

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							
1	A 3	A 3	122	16		0	50	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Aspen regeneration. Open areas. Component of white pine, spruce and balsam, some black cherry and white birch. "Peterson Homestead" timber sale (031-89-01). Kalkaska sand.														
3	A 3	A 3	113	15		0	48	aspen (upland)	nonstocked	N		30-39 years	0	
comnts Fmd : Nice aspen regeneration, avg 15-25 ft tall. Component of white pine, spruce and balsam. Some black cherry and white birch. Scattered low quality residual white pine and hardwoods from last harvest. "Teardrop sale" (010-90-01). Kalkaska sand.														
4	W 6	W 2	12		10	130	48	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Mixed stand of white pine and aspen. Mainly all aged white pine with pockets and clones of low quality, mature aspen. Lots of structural diversity. Balsam and spruce in the understory. Stand makes a good wildlife corridor. Some large 22-24 inch white pine. Hardwood pulp consists of red maple and black cherry. Kalkaska sand.														
5	M 6	F 2	8		10	110	50	northern hardwood	unevenaged	N	shelterwood-prep	within 0-9 years	2	
comnts Fmd : Lower quality red maple with aspen and large white pine and white spruce. Thicker balsam understory. Some good quality red maple with a lot of low quality red maple. Some dead tops and decline in some of the white pine. Aspen is showing some rot. Prescribe stand for harvest. Shelterwood w/reserves to meet retention guidelines. Residual BA of 50 sq ft, removing low quality red maple, white pine aspen and a few white spruce. Retain good quality red maple, healthy white pine and white spruce. Wld : leave red maple, white pine in good condition and spruce.														
6	M 6	M 3	29		10	130	53	northern hardwood	unevenaged	Y	selection	within 0-9 years	1	
comnts Fmd : Primarily red maple with a sugar maple component. M6 stand with M9 pockets. Best quality is in the pole size trees (9-10 inches). Some large. Overmature trees throughout. Stand slopes to the north and east. Decrease in quality near the bogs. Good advanced regeneration in the understory. Areas with Y. Birch regeneration. Stand will be treated by single tree selection system of harvest. Residual trees should favor the best quality pole size red maple and hard maple. Release areas of advanced regeneration (gaps). Retain a component of yellow birch where present in the stand. Higher component of conifers along stand edges. Retain a component of conifers present in the stand. Wld : retain a component of conifers and yellow and white birch in various diameters. Protect the boggy or wet areas.														
7	V 0	V 0	3			0		bog or muskeg	nonstocked	N		not scheduled	0	
8	M 6	F 3	32	60	9	120	58	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Stand has lots of species variety. Low quality red maple, spruce, balsam, white pine, and good quality aspen. Thick F3 understory throughout most of the stand. A few scattered hemlock. Maple is showing decline and lots of rot. Site is well suited for aspen. Small 1-2 ft aspen seedlings throughout. Treat stand by clearcut with reserves harvest system. Convert the stand to aspen. Retention/stand diversity will be obtained by leave patches and also individual trees. Leave small buffers along the bog edges. Mark some large white spruce and white pine for residual. Leave all hemlock and all conifers 4 inches or less in diameter. Scattered large, unmerchantable aspen to be left. Wld : leave hemlock and some large spruce and white pine. Leave all small conifers less than 4 inches in diameter. Leave a cherry component of various diameters and birch. Protect bog areas with a buffer.														
9	M 6	M 3	7		10	120	52	northern hardwood	unevenaged	Y		10-19 years	0	
Treatment Limiting Factors: Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : Northern hardwoods with advanced M3 understory. Fairly good quality in most of the stand. Beech is in bad shape. Quality decreased and balsam understory increases along southern stand edge. Raptor nest (old) west of the road. Scattered yellow birch. Hold stand and harvest as part of larger stand in the compartment to the north (Stand 118, Comp 91) instead of creating a stand line on the section line.														

