartment is very necessary. A large amount of illegal food plot establishment, baiting and the use of permanent blinds occurs in the landlocked portions of this compartment. Factor limited stands with a good component of aspen, such as stands 25 and 26 (which need to be cut this rotation), will be considered for habitat cuts.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel and fine-textured till. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Mississippian Bayport Limestone and Michigan Formation. The Saginaw Formation is used for clay/shale for brick making, the Bayport for limestone and the Michigan for gypsum in other areas of the State. Gravel pits are located in Sections 14 & 16, and there is potential. This compartment has had sparse exploration for oil and gas. There are no oil and gas leases in the compartment currently.

**Vehicle Access:** The compartment is just west of U.S. Highway 75. Access is very limited with most of the compartment (sections 1, 10, 11 and 12) landlocked by private land. Access is further blocked by the river and creeks. Management activities have occurred in the past when access was authorized through a private gate situated north of East Sugar River Road. Attempts at negotiating an easement into this area have not been successful to date. The area in section 2 north of LaPorte Creek is accessible through state land in Ogemaw County off Greenwood Road. Public foot access can also be gained into Sec. 13 (from the south) along an unmaintained easement (Westfield Road) which functions as the Gladwin/Arenac County line. In Section 3 (SW ¼ of the NW ¼) a road exists across state land that has been maintained by a hunting club and is in violation of D.E.Q. regulations.

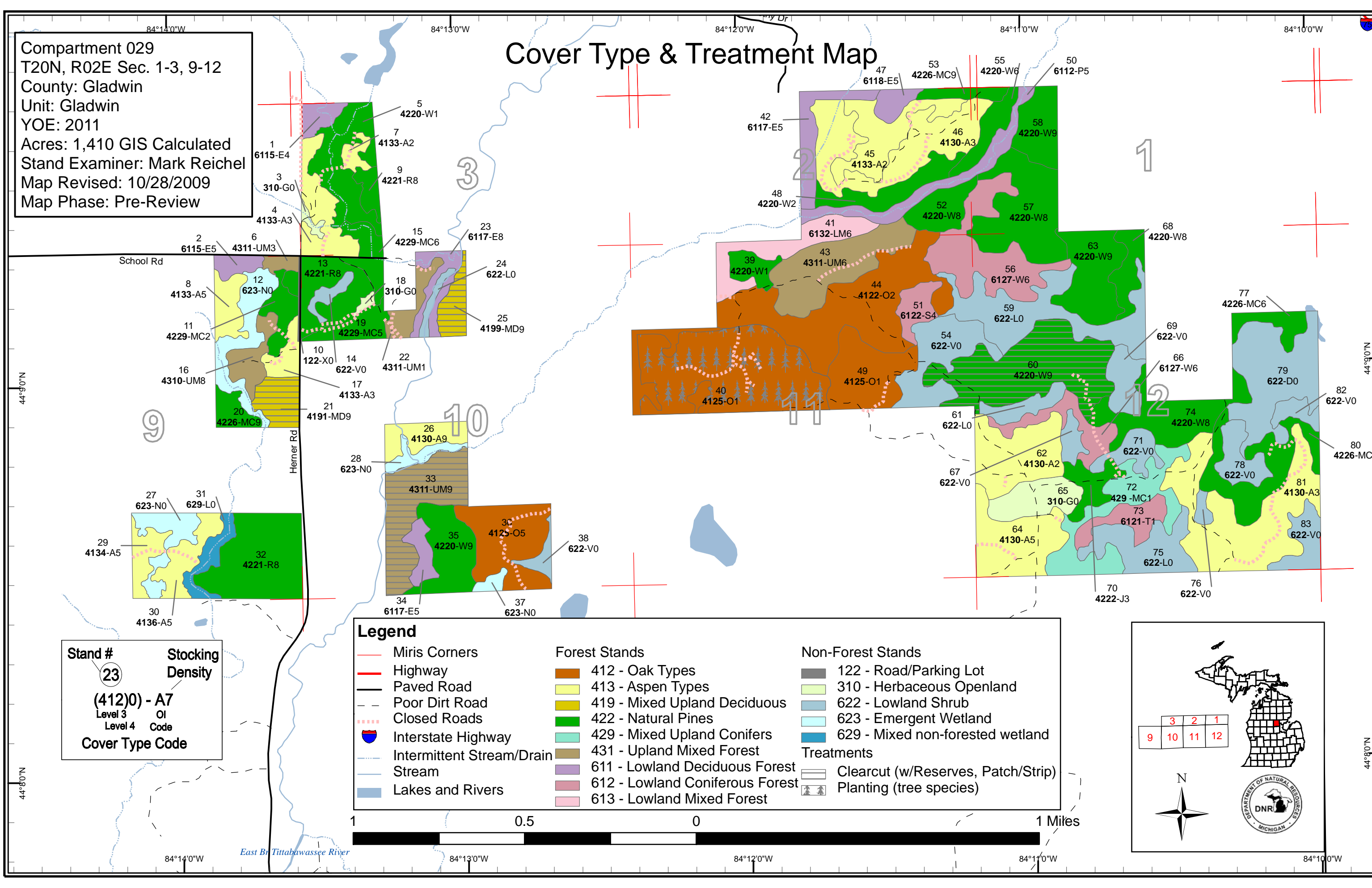
**Survey Needs:** A large amount of the private line is falsely posted 75 to 100 feet onto state land.

