



**Newberry Forest Management Unit
Compartment Review Presentation**
Compartment # 017 Entry Year: 2012
Compartment Acreage: 2654 County: Luce

Revision Date: September 22, 2010

Stand Examiner: Ben Travis

Legal Description: T49N R10W Sec. 7
T49N R11W Sec. 1-3, 10-12
T50N R11W Sec. 34, 35

Identified Planning Goals ('Management Area' or 'RMU',if applicable): Compartment located within the Deer Park Management Unit.

Management Goals: Maintain forest health, forest recreation, timber production, forest diversity and forest sustainability while considering wildlife, fisheries and environmental needs and concerns.

Soil and Topography: Soil series include Deer Park, Rubicon and Wallace sands; Croswell-AuGres, Markey and Carbondale. Wisconsin End Moraines are located near Lake Superior; flat, rolling outwash sand plains throughout.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Primarily State of Michigan ownership found within compartment with several scattered, smaller, private parcels included. Small settlements are located along the east side of this compartment in Deer Park, and at the southwest corner of Muskallonge Lake. Large blocks of State Forest are found to west, east and south of compartment. Land uses are predominantly forest management, camping, water recreation and forest recreation in this vicinity.

Unique, Natural Features: Lake Superior shoreline, Muskallonge Lake, Cranberry Lake and Trout Creek.

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: Eagle nests are documented within compartment.

Watershed and Fisheries Considerations: Fisheries Values Excellent. Trout Creek, classified Type 1, and Trout Lake provide good native brook trout fishing. Trout Lake is stocked with trout annually. Muskallonge Lake provides a good all-around fishery. We stock walleyes every other year, and it also contains northern pike, smallmouth bass, rock bass and perch. However, Fisheries personnel have for over a decade been fighting the huge population of bullheads. We have made some progress, with the resultant bullhead population averaging almost 4 inches larger than previously. Ignoring the bullheads, Muskallonge Lake contains a nice mix of other species, with good size ranges. Bullheads, however, still comprise over 90% of the total fish biomass.

Wildlife Habitat Considerations: **Compartment 17** is situated in far northern Luce county, surrounding Muskallonge lake, and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection. The compartment is largely comprised of jack and red pine with scattered stands of birch, aspen and northern hardwoods.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural and species diversity as possible in managed stands will be important to achieving wildlife objectives. 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. Leaving understory spruce and hemlock when it occurs will likewise improve structural diversity of stands. Wildlife species potentially using this compartment include white-tailed deer, black bear, gray wolves, coyote, bobcat, fisher, marten, otter, mink and eagles.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 1–3 & 10-12, T49N-R11W, Luce County

Surface sediments consist of lacustrine (lake) sand and gravel deposits. An ancient shoreline runs through the compartment. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville has been used as a building stone in the past. There are no gravel pits in the area, and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access: Primary access to compartment is provided by Co. Rd. 407, which is paved from 4-Mile Corner to the south all the way to the west edge of Muskallonge State Park. This road is maintained open all year. 7-Mile Fire Line is the major east-west access road in the southern portion of the compartment, while the unpaved portion of Co. Rd 407 provides principle east-west access in the northern portion. Numerous forest roads provide access to many areas of the compartment, including private camps and the Lake Superior shoreline. A bridge crossing site over Trout Creek was improved by DNRE-FMD staff in the Fall of 2009. A portable bridge will be installed at this site when funds become available for its purchase and installation.

Survey Needs: None.

Recreational Facilities and Opportunities: Portions of the Pine Ridge ORV Trail pass through the compartment. The North Country Trail runs along the north edge of the compartment. Muskallonge Lake State Park is situated along the north-central edge of Muskallonge Lake. Additional recreational opportunities include hunting, trapping, fishing, beach walking, sled-dogging, snowmobiling, berry picking, boating and wildlife viewing.

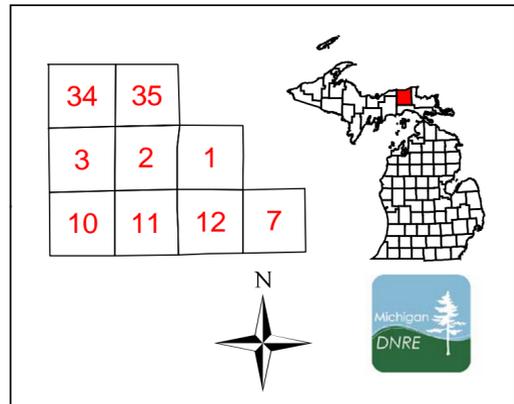
Fire Protection: The compartment is in the Two Hearted Zone Dispatch Area. The area has a high potential for large fire development because of the large continuous component of Jack Pine throughout the compartment and long response travel times. The risk to private properties is high because of the adjacent fuel types. Luce County 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.

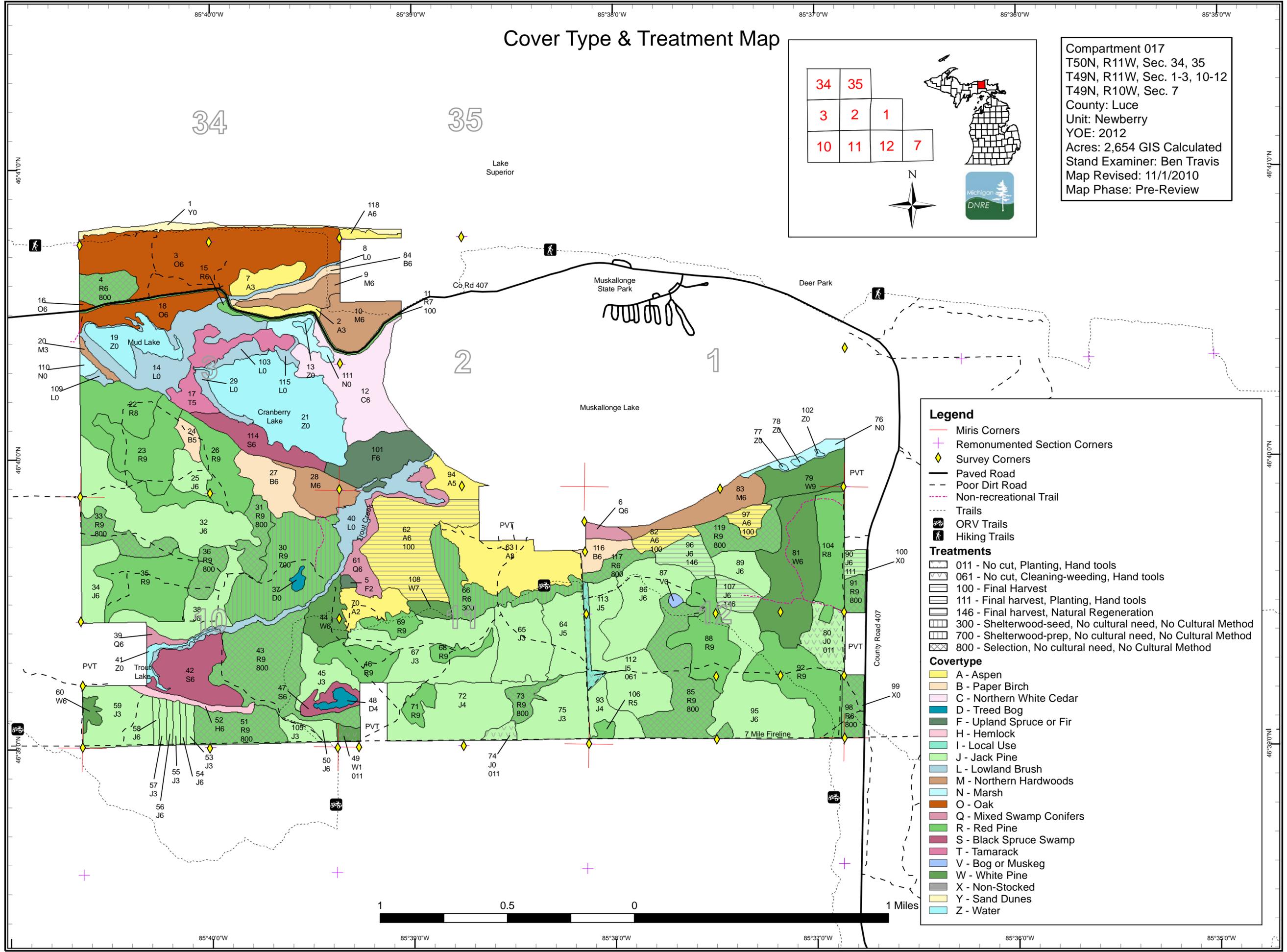
- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **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 017
 T50N, R11W, Sec. 34, 35
 T49N, R11W, Sec. 1-3, 10-12
 T49N, R10W, Sec. 7
 County: Luce
 Unit: Newberry
 YOE: 2012
 Acres: 2,654 GIS Calculated
 Stand Examiner: Ben Travis
 Map Revised: 11/1/2010
 Map Phase: Pre-Review



Legend

- Miris Corners
- Remonumented Section Corners
- Survey Corners
- Paved Road
- Poor Dirt Road
- Non-recreational Trail
- Trails
- ORV Trails
- Hiking Trails

Treatments

- 011 - No cut, Planting, Hand tools
- 061 - No cut, Cleaning-weeding, Hand tools
- 100 - Final Harvest
- 111 - Final harvest, Planting, Hand tools
- 146 - Final harvest, Natural Regeneration
- 300 - Shelterwood-seed, No cultural need, No Cultural Method
- 700 - Shelterwood-prep, No cultural need, No Cultural Method
- 800 - Selection, No cultural need, No Cultural Method

