

ESCANABA FOREST MGT UNIT

Stand Level Information

Compartment: 22

Entry Year: 2008

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

Stand	Cover Type-Size Dnstry	Under Story-Stknng Level	Age	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
1	A 3	X 0	51	10	1	0	60	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : A3 with residual oak. Most of the oak regen is along trails and a very few stump sprouts. By leaving all oak we may eventually loose most of the oak component within this stand.														
2	Q 5	Q 1	3	119	7	50	33	mixed swamp conifer	sparse	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Nice diversity along large A-type. Some portions of stand lave LO unterstory and are sparsley stocked. Treat with stand to the north if it is prescribed.														
3	O 6	M 1	47	79	10	100	50	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Stand was thinned in 1993. Oak seems pretty healthy, mixed white oak and pin oak. Hold 10 years due to cutting to the south.														
4	A 6	X 0	4	53	10	130	80	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Excellent big tooth. Wld : Concur with FMFMD.														
5	U 0	U 0	4			0	60	upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : stand has roughly 10-20 BA/AC of poor quality aspen, jack pine, and a few oak. mgmt objective is UO/GO. Could cut out Aspen and jack pine when stand 6 is treated. Wld : If funds and personnel is available, hydroax this stand. Prescribe burn.														
6	A 6	X 0	83	36	7	80	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : some A3 but overall A6ish. Mixed pine oak and aspen with a few pockets of oak regen.														
7	O 6	O 1	3	83	8	70	60	oak	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : some areas open with U0 and some areas a bit thicker. A3-A4 through middle of stand. Treat with stand 6 in 10 yrs.														
8	U 2	X 0	4		0	0	60	upland brush	low quality	N		within 0-9 years	0	opening maintenance
comnts Fmd : upland brush mixed with some cherry. Wld : If funds and personnel is available, hydroax this stand. Prescribe burn.														
9	A 3	X 0	56	9	1	0	60	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : CUT UNDER CONTRACT # 006-93-01. Far south end just to the north of stand 412 has some excellent oak stump sprout regen. West end of this stand may be burned when stand 92 is burned. This area has more openings with scattered large oak.														
10	D 0	D 0	6			0	15	treed bog	nonstocked	N		not scheduled	0	
comnts Fmd : scattered 2-3'dbh black spruce in a leatherleaf bog														
11	A 4	U 0	13	56	8	30	60	aspen (upland)	sparse	Y	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : U2 with pockets of A5/M5. Cut all A and M this YOY. Mark some trees along the edge of the smaller wet areas for future snag trees and den trees. Manage for mixed aspen and upland brush. Wildlife tech will mark a few trees around small vernal pond to leave for snags Wld : WLD will mark leave trees. Concur with FMFMD.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	Ave. D	B	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
12	Q 6	E 1	3	83	9	80	50	mixed swamp conifer	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : mixed spruce, fir, maple, birch and white pine over LO. Very wet. Hold and treat with stand 13 to the west in 10 yrs.														
13	A 6	X 0	51	43	4	70	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : A3 converting to A6. Cut in 10 yrs. May want to stagger the harvest with the stand to the north (stand 1 comp 19) by 5 years for different adjacent age classes.														
14	Q 6	Q 2	3	71	8	90	43	mixed swamp conifer	two aged	N		10-19 years	0	
comnts Fmd : Lots of Balsam fir has died. Mixed spruce fir and cedar. Green tree leave some seed trees where needed of mixed species. Cut no cedar or hemlock but use the standard cedar and hemlock specs. Or could hold 10 yrs and treat with stand 13. Hold stand as per pre-review 7/31/06 and treat next YOE with adjacent aspen stand.														
15	A 6	X 0	35	39	7	70	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : some portions of this stand are in pretty rough shape. Big tooth areas look great and trembling aspen areas not so hot. Should hold 10 years OK. Much of stand has upland brush understory. Cut some or all oak in 10 yrs to have mixed oak and apen regen.														
16	O 6	X 0	33	79	10	110	61	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Dead oak cut by Verba 1995 - 99. This stand was originally part of a 174 acre stand. Was broken up to try a different harvest in each of the 5 stands. This stand will remain uncut this YOE. Treatments can be modified if oak wilt is detected in this area. Herbicide or mechanical treatments are acceptable for oak wilt if found.														
17	O 6	X 0	35	79	10	110	61	oak	mature	Y	shelterwood-seed	within 0-9 years	2	natural regeneration
comnts Fmd : Dead oak cut by Verba 1995 - 99. This stand was originally part of a 174 acre stand. Was broken up to try a different harvest in each of the 5 stands. This stand will have 20-30 BA marked to leave. Leave all white oak and pine and leave a mix of maple and oak for the remaining 20-30 BA/Ac. Cut in late summer or fall to promote scarification through the timber sale. Treatments can be modified if oak wilt is detected in this area. Herbicide or mechanical treatments are acceptable for oak wilt if found. As per pre-review 7-31-2006 half of this stand will be cut to ~30-40BA/Ac and half will be cut to ~50-60BA/Ac. Favor the retention of white oak save all pine. Acceptable regen for this stand is maple, aspen, oak and pine. Poor or full stocking of regen is acceptable for this stand post harvest. Stand wont be inter-planted if stand isnt fully regenerated but instead will be left to mimic savana type.														
