ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION

COMPARTMENT # 181 ENTRY YEAR: 2010

Compartment Acreage: 2008 County: Ogemaw

Revision Date: 6-27-2008

Stand Examiner: Jason Lewicki

Legal Description: T24N R01E Section 36
T24N R02E Section 31, & 32
T23N R02E Section 5 & 6

RMU (if applicable):N/A

Management Goals: To maintain species and structural diversity while managing the ecosystem for health, productivity, sustainability and recreation within the compartment. Maintain Kirtland's Warbler habitat.

Soil and Topography: The terrain is generally flat to very gently rolling and soils are mostly Grayling and Graycalm sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State land is broken up within the compartment by private residents and U.S. Fish and Wildlife Service lands.

Unique, Natural Features: None known.

Archeological, Historical, and Cultural Features: Old homestead foundations within section 5.

Special Management Designations or Considerations: Sections 4, 5 & 9 are within endangered species Kirtland's warbler habitat (Damon Unit). Kirtland's Warbler management areas are "HCVA's"

Watershed and Fisheries Considerations: None Known.

Wildlife Habitat Considerations: Provide and maintain habitat for a variety of game and non game species. Special considerations are given to the Kirtland's Warbler.

Mineral Resource and Development Concerns and/or Restrictions: Sections 5 & 6 T23N-R2E, Sections 31 & 32, T24N-R2E and Section 36, T24N-R1E, Ogemaw County
Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift are the Mississippian Michigan Formation, Marshall Sandstone and Coldwater Shale. The Michigan is quarried for gypsum and the Marshall was previously used as a building stone elsewhere in the State. Most of the good gravel pits are associated with upland areas. The nearest gravel pit is located two miles to the east and there should be good potential on the uplands. Part of the Rose City Field is located in this Compartment. The field has produced over 9.3 million BO and 9.9 Bcf gas from the Devonian Richfield Formation and are in secondary recovery

operations currently. The main field also produces from the Prairie du Chien, and has produced over 31 Bcf gas and 200,000 BO. Most of the State lands in the Compartment are currently leased.

Vehicle Access: Vehicle access is very good due to high ground and numerous forest roads.

Survey Needs: None

Recreational Facilities and Opportunities: Good vehicle access provides excellent hunting opportunities. A snowmobile trail runs through the compartment. There is also the opportunity for bird watchers to view the Kirtland's Warbler.

Fire Protection: A large area in and around this compartment are pine cover types which pose a large wildfire potential.

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

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

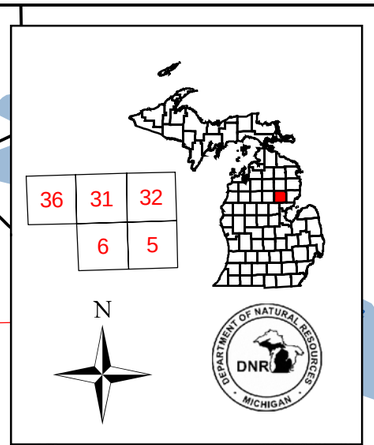
Legend

- Miris Corners
- Paved Road
- County Gravel Road
- Poor Dirt Road
- Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers All
- ORV Trails
- MCCCT Trails
- Snowmobile Trails
- Stands
- Clearcut with Reserves
- Crown Thinning

Forest Stands
LVL3COVER
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest

Non-Forest Stands
LVL3COVER
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub

Compartment 181
T23N, R02E, Sec. 5, 6
T24N, R01E, Sec. 36
T24N, R02E, Sec. 31, 32
County: Roscommon
Unit: Roscommon
YOE: 2008
Acres: 2,008 GIS Calculated
Stand Examiner: Jason Lewicki
Map Revised: 8/04/2008
Map Phase: Pre-review