Covertype

- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- D - Treed Bog
- F - Upland Spruce or Fir
- H - Hemlock
- I - Local Use
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- N - Marsh
- O - Oak
- Q - Mixed Swamp Conifers
- R - Red Pine
- S - Black Spruce Swamp
- T - Tamarack
- V - Bog or Muskeg
- W - White Pine
- X - Non-Stocked
- Y - Sand Dunes
- Z - Water

Stand Boundary Map

Legend

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Corners
- Paved Road
- Poor Dirt Road
- Non-recreational Trail
- Trails
- ORV Trails
- Hiking Trails
- Stand Boundary

34	35		
3	2	1	
10	11	12	7

Compartment 017
 T50N, R11W, Sec. 34, 35
 T49N, R11W, Sec. 1-3, 10-12
 T49N, R10W, Sec. 7
 County: Luce
 Unit: Newberry
 YOE: 2012
 Acres: 2,654 GIS Calculated
 Stand Examiner: Ben Travis
 Map Revised: 11/1/2010
 Map Phase: Pre-Review



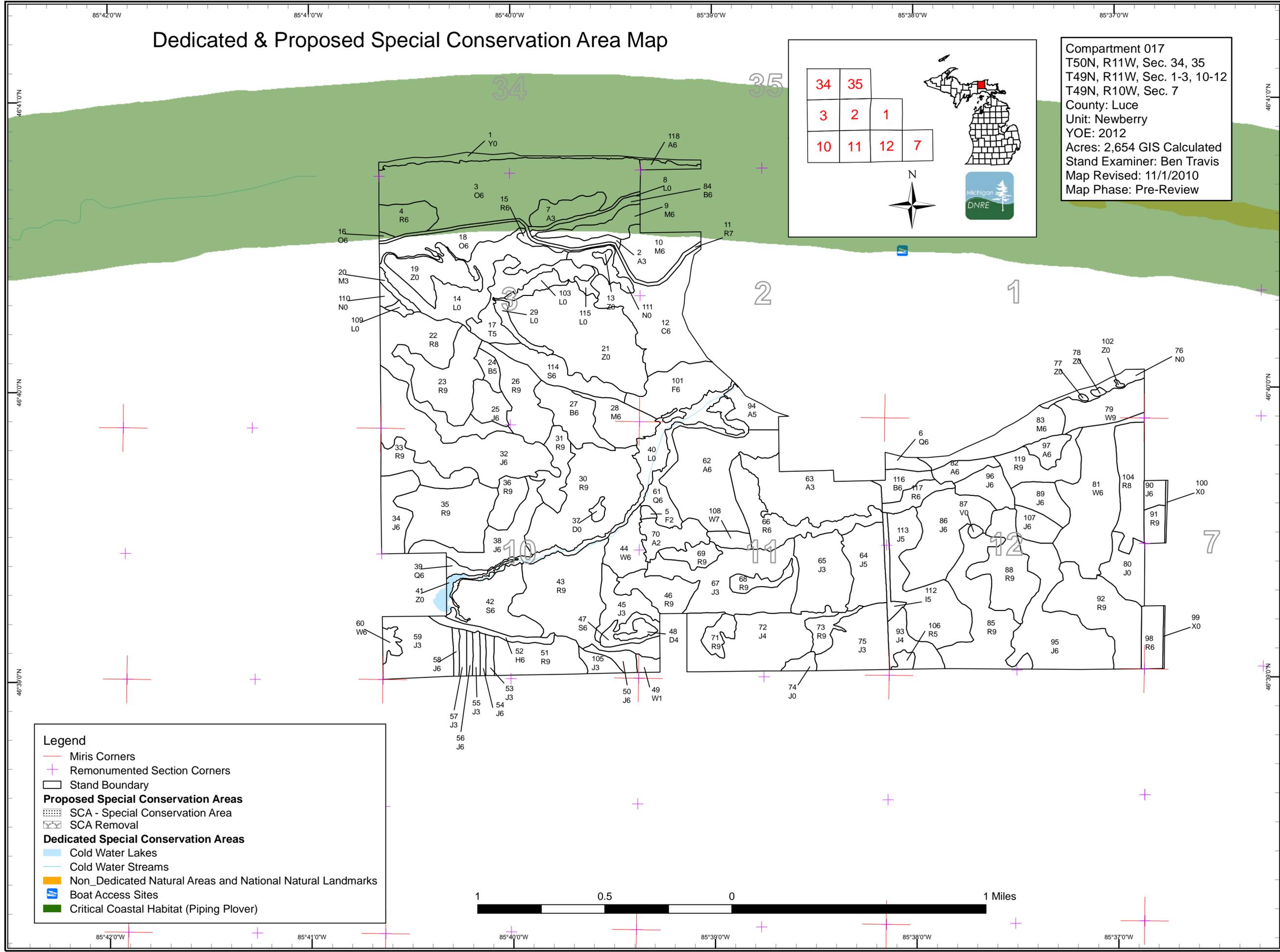
Dedicated & Proposed Special Conservation Area Map

34	35		
3	2	1	
10	11	12	7




N

Compartment 017
 T50N, R11W, Sec. 34, 35
 T49N, R11W, Sec. 1-3, 10-12
 T49N, R10W, Sec. 7
 County: Luce
 Unit: Newberry
 YOE: 2012
 Acres: 2,654 GIS Calculated
 Stand Examiner: Ben Travis
 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 Lakes
 - Cold Water Streams
 - Non_Dedicated Natural Areas and National Natural Landmarks
 - Boat Access Sites
 - Critical Coastal Habitat (Piping Plover)



11/01/2010 10:15:18 AM

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

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 17

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		58	17	20		13						76	9					10	203
Black Spruce							38			8						24			70
Bog or Marsh	1																		1
Cedar																63			63
Hemlock												8							8
Jack Pine		24		41	531	90		12	16	6									720
Local Name					6														6
Lowlnd Brush	111																		111
Marsh	23																		23
Mx Swmp Cnfr												6	27						33
Non Stocked	2																		2
Oak												156							156
Paper Birch						6				36		8							50
Red Pine		32			3	51			30	60		381	108	24				78	767
Sand Dune	13																		13
Spruce Fir			2													35			37
Tamarack																29			29
Treed Bog	6																		6
Upland Hdwds				4							23	15						57	99
Water	126																		126
White Pine		4					70					33	5					19	131
Total	282	118	19	65	540	160	108	12	46	110	23	683	149	24		151		164	2654

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: 17

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	203																										203
S Black Spruce		70																									70
V Bog or Marsh			1																								1
C Cedar				63																							63
H Hemlock						8																					8
J Jack Pine							714								6												720
I Local Name							6																				6
L LowInd Brush									111																		111
N Marsh											23																23
Q Mx Swmp Cnfr												33															33
X Non Stocked													2														2
O Oak														156													156
B Paper Birch															50												50
R Red Pine													11		756												767
Y Sand Dune																		13									13
F Spruce Fir																			37								37
T Tamarack																					29						29
D Treed Bog																							6				6
M Upland Hdws																									99		99
Z Water																									126		126
W White Pine							4																			127	131
Total	203	70	1	63		8	724		111		23	33	13	156	50	762		13	37		29	6		99	126	127	2654

LAKE SUPERIOR STATE FOREST

NEWBERRY FOREST MGT UNIT

LUCE COUNTY

COMPARTMENT: **17**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5819 Cds	Hardwood	2203 Cds
Hardwood	162 Mbf	Hardwood	4 Mbf
Softwood	15849 Cds	Softwood	2877 Cds
Softwood	4796 Mbf	Softwood	1303 Mbf
Sum TotVol	31584 Cds	Sum CutVol	7694 Cds
Total Cmpnt Acres		Acres Proposed For Cut.....	540
2654		Acres Meeting Silv Criteria.....	1110
		Acres Not Meeting Silv Criteria.....	1544
		Acres Unable to Determine Silv Criteria For.....	

