



**Newberry Forest Management Unit
Compartment Review Presentation
Compartment # 65 Entry Year: 2012
Compartment Acreage: 2579 County: Chippewa**

Revision Date: 9/21/10

Stand Examiner: Keith Magnusson

Legal Description: T49N R6W Sections 19-22, 29-31
T49N R7W Section 24
T48N R6W Section 6

Identified Planning Goals ('Management Area' or 'RMU'):

Compartment 65 is located within the Whitefish/Vermillion Point Management Area. Further information about this Management Area can be located on the following web site:

http://www.midnr.com/publications/pdfs/forestslandwater/Ecosystem/EUP/final-MAsummaries/33_Whitefish_Vermillion_Point_MA_summary.pdf

Management Goals: To maintain forest health, diversity and sustainability while considering wildlife, fisheries, recreation and environmental needs and concerns.

Soil and Topography: The compartment mostly consists of Deer Park sand and Dawson-Loxely peat. There is a mix of several other series with are Markey and Carbondale muck, Kinross-Dawson complex, Deer Park-Kinross complex, Rousseau fine sand, Markey-Kinross complex and Kinross AuGres. The terrain is variable with steep to nearly level sand ridges that are well drained, mixed in with level, very poorly drained wetland areas. Within the compartment, complexes of the two make the terrain somewhat irregular.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The majority of the land in the compartment is State owned as well as the land on the north and west sides. The State land in this area has historically been managed for timber production as well as providing habitat for wildlife. It has also provided opportunities for recreational activities such as hunting, snowmobiling, cross country skiing, ORV riding, hiking, wildlife viewing and berry picking. The land to the east and south of the compartment is privately owned as well as two parcels of land on the interior of the compartment. This private land is owned by several different individuals. Many of the private land parcels have cabins or structures on them that are used seasonally.

Unique, Natural Features: The Michigan Natural Features Inventory lists the potential for goshawk, merlin, great blue heron rookery, eagle, osprey, black-backed woodpecker, spruce grouse as well as moose and wolf. It also lists the potential for incurvate emerald, frigga fritillary, freija fritillary, and ebony boghaunter in boggy areas. There is also the potential for sweet coltsfoot, Wiegand's sedge, northern prostrate clubmoss, fir clubmoss, English sundew, meadow beauty, round-leaved orchis, black crowberry, yellow pitcher-plant, and paniced screwstem in bogs and open wetlands.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: State Highway M-123 borders the entire northern edge of the compartment. This highway is designated a Scenic Heritage Route. Take this into consideration when making land management decisions.

Watershed and Fisheries Considerations:

Minimal. The Cheney Creek is a Type 1 trout stream. It is not actively managed, however, and little is known of it.

Wildlife Habitat Considerations: **Compartment 65** lies in northern Chippewa county and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment has a large component of jack pine ridges and low wet types of varying sizes. Its northern portion is bordered by M123 and consists of more upland jack pine with some red pine and aspen scattered throughout.

The compartment is excellent spruce grouse habitat and harvested stands will strive to retain habitat elements that will continue to benefit spruce grouse. Moose probably also use various parts of the compartment. Mixed species will be retained in jack pine harvests to promote structural diversity in stands. For example, retaining soft and hard mast producing species in harvested stands will help provide food sources, nest and den trees, and improve structural diversity.

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 Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are located six miles to the south, and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: State highway M-123 borders the northern edge of the compartment. The South Station Road, North Beaver Road and Preacher Lakes Road offer some access into the compartment. They are all seasonal poor dirt roads for the most part although the Preacher Lakes Road receives some maintenance by the Chippewa County Road Commission. There are a few other sand two tracks and old skid roads that offer further access (see compartment map).

Survey Needs: Possibly in section 20 to assist in areas prescribed for treatment. There may also be a need in Sections 21, 22, 29, 30 and 31 if the Limiting Factored stands in this compartment are to be treated

Recreational Facilities and Opportunities: There are DNRE designated snowmobile trails located within and around the compartment. There is also the south loop of the Paradise Ski Trail system within the compartment. The area within and around the compartment has historically provided for other recreational opportunities such as hunting, ORV riding, hiking, wildlife viewing and berry picking.

Fire Protection: This compartment is in the Whitefish Zone Dispatch Area. Although the fuels are fragmented the potential for large fire growth is high because of the response travel time, large equipment access and mixture of lowland types. The compartment is adjacent to Paradise and other private properties which makes their risk high. Whitefish Township has a Community Wildfire Protection Plan in progress, this may be an opportunity to use a fuel break to reduce the risk to private property.

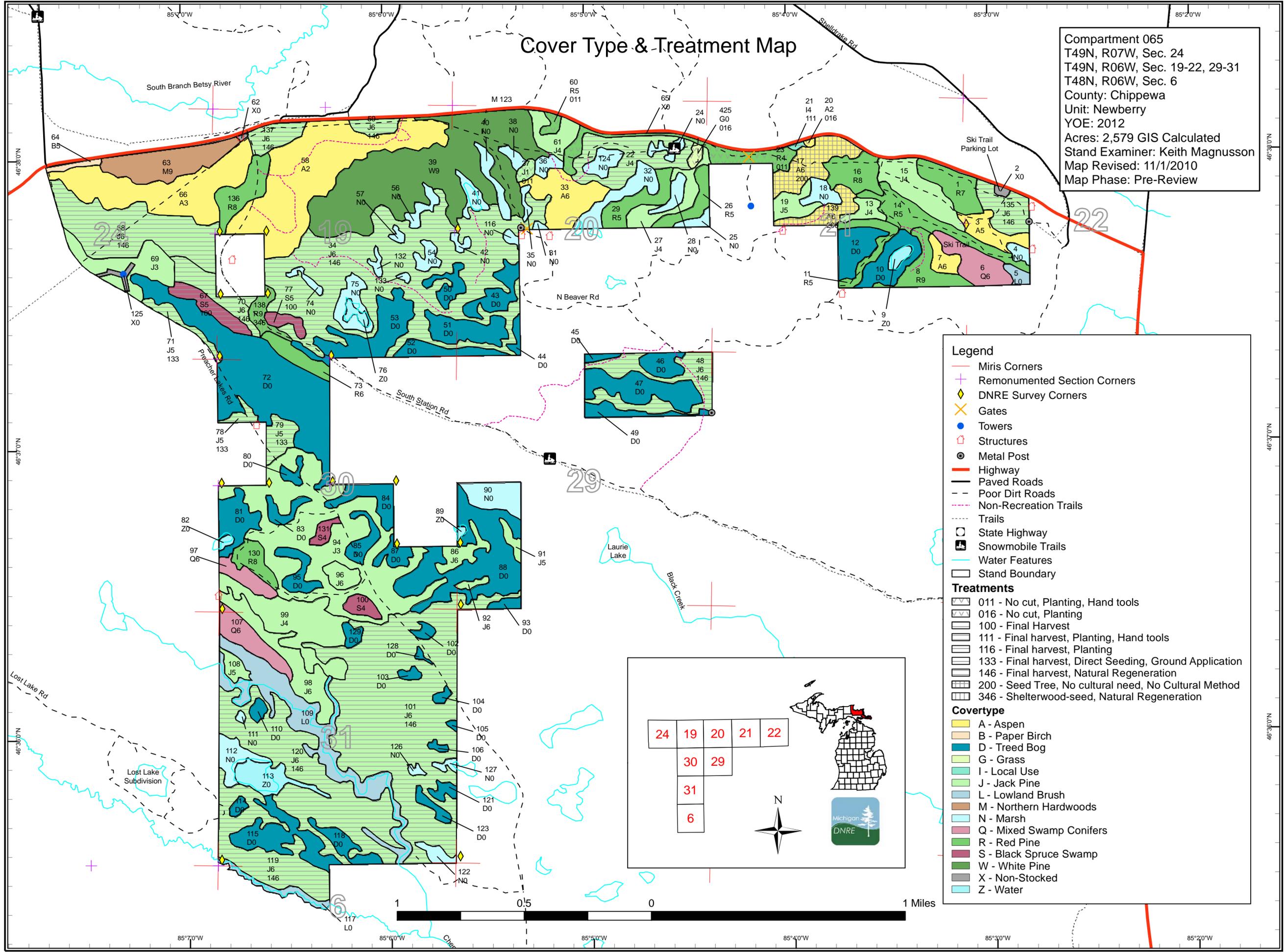
Additional Compartment Information: None

