



**SHINGLETON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 153 ENTRY YEAR: 2009

Compartment Acreage: 2969 County: Schoolcraft

Revision Date: 12/210/07

Stand Examiner: Robert Tylka

Legal Description: T46N R15W Sections 19-21 and 28-30

RMU (if applicable):

Management Goals: To manage the compartment in accordance with the principles of sustainable forest eco-system management, with emphasis on timber production, maintaining & enhancing wildlife habitat, and protection of riparian areas.

Soil and Topography:

Overall the topography may be described as flat to gently rolling, with occasionally steeper ridges. Soil drainage is generally moderate to slow, but significantly better with even slight increases in elevation.

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

There are several private land parcels with hunting camps located within this compartment, and also timber company lands enrolled in the Commercial Forest Reserve. A communications tower is located on state-owned land in section 28, and electric power transmission lines run east-west through sections 28-30.

Unique, Natural Features (include only non-site specific and non-sensitive information):

The Creighton Marsh is classified as a patterned fen, and extends from the northwest into section 19.

Archeological, Historical, and Cultural Features (include only non-site specific/non-sensitive information):

No concerns listed in the History, Arts & Libraries Information System.

Special Management Designations or Considerations:

The Patterned Fen ERA management plan is currently under development. It should be noted that there are currently no treatments proposed for any stands within compartment 153's portion of the ERA.

Watershed and Fisheries Considerations:

Walsh Creek and Ducey Creek are found within this compartment. Walsh Creek has summer water temperatures suitable for trout while Ducey Creek is warm-water. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

Lying along the Walsh Grade, this compartment is dominated by lowland brush and low ridges. Walsh creek traverses the area from northwest to southeast. Pre-settlement data show lowland forests consisted of

tamarack, cedar, and spruce. The upland systems held a mix of white birch, white pine, hemlock, red pine, jack pine, aspen and beech.

Current lowland forest composition appears to be similar to that found circa 1850. However, the upland areas appear to contain significantly more jack pine than found in pre-settlement days.

Wildlife habitat objectives within this compartment include providing species and structural forest diversity, maintaining intact travel corridors, and protecting the landscape hydrological systems.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 19 - 21 & 28 - 30, T46N-R15W, Schoolcraft Co.

Surface sediments consist of lacustrine (lake) sand & gravel and peat & muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift. These rocks are quarried for stone/dolomite in the UP. Gravel pits are not located in the area and potential appear to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

The Walsh Grade is the only improved road in this compartment, running essentially north-south through sections 21 and 28. This road crosses Walsh Creek in the southeast quarter of section 28, where a permanent bridge is located. The Eklund Road heads east off of the Walsh Grade in section 21; several woods roads run westward off of the Walsh Grade, providing access to private lands and into the northeast quarter of section 20.

There is also a pair of woods roads accessible from the Highway M-28 right-of-way in sections 29 and 30, but motor vehicle access to areas between the powerline and Walsh Creek is extremely limited. Access to areas north of Walsh Creek in both the south half of section 20 and in section 19 is not presently available.

Survey Needs:

Recreational Facilities and Opportunities:

Dispersed recreation (hunting, fishing and snowmobiling) occur in this compartment, but there are no developed recreational facilities.

Fire Protection.

Difficult access to conifer & lowland fuel types have the potential to make fire suppression extremely challenging in much of this compartment.

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**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 153

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen			30	55	4				17									8	114
Black Spruce		27	3	10	13	21	6	8	54	209	7							7	365
Bog or Marsh	2																		2
Cedar									18	29	35							1	83
Grass	41																		41
Jack Pine		5	25	2	34		9	22	3	5								1	106
Local Name					7														7
Lowlnd Brush	1377																		1377
Lowlnd Poplr						3			14	3									20
Marsh	60																		60
Mx Swmp Cnfr		50	55	4	11	2	22	5	43	7	22							145	366
Non Stocked	6																		6
Paper Birch									5									5	10
Red Pine		19																38	57
Spruce Fir					1														1
Swamp Hrdwds		24							3									66	93
Tamarack								1		5									6
Upland Hdwds																		114	114
Water	27																		27
White Pine			2						9									103	114
Total	1513	125	115	71	70	26	37	36	166	258	64							488	2969