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					B	Tot. BA								
10	W 6	W 2	33		10	120	50	white pine	immature	N		30-39 years	0	
<p>comnts Fmd : White pine stand with aspen pockets. Thick basal area in many areas. Almost an even aged immature white pine stand in spots. Good quality poles (9-10 inch). More open areas have lower quality, limbier white pine. Hold this stand to treat with larger stand in the compartment to the east (stand 2, Comp 90). Treat all as one stand instead of dividing at the section line.</p>														
11	W 4	M 2	18	62		10	45	white pine	nonstocked	N		50-59 years	0	
<p>comnts Fmd : Limby, 1-2 stick "cabbage" pine. Clumps of aspen, scattered maple and cherry. Open area filling in with some merchantable trees.</p>														
13	W 6	W 2	21		9	70	48	white pine	low quality	N		20-29 years	0	
<p>comnts Fmd : Semi open stand of low quality aspen and open grown white pine. Pockets of older aspen. White spruce mixed in. Open areas of more W3/A2. Could type out as A5 or W5.</p>														
14	J 2	A 3	38	3		0	47	jack pine	nonstocked	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Slim's Jack Pine, sale #42-027-00-01. Sale completed on 8/30/2002. FTP #42-533 completed 5/2004. Regeneration count completed 5/8/2007 = 959 trees/acre (783 A, 137 JP, 39 WP). Continue to monitor for success - JP is still < 12 inches in height. Good component of cherry regeneration (additional 293 tr/ac) present.</p>														
15	A 6	M 2	15	56	10	100	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Aspen stand with a good component of low quality, limby white pine. Some spruce, balsam and scattered jack pine. Stand edges have lots of limby white pine and small diameter aspen. Better quality white pine in western poriton of the stand. Good component of white pine 2-4 inches in diameter. Prescribe stand for harvest. Clearcut with reserves. Leave spruce and cherry as residual, mark white pine to cut (leave limby white pine as residual/retention). Small diameter aspen can be left along stand edges. Leave conifers 4 inches or less in diameter.</p> <p>Wld : leave spruce and cherry and large limby white pine and small 2-4" conifers</p>														
17	V 0	V 0	2			0		bog or muskeg	nonstocked	N		not scheduled	0	
<p>comnts Fmd : small bogs within the hardwood, white pine and aspen stands.</p>														
18	V 0	V 0	1			0		bog or muskeg	nonstocked	N		not scheduled	0	
<p>comnts Fmd : small bogs within the hardwood, white pine and aspen stands.</p>														
19	W 6	W 2	1		10	120	50	white pine	immature	N		30-39 years	0	
<p>comnts Fmd : White pine stand with aspen pockets. Thick basal area in many areas. Almost an even aged immature white pine stand in spots. Good quality poles (9-10 inch). More open areas have lower quality, limbier white pine. Hold this stand to treat with larger stand in the compartment to the east (stand 2, Comp 90). Treat all as one stand in stead of dividing at the section line.</p>														
20	W 6	W 2	3	64	10	120	50	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : White pine stand with some red pine mixed in. Aspen throughout. White pine is of variable ages. Diameters are variable. Lots of structural diversity. Some weevil damage. Open in areas, especially western portion. Stand should be treated with the large portion of the stand in the compartment to the east (Comp 90, stand 12).</p>														
21	U 0	U 0	30			0		upland brush	nonstocked	N		60-69 years	0	
<p>comnts Fmd : Open area filling in with a mix of all species. White pine, jack pine, cherry, aspen, red maple.</p>														
22	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Small pot hole lakes</p>														

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23	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
24	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
25	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
27	J 5	M 2	7	49	8	60	53	jack pine	mature	N		10-19 years	0	
comnts Fmd : Jack pine with aspen and open grown, limby white pine. Low quality aspen. Stand is open in many areas. Some mortality in the jack pine. Young jack pine, aspen and white pine in open areas and throughout the understory. ORV trail runs through the stand. Kalkaska sand.														
28	W 4	W 2	5		10	20	50	white pine	immature	N		20-29 years	0	
comnts Fmd : Limby, open grown white pine. W2/W3 understory.														
29	W 6	W 2	34		10	120	50	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : All aged white pine stand. Good aspen component (low quality). Most of the white pine is limby. Best quality is in the 8-10 inch classes. Some mortality in the white pine. Also a cherry and maple component. Adjacent private land to the west has been essentially clearcut. Hold stand from treatment due to adjacent cutting on private land. Check this stand in 10-20 years for possible management.														
30	W 6	W 1	13		9	110	50	white pine	immature	N		20-29 years	0	
comnts Fmd : All aged white pine stand with a good aspen component along Co Rd 415. Routed DNR sign in the stand stating "Peterson Homestead, Farmed 1917-1925, Acquired by State of Michigan 1931". Historic significance? Hold off treating this stand until the historical significance is determined for this site.														
31	A 6	M 2	12	54	10	70	52	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
comnts Fmd : Variable aspen stand. Pockets of mature aspen and other areas of thicker white pine with aspen. Good white pine component along the edges. Pockets of younger aspen, aminly in open areas. Decline and mortality in the aspen. Prescribe the stand for treatment. Clearcut with reserves. Retain all conifers 4 inches or less in diameter. Mark white pine to leave as residual (large, limby). Leave smaller aspen along stand edges. Wld : leave all conifers 4" and less in diameter and some large white pine. In addition, leave cherry in the stand.														
32	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
33	W 6	W 2	67		10	140	50	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : Limby white pine. All aged stand, variable diameters. Lots of large diameter white pine, but very limby. Red Pine throughout especially near the open areas where it was planted in 1960. Component of aspen.														
34	R 6	W 1	5	47	11	70	52	red pine	immature	N		20-29 years	0	
comnts Fmd : Red pine stand with a component of and areas of white pine. Fairly open canopy. Planted in 1960. Fire within the stand in 2003, scarred most of the red pine.														