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand boundaries, cover types, and numbers**
 - ◆ **Proposed treatments**
 - ◆ **Details on the road access system**

Cover Type & Treatment Map

Compartment 065
 T49N, R07W, Sec. 24
 T49N, R06W, Sec. 19-22, 29-31
 T48N, R06W, Sec. 6
 County: Chippewa
 Unit: Newberry
 YOE: 2012
 Acres: 2,579 GIS Calculated
 Stand Examiner: Keith Magnusson
 Map Revised: 11/1/2010
 Map Phase: Pre-Review



Legend

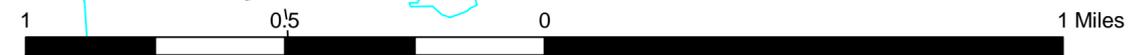
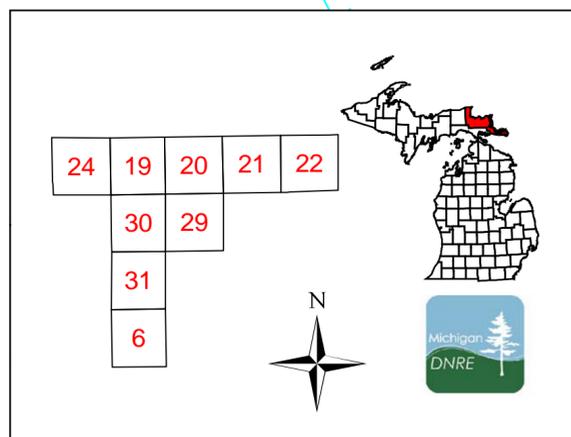
- Miris Corners
- + Remonumented Section Corners
- ◆ DNRE Survey Corners
- ✕ Gates
- Towers
- ⬠ Structures
- ⊙ Metal Post
- Highway
- Paved Roads
- - - Poor Dirt Roads
- - - Non-Recreation Trails
- ⋯ Trails
- ⊠ State Highway
- ⊠ Snowmobile Trails
- Water Features
- ⊠ Stand Boundary

Treatments

- ▨ 011 - No cut, Planting, Hand tools
- ▨ 016 - No cut, Planting
- ▨ 100 - Final Harvest
- ▨ 111 - Final harvest, Planting, Hand tools
- ▨ 116 - Final harvest, Planting
- ▨ 133 - Final harvest, Direct Seeding, Ground Application
- ▨ 146 - Final harvest, Natural Regeneration
- ▨ 200 - Seed Tree, No cultural need, No Cultural Method
- ▨ 346 - Shelterwood-seed, Natural Regeneration

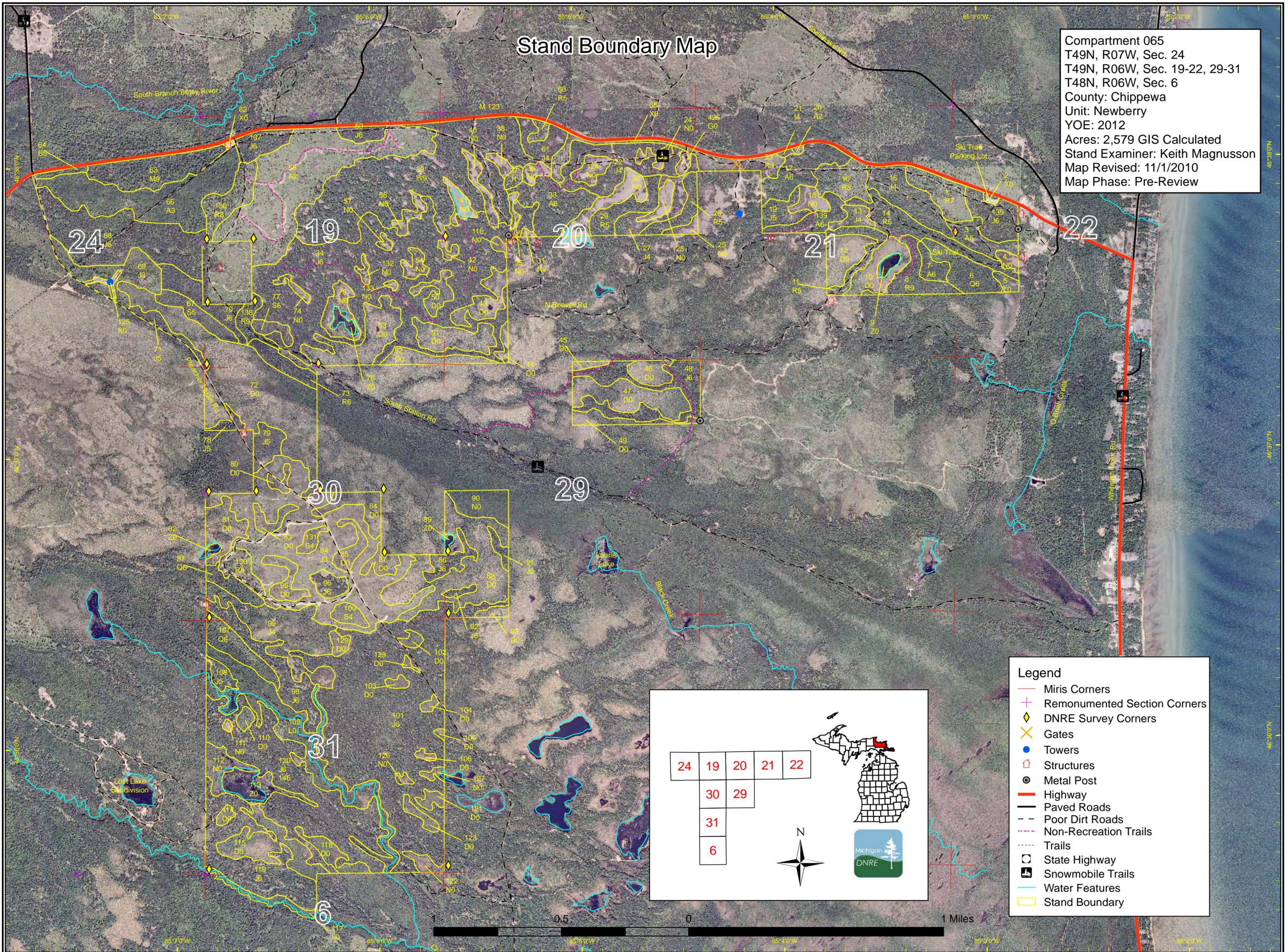
Coverture

- A - Aspen
- B - Paper Birch
- D - Treed Bog
- G - Grass
- I - Local Use
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- W - White Pine
- X - Non-Stocked
- Z - Water

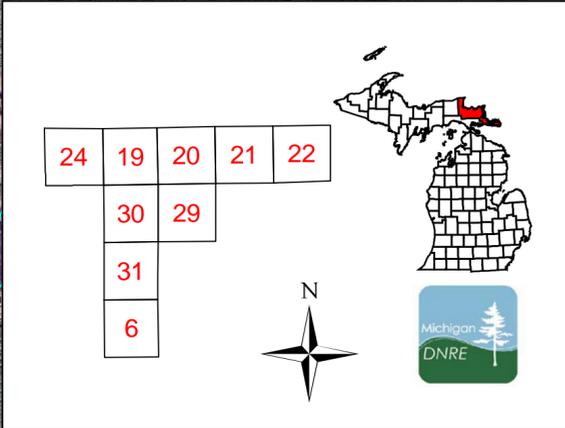


Stand Boundary Map

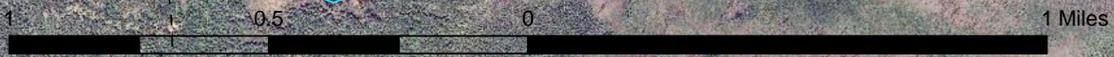
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- Legend**
- Miris Corners
 - + Remonumented Section Corners
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 - Towers
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 - Highway
 - Paved Roads
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 - Trails
 - State Highway
 - ⊙ Snowmobile Trails
 - Water Features
 - Stand Boundary

