

**NEWBERRY FOREST MGT UNIT**

**Stand Level Information**

**Compartment: 90**

**Entry Year: 2007**

\* 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	A c r e s	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
2	W6	N2	128		10	140	45	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : All age white pine stand. Large diameter, tall, order trees over younger, small diameter trees. Diameters range from 6-8 inches up to 24 inches and larger. Natural white pine stand. Scattered red pine through stand. Very typical of the natural white pine stands in the area. Northern half of the stand is Kalkaska sand and the southern half is more of a Kalkaska-Okeefe sand complex.														
4	W5	N2	19		8	60	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.														
5	W5	N2	3		8	60	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.														
6	U0	U0	7			0		upland brush	nonstocked	N		not scheduled	0	
7	J4	A2	6	15	6	20	45	jack pine	immature	N		40-49 years	0	
8	W5	N2	15		8	50	45	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Open areas with scrubby, limby white pine (cabbage pine). Pockets of larger white pine with higher BA. Clumps of merchantable aspen. Kalkaska sand.														
10	J6	N1	106	54	10	120	45	jack pine	mature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Jack pine planted in 1951, red pine planted in 1952, and jack pine planted again in 1960. Multiple plantings. Most of the jack pine appears to be healthy. Pockets of blowdown, broken tops (wind damage). Areas with lower quality (limby). Pockets of aspen. Larger diameters in the eastern portion of the stand. Harvest stand this entry. Leave white pine and red pine as residual. Follow harvest with scarification for natural red pine regeneration. Monitor success of scarification and follow up with a planting (jack pine) if necessary. Alternative MO would be a mixed stand of white pine, red pine and jack pine, with a minor component of northern hardwoods. Wld : leave white and red pine														
11	R8	N1	6	54	12	50	45	red pine	immature	N		30-39 years	0	
comnts Fmd : Stand typed as a "U" last entry. Limby, short, open grown red pine. Large diameters but very limby. Kalkaska sand.														
12	W6	N2	58	62	10	120	50	white pine	immature	N		20-29 years	0	
comnts Fmd : Stand planted with red pine in the fall of 1952, replanted in fall of 1959 with red pine. Mixed pine stand of red pine (planted) and white pine. Aspen throughout stand. White pine in the stand is of variable ages. Diameters of white pine are variable throughout. Lots of structural diversity in the stand. Appears to be evidence of weevil damage in some white pine. Open in areas. Density of the stand is variable. Kalkaska sand.														
13	R8	N1	11	54	12	50	45	red pine	immature	N		30-39 years	0	
comnts Fmd : Stand typed as a "U" last entry. Limby, short, open grown red pine. Large diameters but very limby. Kalkaska sand.														
14	R9	M2	15	54	12	150	45	red pine	immature	N		10-19 years	0	
comnts Fmd : Large diameter red pine. Scattered aspen throughout the stand. Crowns are well spaced. High BA due to large diameters. Plantation? No records found but all other pine in the area was planted around the same time. Diameters range from 10 inches up to 18-20 inches. Liminga-Alcona soil complex.														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acres	Age	avg. Diameter		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B	Tot. BA								
15	A6	N 1	23	72	10	150	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Mixed stand of aspen with red maple, red pine and white pine. Scattered juneberry. Pockets of balsam. Decline and mortality in the aspen. Harvest - cut all species except red pine, white pine and juneberry. NE corner of the stand has higher BA of white pine. Some white pine may need to be marked for maneuverability. Access to the stand would be via road to the south of the stand. Management objective of aspen. Alternative MO would be a mixed pine stand of red and white pine (residual) with aspen and northern hardwoods. Liminga-Alcona soil complex.</p> <p>Wld : leave red and white pine</p>														
16	M6	M3	6		10	150	50	northern hardwood	unevenaged	Y	selection	within 0-9 years	2	
<p>comnts Fmd : Red maple stand. Some quality pole size trees. Lots of clumps of 3-4 trees. Some good crop trees. Areas with twists, forks, multiple stems. Thin by selection system. Remove low quality trees and multiple stems. Management objective is northern hardwoods. Liminga-Alcona soil complex.</p> <p>Wld :</p>														
18	W6	N 2	3		9	140	50	white pine	immature	N		10-19 years	0	
<p>comnts Fmd : Small mixed stand of jack pine, white pine, and aspen. White pine is limby and young. Jack pine and aspen are healthy. Leave for 10 years for visual concerns with harvest of adjacent jack pine stand (stand 10). Liminga-Alcona soil complex.</p>														
19	W6	M1	13		8	150	50	white pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Small diameter white pine with scattered large diameter white pine. Leave stand for 10 years to help with visual impact of the harvest of stand 10 (J6). Liminga-Alcona soil complex.</p>														
