



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 29 ENTRY YEAR: 2008

GIS Compartment Acreage: 1,448 County: Oscoda

Stand Examiner: Susan I. Thiel

Legal Description: T27N R2E Sec 1, T27N R3E Sections 5 & 6,
T28N R2E Sections 24, 25, & 26., T28N R3E Sections 19,30,&31

Management Goals: To follow goals and management activities outlined per the management plan for the Frost Pocket Pine Barrens Special Management Area while working to maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout the compartment.

Soils and Topography: Fairly level to slightly sloping terrain over most of the area with some steep slopes off Mt. Tom Road and on edges of a couple kettle holes in the compartment. Soils are dominated by excessively drained soil types which are characteristic of glacial outwash plains. Some Graycalm soils exist on the more hilly terrain along the east edge of the compartment supporting the more closed canopy forested types.

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

The compartment is solid state ownership. There are some private parcels adjacent to the boundaries of this compartment. This compartment encompasses the entire Frost Pocket Pine Barrens Special Management Area. Compartment boundaries were rearranged in 2006 to allow this special management area to reside in one compartment for ease of tracking and treatment. The compartment has some boundaries that lie on stand lines vs. geographical features such as roads or section lines making it important to identify the accurate boundaries when performing inventory on adjacent compartments.

Unique, Natural Features (include only non-site specific and non-sensitive information):

The compartment encompasses the Frost Pocket Pine Barrens Special Management Area. It was identified as a large area of potential pine barrens which had a low quality EEO ranking. Through active management of harvest and prescribed burning, the diversity and quality of some units within the area appear to have improved greatly. These actively managed units contain a variety of plant and insect species, some which are of special concern or threatened or endangered species. It is recommended a new survey be conducted to determine if the EEO quality has improved.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

The historic PBB cattle burial site is directly adjacent to this compartment, along the west edge. This area had some homesteading in it in the past but no specific home sites have been identified.

Special Management Designations or Considerations: The compartment encompasses the Frost Pocket Pine Barrens Special Management Area.

Watershed and Fisheries Considerations: none

Wildlife Habitat Considerations: Continue to manage as pine barrens habitat and grassy mosaic as per the plan for appropriate wildlife species. A diversity of bird species were noted when performing inventory.

Mineral Resource and Development Concerns and/or Restrictions: The minerals have been leased in the area, with one antrim wellsite being located in stand 405 of the compartment. For Sections 19, 30 & 31, T28N-R3E, Oscoda County the Surface sediments consist of glacial outwash sand and gravel, postglacial alluvium and an end moraine of medium-textured till. The glacial drift thickness varies between 200 and 800 feet. Beneath the glacial drift is the Coldwater Shale. There is not a current economic use for this Shale. Gravel pits are located just to the west and potential appears to be very good. This compartment is completely leased and partially developed for the Antrim Shale.

Vehicle Access: The compartment is bounded by two county roads: Mt. Tom Road and Pennsylvania Crossing. In addition, several trail roads run throughout the compartment. Some trails serve to identify boundaries of the internal management units. Most of the compartment is easily accessible.

Survey Needs:
None at this time.

Recreational Facilities and Opportunities:

The compartment contains part of the Hunt Creek ORV loop, the Mio ORV trail and Mio ORV Route, and part of a designated snowmobile trail. It is recommended the ORV trails and ORV routes be relocated outside of this special management area to discourage illegal ORV use in these more sensitive open areas. Increased enforcement has assisted with elimination of much illegal use over the past ten years, but some illegal use was observed throughout the summer of 2008, causing concern over maintenance of quality of some of the pine barrens areas. In addition, dispersed ORV camps were found camping within the special management unit, encouraging additional illegal ORV use. Camps caused damage through illegal ORV use and digging of fire pits. With increasing cost of staying in designated campgrounds, it is feared dispersed camping may increase in this area due to its open nature. It is recommended a director's order be obtained excluding dispersed camping from within the boundaries of the special management area. This will require obtaining and posting of signs if such an order is approved.

Fire Protection:

Sufficient roads are present for access and to serve as fuel breaks for the active prescribed burning management that occurs in this area.