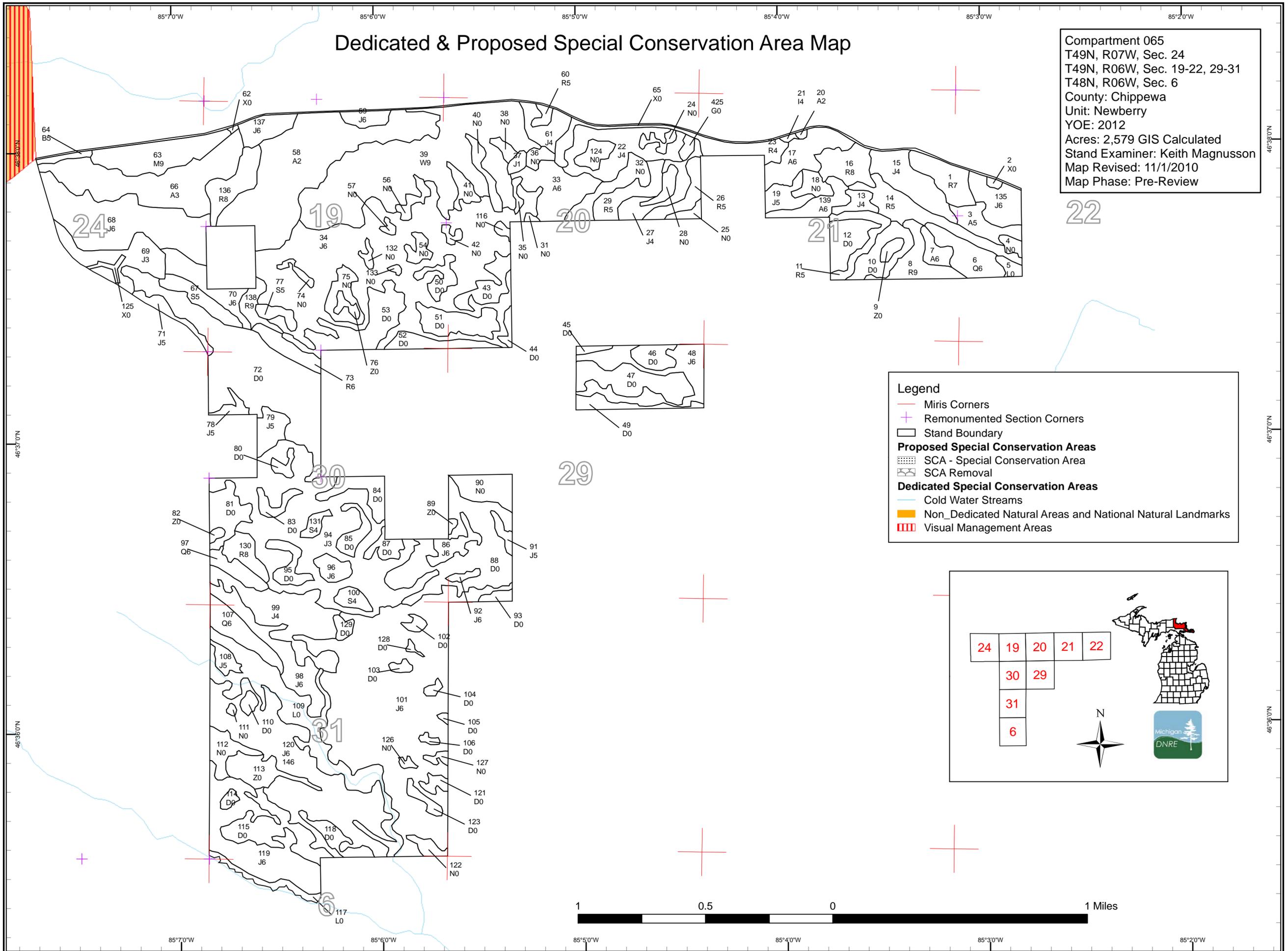


24	19	20	21	22
	30	29		
	31			
	6			



Dedicated & Proposed Special Conservation Area Map

Compartment 065
 T49N, R07W, Sec. 24
 T49N, R06W, Sec. 19-22, 29-31
 T48N, R06W, Sec. 6
 County: Chippewa
 Unit: Newberry
 YOE: 2012
 Acres: 2,579 GIS Calculated
 Stand Examiner: Keith Magnusson
 Map Revised: 11/1/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- ⊕ Remonumented Section Corners
- ▭ Stand Boundary
- Proposed Special Conservation Areas**
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Dedicated Special Conservation Areas**
- Cold Water Streams
- Non-Dedicated Natural Areas and National Natural Landmarks
- ▨ Visual Management Areas

The locator map shows the state of Michigan with a grid of sections. A red box highlights the location of the map area in the upper right portion of the state. A north arrow and the Michigan DNR logo are also included.



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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: 65

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		109		68	13		29	44											263
Black Spruce										27									27
Grass	3																		3
Jack Pine		139		27	79	15			318	555	18								1151
Local Name					1														1
Lowlnd Brush	74																		74
Marsh	135																		135
Mx Swmp Cnfr									10	19								17	46
Non Stocked	19																		19
Paper Birch						3													3
Red Pine		39					40	29	35	19								26	188
Treed Bog	464																		464
Upland Hdwds																		33	33
Water	25																		25
White Pine							147												147
Total	720	287		95	93	18	216	73	363	620	18							76	2579

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: 65

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	262						1																				263
S Black Spruce		27																									27
G Grass							3																				3
J Jack Pine							1151																				1151
I Local Name							1																				1
L Lowlnd Brush									74																		74
N Marsh											135																135
Q Mx Swmp Cnfr												46															46
X Non Stocked													19														19
B Paper Birch	3																										3
R Red Pine							25								163												188
D Treed Bog																						464					464
M Upland Hdwds																								33			33
Z Water																									25	25	
W White Pine																										147	147
Total	265	27					1181		74		135	46	19		163							464		33	25	147	2579

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

CHIPPEWA COUNTY

COMPARTMENT: **65**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	2219 Cds	Hardwood	539 Cds
Hardwood	91 Mbf	Softwood	13987 Cds
Softwood	17529 Cds	Softwood	393 Mbf
Softwood	1516 Mbf	Sum CutVol	15312 Cds
Sum TotVol	22962 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	873
2579		Acres Meeting Silv Criteria.....	977
		Acres Not Meeting Silv Criteria.....	1602
		Acres Unable to Determine Silv Criteria For.....	

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 65

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
17	A6	24	65	50	ASPEN (UPLAND)	MATURE	SEED TREE	3		
<p>comnts Fmd : Stand occurs along steep topography where much of the stand may be inoperable. Stand is adjacent to M-123 and offers some visual influence along the road. JP is stand is old and dying. Oak present throughout. If treated, RP/WP may need to be marked as well as some oak for operability. MO of mixed aspen, pine and oak is acceptable. Per pre-review, remove all limiting factors and treat stand as prescribed.</p> <p>Wld : leave oak and if you have to mark any, don't mark the big productive trees. Leave some mature aspen</p>										
20	A2	1	0	46	JACK PINE	IMMATURE		0	PLANTING	
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. ** old OI notes - Stand is serving as a 'buffer strip' along M-123. This stand is at high risk to disease. There are several trees dying or dead already. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments- Some JP regen presnt but mostly other species. Fully stocked with tree species.</p>										
21	I4	1	33	45	JACK PINE	IMMATURE	FINAL HARVEST	3	PLANTING	
<p>comnts Fmd : Stand was planted to scotch pine. If it is desired to remove the scotch pine, prescribe stand for final harvest and plant back to jack pine. Trees are somewhat small for a merchantable roundwood timber sale, may have to be chipped. Alternate MO of aspen, oak or white pine/red pine is acceptable.</p> <p>Wld : ok, good to chip to remove scotch pine, use chipping specs to retain some woody debris.</p>										
22	J4	34	33	46	JACK PINE	IMMATURE	FINAL HARVEST	3	PLANTING	
<p>comnts Fmd : Portions of stand was scarified in 1972. Apparently the regeneration failed. It was then planted in the fall of 1977 with scotch and jack pine mix. Stand is now thick with stocking and is beginning to move into a pole sized class. If it is desired to remove the scotch pine, prescribe stand for final harvest and plant back to jack pine. Trees are somewhat small for a merchantable roundwood timber sale, may have to be chipped. Alternate MO of aspen, oak or white pine/red pine is acceptable.</p> <p>Wld : good to chip to remove scotch pine, use chipping specs to retain some woody debris.</p>										
23	R4	22	6	46	JACK PINE	IMMATURE		0	PLANTING	
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. **old OI notes - Stand is serving as a "buffer strip". Timber behind stand is about 25' tall. This stand is at high risk to disease. There are several trees dying or dead already. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - Regen varies as the regen check indicated, not much in the way of JP regen though. Lleaf, blueberry, bracken fern ground cover. If the MO is to remain JP, planting may now be required if it desired to get a fully stocked stand with jack pine. Per pre-review, plant stand with jack pine when stand 22 is planted.</p>										
34	J6	211	75	46	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : Stand is mix of species. Lowland pockets of marshy types scattered throughout stand, if stand is treated protect these lowland marshy types. Mixed conifers consist of black spruce, jack pine, red and white pine, some aspen, oak, red maple, paper birch present. Evidence of old logging roads in the stand. May have to mark some red or white pine in the stand for operability/silvicultural reasons, make that determination when setting up the sale. Leave any oak. Alternate MO of RP/WP, spruce, aspen and oak is acceptable.</p> <p>Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and the understory and along marshy edges.</p>										
37	J1	3	6	46	JACK PINE	IMMATURE		0	PLANTING	
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. Residual red pine left after harvest. *Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - If stand is to be managed for JP then in may need to be planted, not much out here for JP regen. Leatherleaf present as well.</p>										
59	J6	7	80	47	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : Stand was left as a visual break for the timber sale to the south in the last inventory. JP is mature and ready to harvest. Recommend treatment and scarification to follow. Alternate MO of mixed pine, aspen, oak or spruce is acceptable.</p> <p>Wld : leave oak if it occurs and some white pine</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 65