20	J6	N 1	4	54	10	120	45	jack pine	mature	N	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Jack pine planted in 1951, red pine planted in 1952, and jack pine planted again in 1960. Multiple plantings. Most of the jack pine appears to be healthy. Pockets of blowdown, broken tops (wind damage). Areas with lower quality (limby). Pockets of aspen. Larger diameters in the eastern portion of the stand. Harvest stand this entry. Leave white pine and red pine as residual. Follow harvest with scarification for natural red pine regeneration. Monitor success of scarification and follow up with a planting (jack pine) if necessary. Secondary MO would be a mixed stand of white pine, red pine and jack pine, with a minor component of northern hardwoods.</p> <p>Wld : leave red and white pine</p>														
21	R9	N 2	13	54	14	90	50	red pine	immature	N		30-39 years	0	
<p>comnts Fmd : Open grown red pine. Limby, lots of "doubles". Shorter heights than surrounding R9 stand. Many parts of the stand are open. Liminga-Alcona complex.</p>														
22	R9	M2	19	54	12	150	45	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Large diameter red pine. Scattered aspen throughout the stand. Crowns are well spaced. High BA due to large diameters. Plantation? No records found but all other pine in the area was planted around the same time. Diameters range from 10 inches up to 18-20 inches. Liminga-Alcona soil complex.</p>														
23	R9	M2	4	54	12	150	45	red pine	immature	N		10-19 years	0	
<p>comnts Fmd : Large diameter red pine. Scattered aspen throughout the stand. Crowns are well spaced. High BA due to large diameters. Plantation? No records found but all other pine in the area was planted around the same time. Diameters range from 10 inches up to 18-20 inches. Liminga-Alcona soil complex.</p>														
24	U0	U0	17			0	40	upland brush	nonstocked	N		60-69 years	0	
<p>comnts Fmd : Mostly open ground with cherry and scattered aspen clones. Liminga-Alcona soil complex.</p>														
26	W6	N 2	7	50	8	110	45	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Small diameter, young white pine with scattered large diameter (22-28 inch) white pine throughout. Young aspen component. Kalkaska sand.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	A c r e s	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
27	A6	N 1	13	75	10	100	65	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Mature aspen showing signs of rot and mortality. Some aspen is large diameter. NE portion of the stand has more white pine. Southern portion of the stand is smaller diameters and more open. Poor quality white pine within the stand. Harvest - Cut all white pine within the stand due to quality and to promote thick aspen regeneration. Management objective is aspen. Alternative MO would be a mixed stand of white pine, aspen and some northern hardwoods. Kalkaska sand.</p> <p>Wld : leave a few large diamtere white pine for conifer cover</p>														
28	W6	N 2	18		9	130	50	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Thick, natural stand of white pine, mostly 8-10 inches in diameter. Scattered large red and white pine throughout. Lots of trees just below merchantable size. Variable heights of trees within the stand. Understory of W2. One pocket (1 ac.) of R6/R9 in the middle of the stand. Kalkaska sand.</p>														
30	W6	N 2	28		9	110	40	white pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : All age white pine stand. Diameters range from 6 inches to over 22 inches. Much of the stand is very limby. Typical of natural white pine stands in the area. Large diameter white pine is pulp quality (limby). Kalkaska sand.</p>														
31	A6	M2	21	71	10	110	65	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Mature aspen, some large diameters. Aspen showing rot, cankers and some mortality. Pockets of better quality. Scattered pockets of white pine. Large ridge within the stand. Stand needs to be managed. Access will be via road through private land to the south to avoid new roads. Permission is already obtained. Management objective of aspen. Alternative MO would be a mix of aspen, white pine, and northern hardwoods (red maple, cherry). Kalkaska sand.</p> <p>Wld : leave a conifer component</p>														
32	Q6	Q2	13	73	8	70	30	mixed swamp conifer	immature	N		20-29 years	0	
<p>comnts Fmd : Black spruce with tamarack and white birch. Scattered white pine on higher parts of the stand. Low quality. Wallace-Spot complex.</p>														
33	V0	V0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
34	A5	M3	179	30	6	50	55	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Stand is transitioning from an A3 to an A6. Lots of trees 3-4 inch in diameter with some trees having moved into the merchantable size classes. Understory of cherry and maple. Stand was total tree chipped in 1974. Areas within the stand where merchantable BA is around 70. Silver Creek ORV trail runs through the NE portion of the stand. Old timber sale road entering stand from the SW was bermed but the berm has been run down. May want to re-berm? Kalkaska sand.</p>														
35	W5	A1	5		7	60	50	white pine	unevenaged	N		40-49 years	0	
<p>comnts Fmd : White pine between bog and the young aspen. Kalkaska sand.</p>														
36	V0	V0	11			0		bog or muskeg	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Bog with stunted spruce. Pitcher plants. Dawson, Greenwood and Loxley peats</p>														
37	W5	A1	2		7	60	50	white pine	unevenaged	N		not scheduled	0	
<p>comnts Fmd : White pine island surrounded by bog. Extends onto the private land. Kalkaska-Okeefe sand.</p>														
38	M3	M2	14	30		0	55	northern hardwood	immature	N		20-29 years	0	
<p>comnts Fmd : Stand was originally part of stand 39 (A5), but due to beaver activity it is now more of an M3 with most of the aspen removed. Zone around the bog with heavy beaver influence. Mostly cherry and maple 2-3 inch dbh. Kalkaska sand.</p>														

