



GRAYLING FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 191 ENTRY YEAR: 2012

GIS Compartment Acreage: 1,209 County: Crawford

Revision Date: 10/7/2010

Stand Examiner: Craig Farrer

Legal Description: T25N, R04W, Sections 20 and 29, Beaver Creek Township.

Management Goals: To manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment. To provide multiple uses of the land while incorporating any visual management needed.

Soils and Topography: Soil types within the compartment consist of Chelsea and Grayling sands, to Rifle, Dawson and Kinross Peats. The topography consists mostly of flat level terrain with a major drainage in the south of section 29.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The state ownership within this compartment is solid, except for seventy five acres in the northwest of section 20 and 1 acre in the northwest of section 29. Land use includes several oil/gas facilities as well as active and inactive oil well sites throughout this compartment. The area has heavy oil and gas development and is riddled with pipelines, wellpads, and injection wells. Many of the old surface pipelines are not surveyed and can still be found in the compartment. There are several Kirtland Warbler cuts adjacent to the compartment, but not within the compartment.

Unique, Natural Features (include only non-site specific and non-sensitive information): Stand 62 appears to be a northern shrub thicket and stand 60 is a treed bog. These do not appear to be a high quality examples of the ecotypes.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None known at this time.

Special Management Designations or Considerations: Visual management is a concern when treating stands within this compartment. Oil well sites and pipelines will have an impact on the treating of timber stand within this compartment as well. Other considerations to consider are the designated Northern Shrub Thicket to the east of compartment and designated pine barrens to the west.

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: To manage and maintain existing forest cover types for deer, bear, turkey and grouse.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Michigan formation, mined for gypsum in other locations in the State.

The nearest gravel pit is three miles to the northwest, and gravel potential is thought to be limited. Part of Beaver creek field is located in Section 20 and the north part of Section 29. This field has produced over 16,000,000 BO and 17 Bcf gas, from the Devonian Detroit River Sour Zone and Richfield formations. All of the Compartment is under lease for oil and gas development.

Vehicle Access: Compartment is accessible from County Roads 7 Mile and Fletcher. Several County Roads such as Oil Well, Seeley, Tangelo and Chesley run north/south between 7 Mile and Fletcher. Hunter Truck Trail runs east west in the south end of compartment. Most every 40 acres within the compartment is encompassed by a road or trail.

Survey Needs: None needed

Recreational Facilities and Opportunities: There are no designated recreational facilities within this compartment. The compartment does offer recreational opportunities such as hunting, berry picking and bird and wildlife watching.

Fire Protection: Fire protection is the responsibility of the Michigan DNRE and the Beaver Creek Township Fire Department. Current roads and trail system with is more than adequate for fire equipment access. No major water source nearby. The compartment is dominated by fire susceptible species and as been prone to fire in the past. A designated fuel break exists on the east side of the compartment from 7 Mile Road south to drainage area south of Fletcher Road. A fuel break was cut in 2006 and has heavy natural regeneration on it. Due to the heavy oil and gas development within the compartment and the presence of sour gas, this area is designated as a no plow area.

Additional Compartment Information:

LOTS Compartment Acreage: 1,201 acres

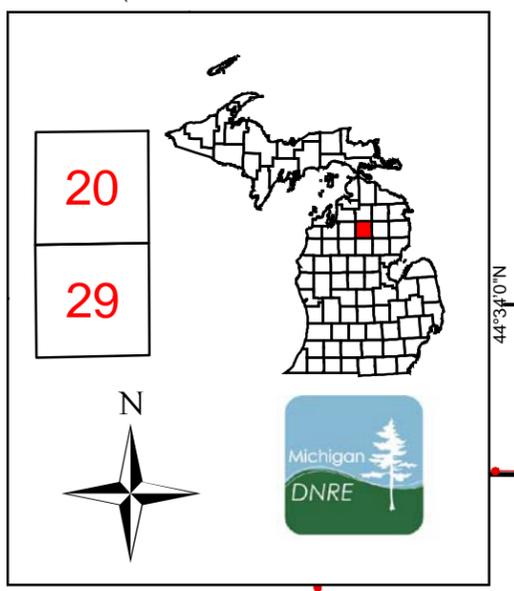
- **The following reports are available:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatment Summaries**
 - ◆ **Dedicated Conservation Area Details**
 - ◆ **Listing of Forested Stands**
 - ◆ **Listing of Non-Forested Stands**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types, recreation trails and facilities**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Special Conservation areas**

Cover Type & Treatment Map

Compartment 191
 T25N, R04W, Sec. 20, 29
 County: Crawford
 Unit: Grayling
 YOE: 2012
 Acres: 1,209 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/10/2010
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Pipe
- Power
- Fence
- Trails
- Intermittent Stream/Drain
- Stream
- ORV Trails
- MCCCT Trails
- Motorcycle Trails
- Snowmobile Trails

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)