35	R 4	W 2	36	47	11	20	52	red pine	immature	N		60-69 years	0	
comnts Fmd : Typed as a "U" last entry year. Stand was planted with red pine around 1960. Can still see the old furrows. Very open, poor survival. Planting did not take well within this stand but did in other areas. Open grown, limby red pine.														

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					B	Tot. BA								
36	W 6	W 3	26	10	100	50	white pine	unevenaged	N			10-19 years	0	
comnts Fmd : All aged white pine stand. Western portion of the stand has a high component of red pine that was planted around 1960. Multiple diameter classes of white pine. White pine and red pine in the understory. Occasional aspen throughout stand. Stand continues into Comp 90 (stand 70).														
37	A 2	W 2	12	17		0	47	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Open area filling in with low quality aspen and limby white pine. Scattered merchantable white pine. Pockets of A4/W4. Stand continues into the compartment to the east (stands 71, 72 Comp 90). A3/A2/W2														
38	R 6	W 2	20	47	10	150	52	red pine	immature	N		10-19 years	0	
comnts Fmd : Mixed stand of red pine and white pine with some aspen thoroughout. Planted red pine and natural white pine. Pockets of aspen clones. Red pine was planted around 1960.														
39	W 6	W 2	24	10	120	50	white pine	unevenaged	N			20-29 years	0	
comnts Fmd : Very thick stand in spots. Lots of small diameter merchantable white pine. Other spots are more open. Clones of aspen (5-15 trees) especially along the county road. Pockets of large diameter (16-22 inch) limby white pine with weevil damage.														
40	R 4	W 2	6	47	11	20	52	red pine	immature	N		60-69 years	0	
comnts Fmd : Typed as a "U" last entry year. Stand was planted with red pine around 1960. Can still see the old furrows. Very open, poor survival. Planting did not take well within this stand but did in other areas. Open grown, limby red pine.														
41	A 6	M 2	35	54	9	80	52	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
comnts Fmd : Aspen stand with pockets of smaller diameter aspen and areas of large diameter, mature aspen. Mature aspen throughout. Red pine and white pine throughout (thicker in pockets). Aspen showing some decline, rot and dead tops. Scattered jack pine in the southern portion of the stand. White pine is limby, pulp quality. Dead aspen and jack pine in the stand. Prescribe for treatment. Clearcut with reserves Wld : leave all conifers 4 " and less. Leave a cherry component and some mature red and white pine and spruce.														
42	Z 0	Z 0	2			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
43	J 5	W 2	7	61	9	50	60	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Mature jack pine stand. Blowdown and wind damage. Dead trees and others with dead tops. Open areas with lower BA. Younger jack pine along the stand edges. Lots of mortality and blowdown. Scattered white pine. Stand is in need of management. Prescribe for clearcut. Small acreage stand with high number of snags. No retention. Wld : leave some white pine. Leave standing snags														
44	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Small pot hole lakes														
45	R 6	W 2	14	47	10	140	53	red pine	immature	N	thinning	within 0-9 years	1	
comnts Fmd : Red pine stand planted in 1960. Thick pockets and areas where its more open. White pine component within the stand. BA ranges from 70 up to 180. Open areas have advanced white pine in the understory. No red pine regeneration throughout most of the stand. Middle of the stand is very open with BA down to 40 sq ft. A few small pockets of jack pine. Moderate quality to the red pine, shorter heights, limby. Showing characteristics of a natural pine stand due to the variability. Prescribe stand for treatment. Shelterwood harvest. Target BA of 50 sq ft average. Wld : leave white pine of various age classes in the stand.														

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					B	Tot. BA	Site Indx							
46	X 0	X 0	9			0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : County Road 455 and the cleared Right-of-Way.														
47	W 6	W 2	4		11	120	50	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : Very structurally diverse stand. Mostly 8-10 inch white pine, some large 16 inch white pine. Scattered red pine throughout. Lots of spruce and some maple in the understory. Scattered low quality aspen. Leave these stands as retention/diversity when Stand 49 is harvested.														
48	W 6	W 2	10		11	120	50	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : Very structurally diverse stand. Mostly 8-10 inch white pine, some large 16 inch white pine. Scattered red pine throughout. Lots of spruce and some maple in the understory. Scattered low quality aspen. Leave these stands as retention/diversity when Stand 49 is harvested.														
49	R 6	W 2	82	47	10	140	53	red pine	immature	N	shelterwood-seed	within 0-9 years	1	
comnts Fmd : Red pine stand planted in 1960. Thick pockets and areas where its more open. White pine component within the stand. BA ranges from 70 up to 180. Open areas have advanced white pine in the understory. No red pine regeneration throughout most of the stand. Middle of the stand is very open with BA down to 40 sq ft. A few small pockets of jack pine. Moderate quality to the red pine, shorter heights, limby. Showing characteristics of a natural pine stand due to the variability. Prescribe stand for treatment. Shelterwood harvest. Target BA of 50-60 sq ft average. Maintain a component of aspen and white pine within the stand. Possibly leave BA slightly higher along Co Rd 455 for visual concerns (70 sq ft within 50 ft of road).														