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: 153

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	113											1															114
S Black Spruce		365																									365
V Bog or Marsh			2																								2
C Cedar				83																							83
G Grass					41																						41
J Jack Pine		2					104																				106
I Local Name							7																				7
L LowInd Brush									1377																		1377
P LowInd Poplr										20																	20
N Marsh											60																60
Q Mx Swmp Cnfr												366															366
X Non Stocked													6														6
B Paper Birch															10												10
R Red Pine																57											57
F Spruce Fir																			1								1
E Swamp Hrdwds	2																		5	86							93
T Tamarack																					6						6
M Upland Hdwds																								114			114
Z Water																									27		27
W White Pine																									114	114	
Total	115	367	2	83	41		111		1377	20	60	367	6		10	57			6	86	6			114	27	114	2969

LAKE SUPERIOR STATE FOREST

SHINGLETON FOREST AREA

SCHOOLCRAFT COUNTY

COMPARTMENT: **153**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3871 Cds	Hardwood	838 Cds
Hardwood	191 Mbf	Softwood	3694 Cds
Softwood	9634 Cds	Softwood	69 Mbf
Softwood	667 Mbf	Sum CutVol	4670 Cds
Sum TotVol	15221 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	285
2969			

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
13	J6	1	52	45	jack pine	mature	final harvest	2		
comnts Fmd : Soils - Proper Fine Sand 0-6% slopes Habitat - PVE Mature jack pine - ready to cut.										
16	Q5	11		45	mixed swamp conifer	unevenaged	final harvest	3		
comnts Fmd : Soils - Proper Fine Sand 0-6% slopes and Finch-Spot Complex 0-3% slopes Habitats - PVE and PArVAa This stand may have been aspen at one time, but that is now dead and gone. Natural succession has converted this to an unevenaged mix of conifers and low-quality hardwoods on a wet site. Scattered large (4-5 stick) spruce and larger white pine suggest that the site itself may be best suited to managing for conifers. Mixed hardwood pulp includes birches and cherry, while mixed softwood includes spruce and tamarack. Site index is estimated by using nearby stands.										
18	E6	1		45	spruce-fir (uplands- including upland black spruce)	unevenaged	final harvest	3		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa The aspen is all but gone from this stand, leaving a mix of red maple, paper birch and balsam fir on rolling terrain that is dryer than the surrounding lowlands. Scattered cedar, spruce and white pine are also present. Balsam fir dominates the understory, and should provide acceptable growing stock for the next stand. Retain the cedar and white pine for retention guidelines. Access issues restrict this to winter-only harvest.										
19	E6	3		45	spruce-fir (uplands- including upland black spruce)	unevenaged	final harvest	3		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa The aspen is all but gone from this stand, leaving a mix of red maple, paper birch and balsam fir on rolling terrain that is dryer than the surrounding lowlands. Scattered cedar, spruce and white pine are also present. Balsam fir dominates the understory, and should provide acceptable growing stock for the next stand. Retain the cedar and white pine for retention guidelines. Access issues restrict this to winter-only harvest.										
23	S6	2	88	40	black spruce-swamp	mature	final harvest	1		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Spruce that is ready to cut - must deal with communication tower lease/trespass that is in this stand. Mixed softwood pulp includes jack pine and balsam fir. The existing understory is a mix of balsam fir, red maple and spruce. All commercial species are acceptable regeneration. Retention guidelines will be met.										
25	S6	1	88	40	black spruce-swamp	mature	final harvest	1		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. All commercial species are acceptable regeneration. Retention guidelines will be met.										
26	Q6	7	88	40	mixed swamp conifer	mature	final harvest	1		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Mixed stand on rolling terrain - species composition and site indices vary significantly from the high ground to the lower wet areas, some of which support only pockets of lowland brush. The nature of the terrain necessitates winter logging. Mixed softwood consists of balsam fir, cedar, tamarack and a few hemlock; there are also a few scattered aspen and large white pine on the higher ground. The understory is primarily a mix of balsam fir, spruce and red maple, but cedar, tamarack, hemlock, black ash, paper birch and white pine are also represented there. Acceptable regeneration after harvest will consist of any mix of the commercial species present. Retention guidelines will be met.										
27	S6	1	88	30	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. All commercial species are acceptable regeneration. Retention guidelines will be met.										