Wld : Half of this stand will be treated to approximately 30-40BA, the other half to approx. 50-60BA. Concur with FMFMD.														
18	Q 2	X 0	12	11	0	0	35	mixed swamp conifer	immature	N		50-59 years	0	
comnts Fmd : cut in winter of 95-96. Most of stand is filling in with spruce and fir. North end is more open with LO and ash scattered.														
19	L 0	L 0	3			0	20	lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : LO with some upland brush areas.														
20	O 6	X 0	11	79	11	90	45	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Thinned under Contract 029-98-01. Not much was cut at that time, stand is to dense to regenerate oak. During field trip 6/22/2006 oak wilt patch was discovered. This stand needs to have oak wilt addressed and for this YOE we are going to hold off on the shelterwood harvest I was planning. Instead oak wilt will be treated and this area may have some herbicide used to kill stump spouted oak to limit spreading of the disease. Either herbicides or vibratory plows may be used to limit the spread and infected trees will be harvested using precatons for oak wilt spread. Openings that are created may be interplanted with a mix of pine, it is acceptable if they arent planted as well leaving the cut areas as opening to fill in naturally. There are also bearing trees in this stand that should be protected, the survey corner couldn't be found.														
Wld : Oak wilt is present. Follow standard practices, plow and cutting. Concur with FMFMD.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. DBH		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
21	A 5	X 0	5	36	7	60	60	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Hold 10 years, treat with stand 47. Cut oak and aspen in both to get mixed regeneration.														
22	A 6	M 2	7	68	11	70	60	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Cut all aspen and oak to 4"DBH. Some areas have advanced oak regen that should release OK, try to protect the regen that is over 5' tall. North part of stand has open areas surrounded by aspen and oak. Area should regenerate to a mix of aspen and oak. If natural regen fails interplant with mix of jack and red pine.														
Wld : Concur with FMFMD.														
23	A 3	X 0	18	16	2	0	69	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Some A3, some A2/A1ish.														
24	O 6	M 1	9	80	10	90	57	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : Held last YOE due to cut to the west. Shelterwood cut to 10-20BA of mixed species..favor the retention of white oak. Leave all pine. Acceptable regen is mixed oak, maple, aspen and pine. If natural regen doesn't occur stand will be left to mimic a savana type. As per Pre-Review decided to cut to 20-30 BA/Acre. Save all white oak and pine. Cut all maple and aspen. Residual BA may be higher or lower depending on the amount of white oak in different areas.														
Wld : At pre-review, we agreed to leave all white oak, plus 20BA of red oak. This is a total of 40BA of oak species, along with any pine. Other areas of the stand will be cut to 20-30BA, while other areas may have more residual trees. Concur with FMFMD.														
25	A 6	X 0	31	44	9	90	65	aspen (upland)	immature	N	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : Cut all but pine and leave some oak. Cutting stand slightly early to help flatten out the aspen age class dist. MO of mixed oak, aspen and pine. Leave some scattered oak in pockets, roughly 1 pocket per 2 acres with 6 trees in each clump, resulting stand should be a mix of aspen, oak, maple, and pine. If natural regen fails interplant with a mix of red and jack pine. As per Pre-review 7-31-06 stand to the north of the road will have all oak left. The area to the south of the road will have all species except for pine final harvested.														
Wld : Concur with FMFMD.														
26	M 6	X 0	7	70	8	80	53	northern hardwood	immature	N		10-19 years	0	
comnts Fmd : mixed maple, aspen, and oak with some scattered spruce and fir. There are also a few wet areas with LO. Treat with stand to the east in 10 years.														
27	Q 6	E 1	29	101	7	100	26	mixed swamp conifer	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Other Dept./Div. procedures or practices (describe in comment)														
comnts Fmd : decided to hold last YOE. Cut everything but cedar and pine and a few seed trees where needed. Some areas are A6 and some are Q6. Green tree leave some spruce and tamarack in clumps. Buffer drain that runs through stand by 50'. Acres will be significantly reduced after drain is buffered. Acceptable regen is mixed aspen, maple, spruce, fir, oak. As per Pre-review 7-31-06 was decided to hold stand. Fisheries division is concerned about regenerating aspen along the drain as the shakey river is a trout stream.														
28	M 6	O 1	6	81	8	80	55	northern hardwood	immature	N	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : Cut during summer or fall for scarification. MO of mixed oak, maple, aspen, fir and spruce. Mark 30-40 BA of mixed species to leave. There are some areas that have advanced oak regen that is roughly 3' high that should respond to harvest. If natural regen fails interplant with a mix of red and jack pine. As per Pre-Review 7-31-06, Make sure that enough BA is left at north end to hinder aspen regeneration. Leave roughly 300' buffer of no aspen cutting.														
Wld : At pre-review, it was agreed that if treatment fails, white pine would be the alternative species planted. Concur with FMFMD.														

