



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 60 ENTRY YEAR: 2010

Compartment Acreage: 1893 County: Roscommon

Revision Date: 07-28-2008

Stand Examiner: J. Hartman

Legal Description: T23N R2W sections 4,5,6

Management Goals: Maintain as much oak mast as possible while maintaining forest health. Increase amount of upland conifer. Re-route part of the ORV trail that is an eroding hillclimb in stand 37.

Soil and Topography: On the east side soils were formed in pitted outwash deposits and consist of Roselawn and Rubicon sands (PArVVb). The west side of the compartment is primarily wetland consisting of Greenwood and Rifle peat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The only private parcel in the compartment is currently for sale. It has one cabin on it and the land is primarily wetland.

Unique, Natural Features: Potential exists for rough fescue, osprey, secretive locust, goshawk, red-shouldered hawk, eagle, great blue heron, black tern, least bittern, marsh wren and common moorhen.

Archeological, Historical, and Cultural Features: None identified.

Special Management Designations or Considerations: The headwaters of Robinson Creek are formed in the Long Crossway Swamp. Robinson Creek is a Natural River and thus defines it's corridor as a High Conservation Value Area. The creek channel is very difficult to distinguish on the ground or from the air.

Watershed and Fisheries Considerations: See comments on Robinson Creek.

Wildlife Habitat Considerations: Maintain mast trees in oak treatments.

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 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the good gravel pits are associated with upland areas. Nine Mile pit is located one mile to the south and gravel potential should be good in Section 4. St. Helen Field is located four miles to the northeast. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield Formation and is in secondary recovery operations currently. There are no leases in the Compartment, currently.

Vehicle Access: Vehicle access is difficult during the winter months.

Survey Needs: None need at this time.

Recreational Facilities and Opportunities: There is an ORV trail through the compartment that needs to be partially re-routed.

Fire Protection: Large fire growth could occur in the hilly terrain to the east and in the swamp areas to the west.

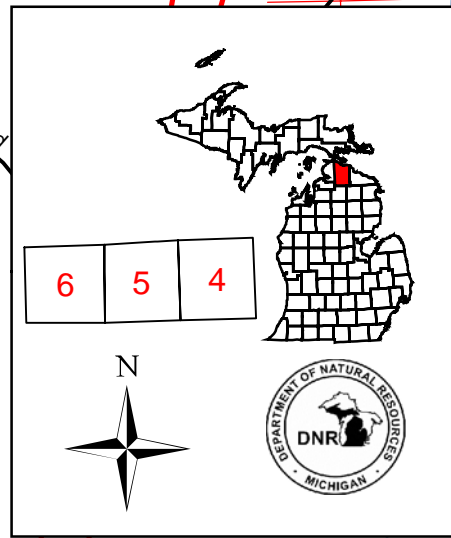
Additional Compartment Information:

- **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**

Cover Type & Treatment Map

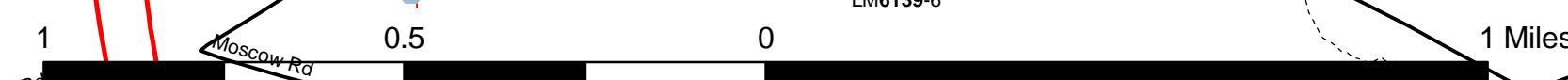
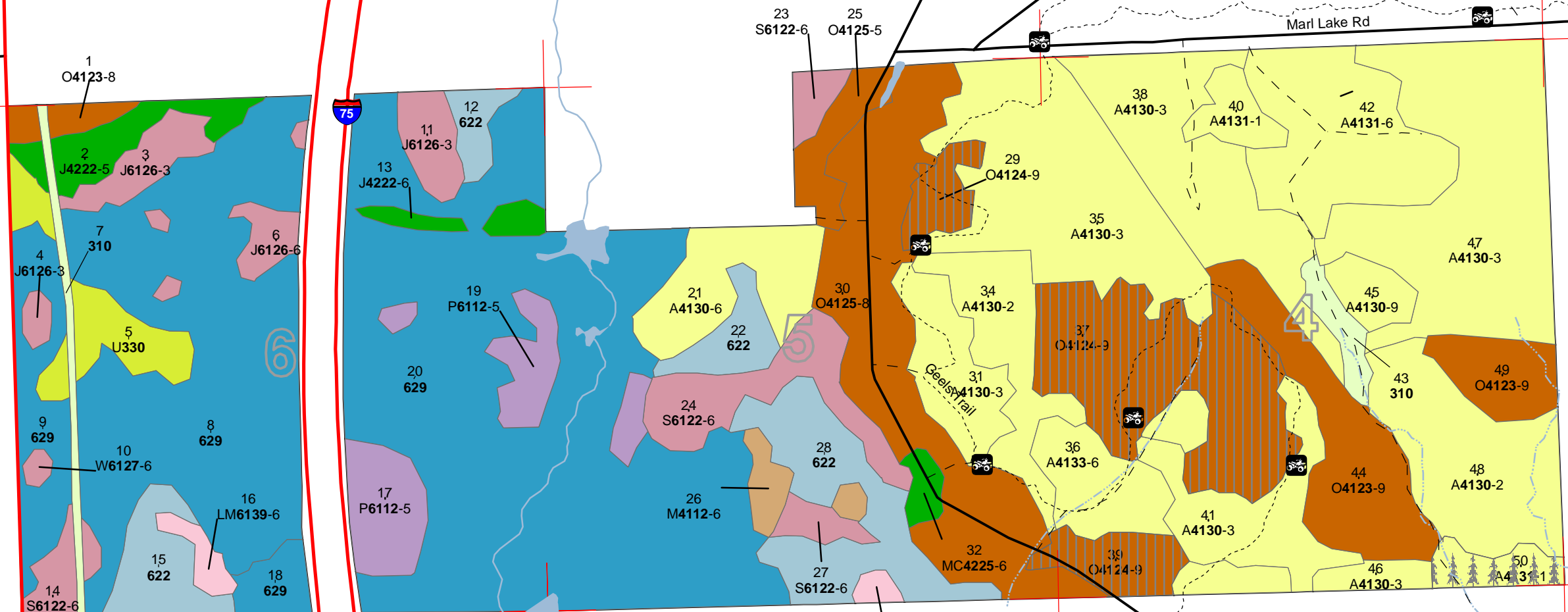
Compartment 60
 T23N, R02W, Sec. 4-6
 County: Roscommon
 Unit: Roscommon
 YOE: 2010
 Acres: 1,893 GIS Calculated
 Stand Examiner: Jason Hatman
 Map Revised: 8/01/2008
 Map Phase: Pre-review



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

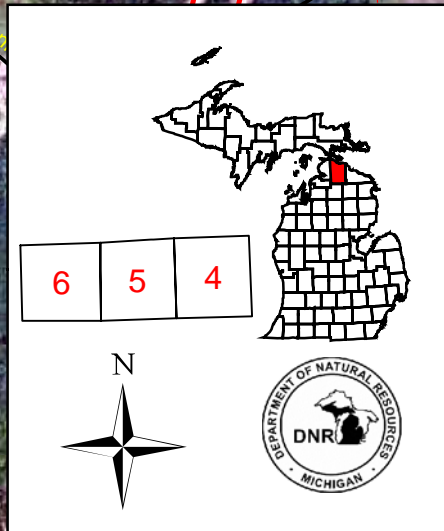
Legend

- Miris Corners
 - Highway
 - Paved Road
 - Poor Dirt Road
 - Trails
 - Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - Interstate Highway
 - ORV Trails
 - Stand Boundaries
 - Shelter Wood with Reserves
 - Planting
-
- ### Forest Stands
- #### Level 3
- 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 422 - Natural Pines
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- #### Non-Forest Stands
- ##### Level 3
- 310 - Herbaceous Openland
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub
 - 629 - Mixed non-forested wetland