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					D B H	Tot. BA	Site Indx							
39	V0	V0	23				0	bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Dawson, Greenwood and Loxley peats														
40	V0	V0	4				0	bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Mature aspen with red maple and balsam. Some spruce along the bogs. Aspen showing rot and mortality. The stand continues into compartment 88. Treat the entire stand (C 88 & 90) at the same time. Management objective of aspen. Alternative MO would be a mix of aspen and northern hardwoods (red maple, cherry) with a component of balsam. Kalkaska sand. Wld : leave the conifer														
42	A3	M2	96	13			0	50	aspen (upland)	immature	N	40-49 years	0	
comnts Fmd : Stand was cut in 1992, sale #048-91-01. Mainly quaking aspen regeneration with some white birch, red maple, and cherry mixed in. Scattered 6-8 inch aspen and larger "woffy" white pine that were left after the harvest. Some semi-open areas within the stand are filling in with aspen regeneration. Kalkaska sand.														
44	M5	M3	11		8	60	50	northern hardwood	unevenaged	N		30-39 years	0	
comnts Fmd : Beech is infected with scale (BBD). Even the beech saplings are "coated" with BBD. Maple is in clumps. Understory is primarily beech. Kalkaska sand.														
45	A3	A3	67	14			0	50	aspen (upland)	immature	N	40-49 years	0	
comnts Fmd : Stand clearcut in 1991, sale #019-89-01. Nice stand of quaking aspen, 35 ft tall. Some cherry, maple, balsam and spruce mixed in. Understory of maple. Liminga-Alcona soil complex.														
46	J6	M1	33	45	10	100	50	jack pine	immature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Planted in the spring of 1960. Stand suffered severe wind damage in Oct/Nov 2003. Lots of broken tops and blowdown. Areas with blowdown completely through the strips. Try to prevent budworm problems by salvaging the stand prior to 2007. Salvage stand immediately while the blown down trees are still sound. Follow up the harvest with scarification. Planting may be needed if scarification does not produce the desired jack pine regeneration. Management objective is jack pine.														
47	U0	U0	48				0	50	jack pine	nonstocked	N	within 0-9 years	0	planting
comnts Fmd : Opening that is filling in with aspen, cherry and a fair amount of jack pine (from the adjacent stands). Recommend converting the stand to jack pine to increase the plantation (stands 46, 49, and 50). This would help reduce the possibility of wind damage by eliminating the "strip plantation" make-up of stands 46 and 50. Include as part of the timber sale with stands 46, 48, 49, and 50. Harvest any merchantable trees. Plant to jack pine following the harvest. Management objective is jack pine. Possible component of aspen and cherry.														
48	R6	M1	4	45	10	160	45	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Nice thick red pine stand. Portion of the red pine plantation that had good success. This stand when the adjacent jack pine stands are harvested. DO NOT plant jack pine through this stand. Keep stand as a red pine stand. Management objective of red pine. Kalkaska sand.														
49	R8	F1	14	45	12	60	45	red pine	immature	N	shelterwood-seed	within 0-9 years	1	planting
comnts Fmd : Opne red pine stand. Plantation that appears to have failed. Open grown, short, limby red pine. Large diameters but pulp quality due to limbiness. Harvest stand via a shelterwood cut when adjacent jack pine is harvested. Plant through the stand with jack pine following harvest. Long term management objective for the stand is jack pine, to incorporate in with stands 46, 47, and 50 as one jack pine stand. Kalkaska sand.														

