



Gladwin Forest Management Unit
Compartment Review Presentation
Compartment 131 Entry Year: 2012
Compartment Acreage: 1,905 County: Arenac

Revision Date: Drafts: 2) October 5, 2010. 1) September 10, 2010.

Stand Examiner: Mark Reichel

Legal Description: T 19N, R 3E, Sections 14-18, 20, 21, 32

Management Goals: Aspen forest types, upland and lowland, comprise 45% of the compartment's cover. 166 acres of aspen will be harvested in order to achieve a sustained yield and to maintain aspen in this compartment. There are active oil leases in the eastern portion of the compartment, with a pipeline running between sections 15 and 16, and a lot of oil facilities in sections 14 and 15, especially section 14.

Soil and Topography: This compartment straddles a very broad divide running north-northeast and southwest. From a "ridge" along the western and northwestern edge of section 15, the land slopes down to the east and west, with the western part of the compartment forming the beginning of the headwaters of the Molasses River (Bentley Marsh is 1 ½ miles to the southwest), and the east part forming the headwaters of the Pine River (the North Branch starts just southeast of compartment). The Rifle River comes within two miles of northeast edge of the compartment. 46% of the compartment is lowland. 17% of the compartment is lowland non-forest types, mostly in a large wetland complex in sections 17, 18, 20 and 21. Section 14 also has a lot of non-forested wetlands. The majority of this compartment consists of poorly drained sandy soils in the Au Gres-Roscommon, Au Gres and Au Gres-Rubicon soil associations. These poorly drained soils are on outwash and till plains, are not productive, and have moderate to high wind-throw hazard and moderate to poor operability for equipment. Very poorly drained Roscommon association soils are found in sections 15 (south central), 16 (east central) and 18. Very poorly drained Adrian and Tawas-Carbondale Mucks are found in sections 14 (northwest) and 21 (central). Sections 14, 15 and 18 are dissected by narrow ridges with excessively drained Eastport-Rubicon and Rubicon series soils, which are productive for pine and, to a lesser degree, oak.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment 131 is the southernmost compartment in a large block of state forest land in western Arenac County (half each of Adams and Moffatt townships). Large areas to the east and south are privately held agricultural land, but almost none of the parcels immediately adjacent to the compartment are farmed. The northern edge of the compartment borders state forest land, but the southern, eastern and western edges all border private, forested land with permanent residences and some hunting cabins. These parcels range in size from 10 to 80 acres, with the exception of a large hunting club in section 17. There are very few issues with dumping, ORV abuse or illegal hunting structures in the compartment.

Unique, Natural Features: None. Eastern Massasauga Rattlesnake, an endangered species, was observed on private land just south of the compartment in 1986.

Archeological, Historical, and Cultural Features: No concerns per HAL database.

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: This is an excellent compartment for grouse, woodcock and turkeys. This area is also heavily pressured by deer hunters. Too many trails are present that fragment prime grouse, woodcock and deer habitat, and several berms have been breached. Serious consideration should be given to a road closure plan for this compartment. Two wildlife gates and several annually maintained openings are found within this compartment.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and end moraine deposits on the eastern end. The glacial drift thickness varies between 100 and 400 feet, thicker to the east. Beneath the glacial drift are the Pennsylvanian Saginaw Formation and the Michigan Formation. The Saginaw is used for clay/shale and the Michigan is mined for gypsum in other areas of the State. Gravel pits are located in Section 26 and are similar to deposits in Section 14. The eastern portion of the compartment has been developed for oil and gas. North Adams Field, discovered in 1940, has produced over 9.5 million BO from the Dundee. Most of the compartment is currently under lease.

Vehicle Access: Most of the manageable timber in the compartment (sections 14-16, the east half of section 17 and north half of section 21) has fair to good access via poor dirt roads and Ward, Lucas and Demura Roads, which are gravel county roads. Sterling Truck Trail provides access from the north. Access is difficult in sections 17 (west half), 18 and 21, due to lowland forest/non-forest types and parcels partially landlocked by private land. All treatments will be accessible: stand 51 will require short crossings of wet areas and stands 39, 41, 42 and 116 will require construction of short lengths of road. Access to stands 39, 41 and 42 was cut off by a land trade at the north end of Demura Road; consideration should be given to creating a length of permanent road (during timber harvest) to access the road along the ridge in section 17. Several berms have been breached and now need refurbishment.

Survey Needs: Treatments in stands 42 and 51 will have short lengths of blue line along the same private holding. There are monuments for stand 51. The private line for stand 42 has changed due to a land trade and may need a survey.

Recreational Facilities and Opportunities: The primary recreational use of the compartment is grouse and deer hunting, with some berry picking.