1 0.5 0 1 Miles

84°17'0"W 84°16'0"W 84°15'0"W 84°14'0"W 84°13'0"W
44°26'0"N 44°25'0"N

Stand Boundary Map

Compartment 181
T23N, R02E, Sec. 5, 6
T24N, R01E, Sec. 36
T24N, R02E, Sec. 31, 32
County: Roscommon
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(412)0) - A7
Level 3 Level 4 — OI Code
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Legend
- Miris Corners
- Paved Road
- County Gravel Road
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- Stream
- ORV Trails
- MCCCT Trails
- Snowmobile Trails
- Stand Boundaries

36 | 31 | 32
6 | 5

N

DEPARTMENT OF NATURAL RESOURCES — DNR — MICHIGAN

1 0.5 0 1 Miles

Roll Rd
Rollin Track Rd
Towar Rd
N Dow Rd
W Heath Rd
Stoney Ridge Rd
W Rose City Rd
Houghton Creek Rd
Fairview Rd
Horseshoe Lake
84°17'0"W
84°16'0"W
84°15'0"W
84°14'0"W
84°13'0"W
44°30'0"N
44°29'0"N
44°28'0"N
44°27'0"N
44°26'0"N
44°25'0"N

1 4212-J3
2 4211-R9
3 4319-UM9
4 4222-J4
5 4122-O6
6 310-G0
7 4212-J3
8 4222-J6
9 4220-W6
10 622-L0
11 500-Z0
12 4222-J6
13 4212-J9
14 4132-A6
15 4222-J6
16 4129-O9
17 4222-J5
18 4222-R6
19 4222-J6
20 4222-J4
21 310-G0
22 310-G0
23 310-G0
24 4130-A6
25 4211-R9
27 4222-J6
28 122-X0
29 4212-J6
30 4211-R9
31 4191-MD1
32 4211-R6
33 4130-A6
34 4212-J1
35 4211-R9
36 4212-J3
37 4214-MC6
38 4211-R9
39 320-U0
40 4211-R9
41 4211-R3
42 4132-A2
43 310-G0
44 4211-R9
45 122-X0
46 4191-MD5
47 4212-J2
48 4222-J6
49 4211-R9
50 4130-A6
51 4212-J9
52 4139-A5
53 320-U0
54 622-V0
55 4130-A6
56 4199-MD1
57 4130-A6
58 4129-O6
60 4191-MD6
61 4211-R9
62 4211-R9
63 4191-MD1
64 4214-MC9
65 4130-A6
66 4211-R9
67 310-G0

Dedicated & Proposed Special Conservation Area Map

84°16'0"W 84°15'0"W 84°14'0"W 84°13'0"W

44°26'0"N

44°25'0"N

36 31 32 6 5

1 **4212**-J3
2 **4211**-R9
3 **4319**-UM9
4 **4222**-J4
5 **4122**-O6
6 **310**-G0
7 **4212**-J3
8 **4222**-J6
9 **4220**-W6
10 **622**-L0
11 **500**-Z0
12 **4222**-J6
13 **4212**-J9
14 **4132**-A6
15 **4222**-J6
16 **4129**-O9
17 **4222**-J5
18 **4222**-J6
19 **4222**-J6
20 **4222**-J4
21 **310**-G0
22 **310**-G0
23 **310**-G0
24 **4130**-A6
25 **4211**-R9
26 **122**-X0
27 **4222**-J6
28 **122**-X0
29 **4212**-J6
30 **4211**-R9
31 **4191**-MD1
32 **4211**-R6
33 **4130**-A6
34 **4212**-J1
35 **4211**-R9
36 **4212**-J3
37 **4214**-MC6
38 **4211**-R9
39 **320**-U0
40 **4211**-R9
41 **4211**-R3
42 **4132**-A2
43 **310**-G0
44 **4211**-R9
45 **122**-X0
46 **4191**-MD5
47 **4212**-J2
48 **4222**-J6
49 **4211**-R9
50 **4130**-A6
51 **4212**-J9
52 **4139**-A5
53 **320**-U0
54 **622**-V0
55 **4130**-A6
56 **4199**-MD1
57 **4130**-A6
58 **4129**-O6
60 **4191**-MD6
61 **4211**-R9
62 **4211**-R9
63 **4191**-MD1
64 **4214**-MC9
65 **4130**-A6
66 **4211**-R9
67 **310**-G0