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
60	R5	3	50	46	JACK PINE	IMMATURE		0	PLANTING	
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01) Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. **OI noted - Stand was part of an old 'buffer strip' left along M-123. Timber behind this stand is now 15'-20' tall. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - Not much for JP regen, other species of regen dominate as the regen count indicates. If JP is the MO, then we may need to harvest some RP overstory and plant more JP. If not, change MO to RP and leave stand to mature more.</p>										
67	S5	12	80	40	BLACK SPRUCE-SWAMP	MATURE	FINAL HARVEST	3		
<p>comnts Fmd : Stand is mostly on low ground with some subtile ridges. Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 70. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification. Alternate MO of mixed jack pine, WP, aspen, red maple or birch is acceptable.</p> <p>Wld : leave some mature spruce in red line trees.</p>										
68	J6	72	74	45	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : RP and WP present in stand. Treat stand, MO- JP. Soil is Kinross - Wainola complex. Alternate MO of mixed pine, spruce, aspen, birch, maple and balsam fir is acceptable.</p> <p>Wld : diverse stand, leave some mature maple, aspen and white pine and some understory spruce if possible for spruce grouse.</p>										
70	J6	18	74	45	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : Stand has irregular ridges mixed with low, wet areas. Harvest stand. Evaluate stand further during prep to determine if it is possible to scarify, it may be too low/wet. Soil is Kinross-Dawson complex. Alternate MO of red pine, white pine, oak, aspen, birch and spruce is acceptable.</p> <p>Wld : diverse stand, leave some mature maple, aspen and white pine and some understory spruce if possible for spruce grouse.</p>										
71	J5	7	74	46	JACK PINE	MATURE	FINAL HARVEST	3	DIRECT SEEDING	
<p>comnts Fmd : Stand is mostly on low ground. Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 68 & 70. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification, maybe direct seeding would be better option. Alternate MO of spruce, white pine and red pine would be acceptable.</p> <p>Wld : some mature spruce and some understory spruce for spruce grouse</p>										
77	S5	5	80	40	BLACK SPRUCE-SWAMP	MATURE	FINAL HARVEST	3		
<p>comnts Fmd : Stand is mostly on low ground . Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 55. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification. Alternate MO of mixed pine species would be acceptable.</p> <p>Wld : leave some mature spruce in red line trees</p>										
101	J6	220	83	46	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : The topography is irregular with low ridges and wet areas throughout. There are some lowland pockets/treed bogs scattered within the stand, if stand is treated protect these lowland pockets. The south end of stand has more of a red pine component, may have to cut some for operability/silvicultural reasons if treated. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.</p> <p>Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.</p>										
135	J6	18	88	52	JACK PINE	MATURE	FINAL HARVEST	3	NATURAL REGENERATION	
<p>comnts Fmd : Stand is mature and was left as a buffer around the ski trail/snowmobile trail parking lot and not treated during the last inventory cycle. There is a house along the east side stand on the adjacent PVT land. M-123 on the N. side of stand and the Paradise Ski Trail loop to the south. Silviculturally the stand ready, socially it has other values. Prescribe for treatment and discuss at the pre-review and review. 35=30, 31. Alternate MO of aspen, mixed white pine/red pine and oak is acceptable. Per pre-review, remove any limiting factors and treat stand as prescribed. When stand is treated, leave slash away from private property line for fuel break/wildfire concerns.</p> <p>Wld : leave some white pine red pine and maple.</p>										
137	J6	12	80	47	JACK PINE	MATURE	FINAL HARVEST	2	NATURAL REGENERATION	
<p>comnts Fmd : Stand was left as a visual break for the timber sale to the south in the last inventory. JP is mature and ready to harvest. Recommend treatment and scarification to follow. Alternate MO of mixed red pine, white pine, red maple, aspen or spruce is acceptable.</p> <p>Wld : leave oak and some white pine and spruce, stand is quite diverse.</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 65

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
138	R9	8	80	46	RED PINE	MATURE	SHELTERWOOD-SEED	2	NATURAL REGENERATION	

comnts Fmd : Stand falls on a ridge, mix bag of timber. RP/WP, jack pine, birch, red maple, oak, spruce, aspen. Alternate MO of mixed jack pine, RP/WP, aspen, red maple, oak or birch is acceptable.

Wld : leave oak and some white pine and spruce

425	G0	3	0	46	JACK PINE	NONSTOCKED		0	PLANTING	
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comnts Fmd : Stand is a grassy opening with sand knob on the north side. There is an old two track leading off of M-123. People are using the site as shooting range and a dump. Some old junk laying in a pile.. The sand hill has ORV damage. Suggest cleaning up garbage and possibly re-habing the hill.

Total Acres..... 681

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
48	J6	34	79	46	JACK PINE	MATURE	FINAL HARVEST	3	NATURAL REGENERATION	

TREATMENT LIMITING FACTORS: Too steep
Blocked by other physical obstacle
Land survey needed
Harvesting technology inadequate

comnts Fmd : Stand occurs along ridges with treed bogs along the sides. Ridges are steep in places and there are areas where they may be inoperable to logging.. Access to stand runs through private land. There is a gated road leading to the stand, there are a few private cabins along the road. Would need permission to use the road. Stand is getting old but still fairly healthy. Land survey needed also. If treated, cut all JP and spruce. May have to mark some RP for operability/silvicultural reasons. Alternate MO of aspen, oak, RP/WP is acceptable.

Wld : leave some mature spruce or Jack pine and some understory spruce where it exists.

78	J5	4	87	45	JACK PINE	MATURE	FINAL HARVEST	2	DIRECT SEEDING	
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TREATMENT LIMITING FACTORS: Too wet
Land survey needed
Influence zones
Inadequate volume due to small acreage

comnts Fmd : Some of stand falls on a small knob, but most of it is in low ground. Harvesting may have to occur in winter. Soil is Kinross-Dawson complex. Would be difficult to scarify due to the nature of the low ground. May have to direct seed to promote regeneration. Private property to deal with. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.

Wld :

79	J5	10	87	45	JACK PINE	MATURE	FINAL HARVEST	2	DIRECT SEEDING	
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TREATMENT LIMITING FACTORS: Too wet
Land survey needed
Inferior quality
Inadequate volume due to small acreage

comnts Fmd : Some of stand falls on a small knob, but most of it is in low ground. Harvesting may have to occur in winter. Soil is Kinross-Dawson complex. Would be difficult to scarify due to the nature of the low ground. May have to direct seed to promote regeneration. Private property to deal with. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.