Forest Stands

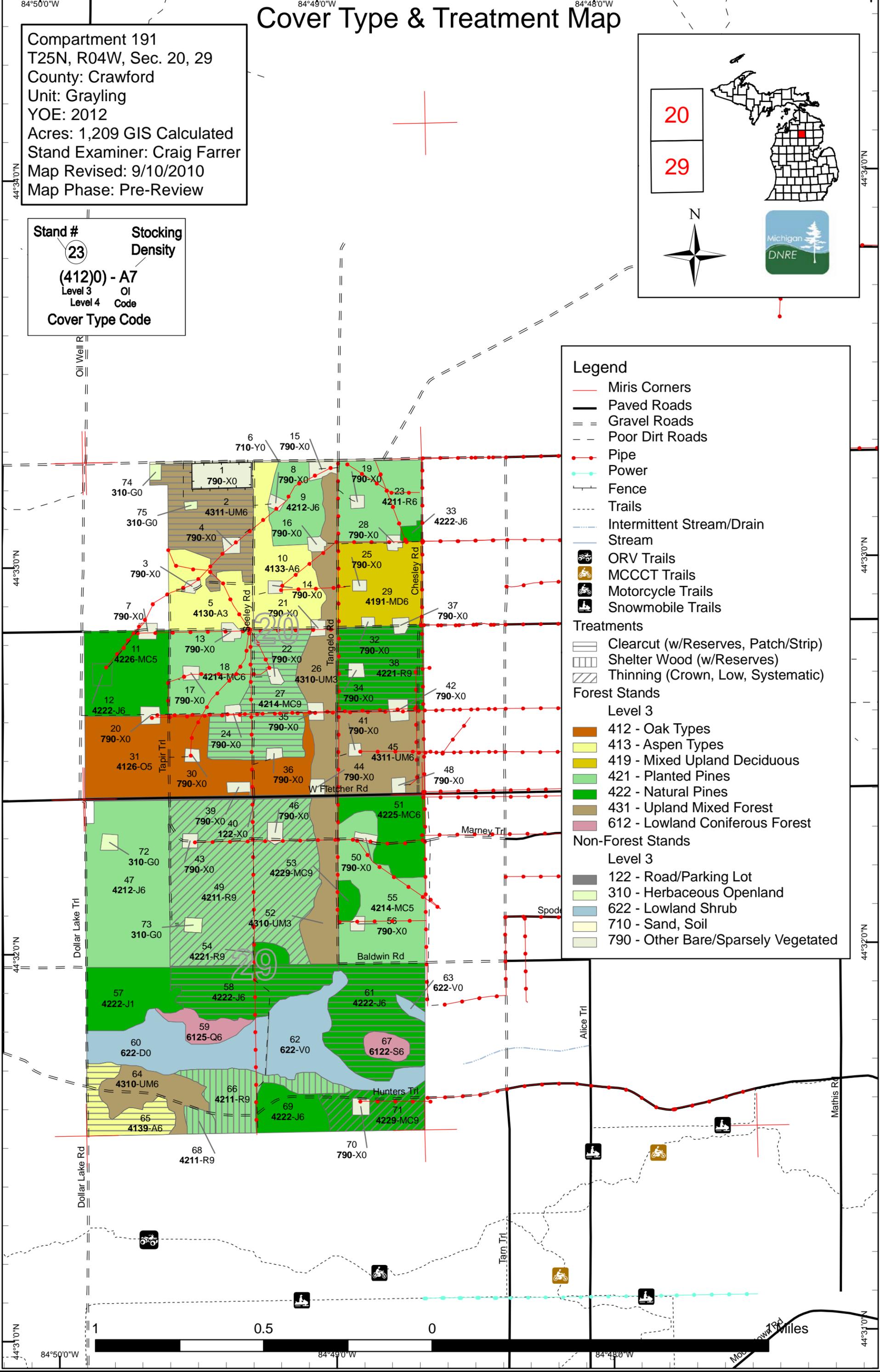
Level 3

- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

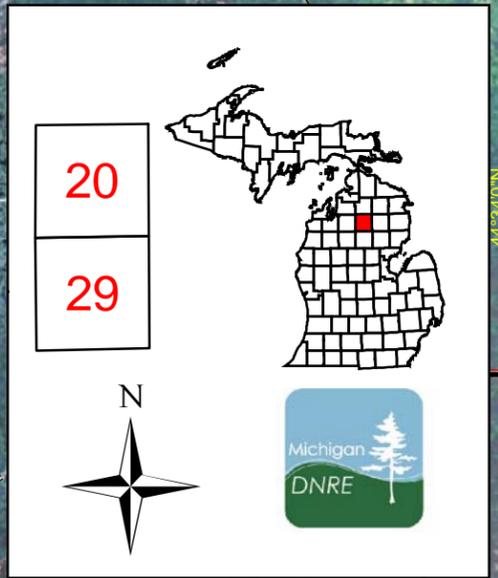
Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