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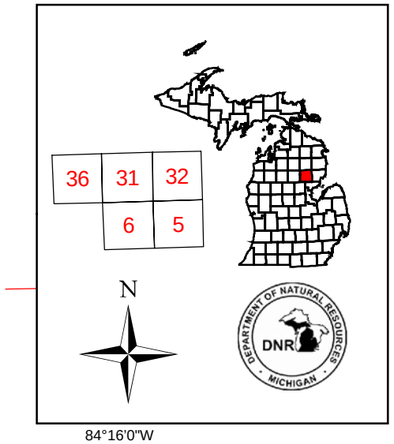
Stand # 23 — Stocking Density
(412)0) - A7
Level 3 Level 4 — OI Code
Cover Type Code

Legend
- Miris Corners
- Stand Boundaries
- Campgrounds
- Kirtland Warbler Habitat



1 0.5 0 1 Miles

Covertype, Acres, and Age summary

(Level 3 Cover Type)

Roscommon Mgt. Unit

Compartment 181 Year of Entry 2010

Report Date: 08/04/2008

Age Class

	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	Total
Aspen Types	0	127.6	0	174.9	62.5	127.4	0	0	0	0	0	0	0	0	0	**492.4**
Herbaceous Openland	31.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**31.7**
Lowland Shrub	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1.1**
Mixed Upland Deciduous	0	157.6	20.8	0	0	0	0	0	0	0	0	0	0	0	0	**178.3**
Natural Pines	0	0	0	0	3.1	17.5	46.0	61.0	38.6	0	0	0	0	0	0	**166.2**
Oak Types	0	0	0	0	0	0	0	0	35.0	0	0	0	0	0	0	**35.0**
Planted Pines	0	181.8	53.4	367.7	0	0	0	0	433.9	0	0	0	0	0	0	**1036.8**
Road/Parking Lot	30.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**30.4**
Upland Mixed Forest	0	0	0	0	0	0	0	0	23.8	0	0	0	0	0	0	**23.8**
Upland Shrub	10.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**10.3**
Water	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2.1**
Total	**75.5**	**466.9**	**74.1**	**542.7**	**65.6**	**144.9**	**46.0**	**61.0**	**531.2**	**0**	**0**	**0**	**0**	**0**	**0**	**2008.0**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
3	71181003-Cut2	23.8	4319 - Mixed Upland Forest	High Density Log	75	Harvest	Clearcut with Reserves	Oak, Pine

Rev Cmnt:

Rev Spec: Final harvest overmature oak and pine overstory. Protect and release advanced oak regeneration.

Next Steps: Evaluate natural regeneration after harvest. If stand is understocked plant jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
5	71181005-Cut1	14.4	4122 - Oak, Pine	High Density Pole	75	Harvest	Clearcut with Reserves	Oak, Pine

Rev Cmnt:

Rev Spec: Final harvest overmature jack pine and oak overstory. Protect and release advanced oak regeneration

Next Steps: Evaluate natural regeneration. If determined to be understocked plant stand to jack pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
12	71181012-Cut1	3.3	42220 - Natural Jack Pine	High Density Pole	70	Harvest	Clearcut with Reserves	Natural Jack Pine

Rev Cmnt:

Rev Spec: Final harvest overmature overstory. Leave some supercanopy pine and oak. Protect oak and pine understory for future stand.