119	J6	55	84	40	JACK PINE	MATURE	FINAL HARVEST	3	NATURAL REGENERATION	
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TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate)
Blocked by other physical obstacle
Water quality/bmps

comnts Fmd : Stand is mature and ready for treatment but does not have good access. Best access would be from the west where a private road through the Lost Lake Subdivision would need to be used, this road crosses several landowners. The alternate access would be from the east where a road would need to be constructed and a stream would need to be crossed. Cheney Creek to the south, marshes/treed bogs to the east and north. The stand is a series of ridges and rolling topography. Although not impossible, it would take some recon, permissions and possible permits to treat stand. Use Limiting Factors. Alternate MO of mixed red pine, white pine, spruce, oak or aspen would be acceptable.

Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.

120	J6	108	84	43	JACK PINE	MATURE	FINAL HARVEST	3	NATURAL REGENERATION	
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TREATMENT LIMITING FACTORS: Bridge needed (portable bridge not available or inadequate)
Road needed (resources not presently available)
Water quality/bmps

comnts Fmd : Stand does not have good access. A road needs to be built and a portable bridge will be needed. The stand is a series of ridges and rolling topography, some steep ridges in the middle of this stand. Stand is surrounded by treed bogs and feeder stream to cheny creek. Although not impossible, it would take some recon and permits to treat stand. Use Limiting Factors. Alternate MO of mixed red pine, white pine, spruce or aspen would be acceptable.

Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
139	A6	13	65	50	ASPEN (UPLAND)	MATURE	SEED TREE	3		

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : Stand occurs along ridge. JP is stand is old and dying. Oak present throughout. If treated, RP/WP may need to be marked as well as some oak for operability. Schedule with adjacent stands when they are treated. There is a cabin close to the line on the south end of stand on adjacent PVT property. MO of mixed aspen, pine and oak is acceptable. Per pre-review, remove limiting factors and treat stand as prescribed.

Wld : leave oak and if any is needed for maneuverability only, try to not take the largest, productive trees.

Total Acres..... 224

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	B	Tot. BA							
1	R 7	A 2	18	60	14	30	48	red pine	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was harvested as Transfer Station Jack Pine (023-02-01). Sale completed 11/13/03. FTP42-576 completed 8/2004. Will need regeneration check. Fair amount of residual red pine left after harvest. *Regeneration count completed 5/9/2007= 937 t/ac (228 RM, 203 Oak, 355 A, 13 PB, 76 J, 25W, 38 BS). Good amount of willow within also. Continue to monitor for success of JP. **2010 OI Comments - Some JP reproduction but mostly aspen, red maple, red pine, some WP, oak and P birch. Fully stocked with regen of varying species. RP overstory with some WP and oak present in overstory as well. Somer areas of stand where there is a fair amount of RP in unstory, sapling sized.</p>														
2	X 0	X 0	1		0	0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Paradise Ski Trail/Snowmobile staging area parking lot.</p>														
3	A 5	A 3	13	31	10	40	48	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Stand was part of sale #028-79A. Stand has a residual overstory of white and red pine with some birch and red maple. Under story is mostly aspen and jack pine with some red pine, spruce balsam. Ski trail runs through stand. **2110 OI Comments - Prior comments have not changed and still pertain. 99=03, 10, 70 35=30, 31 East end of stand as a pocket of mature aspen.</p>														
4	N 0	N 0	3			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Scattered snags of jack pine throughout. Leatherleaf is pretty thick on ground. Currently no water the marsh. Soil is Kinross Muck. New house on the far east end of the stand on PVT property overlooking this stand.</p>														
5	L 0	L 0	3		0	0	15	lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Soil is 'Histosols and Aquents, ponded'. No OI code, so I used carbondale muck. Thick tag alder brush. Some trees out here, cedar, WP, red maple, P Birch, balsam. Nasty stand.</p>														
6	Q 6	Q 2	19	80	9	90	40	mixed swamp conifer	immature	N		10-19 years	0	
<p>comnts Fmd : Stand occurs in a low, wet area that is surrounded by steep ridges. Ski Trail loop on the ridge to the north of this stand. Timber is decent and would probably be feasible to treat when surrounding stands are treated.</p>														
7	A 6	W 1	7	60	10	90	50	aspen (upland)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Too steep Inadequate volume due to small acreage</p>														
<p>comnts Fmd : Most of stand occurs along a steep knob/ridge. Some areas of knob may be inoperable to logging. Evidence in stand of previous attempts in logging years ago, old stumps and skid trails. Some JP/oak present in stand also.</p>														
8	R 9	W 1	17	73	16	90	45	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Southeast part of stand is in low ground. JP in north end of stand is older and mixed with more of a RP stand. The southern end of stand is more of a JP type that has been treated about 40 years ago (old logging road leading to this part of stand from the North) JP is younger than in the N end of stand. Treat in 10 years.</p>														
9	Z 0	Z 0	3		0	0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Water. Lily pads out here now.</p>														
10	D 0	D 0	16		0	0	15	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Treed bog; most of the trees are dead and are now snags. A few spruce and tamarack yet. Mostly grass ground cover with some leatherleaf / sphagnum moss.</p>														
11	R 5	J 2	11	55	10	40	46	red pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Stand occurs along a ridge. Looks to have been treated in the past. A few scattered oak, aspen and jack pine mixed in red pine overstory. Understory is jack pine, spruce and red pine. Stand appears to be two aged.</p>														

* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.