Wld : leave aspen and most white pine in the stand														
50	W 6	W 3	38		10	100	48	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : All age, natural white pine stand with a component of low quality aspen. Open areas have advanced white pine regeneration, 1 inch up to 6 inch dbh. Pockets of more mature white pine. Lots of size class and structural diversity. Best quality is in the 8-10 inch dbh range.														
51	W 6	W 2	18		11	130	50	white pine	unevenaged	N		10-19 years	0	
comnts Fmd : White pine stand, all aged. Lots of variability throughout the stand in dbh, BA and also structural diversity. Some large diameter white pine (14-18 inch) but most are pulp quality. Pockets of W9.														
53	W 6	W 2	38		10	120	50	white pine	unevenaged	N		20-29 years	0	
comnts Fmd : Very thick stand in spots. Lots of small diameter merchantable white pine. Other spots are more open. Clones of aspen (5-15 trees) especially along the county road. Pockets of large diameter (16-22 inch) limby white pine with weevil damage. Eastern 1/3 of the stand is more open with smaller diameters, shorter heights, and mixed in with some lower quality aspen.														
54	A 2	W 2	4	17		0	47	aspen (upland)	immature	N		50-59 years	0	
comnts Fmd : Open area filling in with low quality aspen and limby white pine. Scattered merchantable white pine. Pockets of A4/W4. Stand continues into the compartment to the east (stands 71, 72 Comp 90). A3/A2/W2														
57	W 6	W 3	10		10	70	50	white pine	unevenaged	N		40-49 years	0	
comnts Fmd : All aged white pine stand. Surrounded by large opening complex. Large diameter, weeviled white pine with better quality younger white pine. Thick W3 understory.														

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					B	Tot. BA								
58	A 6	W 2	59	68	10	90	59	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Aspen stand with a good white pine component. More white pine (short, limby) along the stand edges. Pockets of white pine throughout. Aspen is in clumps/clones. Aspen is showing signs of rot and decline. Red maple component. Scattered white birch is dying out. Southern end of the stand is very low quality aspen with dead tops. Open areas with low quality near the road. Lots of species diversity throughout. Stand is in need of harvest. Prescribe for treatment. Clearcut with reserves. Leave some large diameter, limby white pine as residual along with all white birch. Lots of small aspen, maple and conifers to be left after the harvest.</p> <p>Wld : Leave all non-white pine conifers (unless needed to remove for maneuverability) and cherry. Leave much of the large diameter white pine</p>														
59	Z 0	Z 0	3			0		water	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Wolverine Lake</p>														
60	A 3	A 3	5	12		0	56	aspen (upland)	immature	N		40-49 years	0	
61	A 3	A 3	4	12		0	56	aspen (upland)	immature	N		40-49 years	0	
63	W 5	W 3	71		11	50	50	white pine	unevenaged	N		50-59 years	0	
<p>comnts Fmd : Semi open white pine stand. BA is variable throughout. Stand ranges from a W4/W3 to a W5/W3 to a W8/W4/W3. Most of the stand is open grown white pine filling in old openings. W2/W3 understory is thick in many spots. Aspen component throughout the understory.</p>														
65	A 3	A 3	50	16		0	46	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Stand harvested in 1991. Sale #004-91-01 "Wolverine Lake Sale". Completed 1993. Nice aspen regeneration. Balsam, spruce and white pine mixed in. Some cherry in more open areas.</p>														
66	W 9	W 2	31		14	110	50	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : Large diameter white pine mixed with aspen, maple and spruce. Understory is a mix of maple, white pine, and some spruce and balsam. Understory 10-20 ft tall. More aspen along the west side of the stand. Stand is more open in the southern portion.</p>														
67	W 2	G 0	5	16		0	50	white pine	immature	N		70-79 years	0	
<p>comnts Fmd : Opening growing into white pine. Heights are 10-12 ft up to 20 ft tall. Scattered aspen.</p>														
69	A 6	M 2	20	56	9	80	55	aspen (upland)	low quality	Y	final harvest	within 0-9 years	3	
<p>comnts Fmd : Poor quality aspen throughout. Clones of nicer, taller aspen. Most of the aspen is showing dieback and dead tops. Component of balsam, spruce, white birch, cherry and white pine throughout. Aspen is mature. Prescribe for treatment. Clearcut with reserves. Retain all hemlock, and conifers 4 inches and less in diameter. Retain some spruce, balsam and limby white pine as residual as well as a few low quality aspen.</p> <p>Wld : leave a few large conifers (any species) , hemlock and small conifers (4" and less) and a cherry component.</p>														
70	U 0	U 0	16			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : Opening with fair amount of brush, cherry, pockets of young aspen, scattered spruce and white pine.</p>														
71	W 6	M 3	52	87	10	70	53	white pine	two aged	N		30-39 years	0	
<p>comnts Fmd : Stand harvested in 2004/2005 as "Wolverine Lake Mix" (035-01-01). White pine was left as residual. All other species were removed. Good aspen and maple regeneration in areas where canopy was opened up. Young white pine 3-4 inch diameter is taking off. W5/W6 areas and W4/W7 pockets. Check white pine BA in 30 years once regeneration is established for possible thinning if needed.</p>														