Additional Compartment Information:

1. A MNFI survey needs to be requested to formally document any improvements in quality for EEO ranking.
2. Continue to follow recommendations for burning and mechanical treatments over the next ten years to meet the goals outlined by the Frost Pocket Management Plan.
3. The Frost Pocket Management Plan needs to be updated to include:
 - Re-evaluating management goals for sub-unit 5. There are several stands in the southern portion of subunit 5 that could be converted over to a quality pine barrens area instead of just serving as a buffer area. This would require redrawing some of the subunit boundaries and evaluating the management goals for these subunits.
 - Examine our ability to convert some aspen stands over to pine barrens. We may want to allow these stands to remain stocked with aspen and just discourage expansion.
 - Examine our ability to re-route the ORV trails/route out of the special management area and discuss banning of dispersed camping in the area.
 - Discuss development of a rotating schedule so sub-units are burned at regular intervals.

For copies of the current Frost Pocket Management Plan , contact Susan Thiel, Unit Manager of the Grayling Forest Management Unit at (989) 348-6371 ext 7440.

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **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 old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 29

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	STAND AGE CLASS																Total	
		0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159		All Aged
Aspen		107	4	129	39		13	40		24									356
Bog or Marsh	4																		4
Grass	461																		461
Jack Pine				32	40	91		79	4	27									273
Non Stocked	11																		11
Oak										5									5
Red Pine		3			35	77						20						5	140
Upland Brush	187	8								3									198
Total	663	118	4	161	114	168	13	119	4	59		20						5	1448

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: 29

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	338																						18				356
V Bog or Marsh			4																								4
G Grass					461																						461
J Jack Pine					65		192							16													273
X Non Stocked													11														11
O Oak														5													5
R Red Pine																140											140
U Upland Brush			1		14																			183			198
Total	338		5		540		192						11	21	140								201				1448

AUSABLE STATE FOREST

GRAYLING FOREST MGT UNIT

OSCODA COUNTY

COMPARTMENT: **29**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	1841 Cds	Hardwood	110 Cds
Hardwood	14 Mbf	Softwood	1370 Cds
Softwood	4232 Cds	Softwood	38 Mbf
Softwood	237 Mbf	Sum CutVol	1556 Cds
Sum TotVol	6575 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	104
1448			

