Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 122
Entry Year 2015
Acreage: 3,044
County Schoolcraft
Management Area: Bullock Ranch

Revision Date: 04/08/2013

Stand Examiner: Josh Wall

Legal Description:

T46N R14W sections 6, 7, 8, 16, 17, 18

Identified Planning Goals:

Provide for the protection, integrated management, and responsible use of a healthy, productive, forest and mineral resource base for the social, recreational, environmental, and economic benefit of the people of the State of Michigan.

Soil and topography:

The compartment contains Roscommon, Seney and Croswell sands. The topography is relatively flat, marsh land with sandy upland ridges.

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

There is private land on the southeast and east sides of the compartment. State land surrounds the rest of the compartment.

Unique Natural Features:

The Sunken Lakes Red Pine ERA is located within the compartment and represents the dry northern forest covertype. Dry northern forest is a pine or pine-hardwood-dominated forest type that occurs on dry sandy sites lying mostly north of the climatic tension zone in sections 17, 18, 7, and 8. Database was checked on 4/2/2013

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

This compartment lies within the Bullock Ranch Management Area.

Watershed and Fisheries Considerations:

Fisheries values: None.

Wildlife Habitat Considerations:

The central portion of this compartment (on a northwest to southeast diagonal axis) is marsh/low pine ridge complex. The northeast and southwest corners of the compartment contain more forested landscape. Pre-settlement lowland forest contained spruce and tamarack with minor components of hemlock, aspen, white birch and jack pine. The uplands were dominated by white and red pine but also host hemlock, beech, red maple, sugar maple, aspen, white birch, and jack pine.

Current forests are somewhat similar in species composition to pre-settlement times. However, in some locations there has been a shift from red and white pine dominance to jack pine dominance.

Wildlife habitat objective in the compartment include providing regenerating jack pine stands, promoting hydrological integrity for the marsh complexes, and protecting the mast producing oak stands.

Wildlife species of special interest potentially utilizing this compartment include moose, spruce grouse and yellow rail.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These are used for stone/dolomite. Gravel pits at not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

Most of the compartment is not accessible by vehicle; there are only a few two-track roads.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment.

Fire Protection:

The compartment lies within the Fox River Zone Dispatch Area.

Additional Compartment Information:

The following reports from the Inventory are attached:

- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition Details**

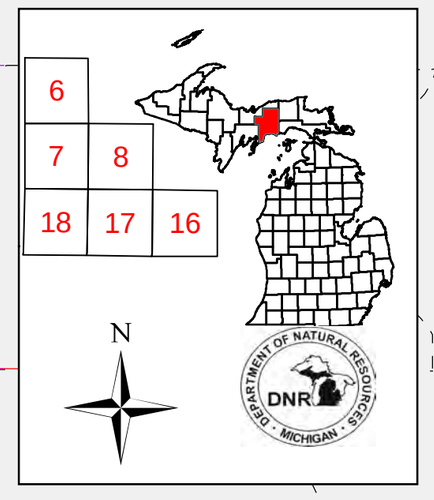
The following information is displayed, where pertinent, on the attached compartment maps:

- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatment Map

Compartment: 122
T46N R14W
05 06 07 08 09 16 17 18 19
T46N R15W
01
County: Schoolcraft
Unit: Shingleton
YOE: 2015
Acres: 3,044 GIS Calculated
Examiner: Josh Wall
Map Revised: 09/12/2013
Map Phase: Pre-Review

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



Legend
- Miris Corners
- Remonumented Section Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Planting (tree species)

Forest Stands
Level 3
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands
Level 3
- 629 - Mixed non-forested wetland