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Age	Ave. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need	Notes	
															Age
29	A 6	X 0	5	44	8	80	60	aspen (upland)	immature	N	final harvest	within 0-9 years	1	natural regeneration	<p>* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.</p> <p>comnts Fmd : Some of the A is in decline. Cut all but oak and pine this YOY, oak here is younger. Manage for mixed aspen, oak, maple, spruce, fir, and pine. If natural regen fails interplant with white pine. As per pre-review 7-31-06 stand line was changed so that aspen isnt encouraged at north end of stand. Try to leave roughly 300" no cut buffer to discourage aspen sprouting so that beaver arent a problem. Shakey creek is a trout stream.</p> <p>Wld : Concur with FMFMD.</p>
30	F 2	A 1	10	13	1	10	55	spruce-fir (uplands-including upland black spruce)	immature	N		50-59 years	0		<p>comnts Fmd : stand is mixed fir, spruce, maple, aspen, oak, and tamarack. The stand is filling in quite nicely. There are some residual trees that where left when this area was cut.</p>
31	A 6	X 0	8	46	8	70	55	aspen (upland)	immature	N		10-19 years	0		<p>comnts Fmd : Observed stand from across Shakey creek.</p>
32	F 6	F 1	10	80	8	70	45	spruce-fir (uplands-including upland black spruce)	old growth (potential or actual)	Y		not scheduled	0		<p><u>Treatment Limiting Factors:</u> Water quality/bmps</p> <p>comnts Fmd : POTENTIAL OLD GROWTH, no cut due to water influence. There is one trail that 4 wheelers are using during low water periods. This has been reported on an BMP form and the trail should be closed to the best of our ability.</p> <p>Wld : SCA - POG - Shakey River riparian corridor.</p>
33	L 0	L 0	3			0		lowland brush	old growth (potential or actual)	N		not scheduled	0		<p>Wld : SCA - POG - Shakey River riparian corridor.</p>
34	C 6	X 0	2	108	7	100	27	cedar	immature	N		not scheduled	0		<p>comnts Fmd : very wet stand. Nice diversity and cover.</p>
35	F 3	X 0	13	12	0	0	40	spruce-fir (uplands-including upland black spruce)	immature	N		50-59 years	0		<p>comnts Fmd : cut under contract 49-92-01. Scattered residual red pine, white pine, and oak. Regenerating to a mix of F/O/A and birch. East side is more of a mixed L0/Q1</p>
36	Q 6	Q 1	3		9	110	27	mixed swamp conifer	unevenaged	Y		not scheduled	0		<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : stand ads nice diversity to the area. Hold 10-20yrs due to large stand 48 being treated, could treat with stand 60 to the south.</p>
37	O 6	X 0	35	79	10	110	61	oak	mature	Y		10-19 years	0		<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity Other Dept./Div. procedures or practices (describe in comment)</p> <p>comnts Fmd : Dead oak cut by Verba 1995 - 99. This stand was originally part of a 174 acre stand. Was broken up to try a different harvest in each of the 5 stands. This stand will have 30-40 BA marked to leave. Leave all white oak and pine and leave a mix of maple and oak for the remaining 30-40 BA/Ac. Cut in late summer or fall to promote scarification through the timber sale. Interplant with a mix of jack and red pine if stand doesn't fully regenerate to a mix of aspen maple and oak. No spring planting to minimize chance of damage to oak. Treatments can be modified if oak wilt is detected in this area. Herbicide or mechanical treatments are acceptable for oak wilt if found. As per Pre-review it was decided to hold stand 10 years and see how treatments effect stands 48 and 17. This was Wildlife divisions decision.</p>