Stand Boundary Map

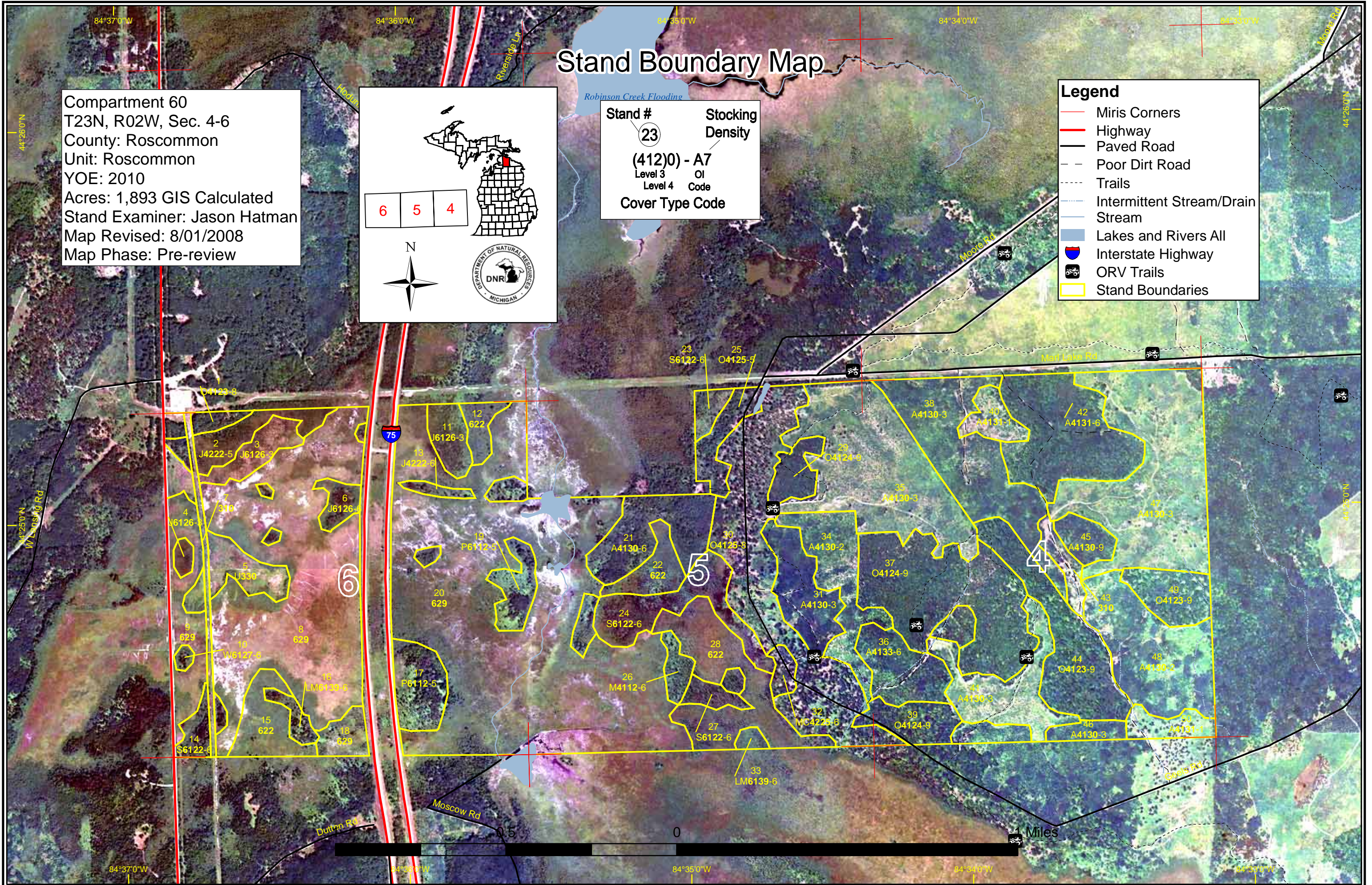
Compartment 60
 T23N, R02W, Sec. 4-6
 County: Roscommon
 Unit: Roscommon
 YOE: 2010
 Acres: 1,893 GIS Calculated
 Stand Examiner: Jason Hatman
 Map Revised: 8/01/2008
 Map Phase: Pre-review



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

Legend

- Miris Corners
- Highway
- Paved Road
- Poor Dirt Road
- Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers All
- Interstate Highway
- ORV Trails
- Stand Boundaries