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 17

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
4	R6	16	101	45	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. White birch and black spruce are overstory associates. Black spruce, red maple, oak, red pine and white birch seedlings/saplings present. Red pine sawtimber ranges from 16" to 18" Dbh and many have diminished foliage. Oak diameters average 10" Dbh and primarily coppice clumps. Series of low ridges in stand. Leave all white birch, oak and black spruce. May need to mark an occasional white pine sawlog-sized tree, but most will be retained.</p> <p>Wld : leave all white birch, oak and spruce and most white pine</p>										
11	R7	11	0	53	OTHER NON-STOCKED OR NON-FOREST OR NON-PRODUCTIVE	MATURE	FINAL HARVEST	1		
<p>comnts Fmd : Co Rd 407 ROW. Remove all trees from county right-of-way as road being improved/widened. This ROW will be maintained by county and not be re-vegetated.</p>										
30	R9	74	99	55	RED PINE	TWO AGED	SHELTERWOOD-PREP	1		
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Crowns on many red pine trees seem thin/weak. Series of narrow, seasonal drains within stand. Portion of stand previously thinned; partial data, though. (Sale #19-75: E1/2 NE1/4, completed Summer 1975, removing all spp except R & WP. Salvage thinning of pine, too?) Fir understory is dense and averages 30 ft in height. M3 (soft maple) understory in patches. Bigtooth aspen, red maple, jack pine, trembling aspen, white spruce and beech poles found. Red maple, white birch, fir, white pine, black spruce and trembling aspen regen present. Use appropriate set-back from Trout Creek. Retain oak, hemlock and cedar. May mark white and red pine pole-sized trees if needed. Attempt to retain approximately 50% of large sawlog-sized white pine. Retention will be by area reserve along drains. Incorporate a few aspen, white birch and maple within reserve area. Bridge site to south of stand at Trout creek was improved by F.O.s Gaberdiel and Hill during Fall 2009. Bank work and approaches are complete. Funding being sought for procurement of new bridge to be installed in future. Acceptable regeneration will include, aspen, white pine, red maple, jack pine, white birch, fir, red pine, oak and spruce.</p> <p>Wld : Retain oak, hemlock and cedar. Leve a few maple, birch and aspen in reserve areas. Use appropriate setback along stream to maintain integrity. This stand is likely close enough to an eagle nest and will require harvest timing restrictions and harvest restrictions near the nest.</p>										
31	R9	17	99	53	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Black spruce, red maple and white birch regen present. White birch and white pine are infrequent overstory associates. May mark red pine poles if needed. Leave oak and hemlock. Retention will be by area reserve. Ridges to north.</p> <p>Wld : leave oak and hemlock in the stand and majority of white pine. Try to include some white birch in the retention patches.</p>										
33	R9	20	99	55	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Stand was part of sale #13-73A, FTP #106. Cut in 1973. White birch, jack pine, and white pine are minor overstory associates. Red pine and white birch regen present. Retain white birch, oak and hemlock. Leave white pine unless needed for logging operability.</p> <p>Wld : retain white birch, oak and hemlock</p>										
36	R9	14	99	55	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Utility poles present. White birch, white pine and jack pine poles present. White pine, red pine and white pine regen present. Retain oak, white birch and hemlock. Leave white pine unless needed for logging operability. May mark red poles where desired. Leave some overstory spruce.</p> <p>Wld : leave a few mature spruce and a little understory spruce</p>										
43	R9	73	108	47	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : Thinned in 1993; Sale # 36-92. Thick RP seedlings (2' height) established along old skid trails. F2 is primarily black spruce. White birch, fir, jack pine and cedar poles found. J6 inclusion to south to include in sale. White pine, red maple and white birch regen present. Areas where black spruce and red maple regen is dense. Retain white birch, cedar, hemlock and oak. Favor leaving white pine when marking. Excellent form and height to red pine sawtimber. Steep ridge to SE, against stand 49. ORV trail passes through stand.</p> <p>Wld : retain white birch, cedar, hemlock and oak. Leave some white pine</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 17

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
49	W1	4	6	45	JACK PINE	IMMATURE		0	PLANTING	
<p>comnts Fmd : T. sale # 001-02-1 "7 Mile Jack Pine" cut 5/2003. FTP 42-560 scarified 7/2004. Regeneration count completed 5/14/2007 = 228 t/ac (<12" ht). Re-checked regen success 5/20/2008 = 685t/ac (342 J and W both ~ 2' hts). Steep ridge runs along north edge of stand. Oak poles present. Jack pine regen 1 - 3 ft tall. Pockets of W2 - 1 to 6 ft tall. Residual white and red pine poles/sawtimber = 10 to 50 sq ft. May need supplemental planting of JP?</p> <p>Wld :</p>										
51	R9	30	76	45	RED PINE	TWO AGED	SELECTION	1		
<p>comnts Fmd : Rolling topography. Variable stocking levels. Retain oak and hemlock. Attempt to favor leaving white pine when marking though will select some when desirable. Will remove red pine poles where desirable. Scattered white birch, red maple, oak, hemlock and aspen poles in stand. Jack pine, red pine, black spruce, red maple and fir regen found. Retention will be by area reserve. Incorporate some non-conifer species in reserve area.</p> <p>Wld : retain oak and hemlock where it exists. Leave some non-pine and understory spruce for mid-canopy nesting and feeding birds.</p>										
66	R6	37	101	52	RED PINE	MATURE	SHELTERWOOD-SEED	1		
<p>comnts Fmd : North-facing slope separates this stand from J3 to south. Small wetland pocket to east along slope. Areas of slope will be inoperable - this area plus wetland will form core of a retention patch. ORV trail runs through and along stand edge. F understory is black spruce which is heavier in patches. Use red line placement to leave trees along ORV trail. White pine poles and sawtimber found scattered across site. May mark some white pine. Retain oak and hemlock. Red pine diameters range up to 22 inch dbh. Acceptable regeneration will include red maple, white birch, fir, spruce, jack pine, white pine, red pine, aspen and oak.</p> <p>Wld : retain oak and hemlock in the stand and leave some white pine</p>										
73	R9	10	101	50	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : White birch, white pine, bigtooth aspen and jack pine are infrequent overstory components. Black spruce, red maple, jack pine and fir regen present at low levels. Retain spruce, fir, white birch and aspen. Leave white pine unless needed for logging operability.</p> <p>Wld : retain spruce, fir, white birch and aspen and most white pine.</p>										
74	J0	4	6	52	JACK PINE	IN PROCESS OF REGENERATION		0	PLANTING	
<p>comnts Fmd : Stand harvested as "7 Mile Jack Pine" timber sale. Completed 5/11/04. FTP 42-560 completed 7/2004. Regeneration count completed 5/14/2007 = 171 t/ac (JP <12" ht). Re-checked regen on 5/20/08=342 t/ac (JP = 1' ht). Very infrequent jack pine seedlings found - 2 ft to 4 ft tall. Inadequate stocking in most places so handplant. Random red and white pine poles/sawtimber present. Scarce white pine saplings found.</p>										
80	J0	20	6	50	JACK PINE	IN PROCESS OF REGENERATION		0	PLANTING	
<p>comnts Fmd : Area was cut over in the early 50's when in PVT ownership. Stand was harvested as Muskallonge Jack Pine (006-02-01). Residual red and white left. FTP42-562 completed 7/2004 (south half of stand only). Regeneration count completed 5/14/2007 = 445 t/ac (mix of J,W,R, and A). Stocking level seems inadequate. Jack pine regen ranges from .5 ft to 4 ft tall. Clusters and solitary red pine sawtimber across site. Low levels of white pine, red maple and black spruce regen present. Small patches of bigtooth aspen whips. Some scattered red pine regen. Infrequent white pine, red maple, white birch and oak poles present. Need to handplant jack pine.</p> <p>Wld : Retain red pine, white pine and snags.</p>										
82	A6	10	0	50	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1		
<p>comnts Fmd : Hilly. Stand does not descend steep slope to north. Mark 2/3 of red pine for removal. Retain oak and hemlock. Leave approximately 50% of white pine. Beech, black spruce and fir are infrequent overstory associates. Fir regen present. Retention will be by area reserve. Incorporate a few aspen and maple into reserve area. Stand contains a fair amount of 14 inch Dbh aspen. Acceptable regeneration will be aspen, oak, red maple, white birch, fir, spruce, red pine, jack pine and white pine.</p> <p>Wld : retain the oak and hemlock in the stand. Leave a few aspen, along the edge is oK and leave much of the white pine.</p>										
85	R9	57	0	50	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : Retain oak and hemlock. May mark some white pine sawlogs. Jack pine, red maple, bigtooth aspen and black spruce poles present. Red maple, black spruce and jack pine regen present. Pine Ridge ORV Trail passes through stand. Retention will be by area reserve. Incorporate a few aspen and maple into reserve area.</p> <p>Wld : in addition to leaving oak and hemlock, leave a few aspen and maple</p>										