Wagner Taylor Dam Rd
Fox River Rd

1 4239-MC1; 2 4239-MC9; 3 4239-MC9; 4 4239-MC9; 5 4239-MC9; 6 4239-MC9; 7 4239-MC9; 8 4211-R8; 9 4239-MC9; 10 4229-MC8; 11 6122-S6; 12 4239-MC9; 13 4222-J2; 14 6122-S2; 15 4222-J3; 16 4229-MC8; 17 4229-MC8; 18 4310-UM8; 19 629-LO; 20 4229-MC8; 21 4229-MC8; 22 4229-MC8; 23 4229-MC8; 24 4229-MC8; 25 4221-R9; 26 4229-MC2; 27 4229-MC8 4229-MC8; 28 4319-UM3; 29 629-LO; 30 4221-R9; 31 4239-MC2; 33 6122-S6; 34 6122-S6; 35 4222-J3; 36 429-MC6; 37 4222-J3; 38 4229-MC5; 39 4221-R7; 40 4229-MC8; 41 4229-MC8; 42 6122-S9; 43 629-LO; 44 4229-MC8; 45 4222-J2; 46 6122-S5; 47 429-MC6; 48 629-LO; 49 4229-MC8; 50 629-LO; 51 4232-F6; 52 4229-MC8; 53 6122-S6; 54 6122-S6; 55 4229-MC8; 56 4229-MC8; 57 4229-MC8; 58 4229-MC8; 59 4229-MC5; 60 4229-MC8; 61 4229-MC8

1 0.5 0 1 Miles

86°7'0"W 86°6'0"W 86°5'0"W 86°4'0"W 86°3'0"W
46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N

Stand Boundary Map

Compartment: 122
T46N R14W
05 06 07 08 09 16 17 18 19
T46N R15W
01
County: Schoolcraft
Unit: Shingleton
YOE: 2015
Acres: 3,044 GIS Calculated
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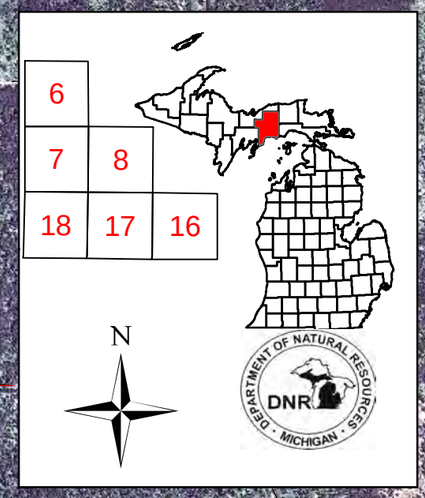
Level 3 Level 4 OI Code
Cover Type Code



Legend

- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Hiking Trails
- Snowmobile Trails
- Hiking Trail
- Snowmobile Trail
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

- 629 - Mixed non-forested wetland

1 0.5 0 1 Miles

Special Conservation Areas & Site Conditions Map

Compartment: 122
T46N R14W
05 06 07 08 09 16 17 18 19
T46N R15W
01
County: Schoolcraft
Unit: Shingleton
YOE: 2015
Acres: 3,044 GIS Calculated
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Stand # 23 — Stocking Density
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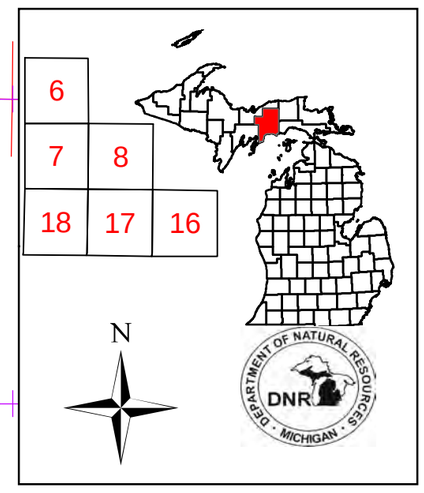
Level 3 Level 4 — OI Code
Cover Type Code



Legend
- Miris Corners
- Stand Boundaries

Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)

Site Condition Type

Available Factors W/ Constraints
5C: Delay treatment for age/size class diversity or exceptional site quality

Unavailable Factors
2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Reviewable SCAs

Proposed SCA's
- Proposed SCA
- SCA Removal

Dedicated Special Conservation Areas
- Ecological Reference Areas
- Wildlife Management Areas

1 0.5 0 1 Miles

86°7'0"W 86°6'0"W 86°5'0"W 86°4'0"W 86°3'0"W
46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N

Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 122 Year of Entry 2015**

Josh Wall : Examiner

Age Class

	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +	Uneven Age	Total
Jack Pine	0	241	24	0	0	0	0	0	0	0	0	0	0	0	**265**
Lowland Shrub	1749	0	0	0	0	0	0	0	0	0	0	0	0	0	**1749**
Lowland Spruce/Fir	0	0	0	6	23	154	78	0	47	0	0	0	0	0	**308**
Natural Mixed Pines	0	89	0	0	0	3	272	30	0	0	0	0	0	0	**394**
Red Pine	0	0	0	0	0	0	111	0	9	0	0	0	0	0	**120**
Upland Conifers	0	16	0	39	0	17	56	0	0	0	0	0	0	0	**128**
Upland Mixed Forest	0	0	50	0	0	0	21	0	0	0	0	0	0	0	**71**
Upland Spruce/Fir	0	0	0	0	0	0	10	0	0	0	0	0	0	0	**10**
Total	**1749**	**345**	**74**	**46**	**23**	**174**	**547**	**30**	**55**	**0**	**0**	**0**	**0**	**0**	**3044**

Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2015

Compartment 122
Total Compartment Acres: 3,044

Acres by Treatment Type

Commercial Harvest - 205	Tree Planting - 44	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	105	0	0	0	0	0	**105**
Mixed Upland Conifers	50	0	0	0	0	0	**50**
Natural Pines	9	30	0	0	0	0	**39**
Planted Pines	0	10	0	0	0	0	**10**
Total	**164**	**40**	**0**	**0**	**0**	**0**	**205**

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	41122008-Cut	10.5	42110 - Planted Red Pine	Medium Density Log	64	51-80	Harvest	Group Selection	42211 - Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Treatment=Create canopy gaps to release the pine understory while avoiding damage to regen present. Stay out of non forested wetlands.
Long Term MO= natural regen to mixed conifers.
Retention= residual
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11	41122011-Cut	37.8	6122 - Black Spruce	High Density Pole	66	81-110	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: Treatment= Clear-cut, acerage left will act as a seed source, lop and scatter tops, natural regen to Black Spruce and Tamarack. Use a two inch cutting spec to prevent the spread of mistletoe and competition with regen. Stay out of nonforested wetlands.
Longterm MO=Black Spruce and Tamarack
Retention= Green tree a few super canopy White Pine. No retention within clear-cut itself, area will be seeded in form adjacent stands and slash.
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed lowland conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	41122023-Cut	30.0	42290 - Natural Mixed Pine	Medium Density Log	74	1-50	Harvest	Single Tree Selection	42250 - Pine, Oak	Cmpt. Review Proposal

Prescription Specs: Treatment=Create canopy gaps to promote the Oak saplings in the understory. Avoid damage to Oak during harvest and stay out of non forested wetlands!
Longterm MO= Promote more Oak and less pine.
Retention= Residual, reserve all oak/hemlock
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be a increase in Oak and decrease in Pine..

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	41122025-Cut	5.4	42210 - Natural Red Pine	High Density Log	80	51-80	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Treatment= Treat stand with adjacent stand in comp 150. Clear-cut stand and leave a few green treed Red and White Pine for a seed source and all oak/hemlock. Stay out of non forested wetlands.
Longterm MO= natural mixed pine with spruce.
Retention= Green painted trees and because of small size no other retention desired.
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed conifers.

Proposed Start Date: 10/01/2016

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
30	41122030-Cut	3.5	42210 - Natural Red Pine	High Density Log	80	51-80	Harvest	Clearcut with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Treatment=Clear-cut stand and leave a few green treed Red and White Pine for a seed source. Stay out of nonforested wetlands.
Longterm MO= Natural mixed pine with spruce.
Retention= Green trees and no other retetion is desired due to small size.
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	41122033-Cut	46.5	6122 - Black Spruce	High Density Pole	86	51-80	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: Treatment=Clear-cut stand and allow for natural regen to Black Spruce. Leave a island that will be wind resistant and provide a seed source for the areas cut. Use a two inch cutting spec to prevent the spread of mistletoe and competition with regen. Stay out of non forested wetlands.
Longterm MO= Black Spruce.
Retention= Islands
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed lowland conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	41122034-Cut	21.1	6122 - Black Spruce	High Density Pole	58	1-50	Harvest	Clearcut with Reserves	6128 - Lowland Coniferous, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: Treatment=Clear-cut stand and allow for natural regen to Black Spruce,Tamarack, and mixed pine on ridges. Use a two inch cutting spec to prevent the spread of mistletoe and competition with regen. Green tree a few Red and Jack Pine and create a island out of mixed lowland conifers for seed sources. Tamarack showing signs of bark beattle damage. Stay out of non forested wetlands.
Longterm MO= Lowland conifers, and mixed pine on ridges.
Retention= Green trees and island
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration the next treatment period, acceptable regeneration will be mixed upland and lowland conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	41122036-Cut	17.0	429 - Mixed Upland Conifers	High Density Pole	57	51-80	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Treatment=Clear-cut stand allowing for natural regen to mixed conifers. Scarify pine ridges to promote pine regen. Stay out of nonforested wetlands.
Longterm MO= Mixed Conifers
Retention= Island of Jack Pine and Black Spruce and all White Pine for a seed source.
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration with a regen check, acceptable regeneration will be mixed conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47	41122047-Cut	32.9	429 - Mixed Upland Conifers	High Density Pole	62	51-80	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Treatment=Clear-cut stand allowing for natural regen to mixed conifers. Scarify pine ridges to promote pine regen. Stay out of nonforested wetlands.
Longterm MO= Mixed Conifers
Retention= Island of Jack Pine and Black Spruce and all White Pine for a seed source.
MNFI database checked 4/2/13