Fire Protection:

Additional Compartment Information: None

Cover Type & Treatment Map

Compartment 131
 T19N, R03E, Sec. 14-18, 20, 21
 County: Arenac
 Unit: Gladwin
 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner:
 Map Revised: 10/20/2010
 Map Phase: Pre-Review

Stand #
 23
 Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
- Remunented Section Corners
- Interstate Highway
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Planting (tree species)
- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

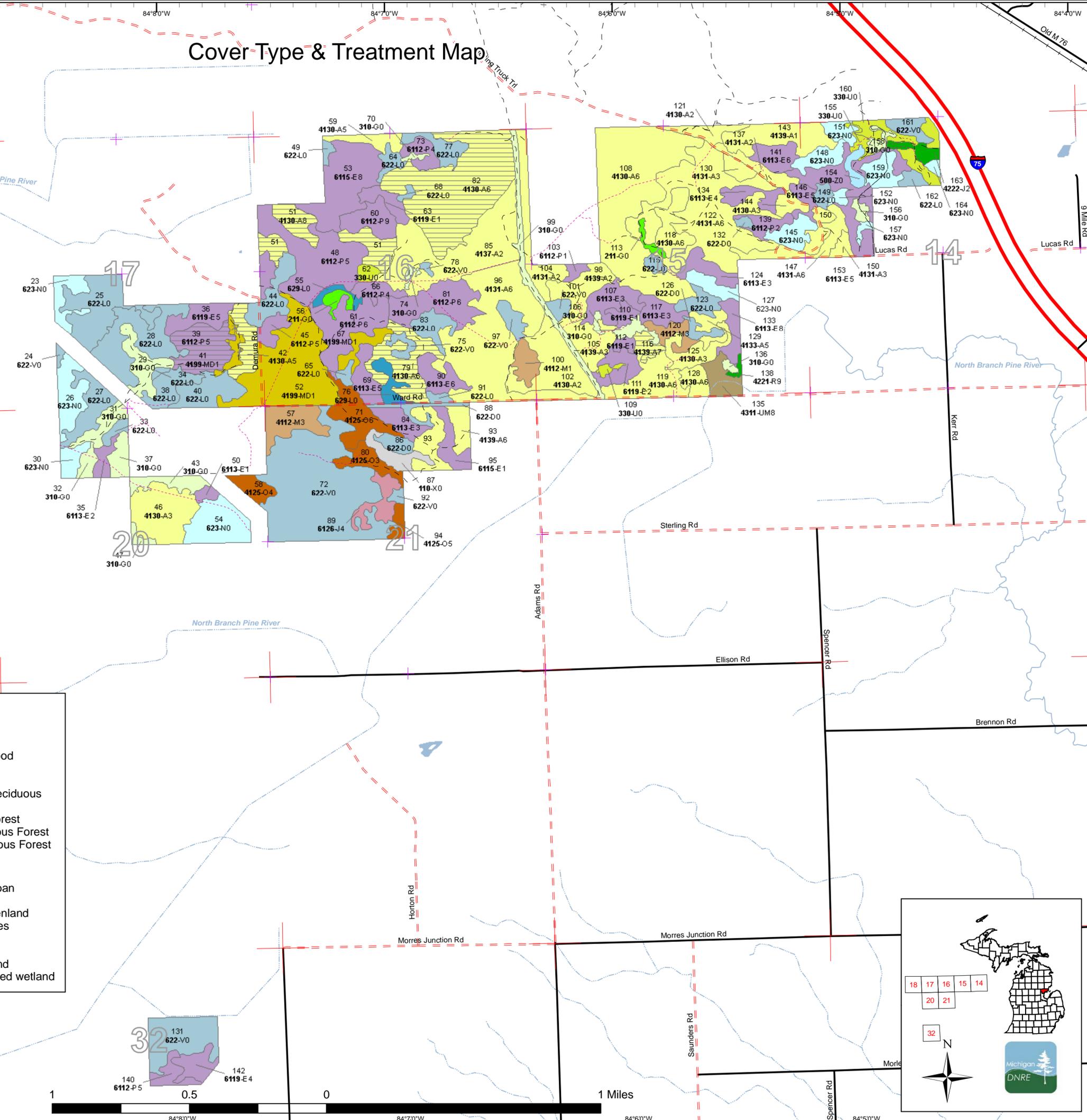
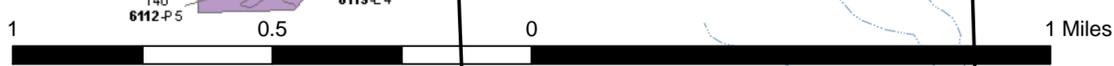
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