Stand Boundary Map

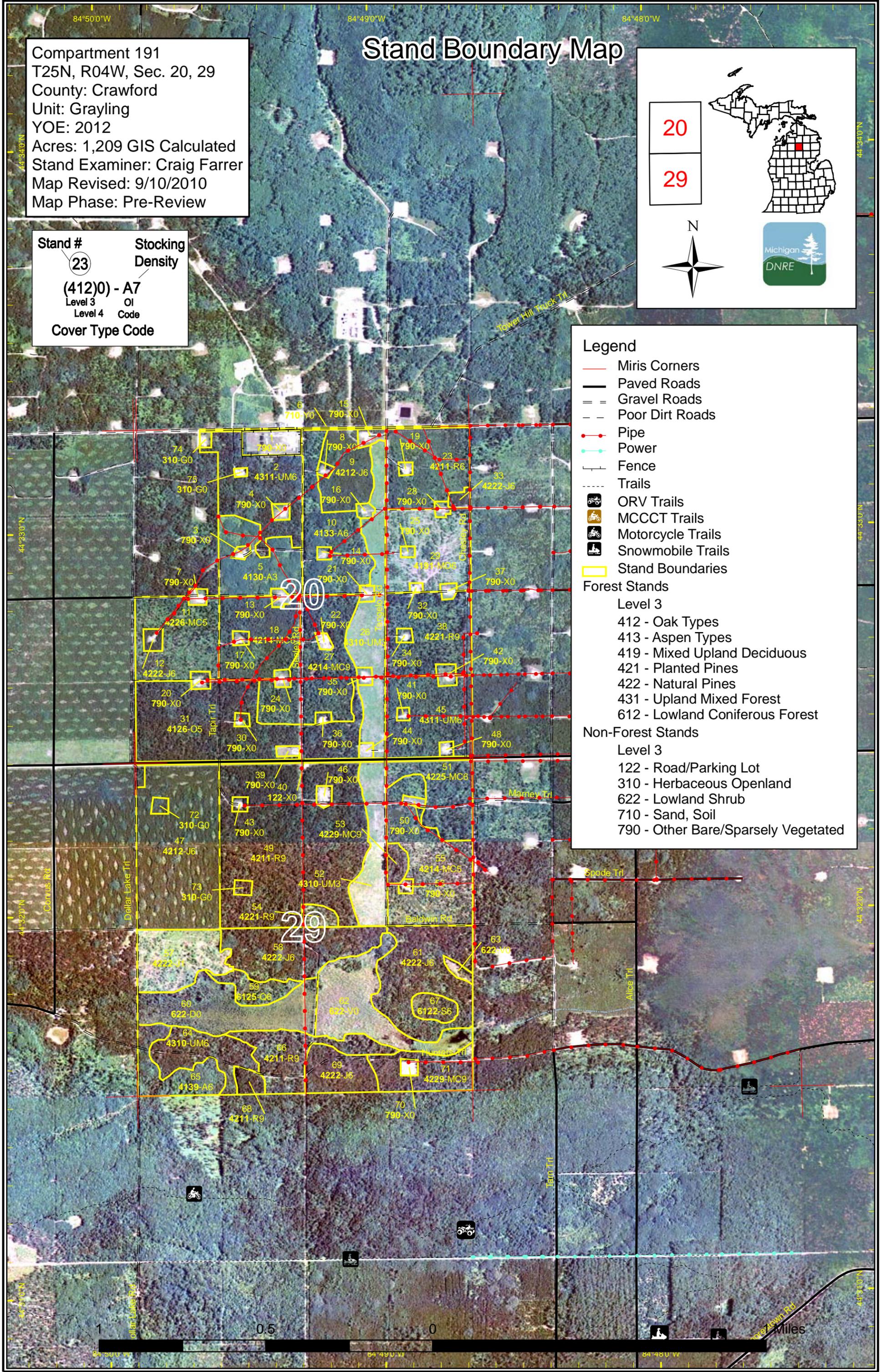
Compartment 191
 T25N, R04W, Sec. 20, 29
 County: Crawford
 Unit: Grayling
 YOE: 2012
 Acres: 1,209 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/10/2010
 Map Phase: Pre-Review



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

Legend

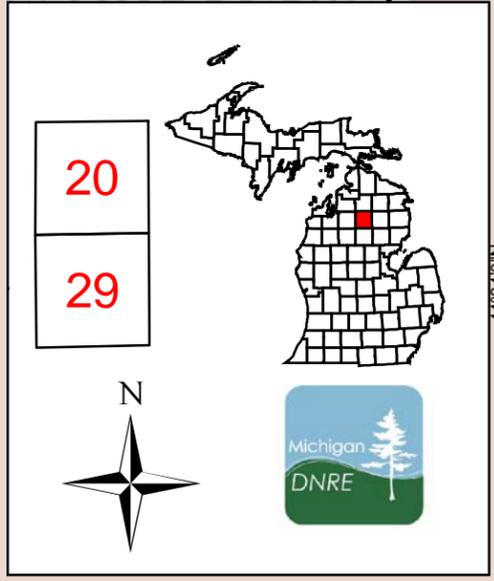
- Miris Corners
 - Paved Roads
 - Gravel Roads
 - Poor Dirt Roads
 - Pipe
 - Power
 - Fence
 - Trails
 - ORV Trails
 - MCCCT Trails
 - Motorcycle Trails
 - Snowmobile Trails
 - Stand Boundaries
- Forest Stands**
- Level 3
- 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 710 - Sand, Soil
 - 790 - Other Bare/Sparsely Vegetated