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 29

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
6	J6	16	42	58	oak	old growth (potential or actual)	final harvest	2	other - specify in remarks	
<p>comnts Fmd : A mature jack pine stand that has lots of oak seedlings underneath along with good population of hills thistle and pale agoseris, showing it once was a pine barrens. This stand is part of mgt unit 5 of Frost Pocket Mgt area whose mgt obj is to maintain a mosaic of shrubland and open forest in a variety of successional stages. Recommend harvesting the jack pine and possibly burning to promote oak in stand along with pine barrens species- to convert it to more of an open barrens with some oak. It abuts up to private so burning may not be a priority. This std lies in the buffer zone of the frost pocket mgt area, so is of lower priority for conversion to a barrens than other subunits. If we burn this unit, then burn what we can of this stand along with adj grassy areas of stand 402 and 403 at the same time. SJ Thiel</p>										
18	U2	28		55	upland brush	old growth (potential or actual)		0	cleaning & weeding	
<p>comnts Fmd : Scattered U2 and oak reproduction, some thornapple mixed with cherry. Stand is part of subunit 1 of the frost pocket special mgt area. The Mgt obj for this subunit is to maintain the greatest percentage of open grassland of any mgt subunit. This stand has a patchy distribution of shrubs which is closing in. Needs to be burned to be opened up. Recommend burn this stand alone in 2010 when we burn subunit 2. The adj grassy stand 404 in subunit 1 was recently burned in 2008 and we do not want to burn again so soon. Burn std 18 to knock back some brush. Then burn stand 18 again in 2012 when you burn the adj grassland stand 404. Note, there is a kettle hole on the NW edge of stand, next to std 17. JP on the edge of this stand was killed when the adj grassy opening was burned in 2008. Old si data used. SJ Thiel</p>										
19	J6	10	83	65	grass	old growth (potential or actual)	final harvest	1		
<p>comnts Fmd : Part of unit 1 of Frost Pocket Mgt Area. Goal of Unit 1 is to restore and maintain the greatest percentage of open grassland of any unit in the frost pocket area. Long term this jack pine will need to be cut and not replanted, but allowed to regenerate to grass and shrubs. A jack pine plantation. Some parts had failed so is more open with scattered large red pine. Ground cover is blueberry and bracken fern and reindeer moss in spots. Ave diameter ranges from 5 to 9 inches. Small stunted red pine in places where jack pine has overtaken it. Other spots is more open and is an R7/RM3 pocket. Understory ranges from R1/O1/A1. Variable stand. Overall call jack pine stand. Used old SI data. After looking at all the stands, am recommending we harvest jack pine now. Leave larger super canopy red pine for visual and diversity- simulate an open barrens type. Also leave any mature oak for mast and allow stand to convert to grass and U type. This will help meet mgt obj of frost pocket. May want to burn stand after it is harvested in conjunction when unit 1 is burned next. SJ Thiel</p>										
22	J6	55	40	52	grass	old growth (potential or actual)	final harvest	2	cleaning & weeding	
<p>comnts Fmd : This stand is within the Pine Barrens Frost Pocket Mgt Area. It lies in Unit 3 in which we are to convert area to open grassy area dominated by herbacious and short shrubs. This stand id is a brush stand with A3 pockets, but is dominated by jack pine. Jack pine is merchantable. Propose cutting stand to convert area to a more open stand. Right now ground cover is moss and blueberry in closed canopy areas, more sedges, rasp, some bracken fern in more open areas. . Then burn this stand with unit 3. Note, Unit 3 is to be burned in 2009. This stand won't be ready by then, but include with susequent burn period after harvest. Note, west end of stand abuts up to PBB cattle burial stie. May want to leave portion of stand on west end as a buffer for this site. SJ Thiel</p>										
23	U4	63		55	upland brush	old growth (potential or actual)		0	cleaning & weeding	
<p>comnts Fmd : Part of Subunit 2 of Frost Pocket Mgt Area. Mgt Obj of subunit is to maintain a patchy distribution of trees and shurbs across 60% of subunit. This stand was prescribed burned on May 16, 2005 per frost pocket mgt plan. Stand burned under FTP C72-515 to promote patchy dist of trees and shurbs. Needs to be burned again in 2010. This is mostly cherry, amelanchier, and some scattered aspen. Shrubs are closing in, needs disturbance to keep opening present. Ground cover is grasses, sweetfern sedge, mondara, starflower, hawkweek... Pockets of merchantable cherry ranging from 30 ba to 70 ba, 5-8 inches in diameter. Old si data used. SJ Thiel</p>										
39	R6	23	46	55	red pine	old growth (potential or actual)	thinning	1		
<p>comnts Fmd : A red pine plantation that was planted in 1964 with 2-0 red pine. Is part of Unit 5 of the frost pocket mgt area. The mgt obj for this subunit is to keep a mosaic of shrubland and open forest across the unit in a variety of successional stages and also serves as a buffer on the edge of the mgt area. The long term mgt objective of this stand is to eventually transform it to open pine barrens. This stand currently is fairly closed canopy and has some 1-2 feet tall oak seedlings underneath. Ground cover is some moss and grass, mostly barren with a heavy needle mat. Stand is merchantable, could hold or liquidate entire stand. Recommend thin stand now to open it up and allow oak to grow, and then eventually remove red pine except for some scattered remnants so you have more of a savannah condition. Will be a marked thinning down to 70-80 BA. May need to burn in the future to improve pine barrens diversity. SJ Thiel</p>										
<p>Wld : create horizontal cover along south edge of stand by falling marked boudary trees south after harvest. Snowshoe Hare specs.</p>										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 29