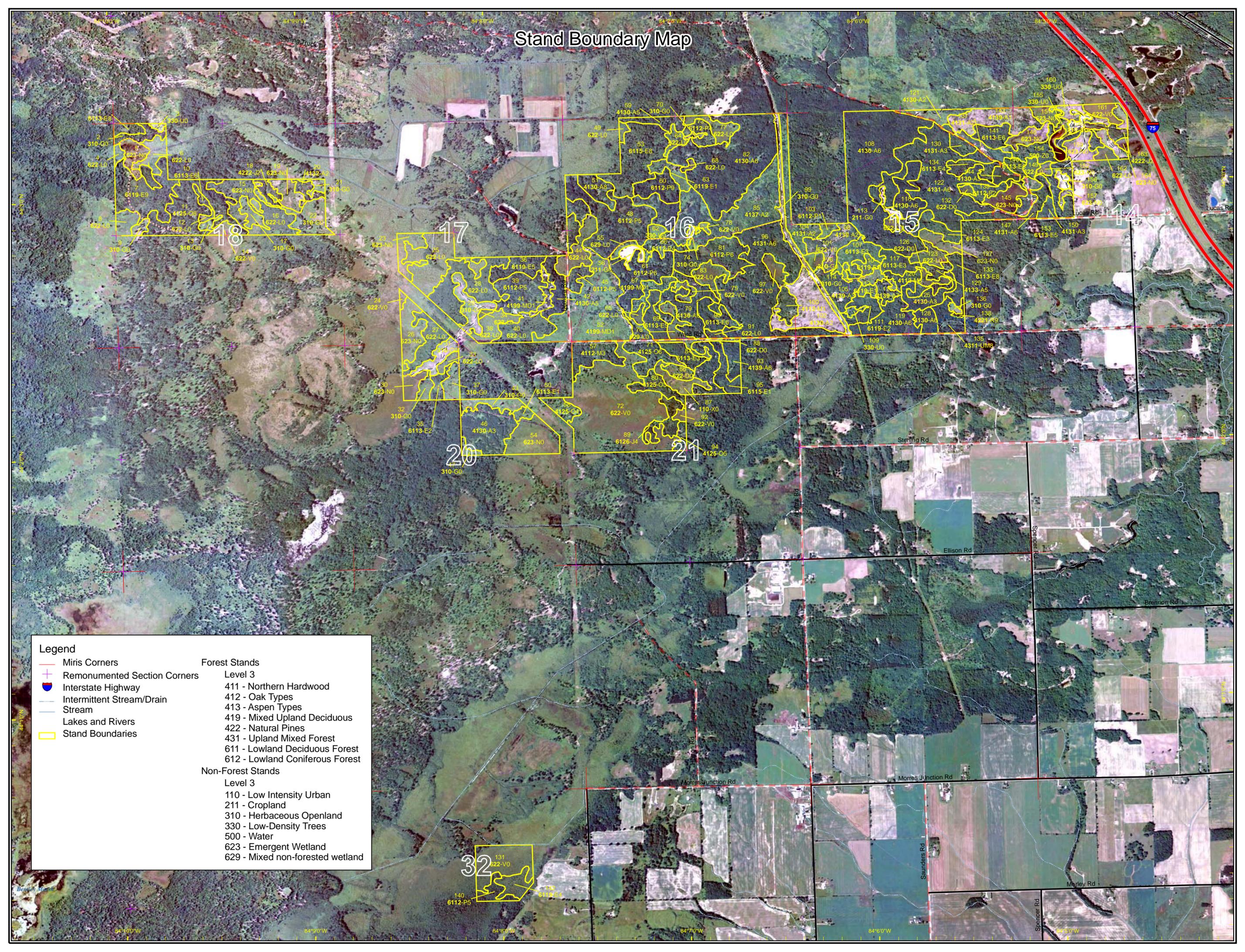
- 110 - Low Intensity Urban
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

Stand Boundary Map

Legend

 Miris Corners	Forest Stands
 Remonumented Section Corners	Level 3
 Interstate Highway	411 - Northern Hardwood
 Intermittent Stream/Drain	412 - Oak Types
 Stream	413 - Aspen Types
 Lakes and Rivers	419 - Mixed Upland Deciduous
 Stand Boundaries	422 - Natural Pines
	431 - Upland Mixed Forest
	611 - Lowland Deciduous Forest
	612 - Lowland Coniferous Forest
	Non-Forest Stands
	Level 3
	110 - Low Intensity Urban
	211 - Cropland
	310 - Herbaceous Openland
	330 - Low-Density Trees
	500 - Water
	623 - Emergent Wetland
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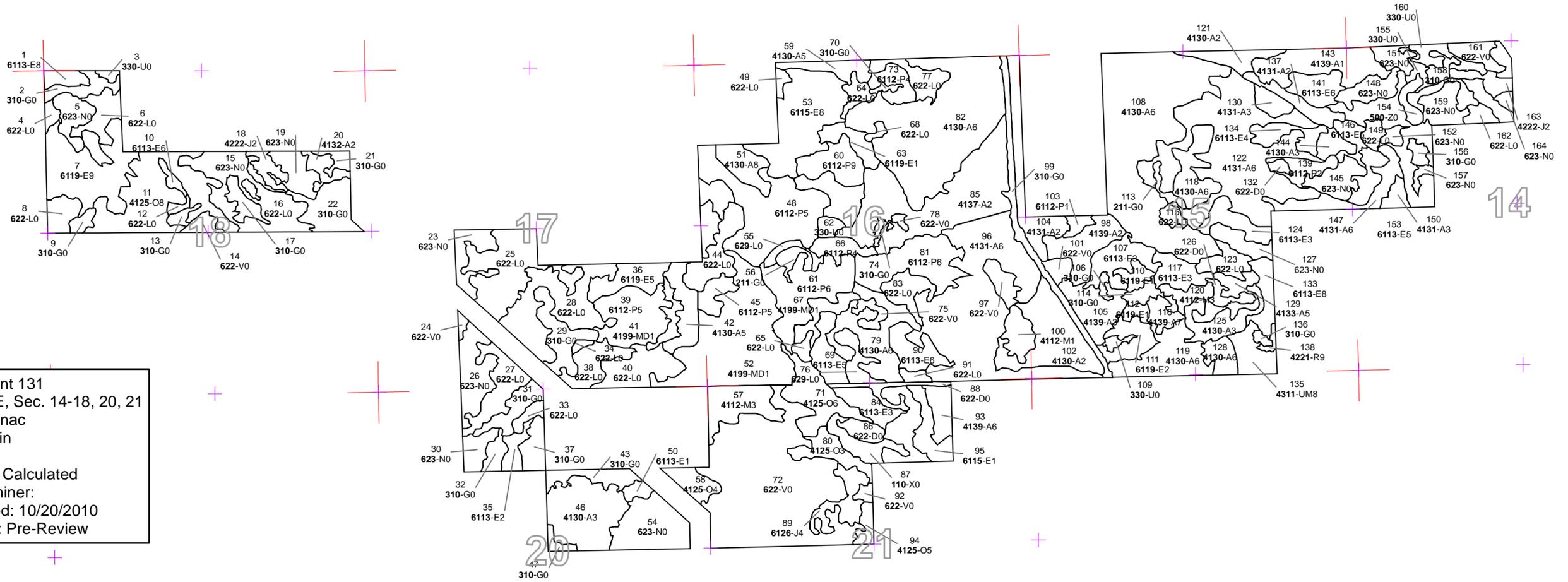
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84°10'0"W 84°9'0"W 84°8'0"W 84°7'0"W 84°6'0"W