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
30	Q6	4	88	35	mixed swamp conifer	mature	final harvest	1		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Mixed stand on rolling terrain - species composition and site indices vary. Mixed softwood consists of tamarack and balsam fir; a few mature aspen are also present. The understory is a mix of fir, spruce and red maple.. Acceptable regeneration after harvest will consist of any mix of the commercial species present. Retention guidelines will be met.										
41	A5	1	72	40	mixed swamp conifer	mature	final harvest	3		
comnts Fmd : Soils - Pullup Fine Sand 15-35% slopes Habitat - PVE Hilly terrain supporting mature aspen and scattered 1-2 stick spruce over a mixed understory consisting of spruce, fir, white pine, red maple and scattered aspen whips. Natural regeneration will produce an acceptable mix of these species; the scattered large white pine may be left for retention guidelines.										
48	A6	16	72	50	aspen (upland)	mature	final harvest	2	natural regeneration	
comnts Fmd : Soils - Paquin Sand 0-3% slope Habitat - ATFD Mix of overmature aspen/birch/red maple with balsam fir, a few spruce, and scattered large red & white pine. Succession has carried this site along far enough that conversion of some areas to a red maple/conifer mix is still likely after harvesting, but cutting/TSI should also regenerate the healthier aspen clones. Acceptable regeneration will include any mix of the species present. Maintain the pines and conifer regeneration. Retention guidelines will be met at the time of sale preparation.										
50	S6	23	82	45	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Black spruce 5-10" DBH with cedar scattered throughout and a few pockets of hemlock, plus occasional paper birch and red maple. Mixed softwood pulp includes balsam fir, tamarack and a few white pine. The understory consists primarily of cedar and balsam fir. Ready to cut now - Retain the pine and hemlock; retention guidelines will be met at the time of sale preparation. Acceptable regeneration includes all conifer species.										
56	S6	14	82	45	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Black spruce 5-10" DBH. The understory includes spruce, fir, cedar and scattered red maple & birch. Ready to cut now. Acceptable regeneration includes all conifer species.										
66	S6	9	78	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Black spruce now ready to cut - the spruce that have not reached merchantable size are dying off, and blowdown is becoming evident in some places. Site indices/age class vary somewhat throughout the stand, so an average age and of the highest and lowest SI are shown here. Mixed softwood volume includes scattered cedar, balsam fir and tamarack; a few white pine and hemlock are also present. Acceptable regeneration includes all conifer species.										
68	S6	8	78	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks, plus a slight ridge of Finch-Spot Complex 0-3% slopes on the north edge. Habitat - PArVAa on the ridge Black spruce now ready to cut - the spruce that have not reached merchantable size are dying off, and blowdown is becoming evident in some places. Acceptable regeneration includes all conifer species.										
73	S6	3	78	30	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Black spruce now ready to cut - the spruce that have not reached merchantable size are dying off, and blowdown is becoming evident in some places. Acceptable regeneration includes all conifer species.										
76	S6	1	78	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Black spruce now ready to cut. Acceptable regeneration includes all conifer species.										
81	S6	3	88	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Ready to cut - Acceptable regeneration includes all conifer species.										

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Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
83	S6	22	82	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes and Rubicon-Deford Complex Habitats - PArVAa and PArV Large spruce stand that is beginning to show the effects of natural disturbances. Site indices, density and composition vary with slight elevation changes - the figure shown represents a reasonable average. Mixed softwood pulp includes tamarack, fir, cedar and pines. The mixed pine sawlog volume represents the volume found in the scattered pockets of upland habitat. Acceptable regeneration includes all conifer species.										
102	W9	12		50	white pine	unevenaged	seed tree	3		
comnts Fmd : Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PArV Very large white pine over a variable mix of hardwood & softwood poles (6-10" DBH) on rolling terrain. Regeneration is primarily balsam fir and red maple, but spruce, cedar, white pine, hemlock, beech and some lowland brush are also present. Mixed softwood volume represents balsam fir, hemlock and white pine poles.										
125	J6	5	67	45	jack pine	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut - reserve the scattered white pine. Acceptable regeneration includes all conifer species.										
128	J6	4	67	45	jack pine	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. Acceptable regeneration includes all conifer species.										
134	J6	7	67	45	jack pine	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. Acceptable regeneration includes all conifer species. Mixed softwood includes tamarack and white pine.										
135	J6	1	67	45	jack pine	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. Acceptable regeneration includes all conifer species.										
137	J6	3	67	45	jack pine	mature	final harvest	1	natural regeneration	
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut. Acceptable regeneration includes all conifer species. Mixed softwood includes tamarack and white pine.										
138	S6	18	82	45	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Mix of spruce & jack pine - ready to cut. Mixed softwood includes tamarack and scattered white pine. Some age variation appears to be present, as pockets of thrifty but smaller diameter (4-5") spruce & jack pine are present within this stand. Cutting history is somewhat vague but suggests that these pockets were cut in the late 1950's and/or early 1960's. During timber sale preparation, these areas can be reserved to satisfy retention guidelines. Acceptable regeneration includes all conifers.										
153	E6	1		45	spruce-fir (uplands- including upland black spruce)	unevenaged	final harvest	3		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa The aspen is all but gone from this stand, leaving a mix of red maple, paper birch and balsam fir on rolling terrain that is dryer than the surrounding lowlands. Scattered cedar, spruce and white pine are also present. Balsam fir dominates the understory, and should provide acceptable growing stock for the next stand. Retain the cedar and white pine for retention guidelines. Access issues restrict this to winter-only harvest.										