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Stand	Cover Type-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								
38	A 6	X 0	8	44	9	90	60	aspen (upland)	immature	N	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : mixed aspen, oak, maple and some scattered fir. Cut all but pine. Resulting stand should be a nice mix of aspen, stump sprouted oak, maple, and some pine. As per pre-review 7-31-06 all oak is to be left. This was requested by wildlife division. Aspen and maple regen will likely occur with some oak regen. All pine is to be left.</p> <p>Wld : Concur with FMFMD.</p>														
39	A 3	M 1	121	16	0	0	75	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : some areas have O1 mixed in as well where the oak was harvested and a very little amount has seeded in where scarification occurred along the roads. Stump sprouted oak is 80% the height of the aspen whereas seed source oak is hardly competing.</p>														
40	O 5	M 2	40	75	8	60	55	oak	immature	N		10-19 years	0	
<p>comnts Fmd : Field checked by Pollard-Oliver in June of 2001. Very well stocked with red maple, oak, and cherry seedlings and saplings. Stand shelterwood cut ~10 yrs ago. Far west end of stand is very open with mixed maple, aspen and oak scattered over A3/M2/O1. Possibly burn stand in future to keep maple from taking over?</p>														
41	A 6	F 1	28	46	8	80	70	aspen (upland)	immature	N	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Mixed maple, aspen, white pine, jack pine and some oak. Green tree leave some oak and pine, leave all Beech. Regen should be a mix of oak, aspen, maple, pine and F type. If natural regen fails interplant with a mix of red and white pine. As per pre-review 7-31-06 leave all oak and white pine. Cut all other species.</p> <p>Wld : Concur with FMFMD.</p>														
42	A 5	X 0	17	33	6	40	70	aspen (upland)	immature	N		20-29 years	0	
43	A 3	X 0	6	24	3	0	55	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : A3 with mixed pine and fir. Some scattered residual oak remains.</p>														
44	W 6	A 1	14	65	8	100	55	white pine	immature	N		10-19 years	0	
<p>comnts Fmd : Contract 029-98-01. Most of A,B and M were cut out. South of road was individually marked. Portions of the stand could use another thin but it should hold 10-20 yrs ok.</p>														
45	M 6	W 1	5	63	8	80	46	northern hardwood	immature	N		10-19 years	0	
<p>comnts Fmd : treat with stand 44 in 10yrs. Stand isnt very dense for the most part and it is filling in with mixed pine, spruce and fir. MO of mixed M and F type.</p>														
46	O 8	M 3	39	75	12	60	70	northern hardwood	two aged	N		20-29 years	0	
<p>comnts Fmd : stand has some nice oak in areas, more of a middle to upper end oak site. Most of stand has thick U0, M3 or A3 in understory. Some portions of stand have had the majorety of the oak overstory die. During field trip 6/22/2006 it was agreed to do nothing here..manage for the understory for now. Overstory oak should make it long enough here to manage along with the understory. When treated in the future could probably clear cut to atleast regenerate oak along with the maple and aspen. Then possibly leave the oak again for two rotations. Stand may have Oak wilt. Herbicide or mechanical treatments are acceptable for oak wilt and the forest products can be utilized this YOE, if oak wilt is detected.</p>														
47	A 5	X 0	8	42	7	60	78	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : treat with stand 21 in next YOE. Should hold OK. Cut all species to regenerate both oak and aspen.</p>														

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					B	Tot. BA	Site Indx							
48	O 6	X 0	32	79	10	110	61	oak	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<p>comnts Fmd : Dead oak cut by Verba 1995 - 99. This stand was originally 174 acres. Was broken up to try a different harvest in each of the 5 stands. This stand will have all species except pine and white oak final harvested. This is where I expect the best results. Cut in late summer or fall only to promote scarification and increase the amount nutrient storage in root systems. A mix of oak, maple, aspen, and pine is acceptable regen for this stand. Mixed pine will be interplanted if full stocking isnt achieved. Treatments can be modified if oak wilt is detected in this area. Herbicide or mechanical treatments are acceptable for oak wilt if found. As per Pre-review 1/2 of this stand will have all species except for pine final harvested and the other half will have 20-30 BA of mixed species marked to leave.</p> <p>Wld : Concur with FMFMD.</p>														
49	O 5	X 0	11	72	9	50	69	oak	immature	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Contract 029-98-01. A, B and M were cut out. East portion of stand was burned. No oak was cut last YOY and little oak has regenerated. Maintain this stand as an open oak stand and continue to burn to promote oak and grass and to hinder brush and maple regen. Burn next YOY. As per pre-review 7-31-06 wildlife division wants to burn this stand to keep it as an open savana type.</p> <p>Wld : In a previous entry year, part of this stand had a prescribed burn. Follow original plow lines for this burn. This landscape historically has had wildfires. Fire acts as a natural fertilizer, returning nutrients to the soil. It also reduces the competition for space and sunlight, which can be limited by dead plant material. Fire will also favor fire-dependant plant species.</p>														
50	O 6	M 1	22	72	10	100	69	oak	mature	N	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : all but oak was cut in 1980. Final harvest but leave all pine. Target for this harvest is to regenerate oak via stump sprouts. Leave some large wolfy oak for seed and structural diversity, do this by a 16" diameter limit on the oak. If oak wilt is found in this stand treatments may be modified and herbicide or vibratory plowing may be used to hinder oak wilt spread. As Per pre-review it was decided to carry out this harvest and stand 70 and 71 wont be treated. Stand wont be interplanted post harvest but instead poor to good stocking of oak, pine, maple and aspen is acceptable for this stand.</p>														
51	A 3	X 0	4	26	1	0	80	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : nice patch of A3 converting to A6.</p>														
52	A 3	X 0	18	28	4	0	80	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : stand is mixed A3/O1/GO under O4 residual. South is A3ish, middle GO to O1 and north end is A3/O2/O3.</p>														
53	A 6	X 0	30	40	8	70	80	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : A3 converting to A6. Scattered residual oak and maple. Much of stand has M3 or Upland brush understory.</p>														
54	A 6	X 0	1	32	7	80	80	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Nice pocket of A3 converting to A6</p>														
55	C 6	X 0	19	126	6	80	29	cedar	low quality	N		not scheduled	0	
56	A 6	X 0	3	31	7	80	75	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : A3 converting to A6</p>														
57	A 3	F 1	36	9	2	0	72	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : sale cut spring of 97. A3 under scattered oak. SW end has scattered spruce, fir, and pine.</p>														