NEWBERRY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 17

Entry Year: 2012

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
90	J6	6	80	55	RED PINE	MATURE	FINAL HARVEST	1	PLANTING	
<p>comnts Fmd : Remove some red pine. Leave white pine unless needed for harvest operability. Retain oak, aspen, black spruce, red maple, white birch and hemlock. Red maple, fir, black spruce, white pine and white birch regen found. Co Rd 407 forms east boundary of stand. Stand area too small for mechanical scarification. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld :</p>										
91	R9	8	102	45	RED PINE	TWO AGED	SELECTION	1		
<p>comnts Fmd : Co Rd 407 forms east boundary of stand. Retain all white birch, red maple, black spruce, hemlock, aspen and oak. Only mark white pine if needed for harvest operability. Red maple, red pine and black spruce regen found.</p> <p>Wld : retain oak, aspen, spruce, hemlock and maple and birch.</p>										
96	J6	16	76	50	JACK PINE	MATURE	FINAL HARVEST	1	NATURAL REGENERATION	
<p>comnts Fmd : Some rough topography. Pockets of nicer red pine regen - 20 ft tall. Leave oak and hemlock. Remove 50% of white pine. Remove 2/3 of red pine. Oak is infrequent overstory associate. Black spruce, fir and red maple regen present. Retention will be by area reserve. Incorporate some aspen and white birch into reserve area. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld : leave oak and hemlock and some aspen and or birch if present as soft snags in retention areas.</p>										
97	A6	9	110	50	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1		
<p>comnts Fmd : F understory comprised of spruce and fir. White pine, red maple, white birch and beech regen present. Red maple, jack pine, oak, black spruce and hemlock are overstory associates. Retain all oak and hemlock. Leave approximately 10 sq ft of red pine/white pine mix. Retention will be by area reserve. Incorporate some mature aspen into reserve area. Stand contains a fair amount of 14 inch Dbh aspen. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, oak, spruce and fir.</p> <p>Wld : retain all oak and hemlock and leave some mature aspen in red line trees.</p>										
98	R6	14	110	53	RED PINE	IMMATURE	SELECTION	1		
<p>comnts Fmd : Powerline runs along west side of stand. Co Rd 407 runs along east side of stand. Retain oak, red maple, aspen, hemlock, black spruce and white birch. Leave white pine unless needed for harvest operability. Black spruce regen present. Stand also within recreation influence zone - ORV trail passes through. Winter parking area in stand.</p> <p>Wld : retain oak, maple, aspen, hemlock, spruce and birch</p>										
107	J6	12	60	45	JACK PINE	MATURE	FINAL HARVEST	1	NATURAL REGENERATION	
<p>comnts Fmd : Bigtooth aspen and white birch poles present. Leave any oak or hemlock. Mark most red pine sawlogs, though leaving some behind. Leave pole-sized red pine stems unless too tightly spaced. Retain some scattered white birch and aspen. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld : leave any oak and hemlock. Leave a few red pine for nuthatch feeding and some birch and aspen for soft snags.</p>										
112	I5	6	37	50	JACK PINE	IMMATURE		0	CLEANING & WEEDING	
<p>comnts Fmd : Scotch pine ranges from 2" to 6" Dbh. Red pine poles also present. Red maple, red pine, bigtooth aspen and black spruce regen present. Scotch pine is not regenerating in stand. Pine Ridge ORV Trail passes through stand. Wildlife Division may have the funds and personnel available in future to remove scotch pine.</p>										
117	R6	10	80	46	RED PINE	TWO AGED	SELECTION	1		
<p>comnts Fmd : White birch poles present. Mixed aspen regen present. Stand lays between regenerating jack pine to south and thick understory of fir and aspen to north. Leave any oak and hemlock. Retention will be by area reserve. Incorporate some white pine, aspen and maple into reserve area.</p> <p>Wld : leave a few white pine in retention areas and some aspen and maple for snags in retention areas.</p>										
119	R9	24	125	53	RED PINE	MATURE	SELECTION	1		
<p>comnts Fmd : Retain oak and hemlock. Leave most white pine. Retention will be by area reserve. F understory comprised of fir and black spruce.</p> <p>Wld : retain oak and hemlock and most white pine, keep some F understory if possible for mid canopy bird users.</p>										
Total Acres.....		502								

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDI Status
62	A6	72	99	52	ASPEN (UPLAND)	MATURE	FINAL HARVEST	1		

TREATMENT LIMITING FACTORS: Threatened, endangered, and special concern species/communities

comnts Fmd : Stand is a true mixed type. Black spruce and hemlock poles present. Black spruce, fir, white pine and red maple regen found. Mixed softwood category comprised of jack pine, black spruce and white spruce. Pockets of R8 exist. Retain approximately 50% of white pine, including some super-canopy stems . Remove approximately 75% of red pine. Leave all oak, serviceberry, mt. ash, cedar and hemlock. Retention will be by area reserve. Incorporate some mature aspen and white pine in reserve areas. Also include some mature aspen in boundary lines and payment unit lines for additional reserves. Acceptable regeneration will include red maple, white birch, fir, white pine, red pine, jack pine, spruce, oak and aspen.

Wld : this stand will have to follow esgle neat guidelines for harvest and timing restrictions. Leave some healthy supercanopy white pine along edges and in retention areas. Leave mature aspen in red line trees.

Total Acres..... 72

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

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
1	Y 0	Y 0	13			0		sand dunes	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA - North Country Trail and Scenic beach zone influences. Lake Superior shoreline, which fluctuates.														
2	A 3	M 1	6	25	3	0	54	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. North boundary of stand follows base of sharp, inoperable ridge. Terrain within stand is fairly level. A3 dominated by bigtooth aspen. Infrequent white birch, red maple, fir, white pine, oak, white spruce and sugar maple poles/sawlogs found in overstory. Striped maple, oak and black spruce saplings present. Stand originates from sale #37-85.														
3	O 6	O 1	128	106	9	100	54	oak	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Recreational site Scenic values/visual values														
comnts Fmd : SCA designation will be removed over portions of this stand at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. SCA - portion of stand within 2 to 3 chains of the North Country Trail and within 5 chains of Lake Superior beach will be maintained in a SCA for recreation, beach considerations and scenic influences. Stand lies between Lake Superior beach and county road 407. North Country Trail runs through northern portion of stand. Travel and recreation influence zones also present. Terrain consists of a series of low east-west running ridges. High stocking of huckleberry. Many white birch snags. Black spruce is an infrequent overstory member. Red pine, mixed aspen, black spruce, white birch, red maple and fir are infrequent understory associates. White pine saplings are well distributed and locally abundant throughout stand. Regenerating white pine ranges from 6 ft to 20 ft tall. Oak regen ranges from 1 ft to 18 ft tall. Successional trend appears to be dominance by white pine.														
4	R 6	W 1	16	101	10	170	45	red pine	mature	Y	selection	within 0-9 years	1	
comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. White birch and black spruce are overstory associates. Black spruce, red maple, oak, red pine and white birch seedlings/saplings present. Red pine sawtimber ranges from 16" to 18" Dbh and many have diminished foliage. Oak diameters average 10" Dbh and primarily coppice clumps. Series of low ridges in stand. Leave all white birch, oak and black spruce. May need to mark an occasional white pine sawlog-sized tree, but most will be retained. Wld : leave all white birch, oak and spruce and most white pine														
5	F 2	X 0	2	16	2	0	52	spruce-fir (uplands-including upland black spruce)	immature	N		40-49 years	0	
comnts Fmd : Stand originated from cutting of Sale #9-92. Fir ranges from 8 to 20 feet tall. Black spruce, red pine, tamarack, white pine, aspen, jack pine and red maple regen present.														
6	Q 6	F 2	6	101	10	130	45	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too steep Scenic values/visual values Influence zones														
comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand borders Muskallonge Lake. Muskallonge Lake forms north boundary. Steep embankment to south and private land and cabin to west.														
7	A 3	M 1	14	25	2	0	54	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Bigtooth aspen dominates the overstory. Aspen ranges from 24 ft to 30 ft tall. Terrain is a series of ridges and flats. White birch, red maple, white pine, jack pine, fir and oak regen are present. White pine, jack pine, fir, red pine, oak, bigtooth aspen and red maple poles/sawtimber are occasional overstory associates.														

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

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
8	L 0	L 0	4			0	54	lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA - steep banks and wetland considerations. Intermittent drainage which extends to across Co Rd 407 - deep cut slopes on both sides of ravine. Tag alder, oak saplings, fir saplings and red maple saplings found.														
9	M 6	F 2	15	106	9	110	54	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too steep Recreational site Scenic values/visual values														
comnts Fmd : SCA - recreation and scenic influences. Rugged, difficult terrain severely limits operation of logging equipment. Red pine, white spruce, yellow birch and white pine are infrequent overstory associates. Striped maple, red maple, fir, oak and white pine saplings present. Some small patches of M2/F2. North Country Trail passes through stand.														
10	M 6	M 2	28		11	130	58	northern hardwood	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Recreational site Scenic values/visual values														
comnts Fmd : SCA - recreation and scenic considerations. North Country Trail runs through stand. Co Rd 407 forms south boundary of stand. Mixed hardwood pulp category comprised of white birch and red oak. M2 consists of primarily striped maple. Fir and striped maple form a fairly dense midstory. Patches of M3/F3 midstory. Old borrow pit along county road. Level terrain. Poor form and quality in majority of red maple sawlogs. Excellent form and quality to many of the red oak sawlogs. Some of the red oak are between 26" and 28" Dbh. Some beech sawlog snags. Hemlock, oak, white spruce and red maple regen found. White pine, bigtooth aspen and sugar maple are infrequent overstory associates.														
11	R 7	X 0	11		10	30	53	other non-stocked or non-forest or non-productive	mature	N	final harvest	within 0-9 years	1	
comnts Fmd : Co Rd 407 ROW. Remove all trees from county right-of-way as road being improved/widened. This ROW will be maintained by county and not be re-vegetated.														
12	C 6	F 2	63	144	11	170	30	cedar	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Stand situated between Co Rd 407, Muskallonge Lake and Cranberry Lake. Markey and Carbondale soils, indicate severe equipment limitations. Wet ground - interlaced lowland channels throughout stand. Very poor form to cedar. Cedar regeneration is prevalent throughout stand, and locally quite dense. Cedar regen ranges from 3 ft to 20 ft tall. Very scarce Canada yew and mountain ash. Outflow stream from Cranberry Lake connects to Muskallonge Lake. Stream is approximately 10 feet wide. White spruce and tamarack poles are infrequent overstory associates. Tag alder, black spruce, fir and white birch saplings found in understory.														
13	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
<hr/>														
14	L 0	L 0	52			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA - wetland complex around Mud, Cranberry and Muskallonge Lakes. Lot of willow. Stand is approximately 40-50% open with marsh grass.														