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
172	I6	7	29	50	jack pine	immature	final harvest	1	planting	
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mixed plantation - scotch, red & jack pines plus a few scattered aspen volunteers. Many stems are still only 4" DBH. To eradicate the scotch pine this stand must be clearcut - reserve the red pine for aesthetics. Chipping is the only viable method that will insure removal of all the scotch pine. Follow up with TSI (inmates w/handtools) as needed if any scotch pine remain, then plant jack pine.										
178	J6	3	72	40	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Deford Muck Jack pine mix on wet ground - acceptable regeneration includes all conifer species. The understory is dominated by lowland brush with scattered conifer regeneration.										
194	J6	2	62	45	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut - a mix of jack pine, spruce and other conifers is acceptable regeneration.										
198	S6	13	82	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Ready to cut - a mix of jack pine, spruce and other conifers is acceptable regeneration.										
207	J6	1	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
208	J6	1	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
209	J6	1	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
210	J6	1	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
211	J6	2	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine with a few red & white pine logs - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
212	J5	2	57	45	jack pine	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Island of mature jack pine with a few red & white pine logs - ready to cut. Retention guidelines to be met at time of sale prep. All conifer spp. are acceptable regeneration.										
265	A6	8		46	aspen (upland)	unevenaged	final harvest	1	natural regeneration	
comnts Fmd : Soils - Markey Mucky Peat Upland aspen/conifer mix ready to cut - TSI to regenerate aspen. Retention guidelines will be met at the time of sale preparation. Acceptable regen will include all species present. SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale.										

SHINGLETON FOREST AREA

Proposed Treatments
With NO Limiting Factors

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
272	B6	2		46	paper birch	mature	final harvest	3	natural regeneration	
comnts Fmd : Soils - Finch Sand 0-3% slopes Habitat - PArVAa Mix of birch, balsam fir and a few surviving aspen on upland/transitional ground. The understory is a mix of red maple and balsam fir. Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present. SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale.										
273	E6	2		46	aspen (upland)	mature	final harvest	3	natural regeneration	
comnts Fmd : Soils - Finch Sand 0-3% slopes Habitat - PArVAa Mix of aspen, birch, balsam fir and red maple on upland/transitional ground. The understory is a mix of red maple and balsam fir. Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present. SALE PREPARATION NOTE: When preparing this stand, include stands # 21 & 49 in Cmp 155 (adjacent to the west) in the timber sale.										
276	E5	1		46	swamp hardwoods	unevenaged	final harvest	3		
comnts Fmd : Soils - Markey Mucky Peat Red maple/birch mix with a few spruce, fir and pine. The understory is a mix of conifers and red maple. Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include all species present.										
277	E6	2		46	swamp hardwoods	unevenaged	final harvest	3		
comnts Fmd : Soils - Markey Mucky Peat Mix of red maple & cedar on transitional ground. The understory is a mix of red maple and balsam fir. Ready to harvest - retention guidelines will be met at the time of sale prep. Acceptable regen will include the same species present.										
299	S6	27	82	40	black spruce-swamp	mature	final harvest	1		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature black spruce on rolling terrain with a few other conifers scattered throughout, including red pine logs on the higher knobs. Stand breakup (blowdown) is becoming evident. Harvest ASAP - retention guidelines will be met at the time of sale preparation. All conifer species are acceptable regeneration.										
323	J1	1	5	50	jack pine	immature		0	planting	
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Need to handplant more jack or red pine.										
325	S6	5	82	40	black spruce-swamp	mature	final harvest	2		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Spruce with some jack pine, tamarack and a few aspen & red maple. The understory is a mix of spruce, red maple, a few aspen clones and lowland brush. Blowdown/breakup is occurring - harvest now. All species present are acceptable regeneration. Retention guidelines will be met at the time of sale preparation.										
335	T6	1	82	37	tamarack	mature	final harvest	3		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Ready to cut - Retention guidelines will be met at the time of sale preparation. Acceptable regen includes all conifer species.										
336	J6	1	82	50	jack pine	mature	final harvest	2		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine with a few scattered red pine - ready to cut. Acceptable regeneration will be all pines and spruce. Retention guidelines will be met at the time of sale preparation.										
338	J6	1	82	45	jack pine	mature	final harvest	2		
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine/spruce with a few tamarack etc. - ready to cut. Acceptable regeneration will be all conifers. Retention guidelines will be met at the time of sale preparation.										