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					D B H	Tot. BA	Site Indx							
50	J6	M1	28	45	10	100	50	jack pine	immature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Planted in the spring of 1960. Stand suffered severe wind damage in Oct/Nov 2003. Lots of broken tops and blowdown. Areas with blowdown completely through the strips. Try to prevent budworm problems by salvaging the stand prior to 2007. Salvage stand immediately while the blown down trees are still sound. Management objective is jack pine. Scarification to follow the harvest for natural jack pine regeneration. Machine planting may be necessary if scarification does not produce the desired jack pine regeneration.														
52	M3	A3	12	17		0	50	northern hardwood	immature	N		30-39 years	0	
comnts Fmd : Stnd was cut in 1988, sale #002-87-01. This portion of the cut is coming back as more of an M3 with an A3 component. Mix of maple, cherry and aspen. Dillingham-Kalkaska complex.														
53	A6	M3	6	77	11	100	65	aspen (upland)	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 : Small acreage aspen stand along private property. Some cankers on the aspen. Short, lower quality red maple in spots. Leave for 10 years for diversity. Dillingham-Kalkaska complex														
54	V0	V0	4			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd :														
55	A3	M3	7	17		0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Stand cut in 1988, sale #002-87-01. This portion of the cut is coming back as more of an A3 with an M3 understory. Majority of the regeneration is aspen. Deilingham-Kalkaska complex.														
56	U0	U0	13			0		upland brush	nonstocked	N		50-59 years	0	
comnts Fmd : Cherry and pockets of aspen. Scattered merchantable trees. Kalkaska sand.														
57	M3	M3	5	17		0	50	northern hardwood	immature	N		30-39 years	0	
comnts Fmd : Primarily maple, both red maple and sugar maple. Some cherry and some aspen. Sale cut in 1988 as sale #002-87-01. Dillingham-Kalkaska complex.														
58	A3	A3	48	17		0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Sake #002-87-01. Completed June 1988. Nice aspen regeneration. Very thick. Kalkaska sand.														
59	V0	V0	2			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Small bog with spruce edge surrounded by aspen														
60	M6	M1	15		9	110	46	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Mix of red and sugar maple. Thick F3 understory and more of an M5 along the eastern edge. Less quality than stand 65 to the south. Kalkaska sand.														
61	G0	G0	5			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Openings with aspen encroachment. Kalkaska sand.														
62	A3	A3	5	17		0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Young aspen filling in the opening between two timber sales.														

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					B H	Tot. BA								
63	A3	A3	3	4		0	50	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Sale #028-97-01, "Speckled Aspen". 4 different patches. Quaking aspen . Nice regeneration. Kalkaska sand.														
64	A3	A3	9	4		0	50	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Sale #028-97-01, "Speckled Aspen". 4 different patches. Quaking aspen . Nice regeneration. Kalkaska sand.														
65	M6	M1	28		9	130	50	northern hardwood	unevenaged	Y	selection	within 0-9 years	1	
comnts Fmd : Mixed red maple and sugar maple stand. Better quality in the sugar maple. Fair amount of doubles and triples. Scattered spruce and occasional hemlock. Lower quality with more aspen on western end of stand. Pockets of large white pine with spruce and hemlock. NW part of the stand has pockets of spruce. When harvested, do not cut conifer patches. Management objective is northern hardwoods. Alternative MO would be northern hardwoods with a conifer component.														
Wld : encourage any good beech, do not cut conifer patches, retain all hemlock														
67	A3	A3	18	14		0	46	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Clearcut in 1990. Nice thick regeneration. Quaking aspen with some maple and cherry. Kalkaska sand.														
68	X0	X0	11			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : County Road 455 Right-of-Way														
69	X0	X0	2			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : County Road 455 Right-of-Way														
70	W6	N1	8		9	70	50	white pine	unevenaged	N		40-49 years	0	
comnts Fmd : Limby white pine, clones of aspen. Some white birch. Kalkaska sand (burned).														
71	A2	N1	16	10		0	47	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Open area filling in with small aspen with some small open grown white pine and scattered cherry. Kalkaska sand (burned).														
72	A2	N1	13	10		0	47	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Open area filling in with small aspen with some small open grown white pine and scattered cherry. Kalkaska sand (burned).														
73	A4	U0	14	13	6	10	46	aspen (upland)	low quality	N		50-59 years	0	
comnts Fmd : Short, low quality aspen. Clones starting to fill in the open areas. Kalkaska sand.														
75	A5	A2	9	45	8	60	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Young clones of aspen and open areas along a north/south ridge. Kalkaska sand.														
78	A3	A3	6	6		0	46	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Final harvest in 1999. "Silver Creek Aspen" timbe sale (25-97-01). 15-20 ft aspen with scattered residual white pine and spruce.														