1 0.5 0 Miles

Dedicated & Proposed Special Conservation Area Map

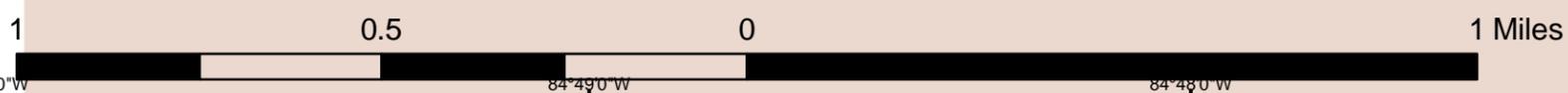
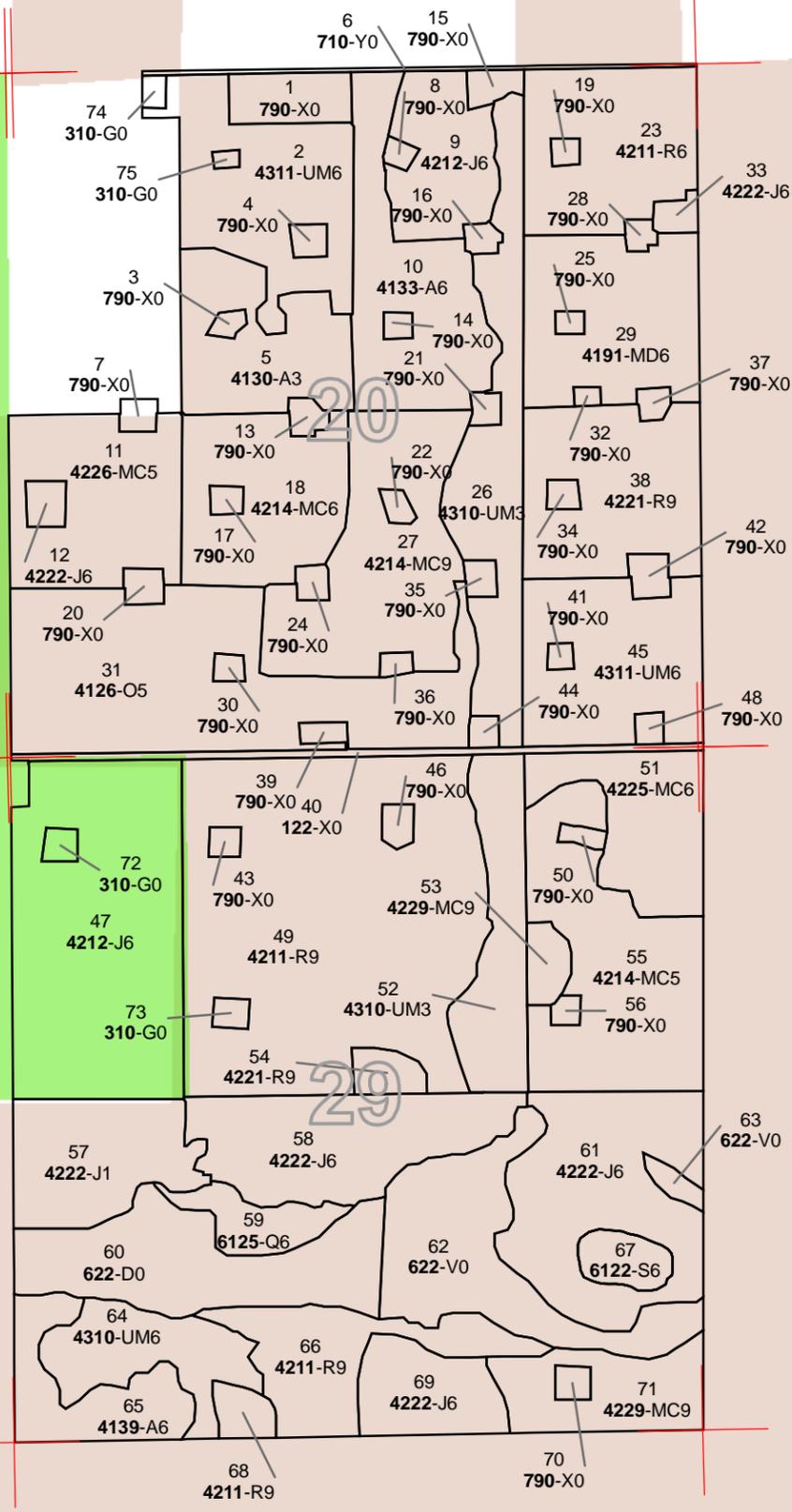
Compartment 191
 T25N, R04W, Sec. 20, 29
 County: Crawford
 Unit: Grayling
 YOE: 2012
 Acres: 1,209 GIS Calculated
 Stand Examiner: Craig Farrer
 Map Revised: 9/10/2010
 Map Phase: Pre-Review