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
403	G0	4			grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : An opening along Mt Tom road. Has a minatained wildlife opening ini it that is mowed regularly. Around maintained opening is natural grassy opening with scattered cherry, jack pine and grass. Wildlife will continue to maintain the opening as in the past. SJT										
404	G0	189		55	grass	old growth (potential or actual)		0	other - specify in remarks	
comnts Fmd : This is a large grassy stand in the center of the Frost Pocket Special Mgt Area. It comprises most of subunit 1, whose mgt objective is to restore and maintain the greatest percentage of open grassland of all the mgt subunits in the area. This grassy prarie has been prescribed burned in 1998, 2001, and 2008 and is scheduled to be burned again in 2012. Ground cover is varied: big and little bluestem, hawkweek, hills thistle, mondara, yarrow, goldenrod, blazing star, scotch harebell, starflower, queen annes lace, sweet fern, prarie dandelion, etc. Stand has definitely increased in diversity since we began burning in 1998. Need to request a MNFI survey to relook at diversity and EO ranking. Have some trail roads in and edging stand which is causing a source for knapweed invasion along edges of trails. Have some illegal ORV use evident in area- is much better than it was ten years ago. Need to consider moving ORV trail out of area and getting a Director's Order prohibiting camping on this area to protect the many T&E and special concern species that are in this stand. SJ Thiel										
405	G0	3		55	grass	old growth (potential or actual)		0	cleaning & weeding	
comnts Fmd : Wellsite Delta Oil USA Elmer A2-25 antrim well. Located in unit 2 of Frost Pocket mgt area. GC is grass and snapweed. Knapweed is infringing on edgeo of unit 1 grassy area adj to wellsite. Need to herbicide wellsite to control knapweed invasion. SJ Thiel										
406	G0	103			grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : Open grassy area in Subunit 3 of Frost Pocket Special Mgt Area. Mgt Obj for Unit 3 is to manage like subunit 1 with open grassland and short shrubland dominating. Want to increase floristic quality of site. This subunit has never been burned as of 2008. It is apparent how burning has improved subunit 1, as subunit 1 looked like unit 3 does today, open grassland with scattered cherry and jack pine with little diversity- a gray green landscape compared to the colorful opening in subunit 1. This stand had jack pine manually cut under a wildlife FTP no. C72-590 in 2008, opening up stand quilte a bit. Unit 3 needs to be burned next and is proposed to be burned in 2009 to meet mgt objectives. No SI data available. Ground cover is primarily penn sedge, some golden rod, scattered cherry, a little bluestem. Not nearly as diverse as adj stand 404. SJ Thiel										
407	G0	11			grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : A grassy opening with scattered mature cherry trees. Ground cover is grasses, scotch harebell, swt fern, sand cherry, goldnerod, poverty grass, liatril, aster, some kapweed along road. POSSIBLE PALE AGOSORIS, ALLEGHANY PLUM, HILLS THISTLE, ROUGH FESCUE. A diverse smaller opening located within subunit 3 of the frost pocket mgt unit. This stand meets mgt unit goal of keeping unit open with herbacious and short shrub species. Unit 3 is scheduled for a p burn in 2009. A burn would benefit here. Some mechanical treatment occurred in 2008- WD hired someone to remove some cherry and jack pine scattered throughout unit 3 to open it up some more. SJ Thiel										
408	G0	68			grass	old growth (potential or actual)		0	opening maintenance	
comnts Fmd : Part of Unit 3 of the frost pocket mgt area whose mgt obj is to keep unit dominated by herbacious and low shrub species. Is a open grassy area with scattered cherry and shrubs. Could call a U2 but I think open area dominates over shrubs. Is to be managed as a GO. Is scheduled for a P burn in 2009 which will hopefully knock back some of cherry. Part os stand had cherry and jack pine manually removed/cut via a wildlife FTP to keep stand open. GC is varied, sweet fern, goldne rod, aspter, dewberry grasses, big bluestem, poverty grass, milkseed, liatris, monadra, possibly some hills thistle and pale agoseris. Note, a timber sale skid trail and landing is in middle of stand from adj sale to the east of the stand. Is a bit of a mess- need to try to close skid road off and then wait to let site heal. SJT										
410	U1	31			upland brush	old growth (potential or actual)		0	cleaning & weeding	
comnts Fmd : Part of subunit 4 of frost pocket special mgt area whose mgt obj is to keep in low shrubs and herbacious species, only allow scattered tall shrubs and trees and clumps less than 1 ac in size. Stand was burned in 2008, knocking back lots of aspen and cherry in opening. Lots of diversity in forbes and sedges on groundcover. Have goldenrod, bluestem, etc. Floristic quality has improved after 3 burns- need to do formal MNFI survey to document improvement. Scheduled to be burned with unit 4 again in 2011. No Si data available. SJ Thiel										