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72	M 5	M 3	19	19	10	40	50	northern hardwood	unevenaged	N		70-79 years	0	
<p>comnts Fmd : Stand was thinned as "Wolverine Lake Mix" (035-01-01). Suffered severe wind damage twice since the thinning. At least 1/2 of the residual basal area has blown down. Much of the standing timber has top dieback or dead tops. Thick aspen, cherry and some maple stump sprouts 6-10 ft tall for regeneration. Good regeneration coming in. Manage the stand for the new understory. Check for possible management in 60-70 years. **1997 notes stated to plant white pine and red oak after the harvest. As of 2005, planting had yet to be completed.</p>														
73	W 5	W 2	26		9	40	46	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Open grown white pine stand. Very limby white pine. Good spruce component. Some aspen mixed in.</p>														
74	W 6	M 2	8		10	110	50	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : All age white pine stand. More aspen within the northern portion of the stand. High component of hardwoods. Lots of structural diversity. Mortality and blowdown.</p>														
75	W 3	A 3	41	25		0	52	white pine	immature	N		60-69 years	0	
<p>comnts Fmd : W3/A3 with A4/W3 pockets. Low quality aspen. Opening filling in.</p>														
76	W 6	W 2	15		10	70	50	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : Limby white pine with aspen. Thick M3/A3/W3 understory throughout.</p>														
78	A 4	A 2	87	20	6	10	48	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : Mainly young aspen with cherry. Scattered white pine, some mature pockets. Stand ranges from an A2/M2 to an A4. Thick A3 in areas. Variable ages, stand density and species composition throughout the stand. Open area naturally filling in with trees over time. Typed as a "U" last entry year.</p>														
80	A 4	W 2	8	41	6	10	46	aspen (upland)	low quality	N		20-29 years	0	
<p>comnts Fmd : Opening filling in with low quality aspen. Aspen showing signs of rot in many trees. Open grown, short.</p>														
81	A 6	F 2	33	68	10	100	59	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Mature aspen, showing some rot and decline. Throughout the stand the aspen is in bad shape. Edge of the stand along stand 82 has a higher component of white spruce and white pine. Fair amount of red maple in the southern portion of the stand. Understory of balsam, spruce, maple and beech. Prescribe for harvest. Clearcut with reserves. Retain some large white pine and spruce. Mark a few patches of hardwoods to leave (small islands). Wld : leave some large white pine and spruce. Leave cherry and a paper birch component if it exists.</p>														
82	M 6	M 2	12		10	130	50	northern hardwood	unevenaged	Y	selection	within 0-9 years	2	
<p>comnts Fmd : Mainly red maple with beech. Most of the beech is dead or dying due to BBD. Good amount of red maple 14-16 inch in diameter. Larger red maple is lower quality. Some mortality. Pockets of M9. Good black cherry component. Hemlock throughout. Prescribe for treatment. Single tree selection harvest with regeneration gaps. Leave all hemlock. 1997 comments mentioned underplanting white pine and red oak after treatment. Stand was not treated last entry year. Wld : leave hemlock and a cherry component (of varying diameters). Underplant oak and white pine if possible..</p>														
84	A 5	W 2	64	41	8	40	46	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Stand has a lot of variability. Pockets of A5/A6, pockets of W6, areas of A3/A4. Stand is very open in spots. Open areas have good white pine and aspen regeneration 10-20 ft tall. Pockets of mature aspen with some rot showing up. Most of the aspen in the stand is younger and healthy. Some cherry and jack pine.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
85	A 6	F 2	8	68	10	100	59	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<p>comnts Fmd : Mature aspen, showing some rot and decline. Throughout the stand the aspen is in bad shape. Edge of the stand along stand 82 has a higher component of white spruce and white pine. Fair amount of red maple in the southern portion of the stand. Understory of balsam, spruce, maple and beech. Prescribe for harvest. Clearcut. No retention. Small acreage, narrow stand, surrounded by similar cover types. Leave all conifers 4 inches and less in diameter after harvest.</p> <p>Wld : leave all conifers 4 inches and less in diameter.</p>														
86	M 6	M 3	20		10	130	50	northern hardwood	unevenaged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p> <p>comnts Fmd : Mainly red maple and black cherry with some hard maple. Lots of white pine, aspen and balsam along the western stand edge. Large diameters along the eastern edge. Light mortality and dieback. Areas of blowdown along the private line (result of PVT cutting?). Some quality in the hard maple and black cherry. Lots of doubles, forks, etc in the red maple. Prescribe for harvest. Single tree selection harvest. Reduce BA to 70 sq ft average. Leave a component of white pine, aspen and balsam along the stand edge. Possible timber trespass? ***Hold for 10 years.</p> <p>Wld : maintain diversity of the stand. Leave all conifers and cherry and yellow birch of various diameters.</p>														
87	A 5	A 2	16	41	9	40	48	aspen (upland)	two aged	N		10-19 years	0	