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					B H	Tot. BA								
79	A3	A3	16	14		0	46	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Clearcut in 1990. Nice thick regeneration. Quaking aspen with some maple and cherry. Kalkaska sand.														
80	A3	A3	13	6		0	46	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Cut in 1999, "Silver Creek Aspen" timber sale, #25-97-01. Mainly quaking aspen 15-20 ft tall, some good white pine regeneration. Kalkaska sand.														
81	V0	V0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Silver Creek Trout Pond.														
82	Z0	Z0	19			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Silver Creek Trout Pond.														
83	F6	F2	31		10	70	40	spruce-fir (uplands-including upland black spruce)	unevenaged	N		not scheduled	0	
<u>Treatment Limiting Factors:</u> Water quality/bmps														
comnts Fmd : Upland spruce with white pine. Borders the upper portions of the Silver Creek Trout Pond.														
84	A3	A3	13	6		0	46	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Cut in 1999, "Silver Creek Aspen" sale #25-97-01. Nice quality, thick aspen regeneration 15-20 ft tall. Kalkaska sand.														
85	R6	M2	8	46	9	150	45	red pine	immature	N		20-29 years	0	
comnts Fmd : Red pine plantation with high component of aspen. Kalkaska sand.														
86	A4	A2	4	56	7	30	46	aspen (upland)	low quality	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Inferior quality														
comnts Fmd : Short, low quality, open grown aspen.														
87	W8	F1	29		14	60	45	white pine	unevenaged	N		not scheduled	0	
comnts Fmd : White pine, hemlock, and spruce along the bank of the Silver Creek and Silver Creek Trout Pond. Steep slope.														
88	R6	M2	19	46	9	100	45	red pine	immature	N		30-39 years	0	
comnts Fmd : Planted in 1959. Semi open red pine stand with aspen. Kalkaska sands.														
89	J5	J3	55	31	6	50	45	jack pine	immature	N		30-39 years	0	
comnts Fmd : Stand was planted with red pine in 1959 and then replanted with jack pine in 1974. Transitioning between a J3 and a J6. Lots of trees below merchantable diameter. Better quality in the south end, larger diameter. A fire on May 24, 2000 entered into the western edge of the stand, 1-2 acres. Control line around the burned area now used as a two track road. Red pine throughout the stand from the planting in 1959.														
90	R4	R1	33	46	11	30	45	red pine	immature	N		50-59 years	0	
comnts Fmd : Open grown red pine stand. Limby all the way to the ground. Understory of aspen with some red and white pine. Old notes: Planted fall of 1959. Areas with no survival - overall survival was 75-100 trees per acre. Kalkaska sand (burned).														

NEWBERRY FOREST MGT UNIT

Stand Level Information

Compartment: 90

Entry Year: 2007

\* 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	A c r e s	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA	Site Indx							
91	R6	N 1	57	46	10	70	45	red pine	immature	N		30-39 years	0	
comnts Fmd : Remnants of the rows from the 1959 planting. Lower BA around open areas. Higher component of white pine in the shouther portion of the stand. Lots of variability in the stand. Kalkaska sand (burned).														
92	W5	N 2	94	67	8	50	45	white pine	immature	N		40-49 years	0	
comnts Fmd : Mixed stand. Multiple ages of white pine, multiple size classes. Larger diameter white pine is pulp quality, limby. Lots of aspen in the understory. Kalkaska sand (burned).														
93	M6	M2	16		10	140	52	northern hardwood	unevenaged	Y	selection	within 0-9 years	2	
comnts Fmd : Some good quality through the stand. Tall red maple. Some maple with tops broken off. Scattered yellow birch and areas of larger diameter red maple. Occasional beech and hemlock. Stand was marked for sale but did not sell last time. Marked in yellow paint last time. Mark in orange paint this time. Access to the stand will be from the west along the southern edge of stand 89. Road will be obliterated after the sale is complete. Management objective is northern hardwoods. Alternative MO is northern hardwoods with a conifer component (balsam, spruce and hemlock). Wallace sands. Wld : leave hemlock and yellow birch														
95	Q6	Q3	7	84	8	80	30	mixed swamp conifer	low quality	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Influence zones														
comnts Fmd : Stand borders the south edge of Silver Creek Trout Pond parking lot and along Silver Creek.														
96	S6	S3	7	84	9	90	30	black spruce-swamp	mature	Y		20-29 years	0	
<u>Treatment Limiting Factors:</u> Water quality/bmps														
comnts Fmd : Mainly black spruce with tamarack, white birch, red maple and white pine. Along Silver Creek. Paquin sand														
97	L0	L0	14			0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Lowland brush corridor around Silver Creek.														
98	F6	F2	7		10	70	40	spruce-fir (uplands-including upland black spruce)	unevenaged	N		not scheduled	0	
<u>Treatment Limiting Factors:</u> Water quality/bmps														
comnts Fmd : Upland spruce with white pine. Steep slope down to Silver Creek.														
99	A2	N 2	11	10		0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Small aspen, white pine and white spruce. Kalkaska sand (burned).														
100	M6	M2	6		10	100	48	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Stand is an extension of the larger hardwood stand in Compartment 102 (stand 64). Poor quality red maple with scattered hemlock. Beech in the stand has beech scale. Treat this stand with when stand 64 is treated. Kalkaska sand.														
101	M4	U2	5			30	50	northern hardwood	low quality	N		50-59 years	0	
comnts Fmd : Semi open with juneberry, cherry and maple. Scattered merchantable cherry. Kalkaska sand Wld :														