Roscommon Mgt. Unit

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

Compartment 060 Year of Entry 2010

Report Date: 08/04/2008



	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	269.0	231.1	149.7	0	0	0	0	0	0	0	0	0	0	0	649.8
Herbaceous Openland	20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20.0
Low-Density Trees	26.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26.8
Lowland Coniferous Forest	0	0	13.3	18.4	0	35.6	0	21.7	0	0	0	0	0	0	15.9	104.9
Lowland Deciduous Forest	0	0	0	0	0	23.0	0	0	22.6	0	0	0	0	0	0	45.6
Lowland Mixed Forest	0	0	0	0	0	0	0	6.3	3.1	0	0	0	0	0	0	9.4
Lowland Shrub	100.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100.9
Mixed non-forested wetland	562.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	562.5
Natural Pines	0	0	0	0	5.8	20.4	0	0	8.6	0	0	0	0	0	0	34.8
Northern Hardwood	0	0	0	0	0	0	10.4	0	0	0	0	0	0	0	0	10.4
Oak Types	0	0	0	0	0	16.0	0	0	8.2	13.0	291.0	0	0	0	0	328.1
Total	710.1	269.0	244.4	168.1	5.8	95.1	10.4	0	67.3	16.1	291.0	0	0	0	15.9	1893.3

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
29 29-Oak/Pine	13.0	4124 - Red with White Oak	High Density Log	87	Harvest	Shelter Wood with Reserves	Oak, Pine

Rev
Cmnt:

Rev Mark oak to leave that have healthy large crowns for seed source and acorn production. Leave all red pine and white pine. Protect the understory.

Spec:

Next

Steps:

37 37 Oak/Pine	88.9	4124 - Red with White Oak	High Density Log	90	Harvest	Shelter Wood with Reserves	Oak, Pine
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Rev
Cmnt:

Rev Mark red oak and white oak to leave that have healthy crowns for acorn production and seed source (~20-40 residual BA). Leave all red and white pine.

Spec: Protect the understory

Next

Steps:

39 39 Oak/Pine	18.5	4124 - Red with White Oak	High Density Log	90	Harvest	Shelter Wood with Reserves	Oak, Pine
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Rev
Cmnt:

Rev Mark red oak and white oak to leave that have healthy crowns for acorn production and seed source (~20-40 residual BA). Leave all red and white pine.

Spec: Protect the understory

Next

Steps:

50 50-Plant	12.1	4131 - Aspen, Oak		6	Tree Planting	Hand Plant	Pine, Aspen Mix
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Rev
Cmnt:

Rev FTP already filed. Stand is connected to treatment in the compartment to the south.

Spec:

Next

Steps:

**Total Treatment
Acreage Proposed: 132.4**

**PROPOSED TREATMENTS
WITH LIMITING FACTORS**



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Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 1
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Limiting Factor
and Comment:

Rev
Cmnt:

Rev
Spec:

Next
Steps:

No Treatment
Reason

**Total Treatment
Acreage Proposed: 0**



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

Conservation Area	Type	Description
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.
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4123 - Red Oak	Medium Density Log	8.2	78		
2	42220 - Natural Jack Pine	Medium Density Pole	20.4	45		
3	6126 - Lowland Jack Pine	High Density Sapling	15.0	28		
4	6126 - Lowland Jack Pine	High Density Sapling	3.4	28		
6	6126 - Lowland Jack Pine	High Density Pole	11.3	72		
10	6127 - Lowland Pine	High Density Pole	2.1	Uneven Age		
11	6126 - Lowland Jack Pine	High Density Sapling	13.3	16		Cut and seeded in 1992
13	42220 - Natural Jack Pine	High Density Pole	8.6	72		not accessible
14	6122 - Black Spruce	High Density Pole	10.4	72		
16	6139 - Mixed Lowland Forest	High Density Pole	6.3	72		
17	6112 - Lowland Aspen	Medium Density Pole	23.0	45		Two ages of aspen present. More red maple and balsam on the north end.
19	6112 - Lowland Aspen	Medium Density Pole	22.6	72		Looks like mostly quaking aspen with a patch of bigtooth, red oak, rm
21	4130 - Aspen	High Density Pole	38.0	27		Bigtooth transitions to quaking along the wetter areas. Has some scattered white pine and red oak log trees scattered within
23	6122 - Black Spruce	High Density Pole	6.7	Uneven Age		
24	6122 - Black Spruce	High Density Pole	35.6	43		Has pockets of upland and small pockets solid to jack pine.
25	4125 - Black, N. Pin Oak	Medium Density Pole	16.0	45		All aspen and red maple were removed in 2001. The undersory oak were left within the sale.
26	4112 - Maple, Beech, Cherry Association	High Density Pole	10.4	56		Upland/ Lowland transition.
27	6122 - Black Spruce	High Density Pole	7.1	Uneven Age		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4124 - Red with White Oak	High Density Log	13.0	87	111-140	Lots of suppressed and co-dominant red oak that would make thinning less valuable. Also has a very heavy white pine understory in many spots. Would either mark to leave and protect the understory or leave alone.
30	4125 - Black, N. Pin Oak	Medium Density Log	108.7	92		Timber sale completed in 2001. Heavy sweet fern ground cover in openings.
31	4130 - Aspen	High Density Sapling	30.4	18		
32	42250 - Pine, Oak	High Density Pole	5.8	38		Located along transition from upland to lowland.
33	6139 - Mixed Lowland Forest	High Density Pole	3.1	82		
34	4130 - Aspen	Medium Density	37.7	18		More clonal aspen with more QA, red oak, and red maple than the stand to the west. Heavy sweet fern ground cover.
35	4130 - Aspen	High Density Sapling	101.3	8		
36	4133 - Aspen, Mixed Pine	High Density Pole	34.3	26		Transitions to more white pine to the southeast and the multipart to the northeast.
37	4124 - Red with White Oak	High Density Log	88.9	90	81-110	Has some multiple ages within the stand. Somewhat low quality to consider thinning, but it is a good enough site to support some beech. Co-dominant oak is poor formed. Crosses of black oak and red oak throughout
38	4130 - Aspen	High Density Sapling	70.4	18		
39	4124 - Red with White Oak	High Density Log	18.5	90	81-110	Has some high risk aspen and oak. Would mark to leave and leave all pine.
40	4131 - Aspen, Oak	Low Density Sapling	12.2	18		Old landing area that just meets stocking requirements. Heavy sweet fern ground cover
41	4130 - Aspen	High Density Sapling	40.1	8		Has an old landing in the western arm. The arm that goes up to the northeast follows a ridgeline. A few smaller beech were left in there. There are pockets in the stand without aspen. These areas are mostly red maple stump sprouts with about 10-20% oak.
42	4131 - Aspen, Oak	High Density Pole	65.8	26		Patches of mature northern red oak that can be thinned when the aspen is mature.
44	4123 - Red Oak	High Density Log	53.7	92	51-80	Aspen was taken out 10-20 yrs ago, but couldn't find the sale records. Good quality site on a northeast facing aspect.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4130 - Aspen	High Density Log	11.6	27		Low quality compared to the stand to the north of same age. Has much more quaking aspen. More of a pine site.
46	4130 - Aspen	High Density Sapling	16.1	19		Part of a stand in the the compartment to the south.
47	4130 - Aspen	High Density Sapling	115.5	8		Block 995. Very good northern red oak site that was clear-cut. Some scattered white oak and beech left within the sale.
48	4130 - Aspen	Medium Density	64.4	18		
49	4123 - Red Oak	High Density Log	21.2	92	51-80	All aspen previously removed. Some beech present in the stand.
50	4131 - Aspen, Oak	Low Density Sapling	12.1	6		Regeneration did not come in very well. FTP to plant is currently in place



Stand	Cover Type	Acres	Gen Cmts:
5	3302 - Low Density Conifer Trees	26.8	The multipart to the nw along M-18 had a few rp that were hand planted within it along with natural jack pine regen. The rest of the units are natural jack pine regen.
7	310 - Herbaceous Openland	10.1	
8	629 - Mixed non-forested wetland	188.2	
9	629 - Mixed non-forested wetland	34.0	
12	622 - Lowland Shrub	8.9	
15	622 - Lowland Shrub	22.5	
18	629 - Mixed non-forested wetland	10.7	
20	629 - Mixed non-forested wetland	329.6	
22	6224 - Treed Bog	15.2	
28	6224 - Treed Bog	54.3	
43	310 - Herbaceous Openland	9.8	