SHINGLETON FOREST AREA

**Proposed Treatments
With NO Limiting Factors**

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status	
339	J6	3	82	45	jack pine	mature	final harvest	2			
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Mature jack pine with a few red & white pine logs, tamarack, etc. - ready to cut. Acceptable regeneration will be all conifers. Retention guidelines will be met at the time of sale preparation.											
Total Acres.....		269									

SHINGLETON FOREST AREA

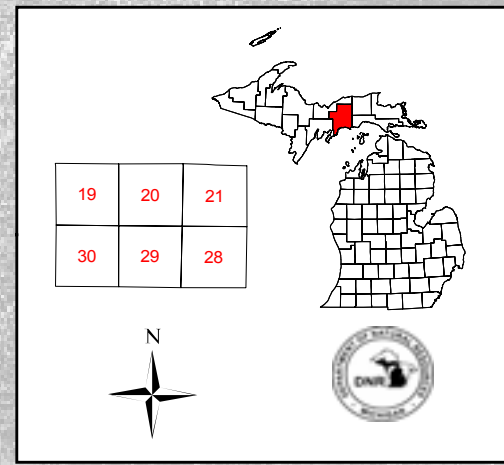
Proposed Treatments
With Limiting Factors

Compartment: 153 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
36	P5	8	72	40	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Soils - Carbondale-Lupton-Tawas Mucks Mature aspen & paper birch with a scattered understory of paper birch, red maple, black ash, balsam fir and a lot of lowland brush. This stand is overmature but too wet for operability.										
82	B5	3		40	paper birch	unevenaged	final harvest	2		
TREATMENT LIMITING FACTORS: Other special wildlife habitat consideration (desc. In comments)										
comnts Fmd : Soils - Rubicon-Deford Complex 0-15% slopes Habitat - PArV Narrow upland ridge with an old road across it. Mostly paper birch with a few white pine, plus spruce on the edges. The mixed pulpwood includes red maple and aspen. Retain for wildlife habitat while the adjacent spruce stand is being regenerated.										
269	P5	3	78	33	balsam poplar & swamp aspen and swamp white birch	mature	final harvest	3		
TREATMENT LIMITING FACTORS: Too wet										
comnts Fmd : Soils - Markey Mucky Peat Aspen/red maple/birch mix on wet ground - inoperable. The understory is a mix of red maple, scattered conifers and lowland brush.										
286	W8	1		50	white pine	unevenaged	shelterwood-prep	3		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Island of upland habitat featuring arge red & white pine, plus scattered red maple and jack pine.The understory is a mix of red maple, white pine and a few balsam fir. Probably inaccessible across the lowlands.										
287	J6	1		50	jack pine	unevenaged	final harvest	3		
TREATMENT LIMITING FACTORS: Blocked by other physical obstacle										
comnts Fmd : Soils - Finch-Spot Complex 0-3% slopes Habitat - PArVAa Island of upland habitat featuring jack pine, large red & white pine, plus scattered red maple and other conifers.The understory is a mix of red maple, white pine and a few balsam fir. Probably inaccessible across the lowlands.										
319	S5	1	82	30	black spruce-swamp	mature	final harvest	1		
TREATMENT LIMITING FACTORS: Delayed treatment for age/size class diversity										
comnts Fmd : Soils - Kinross-Augres-Rubicon Deep Water Table Complex, 0-15% slopes Secondary Habitat - PArV Small pocket of slow-growing spruce - keep for wildlife cover while the large spruce stand to the west (stand #299) is harvested and regenerated.										
Total Acres.....		17								