Other Comments:

Next Steps: Monitor success of regeneration with a regen check, acceptable regeneration will be mixed conifers.

Proposed Start Date: 10/01/2014

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	41122039-Plant	43.7	42210 - Natural Red Pine	Low Density Log	61	1-50	Tree Planting	Hand Plant	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Plant a mix of Red and Jack Pine to supplement natural regen present. Walk crew into site due to access. Current stand conditions JP 113/ac WP 126/ac RP53/ac RM 173/ac Aspen/173/ac. Plant the open areas with less hardwood competition. Cancel FTP/plans to burn stand.

Other Comments:

Next Steps: Moitor site with regen checks according to work instructions. A mixed stand of full stocked pine is acceptable.

Proposed Start Date: 08/07/2013

Total Treatment Acreage Proposed: 248.4

Report 4 -- Treatments Prescribed with a Limiting Factor

Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Report 5 – Site Conditions

Shingleton Mgt. Unit

Josh Wall : Examiner

Compartment 122

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions No	5C	2H
264	264		**Jack Pine**	264		
308	308		**Lowland Spruce/Fir**	308		
394	123	271	**Natural Mixed Pines**	123		271
120	120		**Red Pine**	120		
128	105	23	**Upland Conifers**	105		23
71	71		**Upland Mixed Forest**	71		
10	10		**Upland Spruce/Fir**		10	
1,295	1,001	294	Total Forested Acres	991	10	294
	77%	23%	Relative Percent			

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002		**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	10				
	Comments:							
003		**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3				
	Comments:							
004		**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	15				
	Comments:							

005	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	6	

Comments:

006	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	15	

Comments:

007	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2	

Comments:

008	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2	

Comments:

009	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	1	

Comments:

010	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	24	

Comments:

011	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	37

Comments:

012	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	62

Comments:

013	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2

Comments:

014	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	41

Comments:

015	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	7

Comments:

016	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2

Comments:

017	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	4	

Comments:

018	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	22	

Comments:

019	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	17	

Comments:

020	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	

Comments:

021	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3	

Comments:

022	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	5	

Comments:

023	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2
Comments:			
024	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	2
Comments:			
025	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3
Comments:			
026	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3
Comments:			
027	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	6
Comments:			
028	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	1
Comments:			

029	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	3

Comments:

030	**Not Available**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	4

Comments:

Report 6 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
SCA removal	Potential Old Growth		**SCA Removal**	
Comments				
SCA removal, not old growth				
SCA removal 1	Potential Old Growth		**SCA Removal**	
Comments				
SCA removal, not old growth				