Dedicated & Proposed Special Conservation Area Map



Compartment 131
 T19N, R03E, Sec. 14-18, 20, 21
 County: Arenac
 Unit: Gladwin
 YOE: 2012
 Acres: GIS Calculated
 Stand Examiner:
 Map Revised: 10/20/2010
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
 - Dedicated Special Conservation Areas
 - Wildlife Management Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - Non-Forest Stands
 - Level 3
 - 110 - Low Intensity Urban
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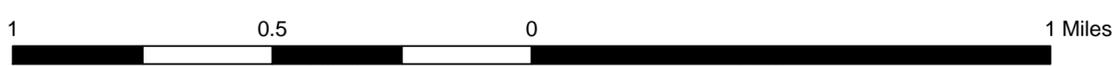
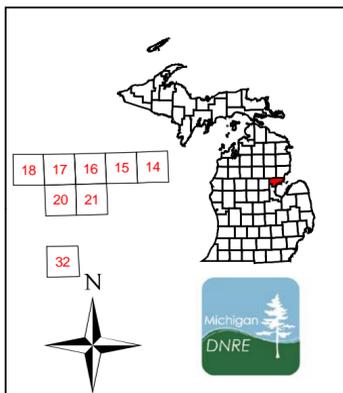
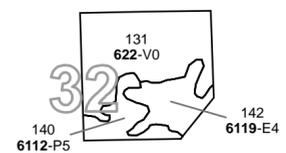


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	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	0	56	131	14	227	217	0	0	17	25	0	0	0	0	0	687
Bog	142	0	0	0	0	0	0	0	0	0	0	0	0	0	0	142
Cropland	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101
Jack Pine	0	0	0	5	0	14	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Aspen/Balsam Poplar	0	0	2	0	6	141	6	6	0	0	0	0	0	0	0	162
Lowland Deciduous	0	0	28	18	33	42	8	0	40	71	0	0	0	0	0	240
Lowland Shrub	209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	209
Marsh	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Mixed Upland Deciduous	0	0	57	0	0	11	0	0	0	0	0	0	0	0	0	68
Northern Hardwood	0	0	0	0	7	15	0	0	0	7	0	0	0	0	0	29
Oak	0	0	0	0	9	24	0	0	4	41	0	0	0	0	0	77
Red Pine	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	612	56	219	37	291	465	14	7	61	144	0	0	0	0	0	1905



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Gladwin Mgt. Unit
Year of Entry 2012

Compartment 131
Total Compartment Acres: 1905

Acres by Treatment Type

Commercial Harvest - 161	Site Prep - 0	Tree Planting - 5	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	140	0	0	0	0	0	140
Lowland Aspen/Balsam Poplar	21	0	0	0	0	0	21
Total	161	0	0	0	0	0	161



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39 73131039-FH	21.1	6112 - Lowland Aspen	Medium Density Pole	45	Harvest	Clearcut with Reserves	Lowland Aspen	Cmpt. Review Proposal

Prescription Final harvest. Use dry/frozen spec., NON-NEGOTIABLE. Leave the trace of non-aspen in stand and exclude wettest area at northwest edge of stand from sale boundary as retention.

Other Comments: This stand may not regenerate if harvested during growing season. 65% of stand is too wet to plant with current technology. 30-40% upland.

Next Steps:

42 73131042-FH	10.8	4130 - Aspen	Medium Density Pole	45	Harvest	Clearcut with Reserves	Lowland Aspen	Cmpt. Review Proposal
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Prescription Final harvest during DRY/FROZEN/DORMANT condiditons due to wet ground at south end. Do not cut oak of any size (sparse regeneration): leave as retention using spec. North end forms side of ridge below road and is operable. Exlude wettest area (with tag alder) at south end from sale. This area and residual oak will serve as retention.

Other Comments:

Next Steps:

51 73131051-FH	24.9	4130 - Aspen	Medium Density Log	80	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
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Prescription Final harvest.

Other Comments: Put landing at far east end on road into stand 85. Will have to cross wet areas to get to two of three polygons in this multi-poly stand.

Next Steps:

79 73131079-FH	22.4	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
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Prescription Final harvest. Leave all oak by spec for retention.

Other Comments: Access off Ward Road.

Next Steps:

82 73131082-FH	77.3	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	Aspen	Cmpt. Review Proposal
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Prescription Final harvest: exclude very wet portions of stand at far west adjacent to stand 63 and along southeast edge from sale unit, for retention. Leave all oak, birch, cedar and cherry by spec for retention as well.