Next Steps: Evaluate natural regeneration. If determined to be understocked, plant red pine.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
18	71181018-Cut	22.4	42220 - Natural Jack Pine	High Density Pole	75	Harvest	Clearcut with Reserves	Planted Jack Pine

Rev Cmnt:

Rev Spec: Final harvest overmature jack pine. Plant area back to jack pine. Plant around heavy oak regeneration.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
25	71181025-Cut	8.0	42110 - Planted Red Pine	High Density Log	76	Harvest	Crown Thinning	Planted Red Pine

Rev Cmnt:

Rev Spec: Thin red pine from below removing poor quality and high risk trees. Remove all jack pine. Thin down to around 110 BA

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
27	71181027-Cut	7.3	42220 - Natural Jack Pine	High Density Pole	76	Harvest	Clearcut with Reserves	Planted Jack Pine

Rev Cmnt:

Rev Spec: Final harvest and replant to red pine.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
29	71181029-Cut	17.5	42120 - Planted Jack Pine	High Density Pole	76	Harvest	Clearcut with Reserves	Planted Jack Pine

Rev Cmnt:

Rev Spec: Final harvest and plant to red pine.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
30	71181030-Cut	16.9	42110 - Planted Red Pine	High Density Log	76	Harvest	Crown Thinning	Planted Red Pine

Rev Cmnt:

Rev Spec: Remove all jack pine and thin red pine down to 110 BA

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
35	71181035-Cut	18.8	42110 - Planted Red Pine	High Density Log	76	Harvest	Clearcut with Reserves	Planted Red Pine

Rev Cmnt:

Rev Spec: Final harvest stand with a 4" diameter limit to protect oak regeneration. Leave scattered red pine for visuals along snowmobile trail.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
38	71181038-Cut	30.1	42110 - Planted Red Pine	High Density Log	76	Harvest	Clearcut with Reserves	Planted Red Pine

Rev Cmnt:

Rev Spec: Final harvest stand leaving a few scattered red pines as super canopy trees. Plant to red pine.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
51	71181051-Cut	39.8	42120 - Planted Jack Pine	High Density Log	76	Harvest	Clearcut with Reserves	Planted Red Pine

Rev Cmnt:

Rev Spec: Final harvest stand and replant to red pine. Stand will become a mixed pine oak stand due to existing oak regeneration. Leave some scattered red pines as supercanopy trees.

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
56	71181056-Prep	47.0	4199 - Other Mixed Upland Deciduous		8	Site Prep	Chopping	Planted Red Pine

Rev Cmnt:

Rev Spec: Roller chop stand to reduce pin cherry competition. avoid any areas that have existing oak regeneration. Plant area to red pine following roller chopper.

Next Steps: Evaluate resprouting of cherry after chopping.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
Total Treatment Acreage Proposed:		**249.2**						