Stand	Cover Type-Size 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								
15	R 6	W 2	3	101	11	120	45	red pine	old growth (potential or actual)	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Scenic values/visual values Water quality/bmps</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Stand located along Co Rd 407. Infrequent red maple, bigtooth aspen and cedar poles found. Oak also in overstory. Oak, white pine, black spruce and cedar regen present. Stand within water influence zone.</p>														
16	O 6	O 1	1	101	10	80	45	oak	old growth (potential or actual)	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Scenic values/visual values Influence zones</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Oak poles in clumps. Jack pine and red maple are infrequent overstory associates. White pine, red pine, black spruce and white birch saplings present. Heavier white pine regen in patches. Oak regeneration ranges between 1 ft and 12 ft tall.</p>														
17	T 5	L 0	29	144	6	50	30	tamarack	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too wet Water quality/bmps Inadequate volume due to low stocking/small diameter/etc.</p> <p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Markey and Carbondale soils. Thick tamarack regeneration, in places.</p>														
18	O 6	O 2	27	106	10	130	54	oak	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep Scenic values/visual values Influence zones</p> <p>comnts Fmd : SCA - scenic, steep terrain and adjacent wetland considerations. Part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Trembling aspen, bigtooth aspen, black spruce, balsam fir and hemlock are infrequent overstory associates. Steep, long slopes and knife-backed ridges transect stand. Many white birch snags. Oak sawtimber ranges from 14 inch Dbh up to 24 inches Dbh. Red pine sawtimber ranges from 16 inch Dbh to 22 inch Dbh. Areas with heavy oak regeneration, ranging from 1 ft to 20 ft tall. Black spruce, red maple, white birch, red pine and white pine regeneration present. Fir forms a midstory in some patches. Stand situated between Mud Lake and Co Rd 407. Very mixed composition.</p>														
19	Z 0	Z 0	26			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Mud Lake. Large expanses of mudflats with a central pond area.</p>														
20	M 3	F 1	4	25	2	0	55	northern hardwood	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Stand lies between Mud Lake and wetland to west.</p>														
21	Z 0	Z 0	91			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Cranberry Lake. Lake level is at normal stage unlike Mud Lake and Muskallonge Lake which are very low.</p>														

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							
22	R 8	J 2	53	99	14	60	53	red pine	two aged	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Vigorous subcanopy of jack pine, white pine and red pine saplings. Black spruce, red maple and white birch saplings are present. Scattered patches of less dense overstory. White pine, oak and white birch are infrequent overstory associates. Too many submerchantable mixed pine stems to operate in.</p>														
23	R 9	W 1	42	99	16	180	53	red pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. High quality red pine boles. Ridges. Red maple, red pine and jack pine regen present. Infrequent black spruce poles found.</p>														
24	B 5	A 2	6	38	8	40	50	paper birch	two aged	N		20-29 years	0	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Mixed stand composition. Nice mixed pine regeneration. Stand will transition to a mixed pine/aspens stand. A2 = trembling aspen. Red pine, white pine, red maple and jack pine regen is present. Fir, red maple, white pine, red pine and bigtooth aspen poles present.</p>														
25	J 6	R 1	13	38	6	110	50	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Red maple, white pine and white birch regen present. White pine and white birch are infrequent overstory associates. Low hills.</p>														
26	R 9	W 1	32	99	16	100	53	red pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Low hills. Very nice mixed pine regen well established. Mixed hardwood category comprised of trembling aspen and red maple. White pine and bigtooth aspen are infrequent overstory associates. Black spruce, red maple, white birch and red pine regen found.</p>														
27	B 6	W 1	25	79	8	80	48	paper birch	mature	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Steep ridge along most of perimeter. About 50% of white birch dead. Fir poles present. Red maple, red pine, black spruce and fir regen found.</p>														
28	M 6	F 2	23	90	9	150	50	northern hardwood	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep</p> <p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Very steep, razor-backed ridges in stand. Red pine is an infrequent overstory associate. Hemlock, red maple and striped maple regen present. Higher percentage of overstory red maple found in north portion of stand.</p>														
29	L 0	L 0	6			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Stand situated along west edge of Cranberry Lake.</p>														

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

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

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							
30	R 9	F 3	74	99	18	100	55	red pine	two aged	Y	shelterwood-prep	within 0-9 years	1	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Crowns on many red pine trees seem thin/weak. Series of narrow, seasonal drains within stand. Portion of stand previously thinned; partial data, though. (Sale #19-75: E1/2 NE1/4, completed Summer 1975, removing all spp except R & WP. Salvage thinning of pine, too?) Fir understory is dense and averages 30 ft in height. M3 (soft maple) understory in patches. Bigtooth aspen, red maple, jack pine, trembling aspen, white spruce and beech poles found. Red maple, white birch, fir, white pine, black spruce and trembling aspen regen present. Use appropriate set-back from Trout Creek. Retain oak, hemlock and cedar. May mark white and red pine pole-sized trees if needed. Attempt to retain approximately 50% of large sawlog-sized white pine. Retention will be by area reserve along drains. Incorporate a few aspen, white birch and maple within reserve area. Bridge site to south of stand at Trout creek was improved by F.O.s Gaberdiel and Hill during Fall 2009. Bank work and approaches are complete. Funding being sought for procurement of new bridge to be installed in future. Acceptable regeneration will include, aspen, white pine, red maple, jack pine, white birch, fir, red pine, oak and spruce.</p> <p>Wld : Retain oak, hemlock and cedar. Leve a few maple, birch and aspen in reserve areas. Use appropriate setback along stream to maintain integrity. This stand is likely close enough to an eagle nest and will require harvest timing restrictions and harvest restrictions near the nest.</p>														
31	R 9	W 1	17	99	18	130	53	red pine	mature	Y	selection	within 0-9 years	1	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Black spruce, red maple and white birch regen present. White birch and white pine are infrequent overstory associates. May mark red pine poles if needed. Leave oak and hemlock. Retention will be by area reserve. Ridges to north.</p> <p>Wld : leave oak and hemlock in the stand and majority of white pine. Try to include some white birch in the retention patches.</p>														
32	J 6	R 1	76	34	6	80	50	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Area was seeded in Spring, 1976. Sale #13-73A; FTP #106? Jack pine ranges from 30 to 34 feet tall. Most jack pine sticks contain 1.5 sticks. Patches with concentrated black spruce regen. Higher ridge in stand. Random white pine poles and sawlogs found. White birch, black spruce, red maple, jack pine and white pine regen present. Red pine regen ranges from 5 to 16 ft tall.</p>														
33	R 9	F 1	20	99	14	180	55	red pine	mature	Y	selection	within 0-9 years	1	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Stand was part of sale #13-73A, FTP #106. Cut in 1973. White birch, jack pine, and white pine are minor overstory associates. Red pine and white birch regen present. Retain white birch, oak and hemlock. Leave white pine unless needed for logging operability.</p> <p>Wld : retain white birch, oak and hemlock</p>														
34	J 6	F 1	21	44	7	100	50	jack pine	immature	N		10-19 years	0	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Red pine, black spruce and white birch are minor overstory associates. White pine, white birch, black spruce and red maple regen present.</p>														
35	R 9	J 1	51	44	16	90	50	red pine	mature	N		10-19 years	0	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Rolling terrain. Patches of J2 understory - 2" to 3" Dbh. Small openings. Submerchantable jack pine - 5" Dbh. Most red pine canopies vigorous. White birch, red maple, red pine, white pine and bigtooth aspen regen present. White pine and white birch are infrequent overstory associates.</p>														
36	R 9	F 1	14	99	16	130	55	red pine	mature	Y	selection	within 0-9 years	1	
<p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Utility poles present. White birch, white pine and jack pine poles present. White pine, red pine and white pine regen present. Retain oak, white birch and hemlock. Leave white pine unless needed for logging operability. May mark red poles where desired. Leave some overstory spruce.</p> <p>Wld : leave a few mature spruce and a little understory spruce</p>														

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	Tot. BA								
37	D 0	D 0	2			0		treed bog	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives.														
38	J 6	F 1	32	44	5	100	50	jack pine	immature	N		10-19 years	0	
comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Some pockets of lowground. Patches of J3. White pine and bigtooth aspen are infrequent overstory associates. White birch and red pine regen present.														
39	Q 6	Q 2	4	109	6	80	47	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
Treatment Limiting Factors: Too wet Water quality/bmps Inadequate volume due to small acreage														
comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand is part of large wetland complex, including Trout Lake. Stand borders Trout Creek and Trout Lake.														
40	L 0	L 0	37			0	47	lowland brush	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand is part of Mud, Cranberry and Muskallonge wetland complex. Stand contains Trout Creek. Local FMD fire officers prepared new bridge crossing site at Section 10 and 11 boundary, Fall 2009. Funding is being sought to provide for placing and/or constructing new bridge. Actual crossing is barricaded.														
41	Z 0	Z 0	5			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Trout Lake. Water level normal.														
42	S 6	S 2	38	57	6	70	33	black spruce-swamp	immature	N		20-29 years	0	
comnts Fmd : Mix of low and high ground. Higher density of jack pine, red pine and white pine on upland. Mixed softwood category comprised of red and white pine. White birch, red maple, jack pine, red pine, fir and cedar regen present. Fir poles present.														
43	R 9	F 2	73	108	16	160	47	red pine	mature	Y	selection	within 0-9 years	1	
comnts Fmd : Thinned in 1993; Sale # 36-92. Thick RP seedlings (2' height) established along old skid trails. F2 is primarily black spruce. White birch, fir, jack pine and cedar poles found. J6 inclusion to south to include in sale. White pine, red maple and white birch regen present. Areas where black spruce and red maple regen is dense. Retain white birch, cedar, hemlock and oak. Favor leaving white pine when marking. Excellent form and height to red pine sawtimber. Steep ridge to SE, against stand 49. ORV trail passes through stand. Wld : retain white birch, cedar, hemlock and oak. Leave some white pine														
44	W 6	M 2	19		7	80	50	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Mixed overstory composition and variable understory. Red maple, jack pine, mixed aspen, white birch, fir and white spruce poles present. Aspen, black spruce and white pine regen present. Mixed softwood pulp comprised of red and white pine. ORV trail runs through stand. Water influence zone.														
45	J 3	J 3	19	31	3	0	45	jack pine	immature	N		40-49 years	0	
comnts Fmd : Natural regen, approximately 34 ft tall. Fair amount of aspen and black spruce regen within northwest corner of stand. Scattered red and white pine poles/sawtimber present.														