NEWBERRY FOREST MGT UNIT

Stand Level Information

Compartment: 90

Entry Year: 2007

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA	Site Indx							
102	R6	F1	111	46	9	210	48	red pine	immature	Y	thinning	within 0-9 years	1	
<p>comnts Fmd : Planted in 1959. Stand is in need of a first thinning. Most of the stand should be able to be thinned by 3rd row thinning. Some areas may need to thin by taking 2 rows and leave 3 rows due to close spacing of the rows, mainly in the southern portions of the stand. Western edge of sale boundary should follow the small ridge paralleling the creek (buffer). Management objective is to thin the stand and increase the growth and vigor of the residual stand. No alternative Management objective needed. Kalkaska sand.</p> <p>Wld : leave the few scattered spruce for structural diversity</p>														
103	R6	R1	20	46	10	120	40	red pine	immature	N	thinning	within 0-9 years	1	
<p>comnts Fmd : Open in areas. Larger diameters near the open areas. High basal area in many spots. Thin the stand along with stand 102. Management objective is to thin the stand to improve the growth and vigor of the residual stand. No alternative management objective is needed. Kalkaska sand.</p> <p>Wld : leave white pine</p>														
104	A6	A2	3	33	9	80	50	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Edge of the adjacent red pine stand. Mix of aspen with red pine and white pine. Kalkaska sand.</p>														
105	V0	V0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
106	V0	V0	2			0		bog or muskeg	nonstocked	N		not scheduled	0	
108	A3	A3	21	14		0	46	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Clearcut in 1990. Nice thick regeneration. Quaking aspen with some maple and cherry. Kalkaska sand.</p>														
109	A3	A3	2	4		0	60	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Stand was cut as part of sale #036-97-01, "Running Bear Hardwoods". Complete 04-11-00. All aspen, hardwoods and balsam were removed. Young aspen regeneration is thick.</p>														
110	M6	M2	31		10	90	55	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand thinned as sale #036-97-01. BA is high in spots (110-120). Crowns are well spaced. Scattered large diameter spruce. Some beech in the stand. Kalkaska sand.</p>														
111	M6	M2	23		8	70	50	northern hardwood	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Clumpy maple, stump sprouts. Short heights. Lower quality and lower BA than adjacent M6 stands.</p>														
113	A6	M2	5	49	8	90	51	aspen (upland)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Small pocket of aspen with maple and white pine. Check in 10 years. Kalkaska sand.</p>														
114	A3	M3	138	13		0	50	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Sale #019-89-01. Completed fall of 1991. Aspen regeneration with maple mixed in. Kalkaska sand (burned).</p>														
115	S6	S3	8	84	9	90	30	black spruce-swamp	mature	Y		20-29 years	0	
<p><u>Treatment Limiting Factors:</u> Water quality/bmps</p> <p>comnts Fmd : Mainly black spruce with tamarack, white birch, red maple and white pine. Along Silver Creek. Paquin sand</p>														

NEWBERRY FOREST MGT UNIT

Stand Level Information

Compartment: 90

Entry Year: 2007

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA							
116	Z0	Z0	1			0	water	nonstocked	N		not scheduled	0	
comnts Fmd : North end of Brockies Trout Pond													
117	M6	M2	4		8	100	55	northern hardwood	unevenaged	N	10-19 years	0	
comnts Fmd : Small patches of hardwoods with young aspen adjacent on all sides. Fair amount of aspen encroachment (edge effect). Check in 10 years. Kalkaska sand.													
119	A3	A3	20	4		0	60	aspen (upland)	immature	N	50-59 years	0	
comnts Fmd : Sale #028-97-01, completed 02-01-01. Nice aspen regeneration with red maple. Kalkaska sand (burned).													
120	M6	M2	6		8	100	55	northern hardwood	unevenaged	N	10-19 years	0	
comnts Fmd : Small patches of hardwoods with young aspen adjacent on all sides. Fair amount of aspen encroachment (edge effect). Check in 10 years. Kalkaska sand.													
121	M4	M1	14	62	9	30	48	northern hardwood	sparse	N	80+ years	0	
comnts Fmd : Open stand with maple and cherry. Poor quality in sugar maple. Kalkaska sand (burned).													
122	A3	A3	1	4		0	50	aspen (upland)	immature	N	50-59 years	0	
comnts Fmd : Sale #028-97-01, "Speckled Aspen". 4 different patches. Quaking aspen . Nice regeneration. Kalkaska sand.													
123	A3	A3	3	4		0	50	aspen (upland)	immature	N	50-59 years	0	
comnts Fmd : Sale #028-97-01, "Speckled Aspen". 4 different patches. Quaking aspen . Nice regeneration. Kalkaska sand.													
124	M4	M1	29	62	9	30	48	northern hardwood	sparse	N	80+ years	0	
comnts Fmd : Open stand with maple and cherry. Poor quality in sugar maple. Kalkaska sand (burned).													
125	G0	G0	10			0		grass	nonstocked	N	not scheduled	0	
comnts Fmd : Openings with aspen encroachment. Kalkaska sand.													
126	A4	M2	15	17	7	20	48	aspen (upland)	low quality	N	40-49 years	0	
comnts Fmd : Small aspen. Some merchantable with pockets of hardwoods (mainly cherry). Areas in stand are more of a "U" type. Kalkaska sand (burned).													
127	A3	M2	40	18		0	50	aspen (upland)	immature	N	30-39 years	0	
comnts Fmd : Thick aspen regeneration. Western portion of the stand has more maple and cherry mixed in near stand 51. Old notes (1993): Steep slopes not cut cleanly, scattered hardwood residual left throughout stand. Kalkaska sand.													
128	V0	V0	19			0		bog or muskeg	nonstocked	N	not scheduled	0	
comnts Fmd : Dawson, Greenwood and Loxley peats													
129	A6	M3	5	58	10	110	64	aspen (upland)	mature	Y	final harvest	within 0-9 years	1
comnts Fmd : Mature aspen with red maple and scattered large spruce. M3 understory. Rot showing in the aspen. Pockets of hardwoods. Stand continues into Compartment 88. Treat the entire stand (C88 & 90) as one sale. Access to the sale is from the west off of Co Rd 453. Management objective is aspen. Alternative MO would be a mixed stand of northern hardwoods (red maple, cherry) with aspen and balsam. Kalkaska sand. Wld : leave large spruce, cherry and yellow birch													