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 29

Entry Year: 2010

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
411	A1	66	0		aspen (upland)	old growth (potential or actual)		0	cleaning & weeding	
<p>comnts Fmd : An open grassy stand with scattered aspen clones and cherry. This is part of the subunit 4 of the frost pocket special mgt area whose mgt objective is to maintain low shrub and herbacious cover and to minimize tall shrub and tree cover to scattered trees and clumps less than 1 acre in size. Want an open diverse stand. This stand was harvested in 1997-98 and prescribed burned in 1991 and 2001 in an effort to reduce aspen stump sprouts that were taking over site. A hot p burn in 2008 appears to have caused lots of aspen and cherry mortality, opening up stand and increasing diversity in ground cover. Ground cover diversity is good- need a formal MNFI survey to determine how it has improved after 3 burns. SJ Thiel Note- former stands 409, 31, and 411 were all merged into current stand 411. This entire area was burned at the same time and timber sales along with burns have made area very simliar- call A1/G. NO SI data available, manage it as a G long term. Called YR of origin 2008 as hot burn basically forcing resprouts to start over in 2008. SJT 9/08</p>										
412	U2	4			upland brush	old growth (potential or actual)		0	opening maintenance	
<p>comnts Fmd : A grassy area with sweet fern, grasses and sedges, goldenrod, etc. Lots of diversity. Some cherry sprouts. Is part of unit 4 of frost pocket management area- whose mgt obj is to maintain low shrubs and herbacious and minimize tall trees and shrubs so that they are only scattered or occur in clumps of less than 1 acre in size. This area was P burned in 1999, 2001, and 2008 to achieve objective. This past burn appears to have killed lots of aspen and cherry making stand more open. Schedule for unit burn in 2011. Parts of std appear to be a U3 and others a U1- so called a U2. NO Si data available. SJ Thiel</p>										
413	U2	14			grass	old growth (potential or actual)		0	cleaning & weeding	
<p>comnts Fmd : Part of subunit 4 of frost pocket special mgt area whose mgt objective is to keep area in low shrubs and herbacious cover with only scattered tall trees and shrubs and clumps of trees less than 1 ac in size. This area has been P burned in 1999, 2001, and 2008 to increase openness and diversity in stand. Stand is farly open - recent burn killed back aspen and most of cherry. Some of cherry is sprouting back so call stand a U2. GC is grass, goldenrod, aster, laitris, sweetfern etc. Some scattered jack pine south of esch road. Next scheduled burn is for 2011. No si data available. SJ Thiel</p>										
414	U2	1			upland brush	nonstocked		0	opening maintenance	
<p>comnts Fmd : Part of unit 5 of frost pocket mgt area in which we are to maintain a mosaic of shrubland and tree cover in a variey of successional stages. This also serves as a buffer stand along edge of mgt unit- it lies along Penn Crossing Road. It is an open area similar to that across the road except it has not been burned, so it is now full of cherry that is 10-15 tall 2-3 inches diameter. Could keep separate or merge with adj stand 33. No sit data available. SJ Thiel</p>										
418	G0	2			grass	old growth (potential or actual)		0	opening maintenance	
<p>comnts Fmd : A grassy opening that was planted and is maintained by wildlife division on a regular basis- they mow periodically. No SI data available. Is part of Unit 5 of the frost pocket mgt area.</p>										
419	G0	1			grass	old growth (potential or actual)		0	opening maintenance	
<p>comnts Fmd : A grassy opening that was planted and is maintained by wildlife division on a regular basis- they mow periodically. No SI data available. Is part of Unit 5 of the frost pocket mgt area.</p>										
423	U2	2			upland brush	old growth (potential or actual)		0	opening maintenance	
<p>comnts Fmd : Part of unit 5 of frost pocket mgt area in which we are to maintain a mosaic of shrubland and tree cover in a variey of successional stages. This also serves as a buffer stand along edge of mgt unit- it lies along Penn Crossing Road. It is an open area similar to that across the road. No sit3 data available. SJ Thiel</p>										
Total Acres.....		694								