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

Legend

- Miris Corners
- Stand Boundaries
- Dedicated Special Conservation Areas
- Research, Development, and Military Lands
- Kirtland Warbler Habitat
- Forest Stands
 - Level 3
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands
 - Level 3
 - 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 622 - Lowland Shrub
 - 710 - Sand, Soil
 - 790 - Other Bare/Sparsely Vegetated



44°34'0"N
44°33'0"N
44°32'0"N
44°31'0"N

84°50'0"W
84°49'0"W
84°48'0"W

Table 1 – Total Acres by Cover Type and Age Class

Data updated yesterday after 6:00 PM



	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 +		Uneten Age
Aspen	0	0	29	38	0	0	19	0	0	0	0	0	0	0	0	86
Bare/Sparsely Vegetated	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Bog	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Jack Pine	0	28	0	97	5	17	0	0	38	48	0	0	0	0	0	232
Lowland Conifers	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	9
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	38
Natural Mixed Pines	0	0	0	0	0	36	0	0	0	46	0	0	0	4	0	87
Oak	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	77
Planted Mixed Pines	0	0	0	85	0	0	0	0	0	48	0	0	0	0	0	132
Red Pine	0	0	0	36	0	0	0	0	0	197	0	0	0	0	0	233
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Treed Bog	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Upland Mixed Forest	0	62	0	38	0	0	21	0	40	0	0	0	0	0	0	161
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	148	90	67	370	5	53	40	0	78	354	0	0	0	4	0	1209



Table 2 – Proposed Treatment Summaries

Data updated yesterday after 6:00 PM

Grayling Mgt. Unit
Year of Entry 2012

Compartment 191
Total Compartment Acres: 1209

Acres by Treatment Type

Commercial Harvest - 241	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	19	0	0	0	0	0	19
Jack Pine	86	0	0	0	0	0	86
Natural Mixed Pines	0	0	0	0	21	0	21
Planted Mixed Pines	48	0	0	0	0	0	48
Red Pine	39	0	0	30	0	0	68
Total	191	0	0	30	21	0	241

S
t
a
n
d

Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72191002-Cut	39.6	4311 - Pine, Aspen Mix	High Density Pole	73	Harvest	Clearcut with Reserves	Pine, Aspen Mix	Cmpt. Review Proposal

Prescription Recommend final harvest with 2 to 3 2 acre patches scattered throughout stand. Protect as much of the Oak regen and shrub species.

Specs:

Other Comments: Oil/gas within the stand. Use oil/gas contract specifications

Next Steps: Should regenerate naturally to a mixed stand. Aspen probably dominated.

27	72191027-Cut	47.6	42140 - Planted Mixed Pine	High Density Log	83	Harvest	Clearcut with Reserves	Planted Mixed Pine	Cmpt. Review Proposal
----	--------------	------	----------------------------	------------------	----	---------	------------------------	--------------------	-----------------------

Prescription Final harvest with reserves. Mark out patches of Red and Jack Pine to leave as a seed source. Protect oil and gas pipelines and protect as much Oak regen as possible. Species to remove Jack Pine, Oak and Red maple. Cut when there is no snow on the ground.

Specs:

Other Comments: Oil/gas within the stand. Use oil/gas contract specifications

Next Steps: No steps needed after harvest.

38	72191038-Cut	38.6	42210 - Natural Red Pine	High Density Log	83	Harvest	Clearcut with Reserves	Natural Red Pine	Cmpt. Review Proposal
----	--------------	------	--------------------------	------------------	----	---------	------------------------	------------------	-----------------------

Prescription Final harvest with reserves. Mark out patches of Red and Jack pine to leave for a seed source. Protection of oil/gas equipment and pipelines.

Specs: Protect as much as possible the existing regeneration.

Other Comments: Oil/gas within the stand. Use oil/gas cutting specifications

Next Steps: No next step after harvest.

	72191049-Cut	125.0	42110 - Planted Red Pine	High Density Log	85	Harvest	Crown Thinning	Planted Red Pine	Cmpt. Review Proposal
--	--------------	-------	--------------------------	------------------	----	---------	----------------	------------------	-----------------------

Prescription Recommend thinning stand to 90 BA. Mark to thin. Removing some Red Pine and any Jack Pine or other species within the stand. Mark out some regeneration holes within the stand.