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

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

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
					D	Tot. BA								
46	R 9	F 1	21	108	16	80	53	red pine	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Stand harvested as Trout Creek Red Pine (026-02-01). Completed 08/12/05. White pine and white birch poles present. White pine, black spruce, red maple, red pine and jack pine regen present. F understory comprised of black spruce.</p> <p>Wld :</p>														
47	S 6	S 2	8	85	8	110	43	black spruce-swamp	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Blocked by other physical obstacle Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Steep, inoperable ridges form west and south perimeter. Patches of purer black spruce. White birch poles found. White pine, tamarack and red maple regen present.</p>														
48	D 4	D 1	4		4	30		treed bog	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Jack pine stocking higher than black spruce count in overstory. Black spruce, jack pine, tamarack and white pine regen found.</p>														
49	W 1	J 1	4	6		0	45	jack pine	immature	N		within 0-9 years	0	planting
<p>comnts Fmd : T. sale # 001-02-1 "7 Mile Jack Pine" cut 5/2003. FTP 42-560 scarified 7/2004. Regeneration count completed 5/14/2007 = 228 t/ac (<12" ht). Re-checked regen success 5/20/2008 = 685t/ac (342 J and W both ~ 2' hts). Steep ridge runs along north edge of stand. Oak poles present. Jack pine regen 1 - 3 ft tall. Pockets of W2 - 1 to 6 ft tall. Residual white and red pine poles/sawtimber = 10 to 50 sq ft. May need supplemental planting of JP?</p> <p>Wld :</p>														
50	J 6	J 1	6	36	5	80	45	jack pine	immature	N		10-19 years	0	
<p>comnts Fmd : 2-0 JP planted Spring, 1976. Jack pine comprised of two age groups. Scattered 3 stick 10 inch Dbh jack pine cohort arising before planting, and 1/2/ to 1 stick 4" Dbh cohort originating from planting. White pine, oak and white birch overstory associates. White pine, red pine and black spruce regen present. Steep east-west ridge along north edge of stand.</p>														
51	R 9	W 1	30	76	16	110	45	red pine	two aged	N	selection	within 0-9 years	1	
<p>comnts Fmd : Rolling topography. Variable stocking levels. Retain oak and hemlock. Attempt to favor leaving white pine when marking though will select some when desirable. Will remove red pine poles where desirable. Scattered white birch, red maple, oak, hemlock and aspen poles in stand. Jack pine, red pine, black spruce, red maple and fir regen found. Retention will be by area reserve. Incorporate some non-conifer species in reserve area.</p> <p>Wld : retain oak and hemlock where it exists. Leave some non-pine and understory spruce for mid-canopy nesting and feeding birds.</p>														
52	H 6	W 1	8	101	10	100	40	hemlock	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep</p> <p>comnts Fmd : SCA designation will be added to west portion of stand at 2012 Compartment Review as stand is part of Trout Lake wetland complex. West 1/2 of stand will be considered part of the SCA. Stand lies upon very steep, long east-west oriented ridge above Trout Lake. Stand transitions into more of a mixed pine stand to east. Aspen and fir poles also present. Cedar, fir and red maple regen found.</p>														
53	J 3	X 0	3	31	4	0	46	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Jack pine 26 ft to 28 ft tall. Red pine and white pine poles/sawtimber found scattered about stand. Limited red maple and white pine regen found. FTP # 42-171: stand was scarified.</p>														
54	J 6	J 1	2	42	6	70	45	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though. Gaps in stocking. Oak, fir, white birch, red pine and white pine are infrequent overstory associates. Red maple and red pine regen is present.</p>														

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								
55	J 3	X 0	3	31	3	0	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine 26 ft to 30 ft tall. Dense stocking. Scattered red pine sawlogs present. Red pine regen found. FTP # 42-171: stand was scarified.														
56	J 6	J 1	3	41	5	80	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : White birch, oak, aspen and white pine are minor overstory associates. White pine and red maple regen found. Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though.														
57	J 3	X 0	3	31	3	0	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine are 26 to 30 ft tall. Terrain is gently rolling. Dense stocking level. Widely scattered red pine sawlogs found. FTP # 42-171: stand was scarified.														
58	J 6	J 1	3	42	6	80	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : Some holes in stocking. Rolling terrain. Small patch of R6 near south firelane. Scarce red pine sawtimber found. Red maple and red pine regen present. Stand was cut sometime in the late 50's - early 60's (sale #19-62?); records are poor, though.														
59	J 3	X 0	37	31	3	0	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine 24 ft to 30 ft tall, though trees shorter to SE. Scattered red pine, white pine, white birch, oak and red maple poles/sawtimber present. White birch, white pine, red maple, black spruce, fir, oak and red maple saplings found. FTP # 42-171: stand was scarified.														
60	W 6	W 2	5	108	11	180	47	white pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage Delayed treatment for age/size class diversity														
comnts Fmd : Rolling terrain. White pine saplings are 6 ft to 14 ft tall. Stand crosses into compartment to west. White birch and red maple poles are minor overstory associates. Red maple and black spruce saplings present.														
61	Q 6	S 2	23	114	7	210	46	mixed swamp conifer	old growth (potential or actual)	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Too wet Water quality/bmps														
comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand is part of Mud, Cranberry and Muskallonge wetland complex. Stand borders Trout Creek. Cedar stocking increases in certain areas. White birch poles present. Cedar, fir and red maple regen found. Stand borders Trout Creek. Equipment limitations due to soft, mucky soil. Ground cover is predominately labrador tea - wet!														
62	A 6	M 2	72	99	10	130	52	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<u>Treatment Limiting Factors:</u> Threatened, endangered, and special concern species/communities														
comnts Fmd : Stand is a true mixed type. Black spruce and hemlock poles present. Black spruce, fir, white pine and red maple regen found. Mixed softwood category comprised of jack pine, black spruce and white spruce. Pockets of R8 exist. Retain approximately 50% of white pine, including some super-canopy stems . Remove approximately 75% of red pine. Leave all oak, serviceberry, mt. ash, cedar and hemlock. Retention will be by area reserve. Incorporate some mature aspen and white pine in reserve areas. Also include some mature aspen in boundary lines and payment unit lines for additional reserves. Acceptable regeneration will include red maple, white birch, fir, white pine, red pine, jack pine, spruce, oak and aspen. Wld : this stand will have to follow esgle neat guidelines for harvest and timing restrictions. Leave some healthy supercanopy white pine along edges and in retention areas. Leave mature aspen in red line trees.														
63	A 3	A 3	58	6	2	0	52	aspen (upland)	two aged	N		60-69 years	0	
comnts Fmd : Stand harvested as "Muskallonge Aspen" (005-02-01). Completed 11/01/04. Aspen very dense in areas with red maple component, while in other areas red maple dominates with a lesser component of aspen. Regen layer ranges from 5 to 20 feet tall. Patches of R7 and R8 residual. Red pine sawlogs average 20 inch Dbh. Trembling aspen, black spruce, fir and white pine are infrequent in residual canopy layer. Both bigtooth and trembling regen present. White pine, fir and black spruce regen present. ORV trail passes through stand. Wld :														