GRAYLING FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 29

Entry Year: 2010

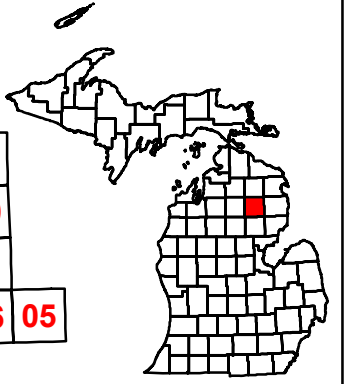
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
24	A5	24	86	60	aspen (upland)	old growth (potential or actual)		0	cleaning & weeding	
TREATMENT LIMITING FACTORS: Rare or unique land forms										
comnts Fmd : Stand is a hilly stand of mixed aspen mixed with cherry and red maple. It is part of subunit 2 of the frost pocket special mgt area. Mgt obj for this subunit is to maintain a patchy distribution of shrubs and trees across approx 60% of the subunit. This stand is closing in. The stand was prescribed burned to promote patchy dist of shrubs/trees on 5/16/05 per frost pocket plan. It needs to be burned again when subunit 2 is burned in 2010. There is lots of down woody debris in stand. IT contains small openings and U2 areas- on is located on top of hill. Ground cover consists of rasp, blueberry penn sedge, bracken fern. Understory is some cherry, allegheny plum on edge of stand at base of slope, red maple more in interior. Aspen looks healthy and can hold. Very little oak found in stand. SJ Thiel										
25	A5	13	53	70	aspen (upland)	old growth (potential or actual)		0	cleaning & weeding	
TREATMENT LIMITING FACTORS: Threatened, endangered, and special concern species/communities										
comnts Fmd : A brushy aspen stand that is part of Unit 2 of the Frost Pocket Mgt Area. Mgt Obj for Unit 2 is to maintain a patchy distribution of shrubs and trees covering approximately 60% of the total area of subunit. Use P burning as primary tool to achieve this. This stand was prescribed burned on May 15, 2005 to promote patchy dist of trees and shrubs per frost pocket plan. It now consists of clones of trembling aspen mixed with thornapple, cherry, some allegheny plum. Grnd cover is lg leaf aster, raspberry, penn sedge, . Aspen ranges from 3 to 9 inches in diameter depending on clone. Can hold or cut right now. Recc hold it. Will need to burn stand again in near future to work toward mgt goal of a patchy distribution of shrubs, otherwise aspen will take over. Burn saubunit 2 in 2010 to meet mgt objective. Old SI data used. SJ Thiel										
28	J4	30	63	46	jack pine	old growth (potential or actual)		0	opening maintenance	
TREATMENT LIMITING FACTORS: Rare or unique land forms										
comnts Fmd : Part of Unit 3 of frost pocket special mgt unit whose mgt obj is to keep as open grassy area dominated by herbacious and short shrubs. Burn periodically for diversity. This stand manually had some jack pine and cherry cut/brushhog to promote openness under an FTP by wildlife division. Stand is jack pine pockets mixed with open grassy areas scattered with mature cherry. Cherry has Ave 5 inch diameter 25-45 ft tall. Call U5/G. Jack pine is overall young, could call J3 but some patches are barely merchantable making a J4. Hold- this stand still meets open forest concept and standards of frost pocket plan. Continue to burn. Some areas are G, others U4, others U5. Old SI data used. SJJ										