Stand	Cover Type- Dnsty	Under Story- Stknng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
12	D 0	D 0	16		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Treed bog; most of the trees are dead and are now snags. A few spruce and tamarack yet. Mostly grass ground cover with some leatherleaf / sphagnum moss. Wet in here right now.														
13	J 4	N 0	6	32	4	10	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine is regenerating in a low marshy type. Abundant leatherleaf present.														
14	R 5	R 2	26		11	60	45	red pine	unevenaged	N		10-19 years	0	
comnts Fmd : Ski trail runs through stand (south loop of Paradise Ski Trail). Stand occurs along a steep ridge. Stand is a mix of red/white pine and aspen with a component of white birch, jack pine, spruce and balsam. Some areas of stand is heavy to aspen. Understory varies in species and is thick/thin.														
15	J 4	J 2	26	31	5	20	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Stand was part of sale 028-79a. Stand is regenerating to jack pine 3-6" DBH average, approx 30' tall. There is an overstory of red pine, white pine, red maple, birch and aspen scattered throughout. Ski trail runs through stand.														
16	R 8	A 2	17	6	16	50	46	red pine	two aged	N		50-59 years	0	
comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01) Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. Residual red pine left after harvest. **OI notes - Ridge on south side of stand. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments- Stand does not have much jack pine regen present, aspen is prevalent. Overstory of RP/WP, mostly sawlog sized, heavier BA on the west side of stand. Oak scattered in overstory. Aspen/red maple regen. Scattered pockets of leatherleaf brush on ground.														
17	A 6	W 1	24	65	10	90	50	aspen (upland)	mature	Y	seed tree	within 0-9 years	3	
comnts Fmd : Stand occurs along steep topography where much of the stand may be inoperable. Stand is adjacent to M-123 and offers some visual influence along the road. JP is stand is old and dying. Oak present throughout. If treated, RP/WP may need to be marked as well as some oak for operability. MO of mixed aspen, pine and oak is acceptable. Per pre-review, remove all limiting factors and treat stand as prescribed. Wld : leave oak and if you have to mark any, don't mark the big productive trees. Leave some mature aspen														
18	N 0	N 0	7		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand is intermittantly wet. It is currently dry.														
19	J 5	S 1	10	73	9	60	40	jack pine	immature	Y		10-19 years	0	
Treatment Limiting Factors: Delayed treatment for age/size class diversity														
comnts Fmd : Stand occurs in a low marshy area. Schedule with adjacent stands.														
20	A 2	J 1	1	0	0	0	46	jack pine	immature	N		within 0-9 years	0	planting
comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. ** old OI notes - Stand is serving as a 'buffer strip' along M-123. This stand is at high risk to disease. There are several trees dying or dead already. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments- Some JP regen presnt but mostly other species. Fully stocked with tree species.														
21	I 4	I 2	1	33	5	10	45	jack pine	immature	N	final harvest	within 0-9 years	3	planting
comnts Fmd : Stand was planted to scotch pine. If it is desired to remove the scotch pine, prescribe stand for final harvest and plant back to jack pine. Trees are somewhat small for a merchantable roundwood timber sale, may have to be chipped. Alternate MO of aspen, oak or white pine/red pine is acceptable. Wld : ok, good to chip to remove scotch pine, use chipping specs to retain some woody debris.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
22	J 4	I 2	34	33	5	20	46	jack pine	immature	N	final harvest	within 0-9 years	3	planting
<p>comnts Fmd : Portions of stand was scarified in 1972. Apparently the regeneration failed. It was then planted in the fall of 1977 with scotch and jack pine mix. Stand is now thick with stocking and is beginning to move into a pole sized class. If it is desired to remove the scotch pine, prescribe stand for final harvest and plant back to jack pine. Trees are somewhat small for a merchantable roundwood timber sale, may have to be chipped. Alternate MO of aspen, oak or white pine/red pine is acceptable.</p> <p>Wld : good to chip to remove scotch pine, use chipping specs to retain some woody debris.</p>														
23	R 4	M 1	22	6	10	20	46	jack pine	immature	N		within 0-9 years	0	planting
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. **old OI notes - Stand is serving as a "buffer strip". Timber behind stand is about 25' tall. This stand is at high risk to disease. There are several trees dying or dead already. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - Regen varies as the regen check indicated, not much in the way of JP regen though. Lleatherleaf, blueberry, bracken fern ground cover. If the MO is to remain JP, planting may now be required if it desired to get a fully stocked stand with jack pine. Per pre-review, plant stand with jack pine when stand 22 is planted.</p>														
24	N 0	N 0	4		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
25	N 0	N 0	3		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
26	R 5	J 2	11	50	9	60	45	red pine	immature	N		10-19 years	0	
27	J 4	J 2	15	38	5	20	46	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Stand is beginning to come into a pole sized class. Patchy JP, leatherleaf brush on ground.</p>														
28	N 0	N 0	5		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
29	R 5	J 2	15	50	9	60	45	red pine	immature	N		10-19 years	0	
31	N 0	N 0	1		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
32	N 0	N 0	15		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
33	A 6	W 1	29	50	11	80	47	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Stand consists of aspen with a mix of red, white and jack pine. Some of the red and white pine are of sawlog size. Stand occurs on a 'knob'.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
34	J 6	S 2	211	75	10	90	46	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand is mix of species. Lowland pockets of marshy types scattered throughout stand, if stand is treated protect these lowland marshy types. Mixed conifers consist of black spruce, jack pine, red and white pine, some aspen, oak, red maple, paper birch present. Evidence of old logging roads in the stand. May have to mark some red or white pine in the stand for operability/silvicultural reasons, make that determination when setting up the sale. Leave any oak. Alternate MO of RP/WP, spruce, aspen and oak is acceptable.</p> <p>Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and the understory and along marshy edges.</p>														
35	N 0	N 0	2		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
36	N 0	N 0	4		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Scattered trees in marshy type - jack/white pine & black spruce. Evidence of damage from 4X4 'mudding' in the marsh. Doesn't look real recent, approx. 10 years ago. The marsh is currently dried up.</p>														
37	J 1	M 1	3	6	0	20	46	jack pine	immature	N		within 0-9 years	0	planting
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01). Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. Residual red pine left after harvest. *Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - If stand is to be managed for JP then in may need to be planted, not much out here for JP regen. Leatherleaf present as well.</p>														
38	N 0	N 0	3		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Scattered trees in marshy type - jack/white pine & black spruce. Evidence of damage from 4X4 'mudding' in the marsh. Doesn't look real recent, approx. 10 years ago. The marsh is currently dried up.</p>														
39	W 9	J 2	147	49	14	70	45	white pine	two aged	N		10-19 years	0	
<p>comnts Fmd : Stand is variable with a mix of species. Lowland pockets of marshy types scattered throughout stand. Mixed conifers consist of black spruce, jack pine, red and white pine. Oak present as well as aspen, red maple and p.birch. Regen varies mixed pine, spruce, aspen, oak. In the NE portions of this stand it is a mix of pine with aspen, white birch and red maple, this area was scarified in 1977 then seeded with jack pine in 1979. Jack pine is present in the understory along with other species of regeneration. Most of the jack pine in this area was harvested in '75-'76'.</p>														
40	N 0	N 0	7		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
41	N 0	N 0	6		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
42	N 0	N 0	2		0	0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.</p>														
43	D 0	D 0	13		0	0	15	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small tamarack and black spruce. Leatherleaf/lab tea/grass/sphagnum ground cover.</p>														
44	D 0	D 0	3		0	0	15	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
45	D 0	D 0	2		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
46	D 0	D 0	9		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
47	D 0	D 0	28		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small tamarack & black spruce. Leatherleaf/lab tea/grass/sphagnum and tag alder ground cover.														
48	J 6	S 1	34	79	9	90	46	jack pine	mature	Y	final harvest	within 0-9 years	3	natural regeneration
<u>Treatment Limiting Factors:</u>														
Too steep														
Blocked by other physical obstacle														
Land survey needed														
Harvesting technology inadequate														
comnts Fmd : Stand occurs along ridges with treed bogs along the sides. Ridges are steep in places and there are areas where they may be inoperable to logging.. Access to stand runs through private land. There is a gated road leading to the stand, there are a few private cabins along the road. Would need permission to use the road. Stand is getting old but still fairly healthy. Land survey needed also. If treated, cut all JP and spruce. May have to mark some RP for operability/silvicultural reasons. Alternate MO of aspen, oak, RP/WP is acceptable.														
Wld : leave some mature spruce or Jack pine and some understory spruce where it exists.														
49	D 0	D 0	9		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
50	D 0	D 0	8		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
51	D 0	D 0	19		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small tamarack & black spruce. Leatherleaf/lab tea/grass/sphagnum ground cover.														
52	D 0	D 0	11		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
53	D 0	D 0	31		0	0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf/lab tea/grass/sphagnum ground cover.														
54	N 0	N 0	5		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														
56	N 0	N 0	5		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														
57	N 0	N 0	2		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
58	A 2	M 1	108	4	0	0	47	aspen (upland)	immature	N		60-69 years	0	
<p>comnts Fmd : Stand harvested as sale #22-02-01 "Groomer Barn Jack Pine". Completed 11/28/05. FTP C42-572. Scarification completed 11/25/06. Regeneration check needed. If scarification is unsuccessful, then plant. **2010 OI Comments - Stand has regenerated more to aspen and maple, some jack pine regen present but not much observed, some WP, balsam, oak, regenerating as well. Regen is 1-2' tall. May need to plant stand if JP is to remain the MO. Per Pre-Review, change MO from JP to Aspen.</p>														
59	J 6	S 1	7	80	10	80	47	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand was left as a visual break for the timber sale to the south in the last inventory. JP is mature and ready to harvest. Recommend treatment and scarification to follow. Alternate MO of mixed pine, aspen, oak or spruce is acceptable.</p> <p>Wld : leave oak if it occurs and some white pine</p>														
60	R 5	M 2	3	50	10	50	46	jack pine	immature	N		within 0-9 years	0	planting
<p>comnts Fmd : Stand harvested as Transfer Station Jack Pine (023-02-01) Completed 11/13/03. FTP42-576 completed 8/2004. Stand will need regeneration check. **OI noted - Stand was part of an old 'buffer strip' left along M-123. Timber behind this stand is now 15'-20' tall. Regeneration count completed 5/9/2007 = 937 t/ac (228 RM, 203 Oak, 355 A, 12 PB, 76 J, 25 W, 38 BS). Willow present also. Continue to monitor for success of JP. **2010 OI Comments - Not much for JP regen, other species of regen dominate as the regen count indicates. If JP is the MO, then we may need to harvest some RP overstory and plant more JP. If not, change MO to RP and leave stand to mature more.</p>														
61	J 4	J 2	13	32	4	10	46	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Jack pine is very thick in most places.</p>														
62	X 0	X 0	1		0	0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Paradise snowmobile association groomers - old DNR station.</p>														
63	M 9	M 3	33		14	70	60	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand falls adjacent to M-123 heritage route. Stand has hemlock and white pine scattered throughout. Soil is Rousseau sands with dark subsoil. **Stand thinned as "Groomer Barn Hardwoods" timber sale (015-02-01). Completed 5/11/04. Beech in stand is dying out from BBD or standing dead already..</p>														
64	B 5	A 3	3	45	9	40	65	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Stand occurs adjacent to M-123 heritage route. Rousseau fine sand. Stand harvested as part of "Groomer Barn Hardwoods" timber sale (015-02-01). The birch was left as residual. Sale completed 5/11/04. MO of aspen for stand.</p>														
65	X 0	X 0	15			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : M-123 R.O.W.</p>														
66	A 3	F 3	68	24	3	0	65	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Stand was cut in mid 80's. Sale #032-85. Stand is a dense mix of aspen, red maple, p.birch, spruce, balsam and white pine ~10-30' tall 1-4"DBH. Rousseau fine sand.</p>														
67	S 5	S 1	12	80	7	60	40	black spruce-swamp	mature	Y	final harvest	within 0-9 years	3	
<p>comnts Fmd : Stand is mostly on low ground with some subtile ridges. Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 70. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification. Alternate MO of mixed jack pine, WP, aspen, red maple or birch is acceptable.</p> <p>Wld : leave some mature spruce in red line trees.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	A c r e s	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
68	J 6	S 2	72	74	10	90	45	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : RP and WP present in stand. Treat stand, MO- JP. Soil is Kinross - Wainola complex. Alternate MO of mixed pine, spruce, aspen, birch, maple and balsam fir is acceptable.</p> <p>Wld : diverse stand, leave some mature maple, aspen and white pine and some understory spruce if possible for spruce grouse.</p>														
69	J 3	J 3	27	21	3	0	46	jack pine	immature	N		not scheduled	0	
<p>comnts Fmd : Stand was sale #007-89. It was cut in 1989 and scarified in 1991. Mostly JP regen aspen, paper birch, red pine, white pine, balsam fir, spruce; ground cover is tag alder, blueberry and leatherleaf. This stand surrounds a State of Michigan 800MHz communications tower.</p>														
70	J 6	S 2	18	74	10	100	45	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Stand has irregular ridges mixed with low, wet areas. Harvest stand. Evaluate stand further during prep to determine if it is possible to scarify, it may be too low/wet. Soil is Kinross-Dawson complex. Alternate MO of red pine, white pine, oak, aspen, birch and spruce is acceptable.</p> <p>Wld : diverse stand, leave some mature maple, aspen and white pine and some understory spruce if possible for spruce grouse.</p>														
71	J 5	S 1	7	74	8	60	46	jack pine	mature	Y	final harvest	within 0-9 years	3	direct seeding
<p>comnts Fmd : Stand is mostly on low ground. Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 68 & 70. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification, maybe direct seeding would be better option. Alternate MO of spruce, white pine and red pine would be acceptable.</p> <p>Wld : some mature spruce and some understory spruce for spruce grouse</p>														
72	D 0	D 0	106			0	12	treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Treed bog; has small suppressed tamarack, black spruce, jack pine. Several dead trees standing. Leatherleaf and grasses as ground cover.</p>														
73	R 6	S 1	11	60	10	100	50	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Stand is a mixed bag. Stand occurs along a ridge, steep in places.</p>														
74	N 0	N 0	3			0		marsh	nonstocked	N		not scheduled	0	
75	N 0	N 0	11			0		marsh	nonstocked	N		not scheduled	0	
76	Z 0	Z 0	3			0	0	water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Water</p>														
77	S 5	S 1	5	80	7	60	40	black spruce-swamp	mature	Y	final harvest	within 0-9 years	3	
<p>comnts Fmd : Stand is mostly on low ground . Timber is mostly small diameter. Prescribe and possibly treat with adjacent stand 55. If stand looks too wet to treat, exclude from treatment. It looks to low/wet for scarification. Alternate MO of mixed pine species would be acceptable.</p> <p>Wld : leave some mature spruce in red line trees</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
78	J 5	S 2	4	87	8	60	45	jack pine	mature	Y	final harvest	within 0-9 years	2	direct seeding
<u>Treatment Limiting Factors:</u>														
Too wet														
Land survey needed														
Influence zones														
Inadequate volume due to small acreage														
comnts Fmd : Some of stand falls on a small knob, but most of it is in low ground. Harvesting may have to occur in winter. Soil is Kinross-Dawson complex. Would be difficult to scarify due to the nature of the low ground. May have to direct seed to promote regeneration. Private property to deal with. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.														
Wld :														
79	J 5	S 2	10	87	7	40	45	jack pine	mature	Y	final harvest	within 0-9 years	2	direct seeding
<u>Treatment Limiting Factors:</u>														
Too wet														
Land survey needed														
Inferior quality														
Inadequate volume due to small acreage														
comnts Fmd : Some of stand falls on a small knob, but most of it is in low ground. Harvesting may have to occur in winter. Soil is Kinross-Dawson complex. Would be difficult to scarify due to the nature of the low ground. May have to direct seed to promote regeneration. Private property to deal with. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.														
80	D 0	D 0	3			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
81	D 0	D 0	16			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
82	Z 0	Z 0	2			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Water														
83	D 0	D 0	6			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
84	D 0	D 0	13			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
85	D 0	D 0	8			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
86	J 6	S 2	9	84	10	70	40	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Harvesting technology inadequate														
comnts Fmd : Stand occurs along a small ridge that is difficult to get to. Some of the timber lies in wet ground / treed bog. Timber is inaccessible / inoperable for the most part.														
87	D 0	D 0	6			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														