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							
64	J 5	J 1	30	35	5	60	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : Cut in 1973-74; sale #12-73A. Red maple, bigtooth aspen and red pine regen present. White birch, white pine and bigtooth aspen are infrequent overstory associates.														
65	J 3	X 0	41	24	4	0	45	jack pine	immature	N		30-39 years	0	
comnts Fmd : Jack pine are around 32 feet tall. Scattered white pine, black spruce, red pine and jack pine poles present. Some infrequent red pine sawlogs. Sparse red maple saplings in understory. Sale #71-84 and FTP #42-199. ORV trail passes through stand.														
66	R 6	F 1	37	101	11	110	52	red pine	mature	Y	shelterwood-seed	within 0-9 years	1	
comnts Fmd : North-facing slope separates this stand from J3 to south. Small wetland pocket to east along slope. Areas of slope will be inoperable - this area plus wetland will form core of a retention patch. ORV trail runs through and along stand edge. F understory is black spruce which is heavier in patches. Use red line placement to leave trees along ORV trail. White pine poles and sawtimber found scattered across site. May mark some white pine. Retain oak and hemlock. Red pine diameters range up to 22 inch dbh. Acceptable regeneration will include red maple, white birch, fir, spruce, jack pine, white pine, red pine, aspen and oak. Wld : retain oak and hem,ock in the stand and leabe some white pine														
67	J 3	X 0	64	31	3	0	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : FTP #42-24 (comment: "1,000 trees/ac - 55% stocked"). Jack pine ranges from 30 to 32 ft tall. Some JP stems transitioning into small poles. Random red and white pine sawlogs retained. Trembling aspen, red pine, black spruce and white birch regen present. Stand fully stocked. ORV trail passes through stand.														
68	R 9	F 1	7	101	16	130	53	red pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Stand harvested as "Trout Creek Red Pine" (026-02-01). Completed 08/12/05. FTP = C42-577. Areas with lower stocking. Next cut will be to establish regeneration and proper overstory density. Red pine, white pine, jack pine, red maple, black spruce and white birch regen present. High quality timber. Infrequent white birch poles.														
69	R 9	F 2	10		18	80	53	red pine	unevenaged	N		10-19 years	0	
comnts Fmd : Varying stocking levels - small patches of F2/A1 and higher BA R9. ORV trail passes through stand. Jack pine, white birch, white pine, black spruce, trembling aspen and red maple poles are infrequent overstory associates. Fir, black spruce, red maple, jack pine and white pine regen present. Areas with A1/M2 understory.														
70	A 2	M 1	17	16	3	0	52	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Poor to moderate aspen stocking. Majority of stems are trembling aspen with sporadic bigtooth stocking. Aspen is about 24 feet tall. Many 4 to 6 ft tall soft maple saplings. White pine, red pine, black spruce, fir and jack pine regen are present. Random white pine poles scattered across site. Stand originated from cutting of Sale #9-92.														
71	R 9	F 2	9	101	14	120	50	red pine	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Inadequate volume due to small acreage Delayed treatment for age/size class diversity														
comnts Fmd : Midst of large black spruce saplings. Random black spruce poles present. Jack pine saplings found. Need to allow jack pine poles to increase in ht and diameter.														
72	J 4	J 2	61	36	5	10	55	jack pine	immature	N		20-29 years	0	
comnts Fmd : Stand cut in 1972. FTP # 93; Planted Spring, 1976: 2-0 JP. Jack pine is approximately 24 to 30 feet tall. Rows run north-south. Sporadic black spruce poles present. Infrequent red and white pine sawlogs found. Scarce white birch regen.														
73	R 9	W 1	10	101	16	140	50	red pine	mature	Y	selection	within 0-9 years	1	
comnts Fmd : White birch, white pine, bigtooth aspen and jack pine are infrequent overstory components. Black spruce, red maple, jack pine and fir regen present at low levels. Retain spruce, fir, white birch and aspen. Leave white pine unless needed for logging operability. Wld : retain spruce, fir, white birch and aspen and most white pine.														

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

Stand	Cover Type-Size 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								
74	J 0	J 0	4	6	0	10	52	jack pine	in process of regeneration	N		within 0-9 years	0	planting
comnts Fmd : Stand harvested as "7 Mile Jack Pine" timber sale. Completed 5/11/04. FTP 42-560 completed 7/2004. Regeneration count completed 5/14/2007 = 171 t/ac (JP <12" ht). Re-checked regen on 5/20/08=342 t/ac (JP = 1' ht). Very infrequent jack pine seedlings found - 2 ft to 4 ft tall. Inadequate stocking in most places so handplant. Random red and white pine poles/sawtimber present. Scarce white pine saplings found.														
75	J 3	X 0	36	33	5	0	45	jack pine	immature	N		20-29 years	0	
comnts Fmd : Stand was cut in 1974 w/stand in section 14 ; sale #13-74. Planted in Spring, 1979 with 2-0 JP. Jack pine is approximately 30 to 34 feet tall. Rows run north-south. Scattered red pine poles and sawlogs throughout stand. Sporadic fir and red pine regeneration present. Stand development in transition between J3 and J4/J2.														
76	N 0	N 0	9			0		marsh	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand borders Muskallonge Lake. Stand is approximately 90% openland. Very dry. Sweet gale and tag alder fringe. Cedar, tamarack, red maple, white birch, white spruce, jack pine and white pine poles infrequent components.														
77	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Dry.														
78	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Dry.														
79	W 9	F 2	26	102	16	140	43	white pine	two aged	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Blocked by other physical obstacle Influence zones Delayed treatment for age/size class diversity														
comnts Fmd : Fir and black spruce regen approximately 16 to 24 ft tall. Steep ridge along south edge of stand - will not be able to operate on certain portions. Follow BMP guidelines when determining set-back from Muskallonge Lake wetlands when determining exterior sale boundary. Retention will be by area reserve. Red maple and cedar poles found in stand. White pine, red pine, white birch and red maple regen present. Leave all hemlock, oak and cedar.														
80	J 0	X 0	20	6	0	0	50	jack pine	in process of regeneration	N		within 0-9 years	0	planting
comnts Fmd : Area was cut over in the early 50's when in PVT ownership. Stand was harvested as Muskallonge Jack Pine (006-02-01). Residual red and white left. FTP42-562 completed 7/2004 (south half of stand only). Regeneration count completed 5/14/2007 = 445 t/ac (mix of J,W,R, and A). Stocking level seems inadequate. Jack pine regen ranges from .5 ft to 4 ft tall. Clusters and solitary red pine sawtimber across site. Low levels of white pine, red maple and black spruce regen present. Small patches of bigtooth aspen whips. Some scattered red pine regen. Infrequent white pine, red maple, white birch and oak poles present. Need to handplant jack pine.														
Wld : Retain red pine, white pine and snags.														
81	W 6	F 1	70	57	10	160	50	white pine	immature	N		10-19 years	0	
comnts Fmd : Infrequent overstory associates include oak, white birch, bigtooth aspen, fir and red maple. Weak, sparse crowns on portion of 30/2. Jack pine poles will not deteriorate over next 10 years. Most fir poles have died out and heavy fir regen filling in these pockets. Stand was previously in private ownership.														

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

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								
82	A 6	W 1	10	11	160	50	aspen (upland)	mature	N	final harvest	within 0-9 years	1		
<p>comnts Fmd : Hilly. Stand does not descend steep slope to north. Mark 2/3 of red pine for removal. Retain oak and hemlock. Leave approximately 50% of white pine. Beech, black spruce and fir are infrequent overstory associates. Fir regen present. Retention will be by area reserve. Incorporate a few aspen and maple into reserve area. Stand contains a fair amount of 14 inch Dbh aspen. Acceptable regeneration will be aspen, oak, red maple, white birch, fir, spruce, red pine, jack pine and white pine.</p> <p>Wld : retain the oak and hemlock in the stand. Leave a few aspen, along the edge is oK and leave much of the white pine.</p>														
83	M 6	M 2	29	9	100	45	northern hardwood	old growth (potential or actual)	N		not scheduled	0		
<p><u>Treatment Limiting Factors:</u> Too steep Scenic values/visual values Influence zones</p> <p>comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand borders Muskallonge Lake. Note from 2000 = Lake level has receded by 23'. Lake level is lower still in 2010 - 66 ft to 100 ft below high water mark. Stand runs from stepp south ridgeline down to Muskallonge Lake. Stand shifts from more of a B6 to west to a pine system to east to a soft maple type to south. Aspen and red maple in understory is dominant. White spruce and hemlock are infrequent overstory associates. Hemlock, oak, yellow birch, black spruce, tag alder, beech and white pine regen found. Steep, inoperable ridgeline along south boundary.</p>														
84	B 6	F 1	8	102	8	120	48	paper birch	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep</p> <p>comnts Fmd : SCA designation will be removed at 2012 Compartment Review as management within the general state forest designation provides for meeting all objectives. Mixed birch/oak/aspen type. Steep terrain. Red oak, red maple, white pine, fir and black spruce regen present. Stand also in travel influence zone. Very steep slope along L type to north. North Country Trail passes through east side of stand.</p>														
85	R 9	W 1	57	16	150	50	red pine	mature	N	selection	within 0-9 years	1		
<p>comnts Fmd : Retain oak and hemlock. May mark some white pine sawlogs. Jack pine, red maple, bigtooth aspen and black spruce poles present. Red maple, black spruce and jack pine regen present. Pine Ridge ORV Trail passes through stand. Retention will be by area reserve. Incorporate a few aspen and maple into reserve area.</p> <p>Wld : in addition to leaving oak and hemlock, leabe a few aspen and maple</p>														
86	J 6	J 1	51	37	6	80	50	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : Residual red pine sawlogs average about 10 sq. ft. per plot, with clumps of R8. Patches of mixed jack pine/red pine/white pine regen. Jack pine saplings range from 30 to 34 ft tall. Mosaic of large jack pine saplings and small poles. Widely scattered white pine sawlogs and poles. Oak poles present. Red maple, black spruce and fir regen found. ORV trail passes through stand.</p>														
87	V 0	V 0	1			0	bog or muskeg	nonstocked	N			not scheduled	0	
<p>comnts Fmd : Sporadic leatherleaf and bog rosemary. Pitcher plants are very abundant. Sparse jack pine and black spruce saplings found - average Dbh = 2". Low hill around perimeter of stand.</p>														
88	R 9	M 1	39	101	14	100	53	red pine	mature	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Pine Ridge ORV trail runs through stand. Stand harvested as "Muskallonge Red Pine" (027-02-01). Completed 07/29/05. Higher stocking of red pine to north. Patches of A2 (bigtooth, 6 ft to 16 ft tall) understory to southeast. Red maple, white pine, black spruce, red pine and jack pine regen present. White birch is infrequent overstory member.</p> <p>Wld :</p>														
89	J 6	R 1	16	47	8	100	45	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : White pine, red maple and bigtooth aspen are uncommon overstory associates.</p>														