Other Comments: Landing along gated road coming off powerline road (near Sterling Truck Trail), and/or along powerline. Could also build about 100 yards of road west from northeast corner of stand 85 to small clearing. Will have to armor 3 drainages running east-west through stand. Limit crossings of these drainages to 1 or 2 per drainage.

Next Steps:



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
116 73131116-FH	4.7	4139 - Aspen, Mixed Deciduous	Low Density Log	77	Harvest	Clearcut with Reserves	Aspen, Mixed Deciduous	Cmpt. Review Proposal

Prescription: Final harvest. Reserve all red maple poles/logs, and all oak, white pine and birch including saplings (about 5% cover) as retention by basal area. There may be a few small, shallow, mossy depressions that could be excluded from sale boundary as retention by area also.

Other: Large, old aspen with some vigor left, large maple, and newer regen of varying age. Best access from well pad road to west and northwest.
Comments: Also access via two-track to southeast coming off Ward Rd. (has some wet areas).

Next Steps:

41 73131041-Plant	4.6	4199 - Other Mixed Upland Deciduous	Low Density Sapling	45	Tree Planting	Hand Plant	Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription: Plant Jack pine. Red pine could be an alternate species. For access leave new road into adjacent stand 39 opened after timber sale. Plant after sale.

Other: Currently barely forested with pin cherry and oak, with bracken, sedge, grass and sweet fern ground cover.
Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 165.8**



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Data updated before 10:00 AM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

Data updated before 10:00 AM

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
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Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 131
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6113 - Lowland Maple	Medium Density Log	3.9	81		Lowland shrubs in center.
7	6119 - Mixed Lowland Deciduous Forest	High Density Log	30.8	89		Diverse stand: Southern 1/3 drier with mostly maple. North central 4 ac ash logs over swamp grass. SW 4 ac drier w/ mostly maple. South central 4 ac sparser smaller ash over alder and swamp grass.
10	6113 - Lowland Maple	High Density Pole	1.9	83		Drainage through stand 11.
11	4125 - Black, N. Pin Oak	Medium Density Log	41.1	83		Operable within stand but no access. FACTOR LIMIT FOR NO ACCESS.
18	42221 - Natural Jack Pine, Mixed Deciduous	Medium Density	4.7	44		Jack ridge and aspen bog: lumped because surrounded by non-forest and too small to break out as separate stands.
20	4132 - Aspen, Jack Pine	Medium Density	4.7	44		Poor site aspen over bracken and some bog. E 1/3 is jack pine ridge.
35	6113 - Lowland Maple	Medium Density	4.6	45		Failed aspen CC c. 1995 or earlier. Middle 30% is same as stand 33 and 174. This stand was portion too low to cut.
36	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	10.8	45		West 1/2 operable and mostly maple. E 1/2 very wet, mostly ash.
39	6112 - Lowland Aspen	Medium Density Pole	21.1	45		30-40% upland.
41	4199 - Other Mixed Upland Deciduous	Low Density Sapling	4.6	45		Portion of dry ridge with bracken, sedge, grass, sweet fern.
42	4130 - Aspen	Medium Density Pole	10.8	45		Wetter with alder at south end: use as retention.
45	6112 - Lowland Aspen	Medium Density Pole	5.6	69		Portion of stand 46 not harvested because too wet.
46	4130 - Aspen	High Density Sapling	27.3	16		Regenerated well. 65-75% upland. lower along east edge.
48	6112 - Lowland Aspen	Medium Density Pole	45.2	45		very wet with alder and swamp grass ground cover. Allow to convert to E.
50	6113 - Lowland Maple	Low Density Sapling	2.5	16		areas of alder and swamp grass.
51	4130 - Aspen	Medium Density Log	24.9	80		
52	4199 - Other Mixed Upland Deciduous	Low Density Sapling	56.8	19		25-30% shallow depressions w/ moss, willow, alder. Aspen in fairly small, scattered but dense clumps.