Stand	Cover Type- Dnsty	Under Story- Stkng Level	Acrs	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
88	D 0	D 0	64			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
89	Z 0	Z 0	1		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Water														
90	N 0	N 0	16			0	15	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed tamarack, spruce and jack pine 1-3" DBH. Scattered brush, willow spp. Leatherleaf / lab tea/ grass ground cover.														
91	J 5	S 2	4	84	9	60	40	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Blocked by other physical obstacle														
Harvesting technology inadequate														
comnts Fmd : Stand occurs along a small ridge. Timber is inaccessible / inoperable for the most part.														
92	J 6	S 2	2	84	9	80	40	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Blocked by other physical obstacle														
Harvesting technology inadequate														
comnts Fmd : Stand occurs along a small ridge / island. Timber is inaccessible / inoperable for the most part.														
93	D 0	D 0	3			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
94	J 3	M 1	136	6	0	0	45	jack pine	immature	N		50-59 years	0	
comnts Fmd : Stand has scattered inclusions of treed bogs. Topography of land is rolling with ridges, knobs and low wet areas. Soil is Kinross - Dawson complex. When time to harvest, winter logging is probably necessary. Scarification for regeneration is probably not an option. Direct seeding or planting are better options due the nature of the ground. ***Stand harvested as Preacher Lakes Jack Pine (021-02-01) Completed 9/3/04. Direct Seeding for regeneration still to be completed as of 9/6/04. **2010 OI Comments - Stand looks to be fully regenerated. JP is 1-5' tall. Spruce and maple regeneration present as well. Sweetfern growing in many places.														
95	D 0	D 0	9			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
96	J 6	S 1	7	83	10	80	46	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Stand sits on a knob. It was left as retention from the surrounding cutting, maybe treat in 10 years.														
Wld : Leave stand to keep some variable retention of size and age.														
97	Q 6	Q 2	10	70	8	70	43	mixed swamp conifer	immature	N		10-19 years	0	
comnts Fmd : Stand occurs on some lower ground and would need to be harvested in winter. Soil is Kinross-Dawson complex.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Age	Acres	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
98	J 6	S 1	29	80	9	80	45	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Road needed (resources not presently available)														
Too steep														
Water quality/bmps														
Harvesting technology inadequate														
comnts Fmd : Stand occurs along ridge that is steep in many places. Some of stand extends into low ground. Soil is Kinross-Markey complex. Stand is bordered by a small stream on the south east end. Would be difficult to access timber due to the nature of the terrain and low ground.														
99	J 4	S 2	48	80	4	20	15	jack pine	sparse	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Too wet														
Inferior quality														
Inadequate volume due to low stocking/small diameter/etc.														
comnts Fmd : Stand consists of scattered suppressed trees, jack pine, spruce and tamarack. There are some small islands of JP/Spruce in the stand that are small subtle ridges. The timber is small for the most part an inferior quality. Leatherleaf / lab tea/ grass ground cover.														
100	S 4	D 0	6	84		20	15	black spruce-swamp	low quality	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine and black spruce 2-5" DBH. Leatherleaf / lab tea/ grass ground cover.														
101	J 6	S 1	220	83	10	80	46	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : The topography is irregular with low ridges and wet areas throughout. There are some lowland pockets/treed bogs scattered within the stand, if stand is treated protect these lowland pockets. The south end of stand has more of a red pine component, may have to cut some for operability/silvicultural reasons if treated. Alternate MO of spruce, mixed red pine, white pine or aspen would be acceptable.														
Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.														
102	D 0	D 0	3			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
103	D 0	D 0	2			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
104	D 0	D 0	2			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
105	D 0	D 0	1			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
106	D 0	D 0	2			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
107	Q 6	Q 2	17		10	90	40	mixed swamp conifer	unevenaged	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Road needed (resources not presently available)														
Too steep														
comnts Fmd : Stand is located on the south side of a steep ridge. Stand is difficult to access - needs a road, it is low ground and is adjacent to private property. Soil is Kinross-Markey complex.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
108	J 5	S 1	6	83	10	60	45	jack pine	mature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Road needed (resources not presently available)														
Inadequate volume due to small acreage														
Water quality/bmps														
comnts Fmd : Stand has no access. A road would be need to be built through private land. Stand borders a feeder stream to cheney creek.														
109	L 0	L 0	64			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Lowland brush surrounding a feeder stream to Cheney creek.														
110	D 0	D 0	3			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
111	N 0	N 0	1		0	0		marsh	nonstocked	N		not scheduled	0	
112	N 0	N 0	11			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand is intermittantly wet. Soil is Kinross-Dawson complex.														
113	Z 0	Z 0	16		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Water														
114	D 0	D 0	2			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed spruce, tamarack and jack pine 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.														
115	D 0	D 0	28			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed black spruce, tamarack and jack pine 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.														
116	N 0	N 0	2		0	0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														
117	L 0	L 0	7			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Lowland brush surrounding Cheney Creek.														
118	D 0	D 0	9			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine, black spruce and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
119	J 6	S 2	55	84	9	80	40	jack pine	mature	Y	final harvest	within 0-9 years	3	natural regeneration
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
Blocked by other physical obstacle														
Water quality/bmps														
comnts Fmd : Stand is mature and ready for treatment but does not have good access. Best access would be from the west where a private road through the Lost Lake Subdivision would need to be used, this road crosses several landowners. The alternate access would be from the east where a road would need to be constructed and a stream would need to be crossed. Cheney Creek to the south, marshes/treed bogs to the east and north. The stand is a series of ridges and rolling topography. Although not impossible, it would take some recon, permissions and possible permits to treat stand. Use Limiting Factors. Alternate MO of mixed red pine, white pine, spruce, oak or aspen would be acceptable.														
Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.														
120	J 6	S 2	108	84	10	80	43	jack pine	mature	Y	final harvest	within 0-9 years	3	natural regeneration
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
Road needed (resources not presently available)														
Water quality/bmps														
comnts Fmd : Stand does not have good access. A road needs to be built and a portable bridge will be needed. The stand is a series of ridges and rolling topography, some steep ridges in the middle of this stand. Stand is surrounded by treed bogs and feeder stream to cheney creek. Although not impossible, it would take some recon and permits to treat stand. Use Limiting Factors. Alternate MO of mixed red pine, white pine, spruce or aspen would be acceptable.														
Wld : leave any oak and a little aspen, maple and red and white pine. Keep some spruce pockets intact for spruce grouse, and protect the spruce understory and along marshy edges.														
121	D 0	D 0	4			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed black spruce, jack pine and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.														
122	N 0	N 0	4			0	15	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand intermittantly holds water.														
123	D 0	D 0	4			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed black spruce, jack pine and tamarack 1-3" DBH. Leatherleaf / lab tea/ grass ground cover.														
124	N 0	N 0	7			0		marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Leatherleaf / blueberry bushes with grass mixed in. Portions of marsh is intermittantly wet. It is dry now.														
125	X 0	X 0	2			0	50	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : Stand is a site of a 800MHZ State of Michigan communications tower.														
126	N 0	N 0	1			0	15	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand intermittantly holds water.														
127	N 0	N 0	2			0	15	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand intermittantly holds water.														