<p>comnts Fmd : Short 3-4 stick aspen. Mostly open grown. Variability in heights, basal area, age of the aspen. Understory of aspen with some white pine. Low quality and some rot in areas. Possible harvest in 10 years?</p>														
89	W 5	W 3	14	29	8	50	52	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Large limby white pine and low quality aspen over a thick understory of white pine. Stand overstory is sparse in many areas. Understory is thick throughout. Site better suited for white pine.</p>														
90	W 5	W 2	3	29	6	40	52	white pine	immature	N		40-49 years	0	
91	U 0	U 0	10				0	upland brush	nonstocked	N		not scheduled	0	
92	W 5	W 3	21	29	8	50	52	white pine	immature	N		40-49 years	0	
<p>comnts Fmd : Large limby white pine and low quality aspen over a thick understory of white pine. Stand overstory is sparse in many areas. Understory is thick throughout. Site better suited for white pine.</p>														
93	X 0	X 0	7				0	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 415 and the cleared Right-of-Way.</p>														
94	A 4	A 3	27	41	7	20	48	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Young aspen with clumps of older aspen with higher basal area. A few clumps of maple. Mostly an open stand.</p>														
96	M 6	M 3	8		10	90	50	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Red maple with some hard maple, cherry and aspen. Scattered large diameter white pine and spruce. Medium quality to most of the maple. Understory of M3. Small acreage stand bordering along private property.</p>														
97	A 3	W 2	20	17			0	47 aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : "Grouse Drum Sale" #012-90-01. Nice aspen regeneration approx 20 ft tall. Good component of white pine and spruce regeneration mixed in.</p>														

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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								
98	W 9	F 2	4		16	130	50	white pine	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand borders the west side of Co Rd 415. Large diameter, tall white pine over maple, spruce, balsam and aspen. Some white pine over 30 inches in diameter. All aged, pockets of two aged. Not much quality in the red maple. Component of yellow birch and aspen. Understory of balsam and maple.</p>														
100	A 4	A 3	9	40	7	30	50	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : Young aspen. Pockets of thicker, more mature aspen. Nice A3 understory. Lots of aspen 3-5 inches in diameter. Small limby white pine throughout. Short heights on the aspen.</p>														
101	W 6	W 2	2		11	70	46	white pine	unevenaged	N		10-19 years	0	
102	W 6	W 2	8		10	70	50	white pine	immature	N		10-19 years	0	
103	A 6	A 3	5	46	9	70	58	aspen (upland)	immature	N		10-19 years	0	
<p>comnts Fmd : Thick, young aspen stand. Healthy. Some areas with slightly older aspen. Scattered large diameter white spruce and white pine. M3/A3 understory. Change in topography between this stand and the adjacent aspen stand (stand 105).</p>														
104	A 3	A 3	103	17			46	aspen (upland)	immature	N		40-49 years	0	
<p>comnts Fmd : Young Aspen, 12-15 ft tall. "East Creek Aspen Sale" (007-90-01)</p>														
105	A 6	F 2	7	59	10	90	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Partially open stand. Mature aspen. Some rot and cankers starting. Good component of 2-5" dbh white spruce to leave as residual after the harvest. Large dbh, limby white pine. Lots of small white pine in the understory. A couple of tamarack. Larger diameters, taller and more open than adjacent stand (stand 103). Prescribe for harvest. Clearcut with reserves. Leave some large white pine, smaller spruce and balsam.</p> <p>Wld : leave some large white pine and conifers 4 inches in diameter and less. Leave cherry</p>														
106	W 4	W 3	21	29	6	30	52	white pine	immature	N		30-39 years	0	
<p>comnts Fmd : Stand borders on west side of Co Rd 415. Mainly thick W3/A3 with scattered residual overstory of white pine and aspen. Samll diameter, limby white pine with short low quality aspen.</p>														
107	A 6	F 2	34	60	9	80	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Semi open aspen stand with white pine, white spruce, maple, cherry and balsam. Pockets of mature aspen and other areas are more open with young aspen. Mature aspen is showing some decline. Originally stands 107 and 108 were both part of one large stand. Split into two stands for harvesting (leave 1/2 for diversity). Stand 108 will be left for diversity for 10 years, more open with higher component of younger aspen. Stand 107 will be harvested this entry year. Clearcut with reserves. Leave large diameter limby white pine, leave all spruce.</p> <p>Wld : leave large diameter white pine and spruce unless needed to remove for maneuverability. Leave cherry in various diameters.</p>														
108	A 6	F 2	47	60	9	80	50	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 : Semi open aspen stand with white pine, white spruce, maple, cherry and balsam. Pockets of mature aspen and other areas are more open with young aspen. Mature aspen is showing some decline. Originally stands 107 and 108 were both part of one large stand. Split into two stands for harvesting (leave 1/2 for diversity). Stand 108 will be left for diversity for 10 years, more open with higher component of younger aspen. Stand 107 will be harvested this entry year.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D B Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