Total Acres..... 67

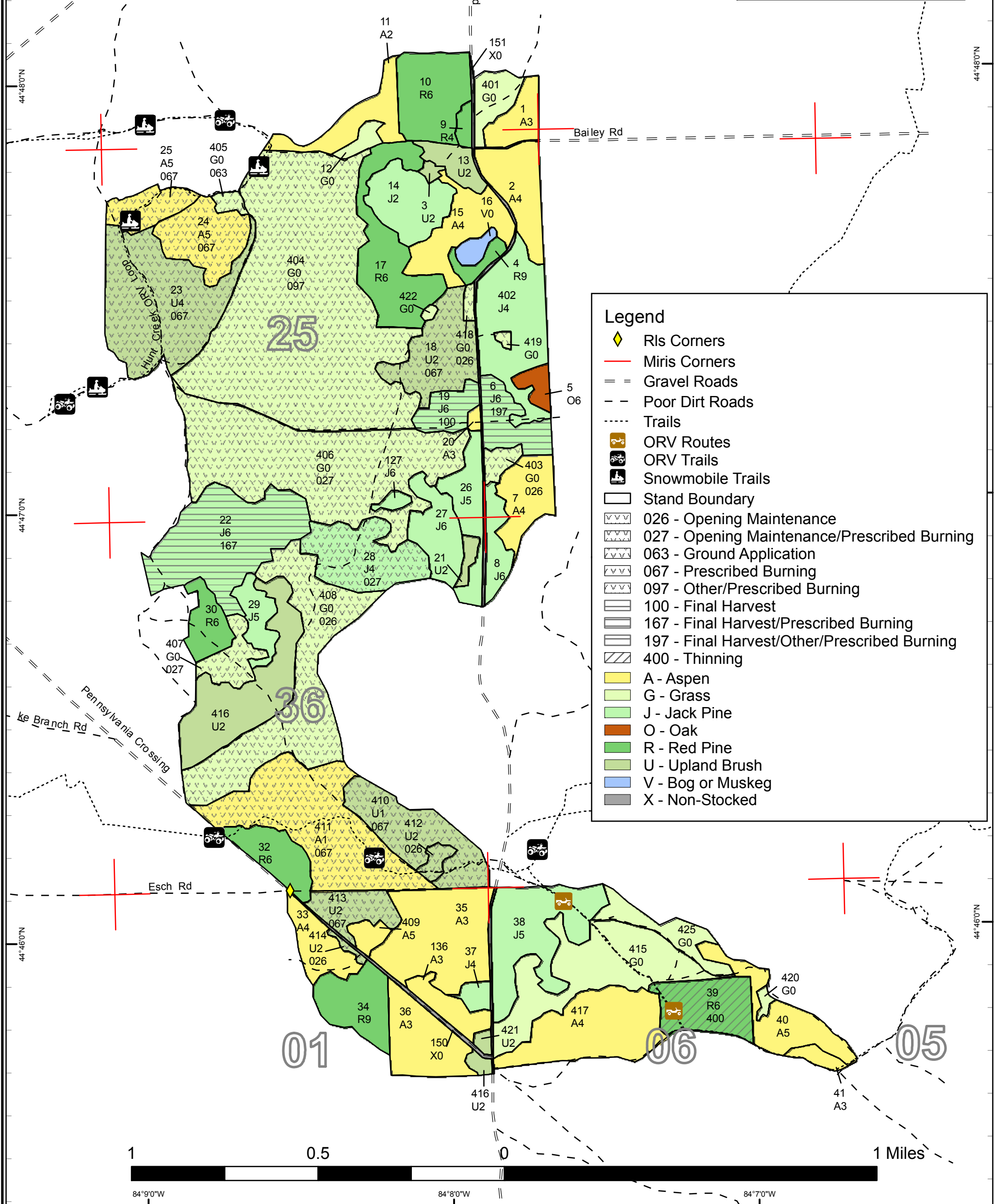
Covertime & Treatment Map™

Compartment 29
 T27N, R02E, Sec. 1
 T27N, R03E, Sec. 05, 06
 T28N, R02E, Sec. 19, 24, 25, 30, 31, 36
 T28N, R03E, Sec. 31
 County: Oscoda
 Unit: Grayling
 YOE: 2010
 Acres: 1,448 GIS Calculated
 Stand Examiner: Susan Thiel
 Map Revised: 09/29/2008
 Map Phase: Pre-review

24	19
25	30
36	31
01	06
	05



19



Legend

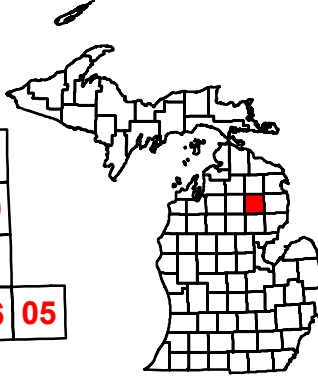
- RIs Corners
- Miris Corners
- Gravel Roads
- Poor Dirt Roads
- Trails
- ORV Routes
- ORV Trails
- Snowmobile Trails
- Stand Boundary
- 026 - Opening Maintenance
- 027 - Opening Maintenance/Prescribed Burning
- 063 - Ground Application
- 067 - Prescribed Burning
- 097 - Other/Prescribed Burning
- 100 - Final Harvest
- 167 - Final Harvest/Prescribed Burning
- 197 - Final Harvest/Other/Prescribed Burning
- 400 - Thinning
- A - Aspen
- G - Grass
- J - Jack Pine
- O - Oak
- R - Red Pine
- U - Upland Brush
- V - Bog or Muskeg
- X - Non-Stocked



84°9'0"W 84°8'0"W 84°7'0"W



Stand Boundary Map

Compartment 29
 T27N, R02E, Sec. 1
 T27N, R03E, Sec. 05, 06
 T28N, R02E, Sec. 19, 24, 25, 30, 31, 36
 T28N, R03E, Sec. 31
 County: Oscoda
 Unit: Grayling
 YOE: 2010
 Acres: 1,448 GIS Calculated
 Stand Examiner: Susan Thiel
 Map Revised: 09/29/2008
 Map Phase: Pre-review