**Recreational Facilities and Opportunities:** The main portion of the compartment south of LaPorte Creek is heavily used for hunting, and has a fairly large amount of unauthorized ORV activity.

**Fire Protection:**

# Cover Type & Treatment Map

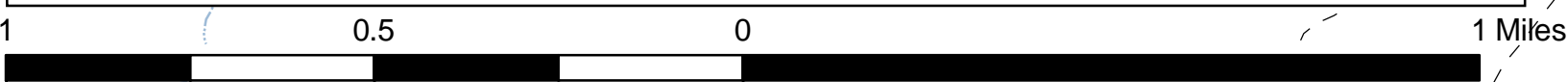
Compartment 029  
 T20N, R02E Sec. 1-3, 9-12  
 County: Gladwin  
 Unit: Gladwin  
 YOE: 2011  
 Acres: 1,410 GIS Calculated  
 Stand Examiner: Mark Reichel  
 Map Revised: 10/28/2009  
 Map Phase: Pre-Review



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

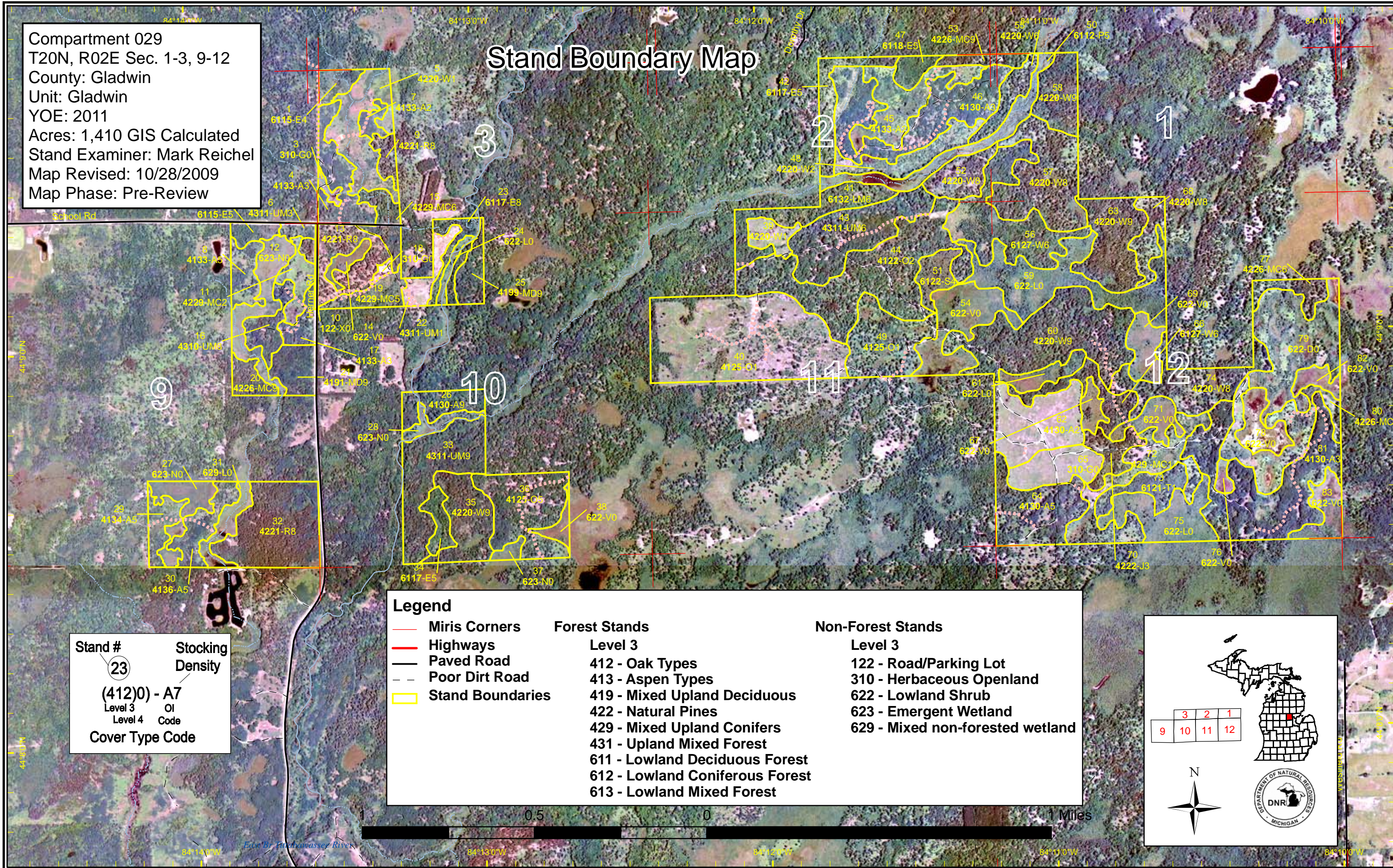
**Legend**

— Miris Corners	<b>Forest Stands</b>	<b>Non-Forest Stands</b>
— Highway	412 - Oak Types	122 - Road/Parking Lot
— Paved Road	413 - Aspen Types	310 - Herbaceous Openland
— Poor Dirt Road	419 - Mixed Upland Deciduous	622 - Lowland Shrub
— Closed Roads	422 - Natural Pines	623 - Emergent Wetland
— Interstate Highway	429 - Mixed Upland Conifers	629 - Mixed non-forested wetland
— Intermittent Stream/Drain	431 - Upland Mixed Forest	<b>Treatments</b>
— Stream	611 - Lowland Deciduous Forest	Clearcut (w/Reserves, Patch/Strip)
— Lakes and Rivers	612 - Lowland Coniferous Forest	Planting (tree species)
	613 - Lowland Mixed Forest	