109	A 6	F 2	17	70	11 120	50	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	
<p>comnts Fmd : Large diameter, mature and overmature aspen. Aspen is showing decline, rot and some mortality. Larger diameter and taller heights in the aspen than the adjacent aspen stand to the north. Good component of large diameter white pine (limby and tall). Higher BA of white pine near the creek corridor. Some blowdown in spots. Prescribe for harvest. Clearcut with reserves. Leave a 2 chain wide buffer near the creek where white pine basal area increases, diversity and retention.</p> <p>Wld : leave some large spruce and cherry component</p>													
110	L 0	L 0	3				lowland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : East Creek with tag alder brush. Spring and beaver dams throughout.</p>													
111	M 5	M 3	75		9 60	46	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : M5 stand with areas and pockets of M6. Other areas of M4/M3. Good regeneration in the understory. Yellow birch in spots. Beech is in bad shape (BBD). Red maple has some top dieback.</p>													
112	U 0	U 0	10				upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd :</p>													
113	U 0	U 0	18				upland brush	nonstocked	N		not scheduled	0	
114	M 6	M 2	30		10 140	50	northern hardwood	unevenaged	Y	thinning	within 0-9 years	2	
<p>comnts Fmd : Red maple stand with a component of hard maple. Scattered large white pine and white spruce. Lots of large diameter pulp quality red maple. Pockets of M9. Red maple has forks, doubles, multiple stems. Best quality in the stand is in the 9-10 inch diameter class. Quality decreases in the southern end of the stand. Beech in the stand is all but dead (BBD). Good understory throughout. Prescribe for treatment. Single tree selection harvest. Residual BA of 70-80. Remove overmature red maple. Favor the best quality trees (9-10 inch poles) for residual. Maintain a component of all species, retain some large diameter red maple.</p> <p>Wld : maintain species diversity for all species in the stand. Leave some large red maple and white pine and beech. Leave all hemlock.</p>													
116	M 6	M 3	89		10 80	52	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Stand harvested in 2003 as "East Creek Hardwoods" (021-99-01). Red maple stand with some beech and yellow birch. A component of hard maple. Beech is dying out of the stand (BBD). Red maple stump sprouts throughout from the harvest. Some blowdown patches. Most of the stand has very good regeneration from the harvest. **1997 notes stated to plant white pine and red oak after the harvest was completed. Planting completed as of 5/31/2006 (FTP 42-511).</p>													
117	U 0	U 0	11				upland brush	nonstocked	N		50-59 years	0	
<p>comnts Fmd : Open with cherry throughout. Rolling topography.</p>													
118	M 6	M 3	20		11 110	50	northern hardwood	unevenaged	N		10-19 years	0	
<p>comnts Fmd : Red maple with hard maple and a good component of yellow birch. Lots of pockets of larger diameter trees (M9 pockets). Lower basal area than adjacent M6 stand to the east (Stand 114). Lots of yellow birch regeneration in the understory. A fair amount of blowdown and broken out tops. Advanced understory in the open areas (open canopy).</p>													
119	F 6	F 2	33	42	9 110	46	spruce-fir (uplands- including upland black spruce)	immature	N		not scheduled	0	
<p>comnts Fmd : Balsam, white spruce, red maple and large diameter white pine. Stand borders East Creek for the southern portion fo the stand. More white pine and large spruce in the southern portion while the north end has more balsam, spruce and maple. Makes a nice N/S travel corridor.</p>													

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg. D		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA								
120	M 6	M 3	10		11	70	55	northern hardwood	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Northern hardwoods stand into the access site at Peanut Lake. Approx. 10 acre parcel surrounded by small private parcels. Stand appears to have been cut heavily in the past. Good advanced regeneration throughout. Beech Bark Disease throughout, even on the saplings. Maple regeneration in open areas.</p>														
121	M 9	M 3	34		14	80	55	northern hardwood	unevenaged	N		not scheduled	0	
<p>comnts Fmd : Northern hardwoods stand around Bass Lake SF Campground. Most of the beech is dead (BBD). Mostly hard maple and red maple with more hemlock and yellow birch near the lake. Large White pine near the lake also. Thick M3 understory where the beech has died out and where the hazard tree removal was done in the campground.</p>														
123	R 6	M 2	1	56	10	110	48	red pine	immature	N	thinning	within 0-9 years	3	
<p>comnts Fmd : Small patch of red pine and scotch pine planted on the west side of Co Rd 415. Red pine is doing well. Scotch pine is poor quality with some blowdown. Remove the scotch pine from the stand.</p> <p>Wld :</p>														
124	V 0	V 0	5					bog or muskeg	nonstocked	N		not scheduled	0	
125	X 0	X 0	6					other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : County Road 415 and the cleared Right-of-Way.</p>														
127	J 5	M 2	2	49	8	60	53	jack pine	mature	N		10-19 years	0	
<p>comnts Fmd : Jack pine with aspen and open grown, limby white pine. Low quality aspen. Stand is open in many areas. Some mortality in the jack pine. Young jack pine, aspen and white pine in open areas and throughout the understory. ORV trail runs through the stand. Kalkaska sand.</p>														