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					B H	Tot. BA								
58	C 6	Q 1	3	101	8	140	35	cedar	mature	N		not scheduled	0	
59	C 5	F 1	12	125	10	60	29	cedar	immature	N		50-59 years	0	
comnts Fmd : Contract 029-98-01. All trees exc pine, C and H were cut. Residual trees are scattered to clumpy. Long range MO of mixed F and M. Balsam SI =55. Stand is slowly filling in with spruce and fir.														
60	A 6	X 0	9	40	8	80	80	aspen (upland)	immature	N	final harvest	within 0-9 years	2	natural regeneration
comnts Fmd : Final harvest, leave all pine and a few scattered oak (~2 per acre) for seed and structural diversity, however most of the oak should be harvested to regenerate oak right along with the aspen. As per pre-review leave all pine and leave some of the larger diameter oak and leave all white oak.														
Wld : Leave all white oak and all the oak sawlogs. This would leave 10BA of oak within this stand. Leave pine. Concur with FMFMD.														
61	M 6	X 0	5	49	9	70	55	northern hardwood	immature	N		20-29 years	0	
comnts Fmd : manage when stand 42 is cut. Probably didn't know where line was.														
62	W 6	X 0	9	65	10	100	55	white pine	immature	N	shelterwood-seed	within 0-9 years	2	natural regeneration
comnts Fmd : Cut all A, M and Fir. Mark some of the poor quality oak. Leave roughly 40-50BA of pine, residual BA may be more or less post harvest due to variability of the stand. As per pre-review cut all A, M, Fir and mark pine down to 50-60 BA/ac. Some areas may have less BA if the starting BA is already below 50-60 BA/Ac. Acceptable regen is a mix of pine, maple, oak, and aspen. As per pre-review 7-31-06 cut all aspen, maple, fir spruce and mark pine to 50-60BA														
Wld : Cut all aspen, maple, some fir, and some sawlog white pine. 50-60BA. Residual BA may be more or less, depending on area of the stand. Concur with FMFMD.														
63	C 6	Q 2	6	71	6	170	43	cedar	two aged	N		20-29 years	0	
comnts Fmd : Dense cedar at the north end. Heavy deer use this winter. Could possibly cut spruce, maple, and A next YOE but probably better to leave as good dense conifer cover. When stand 13 is cut next YOE the east edge and south end of this stand could probably be treated.														
64	O 6	X 0	38	79	10	110	61	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Other Dept./Div. procedures or practices (describe in comment)														
Delayed treatment for age/size class diversity														
comnts Fmd : Dead oak cut by Verba 1995 - 99. This stand was originally part of a 174 acre stand. Was broken up to try a different harvest in each of the 5 stands. This stand will have 40-50 BA marked to leave. Leave all white oak and pine and leave a mix of maple and oak for the remaining 40-50 BA/Ac. Cut in late summer or fall to promote scarification through the timber sale. Interplant with a mix of jack and red pine if stand doesn't regenerate full with a mix of oak, maple and aspen. No spring planting to minimize chance of damage to oak. Treatments can be modified if oak wilt is detected in this area. Herbicide or mechanical treatments are acceptable for oak wilt if found. As per Pre-review 7-31-06 it was decided to hold this stand to see how treatments in stand 48 and 17 go. Wildlife division wanted to hold this stand.														
65	A 3	X 0	1	26	3	0	80	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : nice A3 with a few stump sprouted oak mixed in as well.														
67	O 6	X 0	6	79	8	80	61	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u>														
Delayed treatment for age/size class diversity														
comnts Fmd : Western portion of this stand was sold. Hold 10 yrs and treat with stands 21 and 47. If oak wilt is found in this stand it can be treated with either herbicides or plow to help control oak wilt spread and the dead and dying oak can be utilized.														
68	A 3	X 0	12	16	0	0	69	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : A3 under mixed oak and pine.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
69	O 5	X 0	27	94	8	60	45	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : some areas more open (east end and west end) and some fairly dense. Oak is getting pretty old. Cut to 20-30 BA of mixed species. Harvest in late summer to fall to help scarify. West end of stand is tough to pick out on current imagery. Stand acres may be reduced when sale is set up due to poor stocking at the west end of the stand. If oak wilt is found this stand can be treated by either trenching or chemical use and the dead and dying oak trees will be harvested and utilized. As per Pre-review stand will be cut to 30-40BA/acre of mixed oak. Favor the retention of larger diameter oak and white oak. If natural regen fails this stand wont be interplanted but instead will be left to mimic a savana type. Cut all maple.</p> <p>Wld : Favor retention of some of the larger oak. Concur with FMFMD.</p>														