Report 7 – DEDICATED CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42390 - Mixed Non-Pine Upland Conifers	Low Density Sapling	15.5	15		
2	42390 - Mixed Non-Pine Upland Conifers	High Density Log	2.0	62	81-110	
3	42390 - Mixed Non-Pine Upland Conifers	High Density Log	2.5	62	81-110	
4	42390 - Mixed Non-Pine Upland Conifers	High Density Log	2.8	62	81-110	
5	42390 - Mixed Non-Pine Upland Conifers	High Density Log	1.9	62	81-110	
6	42390 - Mixed Non-Pine Upland Conifers	High Density Log	2.6	62	81-110	
7	42390 - Mixed Non-Pine Upland Conifers	High Density Log	1.3	62	81-110	
8	42110 - Planted Red Pine	Medium Density Log	10.5	64	51-80	
9	42390 - Mixed Non-Pine Upland Conifers	High Density Log	5.5	62	81-110	
10	42290 - Natural Mixed Pine	Medium Density Log	1.1	65	51-80	
11	6122 - Black Spruce	High Density Pole	78.4	66	81-110	
12	42390 - Mixed Non-Pine Upland Conifers	High Density Log	4.4	62	81-110	
13	42220 - Natural Jack Pine	Medium Density	46.3	15	1-50	
14	6122 - Black Spruce	Medium Density	6.5	32	1-50	
15	42220 - Natural Jack Pine	High Density Sapling	23.8	25	1-50	
16	42290 - Natural Mixed Pine	Medium Density Log	3.3	64	1-50	
17	42290 - Natural Mixed Pine	Medium Density Log	15.1	64	1-50	
18	4310 - Pine, Oak Mix	Medium Density Log	20.6	68	51-80	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	42290 - Natural Mixed Pine	Medium Density Log	1.8	64	1-50	
21	42290 - Natural Mixed Pine	Medium Density Log	1.1	64	1-50	
22	42290 - Natural Mixed Pine	Medium Density Log	5.5	64	1-50	
23	42290 - Natural Mixed Pine	Medium Density Log	30.0	74	1-50	
24	42290 - Natural Mixed Pine	Medium Density Log	1.7	64	1-50	
25	42210 - Natural Red Pine	High Density Log	5.4	80	51-80	
26	42290 - Natural Mixed Pine	Medium Density	89.1	10	1-50	
27	42290 - Natural Mixed Pine	Medium Density Log	14.5	64	1-50	
28	4319 - Mixed Upland Forest	High Density Sapling	50.3	22	1-50	
30	42210 - Natural Red Pine	High Density Log	3.5	80	51-80	
31	42390 - Mixed Non-Pine Upland Conifers	Medium Density	39.3	32	1-50	
32	42290 - Natural Mixed Pine	Medium Density Log	23.6	64	1-50	
33	6122 - Black Spruce	High Density Pole	46.5	86	51-80	
34	6122 - Black Spruce	High Density Pole	21.1	58	1-50	
35	42220 - Natural Jack Pine	High Density Sapling	16.1	17	1-50	
36	429 - Mixed Upland Conifers	High Density Pole	17.0	57	51-80	
37	42220 - Natural Jack Pine	High Density Sapling	17.0	17		
38	42290 - Natural Mixed Pine	Medium Density Pole	3.0	56	51-80	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	42210 - Natural Red Pine	Low Density Log	100.3	61	1-50	
40	42290 - Natural Mixed Pine	Medium Density Log	36.5	64	1-50	
41	42290 - Natural Mixed Pine	Medium Density Log	2.0	64	1-50	
42	6122 - Black Spruce	High Density Log	35.3	59	51-80	
44	42290 - Natural Mixed Pine	Medium Density Log	1.7	64	1-50	
45	42220 - Natural Jack Pine	Medium Density	161.3	15		
46	6122 - Black Spruce	Medium Density Pole	97.6	58	1-50	
47	429 - Mixed Upland Conifers	High Density Pole	32.9	62	51-80	
49	42290 - Natural Mixed Pine	Medium Density Log	61.8	64	1-50	
51	42320 - Upland Spruce	High Density Pole	9.9	61	51-80	
52	42290 - Natural Mixed Pine	Medium Density Log	40.8	64	1-50	
53	6122 - Black Spruce	High Density Pole	15.5	49	51-80	
54	6122 - Black Spruce	High Density Pole	7.2	48	1-50	
55	42290 - Natural Mixed Pine	Medium Density Log	7.4	64	51-80	
56	42290 - Natural Mixed Pine	Medium Density Log	3.0	64	1-50	
57	42290 - Natural Mixed Pine	Medium Density Log	4.3	64	51-80	
58	42290 - Natural Mixed Pine	Medium Density Log	5.0	64	1-50	
59	42290 - Natural Mixed Pine	Medium Density Pole	21.8	64	51-80	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	42290 - Natural Mixed Pine	Medium Density Log	3.2	64	1-50	
61	42290 - Natural Mixed Pine	Medium Density Log	16.8	64	1-50	

Report 9 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
19	629 - Mixed non-forested wetland	3.8	No	Unspecified	
29	629 - Mixed non-forested wetland	1705.9	No	Unspecified	
43	629 - Mixed non-forested wetland	33.1	No	Unspecified	
48	629 - Mixed non-forested wetland	3.4	No	Unspecified	
50	629 - Mixed non-forested wetland	3.2	No	Unspecified	