129	W 6	W 2	5		10	120	50	white pine	unevenaged	N		20-29 years	0	
<p>comnts Fmd : All aged white pine stand. Good aspen component (low quality). Most of the white pine is limby. Best quality is in the 8-10 inch classes. Some mortality in the white pine. Also a cherry and maple component. Adjacent private land to the west has been essentially clearcut. Hold stand from treatment due to adjacent cutting on private land. Check this stand in 10-20 years for possible management.</p>														
130	W 6	W 1	7		9	110	50	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : All aged white pine stand with a good aspen component along Co Rd 415. Routed DNR sign in the stand stating "Peterson Homestead, Farmed 1917-1925, Aquired by State of Michigan 1931". Historic significance? Hold off treating this stand until the historical significance is determined for this site.</p>														
214	J 2	A 3	7	3		0	47	jack pine	nonstocked	N		within 0-9 years	0	other - specify in remarks
<p>comnts Fmd : Slim's Jack Pine, sale #42-027-00-01. Sale completed on 8/30/2002. FTP #42-533 completed 5/2004. Regeneration count completed 5/8/2007 = 959 trees/acre (783 A, 137 JP, 39 WP). Continue to monitor for success - JP is still < 12 inches in height. Good component of cherry regeneration (additional 293 tr/ac) present.</p>														
220	W 6	W 2	5	64	10	120	50	white pine	immature	N		20-29 years	0	
<p>comnts Fmd : White pine stand with some red pine mixed in. Aspen throughout. White pine is of variable ages. Diameters are variable. Lots of structural diversity. Some weevil damage. Open in areas, especially western portion. Stand should be treated with the large portion of the stand in the compartment to the east (Comp 90, stand 12).</p>														
221	U 0	U 0	14			0		upland brush	nonstocked	N		60-69 years	0	
<p>comnts Fmd : Open area filling in with a mix of all species. White pine, jack pine, cherry, aspen, red maple.</p>														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	avg.		Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
				D B H	Tot. BA							
402	G 0	G 0	18		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Open stand around pot hole lakes. Scattered spruce, balsam, white pine and jack pine. Rolling topography.												
404	G 0	G 0	2		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Small grass opening with small white pine and jack pine. Lots of encroachment.												
406	G 0	G 0	4		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd :												
412	G 0	G 0	29		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Opening with small bushy jack pine, white pine and some cherry. Some pockets of aspen.												
415	G 0	G 0	1		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grass opening with large spruce and white pine along edges. Old foundations in the opening.												
416	G 0	G 0	2		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Portion of larger opening from the compartment to the north (Stand 410, Comp 91). Scattered limby white pine and some cherry.												
422	G 0	G 0	3		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Grass opening and parking area for the boat launch at the Bass Lake SF Campground.												
426	G 0	G 0	10		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening with a fair amount of white pine and aspen throughout. Scattered cherry. Multiple pot hole lakes within the boundary.												
427	G 0	G 0	7		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening with a fair amount of white pine and aspen throughout. Scattered cherry. Multiple pot hole lakes within the boundary.												
428	G 0	G 0	45		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening with a fair amount of white pine and aspen throughout. Scattered cherry. Multiple pot hole lakes within the boundary.												
456	G 0	G 0	63		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening, rolling topography. Clumps of young aspen, scattered white pine and spruce. Black cherry.												
462	G 0	G 0	5		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd :												
464	G 0	G 0	2		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd :												
468	G 0	G 0	32		0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening which extends onto the private land to the north. Clumps fo aspen, scattered white pine and cherry.												

NEWBERRY FOREST MGT UNIT

Stand Level Information

Compartment: 92

Entry Year: 2009

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acres	Age	avg. DBH	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
477	G 0	G 0	5			0		grass	nonstocked	N		30-39 years	0	
comnts Fmd : Open area with encroachment of aspen, white pine, and cherry.														
479	G 0	G 0	5			0		grass	nonstocked	N		not scheduled	0	
483	G 0	G 0	51			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd : Large opening with scattered low quality cherry, open grown white pine and an occassional white spruce. Pockets of young aspen.														
488	G 0	G 0	11			0		grass	nonstocked	N		30-39 years	0	
comnts Fmd : Open area with encroachment of aspen, white pine, and cherry.														
495	G 0	G 0	28			0		grass	nonstocked	N		not scheduled	0	
499	G 0	G 0	25			0		grass	nonstocked	N		not scheduled	0	
comnts Fmd :														
Total Acres..... 2805														