70	O 6	X 0	14	79	8	80	61	oak	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Dept./Div. procedures or practices (describe in comment) Delayed treatment for age/size class diversity</p> <p>comnts Fmd : pretty nice oak. Keep stand as a mixed species stand. Do a group selection where roughly two - 60' crown openings per acre are cut for regen gaps. This will result in roughly 28 crown openings, Each opening will likely have 3-5 trees being removed. Place healthy viable oak stumps at the north end to center of the openings to help ensure stump sprout regen. May be able to harvest without a survey as the openings can be placed away from the lines. Group openings should regenerate to a mix of oak stump sprouts, cherry and maple. It is our intention to use the viable oak stumps to push oak right along with the maple and cherry regeration and possibly in 10-20 year do some intermediate treatments to release the oak stump sprouts and create more openings for oak regeneration if the openings work. Use oak wilt spec for this stand. As per Pre-review it was decided to hold this stand. This was requested by wildlife division.</p>														
71	O 5	X 0	19	96	8	60	70	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Dept./Div. procedures or practices (describe in comment) Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Portions were scarified and direct seeded with a pine mix last YOE. Stand was looked at by Pollard - Salter in May of 2001. We feel the stand is well stocked, and contains a fair amount of aspen. This YOE. Some areas open and some failry dense. Some areas that were scarified have filled in with dense maple regen. Leave all pine and white oak. Final harvest all other species this YOE. But leave roughly on clump per acre with 6 trees for diversity where possible. Some acres may not have clumps to leave due to poor stocking. Mixed maple, oak, pine, and aspen regen is acceptable for this area. Cut this stand during the snow free period also. If natural regen fails interplant with a mix of red and jack pine. Stand may have Oak wilt. Herbicide or mechanical treatments are acceptable for oak wilt and the forest products can be utilized this YOE, if oak wilt is detected. As per pre review it was decided to hold this stand at the request of wildlife division. Oak wilt treatments can take place to limit spread of oak wilt.</p>														
72	A 3	M 1	17	16	3	0	80	aspen (upland)	immature	N		40-49 years	0	
73	O 4	A 1	9	79	8	20	61	oak	immature	Y		within 0-9 years	0	other - specify in remarks
<p><u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)</p> <p>comnts Fmd : Contract 029-98-01. Species other than oak were cut out and this stand was burned with other surrounding stands. Manage for open oak savanah. Burn again next YOE. As per pre-review wildlde division wants to burn this stand to keep it open and mimic a savana type.</p> <p>Wld : In a previous entry year, part of this stand had a prescribed burn. Follow original plow lines for this burn. This landscape historically has had wildfires. Fire acts as a natural fertilizer, returning nutrients to the soil. It also reduces the competition for space and sunlight, which can be limited by dead plant material. Fire will also favor fire-dependant plant species.</p>														
74	O 5	A 1	16	72	8	40	69	oak	immature	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Contract 029-98-01. Other species than oak were cut out. Portions of stand that were not burned have M2/M3/I2 understory. Burned are has manily I1/I2. Beurn again next YOE. As per pre-review 7-31-06 wildlife wants to burn this stand to keep it open to mimic a savana. Burn line will be the same as it was from the last burn.</p> <p>Wld : In a previous entry year, part of this stand had a prescribed burn. Follow original plow lines for this burn. This landscape historically has had wildfires. Fire acts as a natural fertilizer, returning nutrients to the soil. It also reduces the competition for space and sunlight, which can be limited by dead plant material. Fire will also favor fire-dependant plant species.</p>														