Specs:

Other Comments: Oil/gas within the stand. Use oil/gas cutting specifications.

Next Steps: No steps following harvest.

58	72191058-Cut	38.1	42220 - Natural Jack Pine	High Density Pole	76	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal
----	--------------	------	---------------------------	-------------------	----	---------	------------------------	-------------------	-----------------------

Prescription Recommend final harvest, but leaving two chain buffer along bog.

Specs:

Other Comments:

Next Steps: Recommend replanting to Jack pine. Trench and furrow.



Stand

Data updated yesterday after 6:00 PM

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	72191061-Cut	47.6	42220 - Natural Jack Pine	High Density Pole	82	Harvest	Clearcut with Reserves	Natural Jack Pine	Cmpt. Review Proposal

Prescription Recommend final harvest, bu leave 2 chain wide buffer along bog and around the bog within the stand.

Specs:

Other

Comments:

Next Steps: Recommend planting to Jack pine. Trench and furrow.

65	72191065-Cut	18.9	4139 - Aspen, Mixed Deciduous	High Density Pole	52	Harvest	Clearcut	Aspen, Mixed Deciduous	Cmpt. Review Proposal
----	--------------	------	-------------------------------	-------------------	----	---------	----------	------------------------	-----------------------

Prescription Recommend final harvest with no retention.

Specs:

Other

Comments:

Next Steps: Stand should regenerate naturally following harvest. Predominantly Aspen and red maple, but will accept a mix.

66	72191066-Cut	25.7	42110 - Planted Red Pine	High Density Log	85	Harvest	Shelter Wood with Reserves	Planted Red Pine	Cmpt. Review Proposal
----	--------------	------	--------------------------	------------------	----	---------	----------------------------	------------------	-----------------------

Prescription Recommend shelterwood cut with reserves. Leave 2 chain wide buffer along bog. Leave 50 BA of Red pine. Cut when there is no snow on the ground.

Specs:

Other

Comments:

Next Steps: No next steps except letting natural regeneration of Oak and any other species take its course.

68	72191068-Cut	4.0	42110 - Planted Red Pine	High Density Log	85	Harvest	Shelter Wood with Reserves	Planted Red Pine	Cmpt. Review Proposal
----	--------------	-----	--------------------------	------------------	----	---------	----------------------------	------------------	-----------------------

Prescription Recommend shelterwood. Leave 50 BA of Red Pine. Cut when there is no snow on the ground.

Specs:

Other

Comments:

Next Steps: No next step. Let natural regeneration take its course. Some Oak should regenerate, but will except a mixture.

71	72191071-Cut	20.6	42290 - Natural Mixed Pine	High Density Log	83	Harvest	Crown Thinning	Natural Mixed Pine	Cmpt. Review Proposal
----	--------------	------	----------------------------	------------------	----	---------	----------------	--------------------	-----------------------

Prescription Thin stand to 90BA. Remove all Jack Pine within the stand. Leave 2 chain wide buffer strip along bog. Leave area north of Hunters Truck Trail.

Specs:

Other

Comments:

Next

Steps:

**Total Treatment
Acreage Proposed: 405.7**



S
t
a
n
d

Data updated yesterday after 6:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

#Error

Prescription Specs:

Other Comment:

Next Steps:

Limiting Factor and No Treatment Reason

Total Treatment Acreage Proposed: 0

Data updated yesterday after 6:00 PM

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2012



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

S
t
a
n
d

Grayling Mgt. Unit

5 – Forested Stands

Compartment: 191

Data updated yesterday after 6:00 PM

Year of Entry: 2012



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4311 - Pine, Aspen Mix	High Density Pole	39.6	73	81-110	Mixed stand of Aspen/Jack pine. Some Oak and Red pine scattered within stand.
5	4130 - Aspen	High Density Sapling	29.2	17		Immature Aspen stand. Will reach young pole size in the next 10 years.
9	42120 - Planted Jack Pine	High Density Pole	21.0	25		Immature Jack pine stand mixed with deciduous species. Also some scattered Red pine. Stand just reaching into small pole size.
10	4133 - Aspen, Mixed Pine	High Density Pole	38.0	28	81-110	Mixed stand. Aspen, pine and Oak. Other species also.
11	42260 - Natural Pine, Mixed Deciduous	Medium Density Pole	36.4	45	1-50	Stand was harvested in 1984. Stand was suppose to be replanted, but was not. Scattered Red pine throughout the stand(Saw log size, short in height) mixed with Oak and natural Jack pine.
12	42220 - Natural Jack Pine	High Density Pole	2.4	35		Oil/gas well. Well pad has been encroached by Jack pine since it was established. BCU-A12-U
18	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Pole	34.7	25	81-110	Red pine plantation mixed with Jack pine and other deciduous species.
23	42111 - Planted Red Pine, Mixed Deciduous	High Density Pole	35.6	25		Immature Red pine plantation mixed with deciduous species. Just reaching pole status.
26	4310 - Pine, Oak Mix	High Density Sapling	37.5	8		Stand harvested last entry year. (2002). Designated fuel break.
27	42140 - Planted Mixed Pine	High Density Log	47.6	83	81-110	Red pine stand mixed with Jack pine and other deciduous species.
29	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	37.9	18		Stand was harvested in 2004 and natural regen was protected of all species. Oak,Aspen,Jack and Red pine.
31	4126 - White, Black, N. Pin Oak	Medium Density Pole	76.5	28	1-50	Mixed Oak and mixed pine stand. Stand was harvested in 2004, leaving very thing under six inches.
33	42220 - Natural Jack Pine	High Density Pole	2.1	35		Small patch of Jack pine pole timber.
38	42210 - Natural Red Pine	High Density Log	38.6	83		Red pine stand (possibly planted). mixed with Oak Harvested in 1993.
45	4311 - Pine, Aspen Mix	High Density Pole	37.8	25		Red pine plantation just reaching into small pole size mixed with Aspen, Oak and Jack pine. Pockets of dense Aspen on west side of stand. Pockets of Jack pine within stand. Scattered Oak, Aspen and Red pine poles over top the planted Red pine.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	76.5	20		KW Jack pine plantation that has just reached young pole size. North end of stand borders Fletcher rd and the west side is bordering Dollar Lake trail.
49	42110 - Planted Red Pine	High Density Log	125.0	85	111-140	Mature Red pine plantation. Oak understory. Mature Jack pine dying out of stand.
51	42250 - Pine, Oak	High Density Pole	25.4	84	1-50	Harvested last entry year. Remove all the Jack pine. Heavy White pine understory with a moderate White Oak understory.
52	4310 - Pine, Oak Mix	High Density Sapling	24.6	8		Harvested last entry year. Designated fuel break.
53	42290 - Natural Mixed Pine	High Density Log	4.3	125	81-110	Mature Red pine stand with small diameter White and Red pine pole/sapling understory. Some scattered Oak and Jack pine throughout the stand.
54	42210 - Natural Red Pine	High Density Log	4.1	85	51-80	Small mature Red pine stand mixed with some Jack pine and other deciduous species. Stand was treated in the past. It was probably part of stand 2 at one time.
55	42141 - Planted Mixed Pine, Mixed Deciduous	Medium Density Pole	50.0	25	1-50	Pockets of jack pine white pine, and quaking aspen. Other area have more of an open feeling with pole/bolt size rp. Scattered oak throughout.
57	42220 - Natural Jack Pine	Low Density Sapling	28.0	5	1-50	Impressive seed origin jp. The advanced regen of oak, red pine, aspen, jp, and wp were left during harvest operations. These trees are scattered throughout and found in pockets, mostly 1 - 2 sticks could now be considered super canopy. Cherry has filled in the open areas.
58	42220 - Natural Jack Pine	High Density Pole	38.1	76		Jack pine mixed with red and white pine. Scattered Quaking Aspen and aspen pockets. South edge borders bog.
59	6125 - Lowland Black Spruce, Jack Pine	High Density Pole	9.5	82		Remote call. Stand between Bog and Jack pine stand. Stand is probably black spruce, jack pine and white pine.
61	42220 - Natural Jack Pine	High Density Pole	47.6	82	81-110	Mature Jack pine stand with scattered Red pine and white pine. Pockets of cherry brush and some scattered Quaking Aspen and aspen pockets.
64	4310 - Pine, Oak Mix	High Density Pole	21.4	50	81-110	Natural Jack pine stand mixed with other deciduous species.
65	4139 - Aspen, Mixed Deciduous	High Density Pole	18.9	52	51-80	Aspen/Red Maple stand. Some large stuff and some smaller stuff.
66	42110 - Planted Red Pine	High Density Log	25.7	85	111-140	Mature Red pine plantation. Stand was thinned in 1994. Understory consists of primarily Oak saplings and seedlings. Some Red maple and Red pine seedlings.

S
t
a
n
d

Grayling Mgt. Unit

5 – Forested Stands

Compartment: 191

Data updated yesterday after 6:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	6122 - Black Spruce	High Density Pole	6.1	82		Lowland Black Spruce and Jack pine.
68	42110 - Planted Red Pine	High Density Log	4.0	85	51-80	Mature Red pine plantation. Thinned in 1994 and than thinned to 80 BA in 2002.
69	42220 - Natural Jack Pine	High Density Pole	16.7	47	81-110	Jack pine stand with scattered red pine logs and some Oak. Stand should hold another 10 years and than harvest.
71	42290 - Natural Mixed Pine	High Density Log	20.6	83	111-140	Red pine dominant overstory mixed with Jack and white pine. Some deciduous mix especially by bog edge. Also, some black spruce near bog.