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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	Tot. BA								
130	F5	F3	3		9	50	40	spruce-fir (uplands-including upland black spruce)	two aged	N		60-69 years	0	
comnts Fmd : Beaver have influenced the compisition of this stand. Most of the aspen has been "removed". Remaining stand is all aged with white pine, spruce, balsam, maple and white birch. Liminga-Alcona complex.														
131	V0	V0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
132	A5	N2	21	46	9	50	55	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Short aspen. White pine understory. Aspen showing some signs of rot. Lots of smaller diameter aspen throughout the stand. Scattered large aspen, white pine, and white spruce. Kalkaska sand (burned).														
133	A5	A2	17	35		70	60	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Stand clearcut in 1970. Young aspen with white birch, red maple, scattered large white pine. Beaver damage around the bogs. Aspen is healthy. Kalkaska sand.														
135	S5	Q2	3	73	8	60	30	black spruce-swamp	immature	N		20-29 years	0	
comnts Fmd : Small pocket of black spruce surrounded by aspen. Liminga-Alcona complex														
137	A5	M3	47	49	10	60	50	aspen (upland)	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : Aspen with some "wolfy" maple. Nice M3 understory. Areas in the stand that are open, more of an A4/A3. Higher component of balsam mixed in along the private property. Pocket of M4/M5. Smaller diameters near the county road. Hold for 10 year for age class diversity. Private Land to the east has been cut and is young aspen. Many of the aspen stands in close proximity to this stand are prescribed for harvest for have recently been harvested. Liminga-Alcona loam soil.														
139	A6	M3	37	49	9	80	62	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Aspen with pockets of maple and white birch. White pine present in patches in the understory. Better quality in the western portion of the stand. More open grown and lower quality near the county road and snowmobile trail. Recommend harvesting this stand. Clean up the edges and pockets of aspen. Possibly leave white birch as residual. Management objective is aspen. Alternative MO is a mixed stand of white birch (stump sprouts along with seeding from residual trees), aspen and northern hardwoods. Liminga-Alcona loam soil.														
Wld : leave some larger white birch, cherry and and some white pine														
141	A3	M2	20	7		0	50	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Stand cut as sale #027-97-01, "Three Road Aspen". Aspen regeneration is thick with a mix of red maple.														
142	A5	M3	7	45	8	60	58	aspen (upland)	immature	N		10-19 years	0	
comnts Fmd : Young aspen stand along Co Rd 455. Stand is fairly thick due to the large number of small diameter aspen and maple. Stand runs over into Compartment 88. Check for harvest in 10-20 years, If healthy, try to hold for 10 years for size diversity. Snowmobile trail borders the stand on the south side. Liminga-Alcona complex.														
144	A6	M3	14	61	10	120	60	aspen (upland)	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity														
comnts Fmd : More of a conifer component than adjacent stands. Stand crosses compartment boundary into compartment 88. Treat as one stand. Stand appears to be healthy. Leave for 10 year for diversity (age and structural). Kalkaska sand.														
145	A4	A2	1	40	8	30	55	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : Open with patches of timber. Aspen with spruce, balsam, and maple. Kalkaska sand.														