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Gladwin Mgt. Unit

5 – Forested Stands

Compartment: 131
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
53	6115 - Lowland Ash	Medium Density Log	34.2	80		
57	4112 - Maple, Beech, Cherry Association	High Density Sapling	14.7	45		
58	4125 - Black, N. Pin Oak	Low Density Pole	6.5	45		60-65% upland. Bracken.
59	4130 - Aspen	Medium Density Pole	7.0	45		very difficult access. Low volume and vigor. More E type at west end.
60	6112 - Lowland Aspen	High Density Log	12.3	45		Inoperably wet (very) portion broken out of stand 48 (former OI stand 17).
61	6112 - Lowland Aspen	High Density Pole	26.1	45		low volume, diameters for 45 year old stand. Low SI of 55. Small L pockets remaining.
63	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	6.8	19		Small upland with few large oak at north central edge. Scattered large trees in west end.
66	6112 - Lowland Aspen	Low Density Pole	6.0	45		broken out of stand 56: much wetter and a lot of L type inclusions and tamarack.
67	4199 - Other Mixed Upland Deciduous	Low Density Sapling	6.8	45		35-40% lowland: shallow depressions w/ small willow, alder and trees. Sparsely treed uplands w/ bracken.
69	6113 - Lowland Maple	Medium Density Pole	9.2	45		
71	4125 - Black, N. Pin Oak	High Density Pole	17.1	45		Ridge
73	6112 - Lowland Aspen	Low Density Pole	6.8	45		Poor vigor and low volume. Would convert to L if cut. Evidence of wild boars.
79	4130 - Aspen	High Density Pole	22.4	45		Somewhat low volume: could hold or harvest depending on age distribution.
80	4125 - Black, N. Pin Oak	High Density Sapling	9.0	35		Operable ridge. Private line posted slightly west onto state according to GPS
81	6112 - Lowland Aspen	High Density Pole	23.6	45		Broken out of pre-inv st 83 because wetter and more maple. Can harvest or hold: aspen in fair condition and not highly vigorous. HARVEST DRY FROZEN IF HARVEST.
82	4130 - Aspen	High Density Pole	77.3	45		
84	6113 - Lowland Maple	High Density Sapling	7.8	45		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	4137 - Aspen, Birch	Medium Density	55.0	19		65% upland: scattered lowland shrub pockets and areas heavy to birch and maple that are wet soil but not depressions.
89	6126 - Lowland Jack Pine	Low Density Pole	9.8	45		Jack pine bog with blueberry/leatherleaf
90	6113 - Lowland Maple	High Density Pole	9.8	45		Boken out of pre-inv stand 83. Dense lowland maple ridges interspersed with wetter broad drainages with lowland shrubs and less canopy cover.
93	4139 - Aspen, Mixed Deciduous	High Density Pole	19.1	45		Variable stand. Eastern Polygon: N 1/3 little wetter with maple logs and heavy maple understory. Middle 1/3 little sparse with opening: . S 1/2 has ridge with mostly large pole sized aspen.
94	4125 - Black, N. Pin Oak	Medium Density Pole	3.6	70		Oak/pine ridge. Inaccessible due to private and bog. Blueberry ground cover and lot of oak seedlings in places.
95	6115 - Lowland Ash	Low Density Sapling	8.7	27		very wet: flowing drain through stand
96	4131 - Aspen, Oak	High Density Pole	75.8	45		Meets age criteria for harvest and is fair vigor aspen. Not a good aspen site. Look at age classes: could hold to get more volume but stand won't put on a lot in 10 years.
98	4139 - Aspen, Mixed Deciduous	Medium Density	16.9	19		10-15% lowland: few shallow drainages and shallow depressions w/ sphagnum moss.
100	4112 - Maple, Beech, Cherry Association	Low Density Sapling	7.3	81		55% of stand sparse, very low SI upland excluded from harvest in stand 92 because very little product. 45% maple over winterberry lowland.
102	4130 - Aspen	Medium Density	27.5	5		Harvested 2005 and regenerating well. Residual large sapling pole sized oak and maple.
103	6112 - Lowland Aspen	Low Density Sapling	2.5	19		Small bog @ N end. Blueberry and bracken cover. Sparser than st 88; from same harvest.
104	4131 - Aspen, Oak	Medium Density	15.1	19		PvCd (very dry) site w/ sedges and reindeer moss.
105	4139 - Aspen, Mixed Deciduous	High Density Sapling	13.9	27		Varies from upland to hummocky (40%) to wet areas with winterberry (20%). Drier and heavier to aspen at south end.
107	6113 - Lowland Maple	High Density Sapling	12.3	19		Some sensitive fern and few marsh pockets: wetter than stand 88 or 93.
108	4130 - Aspen	High Density Pole	88.5	38		Priority 1 candidate for early harvest if needed to even age class distribution. Varied hydrology: from ridges (5-10%) to low areas with some ash (5-10%). Enough low area that dry/frozen spec might be wanted. Low areas just dried up recently (late june).