Stand	Cover Type	Acres	Gen Cmts:
1	790 - Other Bare/Sparsely Vegetate	8.4	Oil/gas well facility. Fenced with buildings and piping.
3	790 - Other Bare/Sparsely Vegetate	1.1	Oil/gas well. BCU-B1-M and DRZ B2-20
4	790 - Other Bare/Sparsely Vegetate	1.6	Oil/gas well. Beaver Creek Field BCU-A16
6	710 - Sand, Soil	2.8	7 Mile Road - gravel.
7	790 - Other Bare/Sparsely Vegetate	1.6	Oil/gas well. BCU-A18
8	790 - Other Bare/Sparsely Vegetate	1.0	Oil/gas well. Water injection well BCU-B7-U
13	790 - Other Bare/Sparsely Vegetate	1.7	Oil/gas well.
14	790 - Other Bare/Sparsely Vegetate	1.0	Oil/gas well. BCU-32-1
15	790 - Other Bare/Sparsely Vegetate	2.4	Oil/gas well. Narrow strip of Jack pine on north side of stand. BCU-B17
16	790 - Other Bare/Sparsely Vegetate	1.4	Oil/gas well. BCU-B10
17	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. Pad is being encroached by Jack pine. BCU-L1
19	790 - Other Bare/Sparsely Vegetate	1.0	Oil/gas well. BCU-B6
20	790 - Other Bare/Sparsely Vegetate	1.9	Oil/gas well. North 1/4 of pad is being encroached by Jack pine. BCU-A14
21	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. BCU-B13
22	790 - Other Bare/Sparsely Vegetate	1.2	Oil/gas well. BCU-L2 and BDR C3-20
24	790 - Other Bare/Sparsely Vegetate	1.5	Oil/gas well. BCU-L7
25	790 - Other Bare/Sparsely Vegetate	0.9	Oil/gas well. BCU-B3-U
28	790 - Other Bare/Sparsely Vegetate	1.2	Oil/gas well. BCU-B11



Stand	Cover Type	Acres	Gen Cmts:
30	790 - Other Bare/Sparsely Vegetate	1.1	Oil/gas well. Pad is being enroached by Jack pine. BCU-L6
32	790 - Other Bare/Sparsely Vegetate	0.7	Oil/gas well. No # on the map
34	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. BCU-L5
35	790 - Other Bare/Sparsely Vegetate	1.5	Oil/gas well. BCU-L9
36	790 - Other Bare/Sparsely Vegetate	1.0	Oil/gas well. Pad is being enroached by Jack pine. BCU-L3
37	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. No # on map
39	790 - Other Bare/Sparsely Vegetate	1.4	Oil/gas well facility/pumping station.
40	122 - Road/Parking Lot	6.7	Fletcher Road - paved.
41	790 - Other Bare/Sparsely Vegetate	0.9	Oil/gas well. BCU-L4 and DRZ D4-20
42	790 - Other Bare/Sparsely Vegetate	2.4	Oil/gas well. BCU-L8
43	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. BCU-C1-L
44	790 - Other Bare/Sparsely Vegetate	1.3	Oil/gas well. Can not read # on map.
46	790 - Other Bare/Sparsely Vegetate	1.8	Oil/gas well. BCU-L4, BCU-A9-SUN and BDR A3-29
48	790 - Other Bare/Sparsely Vegetate	1.2	Oil/gas well. Can not read # on map.
50	790 - Other Bare/Sparsely Vegetate	1.2	Oil/gas well. East side of sstand waas an old landing when stand 66 was harvested. Regenerating to Jack pine and Aspen. BCU-A6-SUN
56	790 - Other Bare/Sparsely Vegetate	1.1	Oil/gas well. Water injection well DRZ B4-29 Beaver Creek Field and BCU -A8-SUN. Jack and Red pine enroaching upon the pad.
60	6224 - Treed Bog	40.7	Treed bog. Tamerack and some spruce. Tag elder, leatherleaf etc. Part of an ERA.
62	6225 - Bog	39.7	Bog. Lots of standing dead trees. Very few trees (Tamerack/Spruce). Tag elder, leatherleaf etc. Part of an ERA.



Stand	Cover Type	Acres	Gen Cmts:
63	6225 - Bog	2.0	BB bog filling in w/ jp.
70	790 - Other Bare/Sparsely Vegetate	1.6	Oil/gas well. Beaver Creek Field BDR D4-29.
72	3105 - Mixed Upland Herbaceous	1.5	Oil/gas well. DRZ A1-29
73	3105 - Mixed Upland Herbaceous	1.4	Oil/gas well. DRZ B2-29
74	3105 - Mixed Upland Herbaceous	1.0	Oil/gas well. BCU-CS-4
75	3105 - Mixed Upland Herbaceous	0.6	Oil/gas well.



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.

Data updated yesterday after 6:00 PM

Stand	SCA Type	SCA Name	Acres	Comments
-------	----------	----------	-------	----------



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

Data updated yesterday after 6:00 PM

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.