Roscommon Mgt. Unit
Inventory Method: IFMAP

PROPOSED TREATMENTS WITH LIMITING FACTORS

Compartment: 181 Entry Yr: 2010
Date 08/04/2008

Stand	Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective

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

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	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	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.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42120 - Planted Jack Pine	High Density Sapling	240.6	28		KW plantation
2	42110 - Planted Red Pine	High Density Log	40.5	76	111-140	1932 red pine plantation. Stand was thinned in prior entry years. Heavy advanced oak regeneration. Some younger aspen in more open areas.
3	4319 - Mixed Upland Forest	High Density Log	23.8	75	51-80	Old jack pine and poor quality pin oak both experiencing decline and mortality. Younger understory of oak regeneration 2-4", mostly in stump sprout origin. Heavy pin cherry in understory.
4	42221 - Natural Jack Pine, Mixed Deciduous	Low Density Pole	16.2	55	1-50	Very open stand with scattered oak, cherry and jack pine.
5	4122 - Oak, Pine	High Density Pole	14.4	75	51-80	Old oak and jack pine stand with heavy advanced oak regeneration. Overstory removal protecting and releasing oak understory. Leave some oak and pine supercanopy trees.
7	42120 - Planted Jack Pine	High Density Sapling	93.3	24		KW plantation
8	42220 - Natural Jack Pine	High Density Pole	22.4	55	81-110	Jack pine pole timber stand with some scattered larger red pine and a few oak. Pin cherry and oak in understory.
9	42200 - Natural White Pine	High Density Pole	15.7	48	111-140	Thick white pine poletimber stand with large 20"+ red and white pine super canopy trees. Some sapling white pine and cherry understory.
12	42220 - Natural Jack Pine	High Density Pole	3.3	70	51-80	Overmature jack pine stand. Some large overmature oaks present especially on north end. Some areas have avanced white pine and oak understory. Harvest older jack pine and oak. Release younger pine and oak. Leave scattered mature oak and pine for mast and visuals.
13	42120 - Planted Jack Pine	High Density Log	15.9	76	51-80	Strip between powerline and road.
14	4132 - Aspen, Jack Pine	High Density Pole	62.5	31	51-80	Mixed aspen jack pine stand.
15	42220 - Natural Jack Pine	High Density Pole	1.8	45	51-80	Small pocket of jack pine pole timber. Pin cherry understory.
16	4129 - Mixed Oak	High Density Log	9.9	78	81-110	Oak stand on higher terrain along private property. Some aspen, red maple, jack pine and red pine present. Areas of heavy red maple 1-3" in understory. Stand will succeed to maple over time. Good source of mast for the area.
17	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density Pole	7.5	54	51-80	
18	42220 - Natural Jack Pine	High Density Pole	22.4	75	51-80	Old jack pine stand along Rose city road experiencing decline and mortality. Some areas of the stand have excellent advanced oak regeneration.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	42220 - Natural Jack Pine	High Density Pole	55.3	65	51-80	Jack pine pole timber stand with a few oaks and red pine. Pin cherry found in understory and in small openings. Some areas have good advanced oak single stem regeneration
20	42220 - Natural Jack Pine	Low Density Pole	5.6	75	1-50	Very open area with scattered jack pine and some oak.
24	4130 - Aspen	High Density Pole	10.6	43	51-80	Poor quality quaking aspen stand. Heavy pin cherry and some oak in understor.
25	42110 - Planted Red Pine	High Density Log	8.0	76	141-170	1932 red pine plantation in need of thinning.
26	42110 - Planted Red Pine	High Density Log	4.3	76	81-110	
27	42220 - Natural Jack Pine	High Density Pole	7.3	76	51-80	Jack pine pole timber stand with scattered red pine. Final harvest and plant red pine.
29	42120 - Planted Jack Pine	High Density Pole	17.5	76	81-110	JAck pine pole timber stand with scattered red pine. Final harvest and plant red pine.
30	42110 - Planted Red Pine	High Density Log	16.9	76	141-170	Nice red pine plantation mixed with jack pine. Jack pine experiencing decline and mortalaty. Remove jack pine and poor formed, supressed and high risk red pine. Thin to 80-100 BA
31	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	68.6	6		KW plantation with alot of oak competition.
32	42110 - Planted Red Pine	High Density Pole	6.8	76		
33	4130 - Aspen	High Density Pole	5.4	25	1-50	
34	42121 - Planted Jack Pine, Mixed Deciduous	Low Density Sapling	181.8	6		KW plantation. Lots of hardwood competition
35	42110 - Planted Red Pine	High Density Log	18.8	76	111-140	Nice sawtimber size red pine stand with heavy advanced oak regeneration. Some jack pine in more open areas.