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Gladwin Mgt. Unit

5 – Forested Stands

Data updated before 10:00 AM

Compartment: 131
Year of Entry: 2012

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
110	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	3.9	19		Lowland shrubs that have succeeded to forest. Much sparser than stand 96 with far more alder/willow
111	6119 - Mixed Lowland Deciduous Forest	Medium Density	9.5	27		Considerable microrelief.
112	6119 - Mixed Lowland Deciduous Forest	Low Density Sapling	2.4	19		
116	4139 - Aspen, Mixed Deciduous	Low Density Log	4.7	77		Large old aspen with some vigor left, large maple, and newer regen of varying age. left when stand 10 harvested because of few low, mossy depressions.
117	6113 - Lowland Maple	High Density Sapling	8.4	38		Ture lowland hardwoods but operable when dry/frozen
118	4130 - Aspen	High Density Pole	13.0	38		Priority 1 candidate for early harvest if needed to even age class distribution. Varied hydrology: from ridges (5-10%) to low areas with some ash (5-10%). Enough low area that dry/frozen spec might be wanted. Low areas just dried up recently (late june).
119	4130 - Aspen	High Density Pole	19.5	38		Candidate for early harvest to even aspen age class distribution. Grades to wetter at west end. 35% lowland.
120	4112 - Maple, Beech, Cherry Association	High Density Sapling	6.9	38		Barely upland: operable with dry/frozen spec. Formerly part of stand 98/112: wetter. Grades into lowland shrubs at E end.
121	4130 - Aspen	Medium Density	7.2	8		Cut 2002: Toboggan Hill sale in comp 129 to north.
122	4131 - Aspen, Oak	High Density Pole	73.8	38		Drier than stand 98 with more oak, les maple. Has bigtooth aspen vs quaking in st 98.
124	6113 - Lowland Maple	High Density Sapling	8.5	38		Wetter and lower SI than surrounding stands
125	4130 - Aspen	High Density Sapling	10.7	38		
128	4130 - Aspen	High Density Pole	6.2	38		Good high SI stand. Mostly QA compared to stand 167 and stand to east.
129	4133 - Aspen, Mixed Pine	Medium Density Pole	6.0	38		
130	4131 - Aspen, Oak	High Density Sapling	4.6	38		
133	6113 - Lowland Maple	Medium Density Log	7.6	58	200+	Very wet. With sensitive fern. 1
134	6113 - Lowland Maple	Low Density Pole	7.7	38		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
135	4311 - Pine, Aspen Mix	Medium Density Log	9.0	38		Very eclectic stand with some planted and some natural RP, and aspen. Drain through middle of stand with some ash and tag alder. Open areas with forbs.
137	4131 - Aspen, Oak	Medium Density	7.2	19		Far eastern 5 ac is dry oak ridge of same age
138	42210 - Natural Red Pine	High Density Log	1.1	68	200+	No Access
139	6112 - Lowland Aspen	Medium Density	5.9	38		Shrubs very dense in places. Highbush blueberry ground cover.
140	6112 - Lowland Aspen	Medium Density Pole	6.4	50		'98 DOQ indicates roughly 50% of canopy is aspen, and that stand is clearly lowland.
141	6113 - Lowland Maple	High Density Pole	9.0	79		Dry enough to be operable.
142	6119 - Mixed Lowland Deciduous Forest	Low Density Pole	8.2	30		1998 DOQ indicates stand is lowland and has succeeded from L type last YOY.
143	4139 - Aspen, Mixed Deciduous	Low Density Sapling	21.5	5		Clearcut '05. Most of maple is residual saps. Their average ht is about 30 ft now. 10-15% lowland.
144	4130 - Aspen	High Density Sapling	4.6	38		Lower SI than st 110 and smaller diameters due to EsC soil along ridge: same soil as st 117.
146	6113 - Lowland Maple	Medium Density Pole	4.7	79		
147	4131 - Aspen, Oak	High Density Pole	12.1	73		East of Sterling Truck Trail VERY steep and portion surrounded by sterling truck trail on 2 sides: factor limit 2E: too steep.
150	4131 - Aspen, Oak	High Density Sapling	9.9	19		Road through eastern poly (multi poly stand) to stand 137 should be bermed at NW edge of this portion of stand. Western portion much heavier to oak (70%) and eastern to aspen (86)
153	6113 - Lowland Maple	Medium Density Pole	26.7	76		Varies from possibly operable and fairly productive at south end, to nearly L type at west end, to somewhat smaller diameters and moderate density in middle.
163	42220 - Natural Jack Pine	Medium Density	4.8	28		E end grades into higher percentage hardwoods.



Stand	Cover Type	Acres	Gen Cmts:
2	3103 - Rubus-Fern	5.9	Bracken with few small marsh patches. < 15% red maple residual saps from clearcut (C. 2005- no record). May need to plant next YOE. Easternmost acre is oak ridge and wasn't cut.
3	3301 - Low Density Deciduous Tree	1.1	
4	6220 - Alder/willow	2.0	
5	6230 - Cattail	7.9	Actually marsh- 6230, but cannot enter level 3 call.
6	6220 - Alder/willow	8.2	Tall willow except southernmost 1.5 ac alder
8	6220 - Alder/willow	6.1	Mostly willow and some alder
9	3103 - Rubus-Fern	2.4	Few large oak, and WP saps.
12	6220 - Alder/willow	1.3	tall tag alder
13	3103 - Rubus-Fern	2.0	
14	6225 - Bog	3.1	30% marsh
15	6233 - Wet Meadow	1.0	pure marsh
16	6220 - Alder/willow	25.8	Dense tag alder and willow, scattered trees (10% cover) at NW end. Area of almost pure, tall willow south of stand 16.
17	3103 - Rubus-Fern	5.1	20-25% shallow L type.
19	6239 - Mixed Emergent Wetland	8.5	50% bog, 30% marsh, 20% bracken. Few clumps of trees too small to delineate.
21	3103 - Rubus-Fern	2.7	25% sedge upland
22	3105 - Mixed Upland Herbaceous	15.3	Mostly bracken with sedge, grass and some bog and marsh.
23	623 - Emergent Wetland	8.9	



Stand	Cover Type	Acres	Gen Cmts:
24	6225 - Bog	1.1	
25	6220 - Alder/willow	28.4	Moderately dense, large willow- 90%. Some alder in NW corner.
26	6239 - Mixed Emergent Wetland	14.2	60% marsh, 40% willow 5 ft tall.
27	6220 - Alder/willow	13.4	moderate density tag alder average 8 ft high.
28	6220 - Alder/willow	30.5	Tall alder. Low density lowland trees at SW corner.
29	3103 - Rubus-Fern	12.1	
30	6239 - Mixed Emergent Wetland	5.7	59% L, 35% N, 5% maple seedlings
31	3103 - Rubus-Fern	7.8	
32	3103 - Rubus-Fern	3.8	Failed aspen clearcut c. 1995. Shallow depressions with marsh, moss (25%).
33	6220 - Alder/willow	2.8	
34	6229 - Mixed lowland shrub	1.0	Bog with 45 % willow and few young maple
37	3103 - Rubus-Fern	6.4	Failed clearcut from C. 1995 or earlier: marsh/lowland shrub @ N end, shallow wet depressions in places.
38	6220 - Alder/willow	10.2	Nearly pure willow (>90%), vs. adjacent stand 37, which is mostly alder.
40	6220 - Alder/willow	15.0	TA/Willow w/ scattered RM and QA (10%). Succeeding to lowland hardwoods, about 1 ac at far east end is E type.
43	3103 - Rubus-Fern	7.7	Portion of aspen CC failed.
44	6220 - Alder/willow	12.8	Almost pure willow about 7 ft tall.
47	3103 - Rubus-Fern	2.0	Portion of aspen CC failed.
49	6220 - Alder/willow	1.7	Tall TA