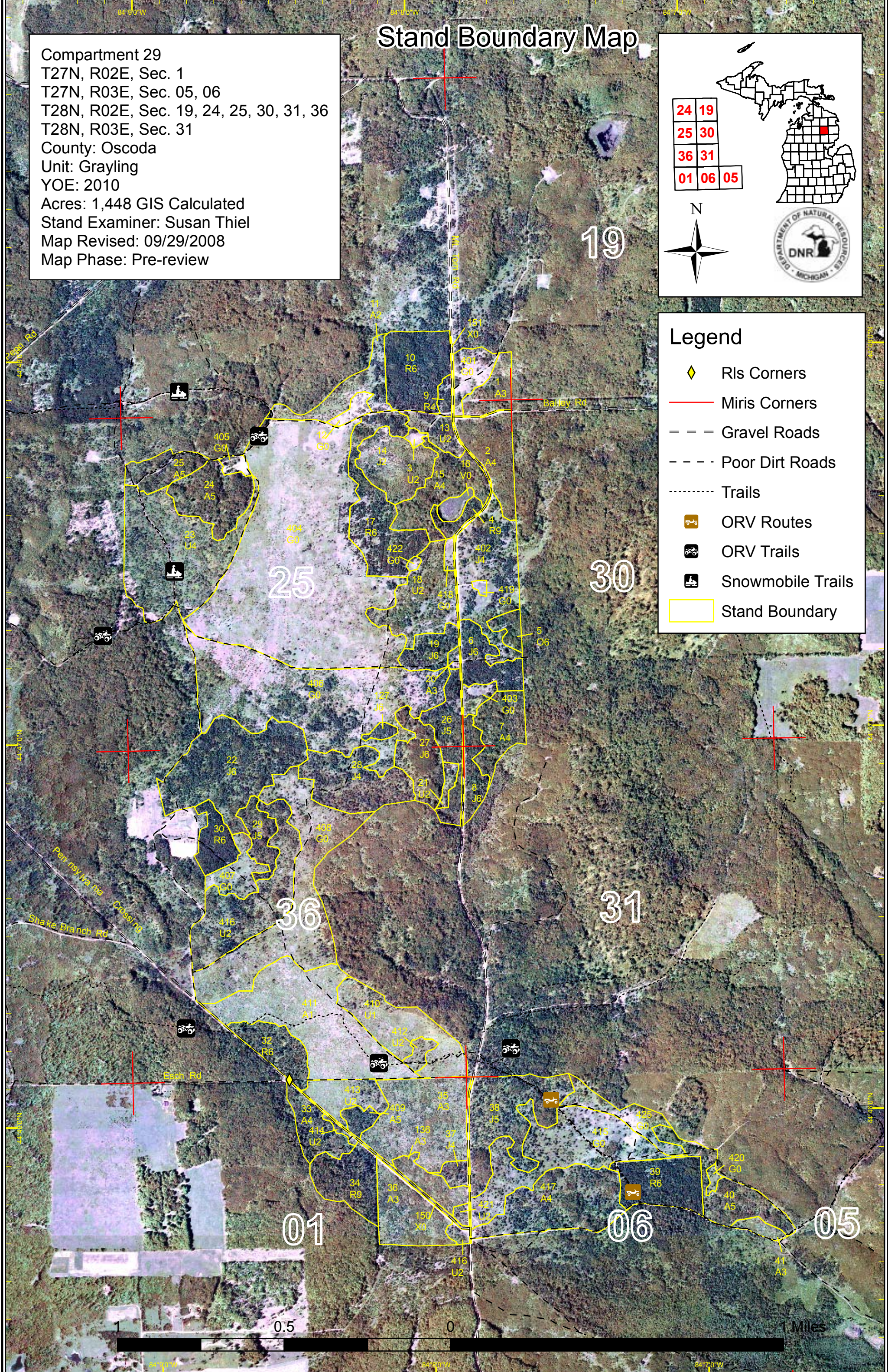
24	19	
25	30	
36	31	
01	06	05

N

Legend

-  RIs Corners
-  Miris Corners
-  Gravel Roads
-  Poor Dirt Roads
-  Trails
-  ORV Routes
-  ORV Trails
-  Snowmobile Trails
-  Stand Boundary





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	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.