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# Stand Boundary Map

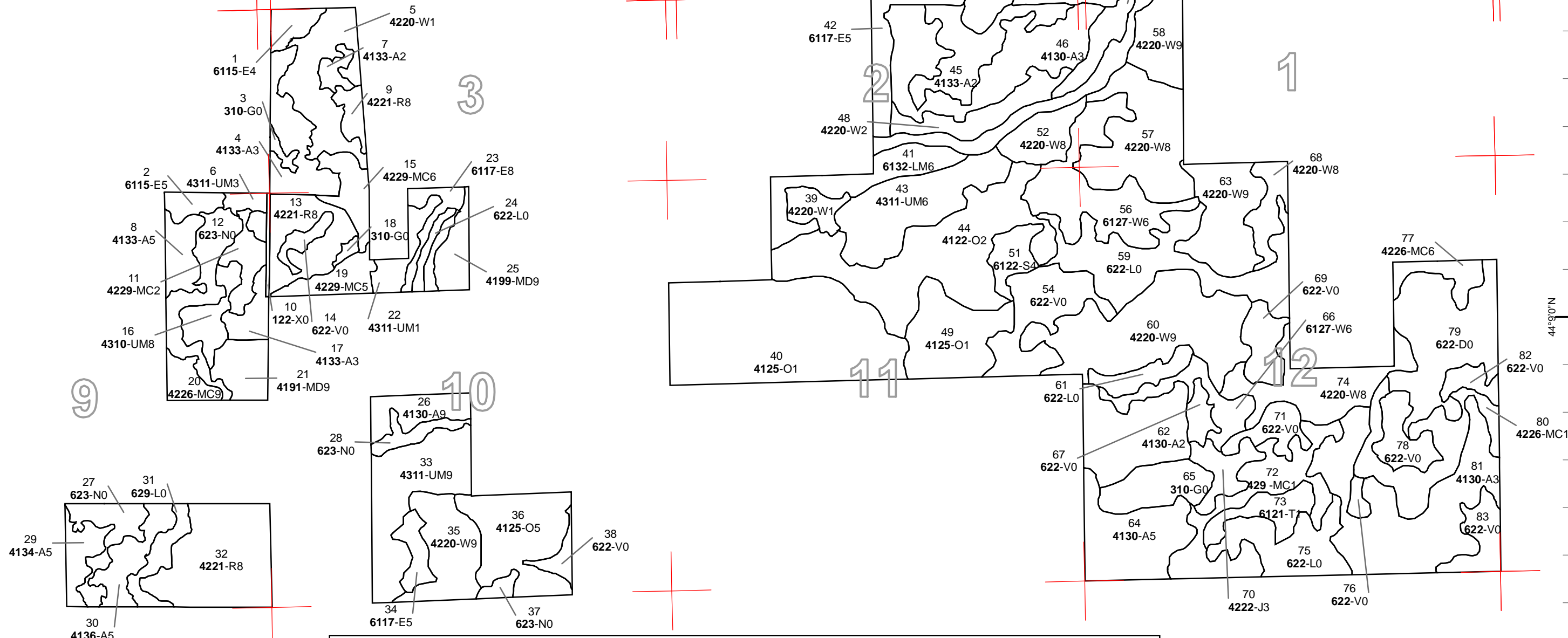


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 23  
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**Cover Type Code**

Legend	
	Miris Corners
	Highways
	Paved Road
	Poor Dirt Road
	Stand Boundaries
<b>Forest Stands</b>	
Level 3	
412	- Oak Types
413	- Aspen Types
419	- Mixed Upland Deciduous
422	- Natural Pines
429	- Mixed Upland Conifers
431	- Upland Mixed Forest
611	- Lowland Deciduous Forest
612	- Lowland Coniferous Forest
613	- Lowland Mixed Forest
<b>Non-Forest Stands</b>	
Level 3	
122	- Road/Parking Lot
310	- Herbaceous Openland
622	- Lowland Shrub
623	- Emergent Wetland
629	- Mixed non-forested wetland



# Dedicated & Proposed Special Conservation Area Map



Legend		Forest Stands	Non-Forest Stands
	Miris Corners	<b>Level 3</b>	<b>Level 3</b>
	Stand Boundaries	412 - Oak Types	122 - Road/Parking Lot
		413 - Aspen Types	310 - Herbaceous Openland
		419 - Mixed Upland Deciduous	622 - Lowland Shrub
		422 - Natural Pines	623 - Emergent Wetland
		429 - Mixed Upland Conifers	629 - Mixed non-forested wetland
		431 - Upland Mixed Forest	
		611 - Lowland Deciduous Forest	
		612 - Lowland Coniferous Forest	
		613 - Lowland Mixed Forest	