Stand	Cover Type	Acres	Gen Cmts:
54	623 - Emergent Wetland	20.3	Level 4 call would be 623: doesn't class out as any level 4 type.
55	629 - Mixed non-forested wetland	3.0	5-10% trees. 30-40% upland (bracken). Also tag alder.
56	2113 - Forage Crops	3.4	Managed grass opening. Combination of grasses and broadleaf crops. In fair condition.
62	3301 - Low Density Deciduous Tree	2.6	NW corner is bog
64	6220 - Alder/willow	4.0	Tall willow and alder with about 10% aspen, ash, tam
65	6220 - Alder/willow	2.2	Large willow, alder, sparsely treed at N end.
68	6220 - Alder/willow	1.3	Willows in center and tag alder.
70	3103 - Rubus-Fern	1.1	Bracken, rubus, sweet fern, few BTA, oak
72	6225 - Bog	93.3	Blueberry /leatherleaf w./ sedges: very low ridge at N end. Willow along edge of ridge.
74	3102 - Grass	1.3	
75	6225 - Bog	3.3	1/4 ac bracken in North central portion of stand.
76	629 - Mixed non-forested wetland	6.1	45% bog, 25% marsh, 30% bracken
77	6220 - Alder/willow	7.9	Willows in center, wide TA strip along edges, small grass area along N edge.
78	6225 - Bog	1.0	Diverse with blueberry, some upland grass and shrubs, scattered aspen and red maple.
83	6220 - Alder/willow	8.2	Willow 2-3 ft tall. Few large Tam, 5-10% bracken.
86	6224 - Treed Bog	4.5	PO, RP, JP, RM, WP
87	11 - Low Intensity Urban	7.9	15% marsh
88	6224 - Treed Bog	4.7	Filling in with white pine



Stand	Cover Type	Acres	Gen Cmts:
91	6220 - Alder/willow	1.9	Very wet. Tall, mature willow, winterbarry with some ash, maple.
92	6225 - Bog	1.6	
97	6225 - Bog	5.3	Nearly a treed bog: S end and E edge would be. Also lot of winterberry at S end and along E edge.
99	3105 - Mixed Upland Herbaceous	13.6	Pipeline clearing with road. 55% grass, sedge. 10% bracken. 20% willow, 15% forbs, weeds.
101	6225 - Bog	3.3	20-25% lowland shrubs
106	3103 - Rubus-Fern	1.2	56% bracken, 42% sweet fern, 2% rubus
109	3301 - Low Density Deciduous Tree	1.5	BO, RM and tr of QA, PB. Some TA: 70% upland.
113	2113 - Forage Crops	2.2	Planted opening: appears to be grain at S end and possibly soy at north end. 50% crops, 20% bare, 30% weeds.
114	3103 - Rubus-Fern	4.2	45% bracken, 42% sweet fern, 3% raspberry, 4% trees (oak, maple, birch, JP)
115	6220 - Alder/willow	2.5	Willow
123	6220 - Alder/willow	7.0	5-10% maple, trace of ash. Large, tall alder.
126	6224 - Treed Bog	3.3	Tamarack in bog
127	6233 - Wet Meadow	6.5	Alder and trace of maple around edges.
131	6225 - Bog	23.8	
132	6224 - Treed Bog	1.4	Tam, Birch, RM
136	3103 - Rubus-Fern	1.1	65% bracken, 35% grass
145	6233 - Wet Meadow	8.8	
148	6233 - Wet Meadow	7.6	20-25% floating aquatic at SW end.



Stand	Cover Type	Acres	Gen Cmts:
149	6220 - Alder/willow	3.1	Heavy tall TA with few birch.
151	6233 - Wet Meadow	4.9	Sedges/rushes with alder around edges
152	6230 - Cattail	2.1	Cattails with alder around edges.
154	50 - Water	3.7	Pond surrounded with rushes and tag alder.
155	3301 - Low Density Deciduous Tree	2.7	upland, vs. st 140 which is lowland.
156	3104 - Degraded	2.3	Degraded. Storage tank site with knapweed and bare sand. 2 tanks.
157	6233 - Wet Meadow	1.6	southern <1 acre is well pad with well.
158	3102 - Grass	3.2	Well pad and oil facilities: 60% grass and weeds, 40% bare and gravel road.
159	6230 - Cattail	8.4	pure cattails
160	3303 - Mixed Low Density Trees	13.1	Clearcut 2005 Lucas to Ward sale. Regenerating fairly well to JP, oak and aspen.
161	6225 - Bog	5.7	Pure Bog: mostly leatherleaf
162	6220 - Alder/willow	3.0	Alder and winterberry with scattered trees on edge.
164	6230 - Cattail	1.5	



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 before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
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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 before 10:00 AM

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

Conservation Area	Type	Description
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