ESCANABA FOREST MGT UNIT

Stand Level Information

Compartment: 22

Entry Year: 2008

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	A c r e s	Age	avg. D B H		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
75	A 1	X 0	8	16	1	0	70	aspen (upland)	sparse	N		40-49 years	0	
<p>comnts Fmd : A1 mixed with upland brush and cherry. Stand burned in past. Manage for mixed GO/A and Oak. Possibly throw a light burn through area this YOE.</p>														
76	O 6	X 0	20	79	10	70	61	oak	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : variable stand. Some is open O4ish and some is thicker O6ish. Pockets of nice aspen through out stand as well. Decided to clear cut this area to regenerate a mix of oak, aspen and maple. Leave all oak over 16 inches in DBH. Cut during snow free time, late summer or fall, no cutting during oak wilt time. Leave roughly 1 pocket /acre with 6 trees that will not be cut for mast, snags and course woody debris. If natural regen fails interplant with a mix of red and jack pine. This stand may also have an oak wilt patch that can be treated with either the vibratory plow or herbicide to control oak wilt spread. Herbicided areas may have mixed pine planted. if not then they will be small openings in the surrounding regeneration. This is acceptable. As per Pre-review this stand will be cut as prescribed. Poor to good stockign of oak regen is acceptable. This stand wont be planted if the stand doesn't regenerate to fully stocked. Instead it will be left to mimic a savana type.</p> <p>Wld : WLD will assist in painting of leave clumps (6 trees per acre for a total of 19 clumps). Concur with FMFMD.</p>														
77	U 0	U 0	1	10	0	0	61	upland brush	in process of regeneration	N		60-69 years	0	
<p>comnts Fmd : narrow strip of witchhazel. Some O4/O5 overstory in areas.</p>														
78	A 3	X 0	21	12	0	0	80	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : stand was burned in 1994. ~ 5 acres on the east end wasn't burned. Some A1/A2 but most is A3ish.</p>														
79	O 1	O 1	17	16	1	10	69	oak	sparse	N		10-19 years	0	
<p>comnts Fmd : Area was burned under FTP C 33-460 on 4-26-2000. Aspen sprouts were killed off, and the stand is regenerating to cherry and oak. Area was trenched and seeded on 6/12/2002 to a mixture of J, R, &amp; W; under FTP # 33-537. GPS unit in skidder indicated 4.25 acres were seeded. This YOE Pine seeding appears to be a failure. During 6/22/2006 field trip it was agreed to do nothing here..the stand does have oak regen that has not yet recruited...this YOE the stand will have scattered mature oak over cherry and oak regeneration..this is acceptable.</p>														
80	M 5	M 1	25	79	10	50	65	northern hardwood	immature	N		10-19 years	0	
<p>comnts Fmd : Planted 200 trees per acre white pine where there is overstory and red pine where stand is open. This was done in the summer of 1999. Regeneration check done by Pollard - Salter in May of 2001. Approx 75% of the red pine have survived; very few white pine survived due to deer browsing. Do not think we should re-plant at this time. Check in spring to see survival and recruitment rate.</p>														
81	A 1	X 0	2	16	0	0	69	aspen (upland)	sparse	N		30-39 years	0	
<p>comnts Fmd : scattered oak, aspen and cherry. A on edges, oak and cherry scattered on the interior</p>														
82	A 2	X 0	3	16	2	0	69	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : A2 mixed with O1 and upland brush. Some areas have a decent amount of oak regen that is being recruited.</p>														
83	O 5	X 0	17	79	9	70	61	oak	immature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2 small patches of oak wilt were found and treated in this stand. .6 acres were trenched and clear cut in 2002-2003. OW treatment appears to have worked. Oak has stump sprouted very good but deer have browsed most of it..check in summer to see if they push past the browse. Mark to leave 10-20 BA of mixed species. Save all pine and favor the retention of white oak. Acceptable regen for this stand is a mix of oak, maple, aspen, and pine. If natural regen fails interplant with a mix of red and jack pine. If more oak wilt is detected the treatment may be modified and either herbicide or vibratory plowing may be used to hinder oak wilt spread. As per Pre-review mark to leave 20-30 BA of larger diameter oak and save all pine.</p> <p>Wld : Concur with FMFMD.</p>														