## Covertypes, Acres, and Age summary (Level 3 Cover Type)

Gladwin Mgt. Unit

Compartment 029 Year of Entry 2011

Report Date: 10/29/2009



	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	29	87	57	30	0	0	0	0	0	11	0	0	0	35	249
Emergent Wetland	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Herbaceous Openland	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Coniferous Forest	0	0	0	0	11	0	0	0	0	0	0	0	0	0	57	68
Lowland Deciduous Forest	0	0	0	6	0	0	13	0	22	6	0	0	0	0	15	62
Lowland Mixed Forest	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	199	0	0	0	0	0	0	0	0	0	0	0	0	0	0	199
Mixed non-forested wetland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Conifers	0	0	0	0	29	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	11	0	8	0	0	0	0	0	0	19
Natural Pines	0	7	40	42	27	0	26	9	45	26	12	0	0	0	171	405
Oak Types	0	82	0	27	0	0	0	0	0	0	0	0	0	0	96	205
Road/Parking Lot	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Mixed Forest	0	7	0	3	34	0	0	0	0	0	0	0	0	0	43	88
<b>Total</b>	<b>263</b>	<b>126</b>	<b>127</b>	<b>135</b>	<b>151</b>	<b>0</b>	<b>37</b>	<b>22</b>	<b>54</b>	<b>48</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>417</b>	<b>1410</b>

**PROPOSED TREATMENTS  
NO LIMITING FACTORS**



S  
t  
a  
n  
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
21 73029021-ShP-Cut	11.0	4191 - Mixed Upland Deciduous with Conifer	High Density Log	50	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer

Rev Cmnt: Will have regen of all spp and should retain a mixed stand, white pine will not be attacked by weevil due to overstory, and equipment will reduce heavy white pine understory. If stand is not treated it would go to white pine. Prescription may increase natural red pine component. This is a diverse, mesic fairly good quality upland ready to cut, & it has good access. Large, old white pine stumps present in stand. Trace of balsam fir.

Rev Spec: Cut all aspen and red maple. Do not cut any other species. Should get residual BA of 70, of oak, red and white pine, birch and white ash.

Next Steps: Stand will be same cover type after treatment, but with no aspen or red maple in overstory, but new maple and aspen in the understory, effectively creating a two aged stand. Some oak and/or red pine may also regenerate after harvest, which is desirable, but not critical.

**Total Treatment  
Acreage Proposed: 11.0**

**PROPOSED TREATMENTS  
WITH LIMITING FACTORS**



S  
t  
a  
n  
d

Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
<b>60 73029060-FH-Cut</b>	54.9	42200 - Natural White Pine	High Density Log	50	Harvest	Clearcut with Reserves	Natural White Pine

Limiting Factor 2A: Adjacent landowner denies access

and Comment: WLD is considering building a road into the main portion of this compartment (sec 1, 11, 12) from Westfield road, which would permit the implementation of this treatment.

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment Reason WLD is considering building a road into the main portion of this compartment (sec 1, 11, 12) from Westfield road, which would permit the implementation of this treatment.

<b>33 73029033-SR-Cut</b>	33.4	4311 - Pine, Aspen Mix	High Density Log	90	Harvest	Clearcut with Reserves	Mixed Upland Deciduous with Conifer
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Limiting Factor 2B: Bridge Needed  
and Comment:

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment Reason

<b>25 73029025-FH-Cut</b>	8.5	4199 - Other Mixed Upland Deciduous	High Density Log	72	Harvest	Clearcut with Reserves	Oak, Aspen
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Limiting Factor 2B: Bridge Needed  
and Comment: WLD may consider habitat cut.

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment Reason WLD may consider habitat cut.



Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
40 73029040-Plnt-Plant	71.9	4125 - Black, N. Pin Oak		6	Tree Planting	Hand Plant	Planted Red Pine, Mixed Deciduous

Limiting Factor 2A: Adjacent landowner denies access

and Comment: WLD is considering building a road into the main portion of this compartment (sec 1, 11, 12) from Westfield road, which would permit the implementation of this treatment.

Rev  
Cmnt:

Rev  
Spec:

Next  
Steps:

No Treatment Reason WLD is considering building a road into the main portion of this compartment (sec 1, 11, 12) from Westfield road, which would permit the implementation of this treatment.

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**Total Treatment  
Acreage Proposed: 168.7**



**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 Name	Acres	Comments
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### 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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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