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
128	D 0	D 0	1			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
129	D 0	D 0	4			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine 1-3" DBH. There are also some small black spruce. Leatherleaf / lab tea/ grass ground cover.														
130	R 8	M 1	11	80	14	60	48	red pine	two aged	N		20-29 years	0	
comnts Fmd : Stand harvested as Preacher Lakes Jack Pine (021-02-01) Completed 9/3/04. Stand sits on a ridge. Red pine was left standing after harvest. Red maple sprouts in understory some jack pine and aspen regen as well.														
131	S 4	D 0	4	84		20	15	black spruce-swamp	low quality	N		not scheduled	0	
comnts Fmd : Stand consists of scattered suppressed jack pine and black spruce 2-5" DBH. Leatherleaf / lab tea/ grass ground cover.														
132	N 0	N 0	2			0	0	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														
133	N 0	N 0	1			0	0	marsh	nonstocked	N		not scheduled	0	
comnts Fmd : Stand has blueberry, leatherleaf brush throughout. Marsh is currently dry.														
135	J 6	M 1	18	88	10	90	52	jack pine	mature	Y	final harvest	within 0-9 years	3	natural regeneration
comnts Fmd : Stand is mature and was left as a buffer around the ski trail/snowmobile trail parking lot and not treated during the last inventory cycle. There is a house along the east side stand on the adjacent PVT land. M-123 on the N. side of stand and the Paradise Ski Trail loop to the south. Silviculturally the stand ready, socially it has other values. Prescribe for treatment and discuss at the pre-review and review. 35=30, 31. Alternate MO of aspen, mixed white pine/red pine and oak is acceptable. Per pre-review, remove any limiting factors and treat stand as prescribed. When stand is treated, leave slash away from private property line for fuel break/wildfire concerns. Wld : leave some white pine red pine and maple.														
136	R 8	A 2	18	70	14	50	47	red pine	immature	N		50-59 years	0	
comnts Fmd : Stand harvested as sale #22-02-01 "Groomer Barn Jack Pine". Completed 11/28/05. FTP C42-572. Scarification completed 11/25/06. **2010 OI Comments - Red pine in overstory was left as residual from the harvest. Stand has regenerated more to aspen and maple, some jack pine regen present but not much observed, some WP, balsam, oak, regenerating as well. Regen is 2-6' tall and thick in some places.														
137	J 6	S 1	12	80	10	80	47	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : Stand was left as a visual break for the timber sale to the south in the last inventory. JP is mature and ready to harvest. Recommend treatment and scarification to follow. Alternate MO of mixed red pine, white pine, red maple, aspen or spruce is acceptable. Wld : leave oak and some white pine and spruce, stand is quite diverse.														
138	R 9	S 1	8	80	16	100	46	red pine	mature	Y	shelterwood-seed	within 0-9 years	2	natural regeneration
comnts Fmd : Stand falls on a ridge, mix bag of timber. RP/WP, jack pine, birch, red maple, oak, spruce, aspen. Alternate MO of mixed jack pine, RP/WP, aspen, red maple, oak or birch is acceptable. Wld : leave oak and some white pine and spruce														

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S t a n d	Cover Type- Size Dnsty	Under Story- Stkng Level	A c r e s	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA								

139	A 6	W 1	13	65	10	90	50	aspen (upland)	mature	Y	seed tree	within 0-9 years	3	
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Treatment Limiting Factors:

Inadequate volume due to small acreage

comnts Fmd : Stand occurs along ridge. JP is stand is old and dying. Oak present throughout. If treated, RP/WP may need to be marked as well as some oak for operability. Schedule with adjacent stands when they are treated. There is a cabin close to the line on the south end of stand on adjacent PVT property. MO of mixed aspen, pine and oak is acceptable. Per pre-review, remove limiting factors and treat stand as prescribed.

Wld : leave oak and if any is needed for maneuverability only, try to not take the largest, productive trees.

425	G 0	G 0	3			0	46	jack pine	nonstocked	N		within 0-9 years	0	planting
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comnts Fmd : Stand is a grassy opening with sand knob on the north side. There is an old two track leading off of M-123. People are using the site as shooting range and a dump. Some old junk laying in a pile.. The sand hill has ORV damage. Suggest cleaning up garbage and possibly re-habing the hill.

Total Acres..... 2579