ESCANABA FOREST MGT UNIT

Stand Level Information

Compartment: 22

Entry Year: 2008

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acres	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
84	M 5	X 0	15	75	6	50	55	northern hardwood	immature	N		10-19 years	0	
<p>comnts Fmd : Cut all aspen then scarify for natural regeneration. Field checked by Pollard - Oliver in June of 2001. We felt it was too well stocked with red maple, oak and cherry regeneration to do any scarifying in at this point. Would do more damage than good. Stand is variable, some O6/M6 and some is more open. Some areas have a fair amount of oak regen as well. Areas that had a mix of species cut including oak seem to have the best oak regen. North end of stand has a small area that is very open with oak and maple regen filling in. long term goal for this stand is mixed oak maple and pine. Treat next YOY.</p>														
85	O 6	X 0	6	75	8	70	55	oak	mature	N		10-19 years	0	
<p>comnts Fmd : Scarify for natural regeneration. Field checked by Pollard-Oliver in June 2001. We felt the stand was too well stocked to be dragging equipment through. Might cause too much damage to residual trees. Better left as is for now. Could possibly green tree leave 20-30 BA of mixed species..save all pine and white oak. Hold 10 years and treat with stand 84 to the west.</p>														
86	O 7	M 2	22	75	11	30	70	oak	sparse	N		30-39 years	0	
<p>comnts Fmd : 300 white pine per acre were planted in Spring of 1999. Regeneration check by Pollard - Salter in May of 2001. Probably less than 10% survival due to deer browsing. Probably not worth re-planting at this time. During field trip 6/22/2006 it was agreed to hold this stand and do no treatment. Stand has fully regenerated to maple and aspen under oak. This stand has a oak wilt patch that can be treated using either a vibratory plow or herbicided to control the oak wilt spread. The dead and dying oak will be harvested and utilized as part of a timber sale. Long term MO of mixed maple, aspen and oak.</p>														
87	M 6	X 0	13	79	8	70	61	northern hardwood	immature	N	seed tree	within 0-9 years	2	natural regeneration
<p>comnts Fmd : mark to 20-30Ba of mixed species but cut all aspen. Manage for mixed maple, aspen, and oak. Cut in summer time or fall only. Mix of maple, aspen, and oak regen is ok post harvest. If natural regen fails interplant with mix of white and red pine. As per Pre-review cut all but pine and oak.</p> <p>Wld : Leave oak and pine. Concur with FMFMD.</p>														
88	A 3	X 0	3	26	3	0	80	aspen (upland)	immature	N		30-39 years	0	
89	O 5	X 0	8	58	8	60	50	oak	sparse	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : younger oak stand..looks to be in pretty good shape. Should hold 10-20 yrs ok. South and west end has pockets of large 20-24" dbh aspen. If oak wilt is found it can be treated by either vibratory plow or herbicide. As per pre-review 7-31-06 wildlife division wants to burn this stand to mimic a savana type. Plow line will be used from previous burn.</p> <p>Wld : In a previous entry year, part of this stand had a prescribed burn. Follow original plow lines for this burn. This landscape historically has had wildfires. Fire acts as a natural fertilizer, returning nutrients to the soil. It also reduces the competition for space and sunlight, which can be limited by dead plant material. Fire will also favor fire-dependant plant species. Follow oak wilt prescription when necessary.</p>														
90	A 3	U 2	14	16	0	0	69	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Area was planned to be treated under FTP #33-538. When the stand to the west was trenched and seeded on 6/12/02; we looked at this stand and decided not to treat it because it was so heavily stocked with aspen , cherry and hazel brush. Far to shaded to seed red and jack pine, a major component of the seed mixture. A3 with mixed O4 and pine residual timber. Stand should be a nice mix of aspen, maple, oak and upland brush. Some pine should seed in over time.</p>														
91	O 5	X 0	22	72	8	50	69	oak	mature	N		not scheduled	0	
<p>comnts Fmd : north end of stand has areas of M5 over M3 with lots of dead oak scattered around. Central and west end also have areas where 90% of oak is dead leaving scattered maple, south end is O5 over GO.</p>														

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Stand Level Information

Compartment: 22

Entry Year: 2008

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acres	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA								
92	A 4	U 2	26	60	9	30	60	upland brush	sparse	Y	final harvest	within 0-9 years	2	other - specify in remarks
<p>comnts Fmd : This was coded as a grass opening in the past. Changed to upland brush last YOE. Should be managed to maintain upland brush for wildlife habitat. Cut all aspen and maple in this stand and burn to help keep it as a grass opening with scattered oak. Cut no oak in this stand. Burn area will likely not conform to the stand boundaries...when burned include the west end of stand 9 that has scattered large oak over grass and brush.</p> <p>Wld : Concur with FMFMD.</p>														
400	G 0	G 0	1			0	60	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : small GO patch. Wildlife may use a machine to control brush in grass openings.</p>														
401	G 0	G 0	2			0	55	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p>														
404	G 0	G 0	3			0	60	grass	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p> <p>Wld : If funds and personnel is available, hydroax this stand. Prescribe burn.</p>														
405	G 0	G 0	1			0	69	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p>														
406	G 0	G 0	4			0	69	grass	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p> <p>Wld : If funds and personnel is available, hydroax this stand. Prescribe burn.</p>														
410	G 0	G 0	3			0	70	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p>														
411	G 0	G 0	9		0	10	61	grass	nonstocked	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : as per pre-review 7-31-06 wildlife division wants to burn to keep as an open area to mimic savana type. Plow line will be used from the previous burn line.</p> <p>Wld : In a previous entry year, this stand had a prescribed burn. Follow original plow lines for this burn. This landscape historically has had wildfires. Fire acts as a natural fertilizer, returning nutrients to the soil. It also reduces the competition for space and sunlight, which can be limited by dead plant material. Fire will also favor fire-dependant plant species.</p>														
412	G 0	G 0	1			0	69	grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p>														
413	G 0	G 0	1			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wildlife may use a machine to control brush in grass openings.</p>														

Total Acres..... 1594