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Stand	Cover Type-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							
146	A6	M3	7	49	10	80	62	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Clones of mature aspen. Some dead aspen throughout. Low quality, short maple mixed in. Harvest this entry year. Clean up the edges along the more open stands with the sale. Management objective is aspen. Alternative MO would be a mixed stand of northern hardwoods (maple, cherry), aspen and a balsam and white pine component. Kalkaska sand.</p> <p>Wld : leave cherry, and a beech component</p>														
148	A6	M2	2	49	8	90	51	aspen (upland)	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Small pocket of aspen with maple and white pine. Stand appears to be healthy. Request from wildlife biologist to hold for 10 years for some age and structural diversity. Kalkaska sand.</p> <p>Wld : leave spruce</p>														
149	M6	M2	8		8	100	58	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Small acreage maple stand. Some good quality sugar maple. Parts of the stand are more open with some aspen. Stand continues across compartment boundary into C. 102. Treat with stand in Compartment 102 when that stand is prescribed. Kalkaska sand.</p>														
150	A6	M3	4	49	10	130	62	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Clones of mature aspen. Some rot showing. Scattered dead aspen. Low quality, short maple mixed in. Harvest this entry. Clean up the edges along the "U" type with the sale. Management objective is aspen. Alternative MO would be a mixed stand of northern hardwoods (cherry with maple) and aspen. Kalkaska sand.</p> <p>Wld : leave scattered conifers</p>														
151	A3	A3	2	10		0	55	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Young aspen, sale #30-93-01. Completed 1995. Stand was harvested at the same time as stand 4 in compartment 102. Liminga-Alcona soil complex.</p>														
152	A3	M2	5	7		0	50	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Stand cut as sale #027-97-01, "Three Road Aspen". Aspen regeneration is thick with a mix of red maple.</p>														
153	W4	A2	20		9	30	45	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Opening filling in with white pine, spruce and balsam. Open grown. Kalkaska sand.</p>														
154	M6	M2	8		8	70	48	northern hardwood	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Wallace sand.</p>														
401	G0	G0	7			0		grass	nonstocked	N		10-19 years	0	
<p>comnts Fmd : Openings with open grown white pine, jack pine and scattered A2/A3 throughout. Possibly clean up these openings if stand 2 (W6) is thinned in 10 years</p>														
403	G0	G0	40			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Large opening with scattered bushy white pine. Bracken fern and reindeer moss. Kalkaska sand.</p>														
407	G0	G0	21			0		grass	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Opening with pockets of A2. Rolling hills. Kalkaska sand (burned).</p>														

NEWBERRY FOREST MGT UNIT

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	A c r e s	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA							
409	G0	G0	16			0	grass	nonstocked	N		10-19 years	0	
comnts Fmd : Openings with open grown white pine , jack pine and scattered A2/A3 throughout. Possibly clean up these openings if stand 2 (W6) is thinned in 10 years													
412	G0	G0	22			0	grass	nonstocked	N		not scheduled	0	
417	G0	G0	4			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Liminga-Alcona complex													
418	G0	G0	6			0	grass	nonstocked	N		not scheduled	0	
425	G0	G0	47			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Open, rolling hills. Scattered cherry and aspen. Snowmobile trail runs through stand.													
429	G0	G0	47			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grass opening with a high number of open grown, limby white pine. Some areas within the stand could type out as a W4. Separated from stand 425 due to the amount of white pine within the stand. Kalkaska sand.													
434	G0	G0	56			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Open, pockets of aspen, cherry and some hawthorne.													
436	G0	G0	4			0	grass	nonstocked	N		not scheduled	0	
438	G0	G0	10			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Open, pockets of aspen, cherry and some hawthorne.													
440	G0	G0	41			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Kalkaska sand (burned).													
443	G0	G0	8			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Snowmobile trail runs through the stand. Liminga-Alcona soil complex.													
447	G0	G0	30			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Opening with large spruce. Kalkaska sand (burned).													
451	G0	G0	122			0	grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : Large grass opening filling in with small aspen and cherry. Old plow lines around the edges of the stand (N,E, & W). Possible old fire or RX burn?? No records found to support either. Recommend a prescribed burn to maintain as a large grass opening, reduce the aspen and cherry encroachment. Also reduce the bracken and mosses to promote more grasses and forage. Historically a sharptail grouse area, so try to establish favorable open habita. Repetitive burning may be needed until the objective is accomplished. Kalkaska sand.													

**NEWBERRY FOREST MGT UNIT**

**Stand Level Information**

**Compartment: 90**

**Entry Year: 2007**

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				Age	D B H	Tot. BA							
455	G0	G0	119			0	grass	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : Large grass opening filling in with small aspen and cherry. Prescribed burn to maintain as a large grass opening, reduce the aspen and cherry encroachment. Also reduce the bracken fern and mosses, promoting more grasses and forage. Historically a sharptail grouse area, so try to establish favorable open habitat. Repetitive burning may be needed until the objective is accomplished. Kalkaska sand.													
466	G0	G0	13			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Kalkaska sand													
474	G0	G0	15			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large grass opening with some old white pie stumps. Rolling hills. Kalkaska sand.													
476	G0	G0	4			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Opening with small aspen patches. Kalkaska sand (burned).													
477	G0	G0	17			0	grass	nonstocked	N		not scheduled	0	
494	G0	G0	3			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Parking area and grass opening at the Silver Creek Trout Pond dam.													
499	G0	G0	3			0	grass	nonstocked	N		not scheduled	0	

**Total Acres..... 3260**