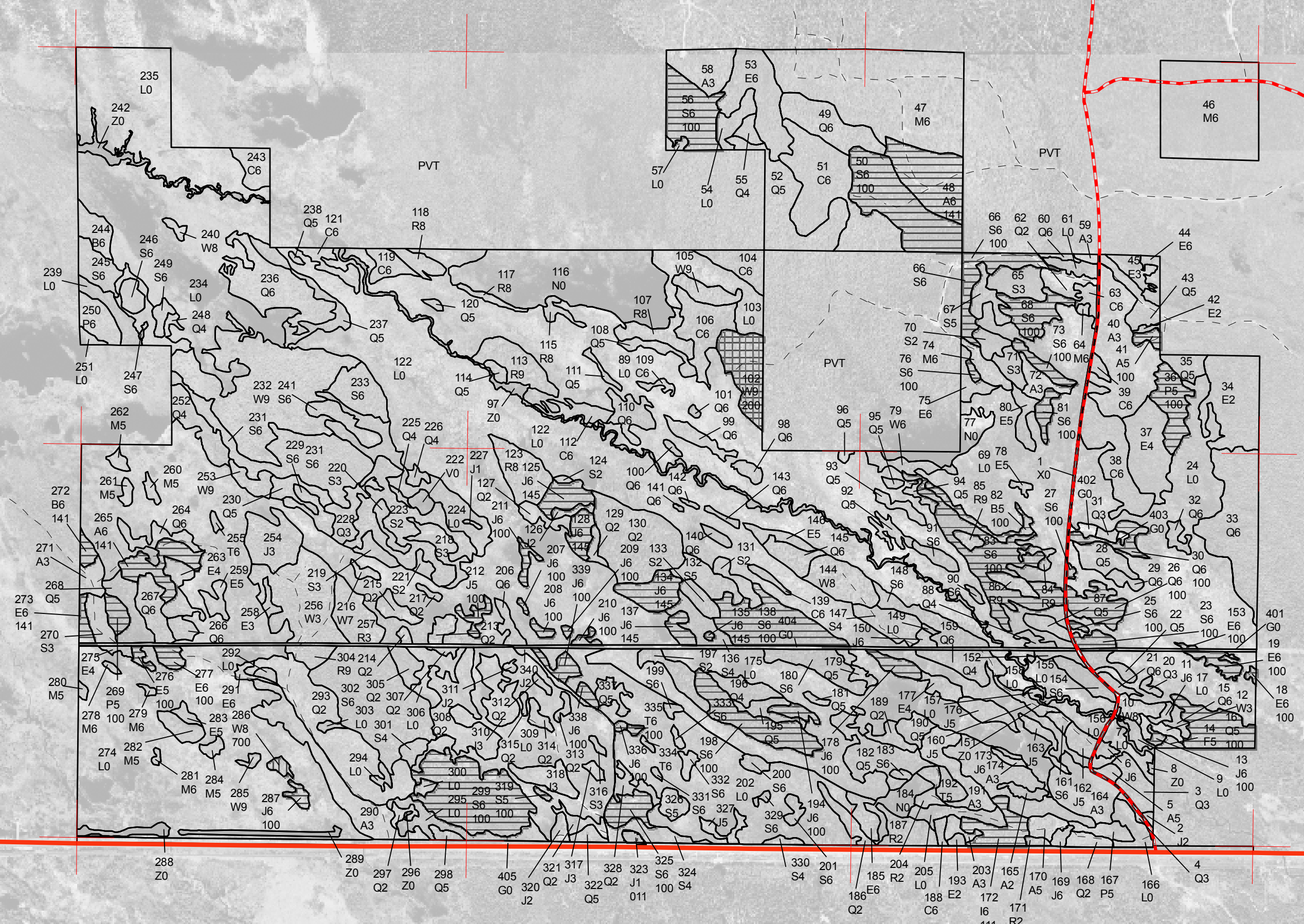
Compartment 153
 T46N, R15W, Sec. 19-21, 28-30
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2009
 Acres: 2,969 GIS Calculated
 Stand Examiner: Robert Tylka
 Map Revised: 12/10/2007
 Map Phase: Pre-Review

Field Map



Legend

- Miris Corners
- Highways
- County Gravel Roads
- Poor Dirt Roads
- State Highway
- Stand Boundary
- 011 - Planting/Hand Tools
- 100 - Final Harvest
- 111 - Final Harvest/Planting/Hand Tools
- 141 - Final Harvest/Natural Regeneration/Hand Tools
- 145 - Final Harvest/Natural Regeneration/Mechanical, other
- 200 - Seed Tree
- 700 - Shelterwood-prep



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