36	42120 - Planted Jack Pine	High Density Sapling	31.9	25		
37	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Pole	9.9	76	1-50	Some what open area filling in with oak and jack pine
38	42110 - Planted Red Pine	High Density Log	30.1	76	141-170	Very nice red pine stand that was thinned last entry. Some pin oak in understory but mostly open.
40	42110 - Planted Red Pine	High Density Log	38.9	76	141-170	Nice red pine stand with heavy advanced oak regeneration. Some areas with lower stocked red pine. These areas are filling in with jack pine and oak.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	42110 - Planted Red Pine	High Density Sapling	2.0	24		
42	4132 - Aspen, Jack Pine	Medium Density	127.6	6		KW jack pine plantation with alot of hardwood competition from aspen and oak.
44	42110 - Planted Red Pine	High Density Log	20.6	76	51-80	
46	42110 - Planted Red Pine	High Density Pole	4.4	76	51-80	
47	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	53.4	10		Nice mix of oak and jack pine. Old notes state that stand was seeded after harvest.
48	42220 - Natural Jack Pine	High Density Pole	5.7	65	81-110	Small stand of jack pine pole timber mixed with poor quality pin oak.
49	42110 - Planted Red Pine	High Density Log	30.2	76	81-110	Red pine stand with oak and jack pine in the understory. Lower stocked red pine areas have pole sized jack pine in them. Evaluate next entry fro possible treatments.
50	4130 - Aspen	High Density Pole	76.2	41	51-80	Quaking aspen pole timber stand with oak understory up to 20 feet tall. Potentilly harvest next entry.
51	42120 - Planted Jack Pine	High Density Log	39.8	76	81-110	Mixed stand of jack pine and red pine. Red pine scattered and in groups. Jack pine experiencing decline and mortality. Heavy oak regeneration. Some pin cherry.
52	4139 - Aspen, Mixed Deciduous	Medium Density Pole	72.8	25	1-50	Mixed stand of aspen, oak jack pine and a few red pine. Some older scattered log size red pine. Some open areas with scattered pin cherry. Pin cherry and oak in understory.
55	4130 - Aspen	High Density Pole	40.6	41	81-110	Decent Big tooth aspen pole timber standwith pin and white oak super canopy trees present. Stand appears to be of fire origin as fire scars are evident on old oaks.
56	4199 - Other Mixed Upland Deciduous	Low Density Sapling	47.0	8		Oak/pine stand that was harvested last entry. Some oak stump sprouts and a few jack pine. Most of area is covered with cherry brush. Consider using roller chopper to reduce cherry competition and plant area to red pine.
57	4130 - Aspen	High Density Pole	79.7	20	51-80	Nice mix of aspen and oak stump sprouts. Just entering pole timber size.
58	4129 - Mixed Oak	High Density Pole	10.6	76	51-80	Poor quality oak along Rose City Rd.
59	42220 - Natural Jack Pine	High Density Pole	3.1	30	51-80	Jack pin pole timber stand. A few bigger red pine scattered about. Cherry and oak in understory.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	20.8	18	51-80	Mixed stand of pin oak, cherry and jack pine. Most oak regeneration is from stump sprout origin.
61	42110 - Planted Red Pine	High Density Log	64.3	76	81-110	
62	42110 - Planted Red Pine	High Density Log	11.9	76	81-110	Red pine stand that was thinned last entry.
63	4191 - Mixed Upland Deciduous with Conifer	Low Density Sapling	41.9	8		Heavy cherry in some areas. Oak stump sprouts and some natural jack pine.
64	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Log	45.5	76	111-140	Variable red pine stand with heavy advanced oak regeneration. Oak and jack pine throughout. Both experiencing decline especially the jack pine. Some open areas filed with oak and pine. Some oak regen is approaching pole timber size.
65	4130 - Aspen	High Density Pole	17.1	20	1-50	Aspen/oak stand on steep hill. Bottom of slope is pin oak and quaking aspen while top of slope is better oak and big tooth aspen.
66	42110 - Planted Red Pine	High Density Log	9.6	76	111-140	Nice red pine stand that was 3rd row thinned last entry. Oak in understory.

Stand	Cover Type	Acres	Gen Cmts:
6	310 - Herbaceous Openland	3.2	
10	6229 - Mixed lowland shrub	0.3	Low wet areas that sometimes holds water. Some lowland brush
11	50 - Water	2.1	
21	3102 - Grass	2.8	Grass and some cherry brush.
22	3102 - Grass	1.4	Large gas pipelineGrassy open areas with some cherry brush.
23	3102 - Grass	20.1	Gass pipeline/powerline
28	122 - Road/Parking Lot	22.0	
39	320 - Upland Shrub	1.4	
43	310 - Herbaceous Openland	1.8	
45	122 - Road/Parking Lot	8.4	
53	320 - Upland Shrub	8.9	
54	6225 - Bog	0.8	
67	310 - Herbaceous Openland	2.4	