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							
90	J 6	R 1	6	80	9	140	55	red pine	mature	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : Remove some red pine. Leave white pine unless needed for harvest operability. Retain oak, aspen, black spruce, red maple, white birch and hemlock. Red maple, fir, black spruce, white pine and white birch regen found. Co Rd 407 forms east boundary of stand. Stand area too small for mechanical scarification. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld :</p>														
91	R 9	W 1	8	102	16	110	45	red pine	two aged	Y	selection	within 0-9 years	1	
<p>comnts Fmd : Co Rd 407 forms east boundary of stand. Retain all white birch, red maple, black spruce, hemlock, aspen and oak. Only mark white pine if needed for harvest operability. Red maple, red pine and black spruce regen found.</p> <p>Wld : retain oak, aspen, spruce, hemlock and maple and birch.</p>														
92	R 9	W 1	50	87	12	70	43	red pine	mature	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc. Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Some nice pockets of heavier white pine regen, 6 to 12 ft tall. Red pine, white birch, bigtooth aspen, jack pine and red maple regen present. Heavier patches of aspen regen to west. White birch, black spruce, jack pine, hemlock and oak poles found. Stocking is thinner to east. Stand harvested as "Muskallouge Red Pine" (027-02-01). Harvest completed 07/29/05. Pine Ridge ORV Trail passes through stand.</p> <p>Wld :</p>														
93	J 4	J 2	16	33	5	30	50	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : Planted Spring, 1979 w/ 2-0 JP. JP averages 24-30 ft tall. Rows run north-south. Small patches of 10 to 12 inch Dbh red pine. White birch poles found. Red maple, red pine, white pine and black spruce regen present. Stocking acceptable.</p>														
94	A 5	F 1	13	47	8	60	45	aspen (upland)	old growth (potential or actual)	N		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep Potential or designated old growth Influence zones</p> <p>comnts Fmd : SCA designation will be added at 2012 Compartment Review as stand is part of Mud, Cranberry and Muskallouge wetland complex. Stand borders Trout Creek. Muskallouge Lake forms north boundary. Trout Creek riparian zone forms west boundary. Private ownership forms east boundary.</p>														
95	J 6	W 1	66	36	6	80	53	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : White pine, black spruce, red maple and white birch are infrequent overstory associates. Red pine, white pine, black spruce and white birch regen present. North-south running rows throughout southeast portion of stand, rest natural origin. ORV trail passes through stand.</p>														
96	J 6	W 1	16	76	10	80	50	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Some rough topography. Pockets of nicer red pine regen - 20 ft tall. Leave oak and hemlock. Remove 50% of white pine. Remove 2/3 of red pine. Oak is infrequent overstory associate. Black spruce, fir and red maple regen present. Retention will be by area reserve. Incorporate some aspen and white birch into reserve area. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld : leave oak and hemlock and some aspen and or birch if present as soft snags in retention areas.</p>														
97	A 6	F 2	9	110	11	160	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : F understory comprised of spruce and fir. White pine, red maple, white birch and beech regen present. Red maple, jack pine, oak, black spruce and hemlock are overstory associates. Retain all oak and hemlock. Leave approximately 10 sq ft of red pine/white pine mix. Retention will be by area reserve. Incorporate some mature aspen into reserve area. Stand contains a fair amount of 14 inch Dbh aspen. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, oak, spruce and fir.</p> <p>Wld : retain all oak and hemlock and leave some mature aspen in red line trees.</p>														

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

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

S t a n d	Cover Type- Size Dnsty	Under Story- Stkng Level	A c r e s	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
98	R 6	W 1	14	110	10	100	53	red pine	immature	Y	selection	within 0-9 years	1	
<p>comnts Fmd : Powerline runs along west side of stand. Co Rd 407 runs along east side of stand. Retain oak, red maple, aspen, hemlock, black spruce and white birch. Leave white pine unless needed for harvest operability. Black spruce regen present. Stand also within recreation influence zone - ORV trail passes through. Winter parking area in stand.</p> <p>Wld : retain oak, maple, aspen, hemlock, spruce and birch</p>														
99	X 0	X 0	1			0	53	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : CO RD 407 ROW.</p>														
100	X 0	X 0	1			0	53	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : CO RD 407 ROW.</p>														
101	F 6	F 2	35	144	6	100	30	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep Influence zones</p> <p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Stand is situated between Cranberry Lake, Muskallonge Lake and Trout Creek. White spruce, red maple, white birch, cedar, jack pine, tamarack and red pine are overstory associates.</p>														
102	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Dry.</p>														
103	L 0	L 0	7			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Borders Cranberry Lake.</p>														
104	R 8	W 1	32	6	14	50	50	red pine	two aged	N		20-29 years	0	
<p>comnts Fmd : Area was cut over in the early 50's when in PVT ownership. Stand was harvested as Muskallonge Jack Pine (006-02-01). Clusters and solitary red pine sawtimber across site. Low levels of red maple and red pine regen present. Small patches of bigtooth aspen whips. Infrequent white pine and oak poles present.</p> <p>Wld :</p>														
105	J 3	J 1	6	36	3	0	45	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : 2-0 JP planted Spring, 1976. Jack pine approximately 28 feet tall. Sparse red pine, trembling aspen, white pine and oak poles present. ORV trail passes through stand.</p>														
106	R 5	W 1	3	33	10	60	50	red pine	immature	N		20-29 years	0	
<p>comnts Fmd : White birch poles present. White pine, red pine, jack pine and fir regen found.</p>														
107	J 6	W 1	12	60	10	160	45	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Bigtooth aspen and white birch poles present. Leave any oak or hemlock. Mark most red pine sawlogs, though leaving some behind. Leave pole-sized red pine stems unless too tightly spaced. Retain some scattered white birch and aspen. Acceptable regeneration will be aspen, white birch, red maple, jack pine, red pine, white pine, spruce, oak and fir.</p> <p>Wld : leave any oak and hemlock. Leave a few red pine for nuthatch feeding and some birch and aspen for soft snags.</p>														

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
					B	Tot. BA								
108	W 7	A 2	7	99	16	30	52	white pine	two aged	Y		50-59 years	0	
<p><u>Treatment Limiting Factors:</u> Inadequate volume due to low stocking/small diameter/etc. comnts Fmd : Aspen regen is 24 to 32 ft tall. Fir and red maple regen present. ORV trail passes through stand.</p>														
109	L 0	L 0	2			0	54	lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Wetlands to west of Mud Lake. Dry now, but ponded in older imagery.</p>														
110	N 0	N 0	3			0		marsh	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Wetlands to west of Mud Lake. Dry now, but ponded in older imagery. ATVs are forming trails within wetland. Will propose blocking forest road coming off Co Rd 407 to remove access.</p>														
111	N 0	N 0	11			0		marsh	nonstocked	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Wetlands to north of Mud Lake.</p>														
112	I 5	I 1	6	37	4	60	50	jack pine	immature	N		within 0-9 years	0	cleaning & weeding
<p>comnts Fmd : Scotch pine ranges from 2" to 6" Dbh. Red pine poles also present. Red maple, red pine, bigtooth aspen and black spruce regen present. Scotch pine is not regenerating in stand. Pine Ridge ORV Trail passes through stand. Wildlife Division may have the funds and personnel available in future to remove scotch pine.</p>														
113	J 5	J 1	54	35	5	60	45	jack pine	immature	N		20-29 years	0	
<p>comnts Fmd : Cut in 1973-74; sale #12-73A. White birch, red maple, black spruce, red pine and white pine regen present. Red maple, white pine and white birch are infrequent overstory associates. Good stocking. Some patches of J3. Jack pine is approximately 32 feet tall. ORV trail passes through stand.</p>														
114	S 6	S 1	24	144	5	160	30	black spruce-swamp	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u> Too steep Potential or designated old growth comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Steep ridge around south perimeter of stand. White birch and white pine are infrequent overstory associates. Red maple regen present. Cranberry Lake forms north boundary of stand.</p>														
115	L 0	L 0	3			0		lowland brush	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : SCA - part of wetland complex surrounding Mud, Cranberry and Muskallonge Lakes. Adjacent to Cranberry Lake.</p>														
116	B 6	F 3	11	80	6	120	46	paper birch	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Too steep Retention of stand for regeneration purposes (ie. shelterwood) Delayed treatment for age/size class diversity comnts Fmd : Very mixed stand. Heavy aspen and red maple regen in most areas. Black and white spruce are infrequent overstory associates. Hemlock and black spruce regen present. Steep ridge across north portion of stand.</p>														

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

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

Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D	Tot. BA								
117	R 6	F 1	10	80	10	160	46	red pine	two aged	Y	selection	within 0-9 years	1	
<p>comnts Fmd : White birch poles present. Mixed aspen regen present. Stand lays between regenerating jack pine to south and thick understory of fir and aspen to north. Leave any oak and hemlock. Retention will be by area reserve. Incorporate some white pine, aspen and maple into reserve area.</p> <p>Wld : leave a few white pine in retention areas and some aspen and maple for snags in retention areas.</p>														
118	A 6	F 2	4	106	9	80	54	aspen (upland)	old growth (potential or actual)	Y		not scheduled	0	
<p><u>Treatment Limiting Factors:</u></p> <ul style="list-style-type: none"> Adjacent landowner denies access Scenic values/visual values Inadequate volume due to small acreage <p>comnts Fmd : SCA - unique beach influences. Stand lies between Lake Superior beach/bluff and private parcel to south. White and red pine present in overstory.</p>														
119	R 9	F 1	24	125	18	160	53	red pine	mature	Y	selection	within 0-9 years	1	
<p>comnts Fmd : Retain oak and hemlock. Leave most white pine. Retention will be by area reserve. F understory comprised of fir and black spruce.</p> <p>Wld : retain oak and hemlock and most white pine, keep some F understory if possible for mid canopy bird users.</p>														
<p>Total Acres..... 2654</p>														