

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

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	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								
1	J2	O2	40	25	3	0	46	jack pine	immature	N		30-39 years	0	
comnts Fmd : 2005 KGR comments: Stand was cut in 1981. Jack Pine, Aspen, Oak and Red Pine were removed. Stand is regenerating nicely to a mixed composition that is dominated by Jack Pine and Oak. Records indicate that the stand was dominated by Jack Pine prior to the harvest. The oak component seems to have gained and over all appears to have pulled even with the Jack Pine. Ground cover is grass and blueberry. Stand is medium stocking. Some cherry mixed in. Oak is in the form of stump sprouts and single stem regeneration. Terrain is slightly rolling.														
2	J6	O2	13	40	7	70	46	jack pine	immature	N		10-19 years	0	
comnts Fmd : 2005 KGR comments: Old Railroads Sale # 023-00-1. Area was clearcut in 2000 except for pine, aspen and cherry. Thus, the oak was removed from this stand, leaving the jack pine. The stand is healthy with lots of oak regeneration in place. Ground cover is grass. Terrain is slightly rolling.														
3	U0	X0	19				0	upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
comnts Fmd : 2005 KGR comments: Stand was included in the large 2000 timber sale. Cherry has stump sprouted & some oak occupies the site. Ground cover is bracken fern & grass. This corridor contains a trail road that was used extensively as a decking area. This stand must have been a "range" activity area at one time (probably small arms) since the 2000 harvest was hampered by the fact that huge numbers of bullets were found in the trees. Terrain is slightly rolling. The tank trail is the north boundary of the stand. Wld : 2005 BJR: scattered shrubby black cherry and juneberry. Warm season grasses. Timber sale slash present. Burn if Military will allow. These U-types are likely spots for fire dependant plants and animals, included ETS species. May want to harvest some timber prior to burning.														
4	J6	O1	4	50	6	100	46	jack pine	mature	N		10-19 years	0	
comnts Fmd : 2005 kgr comments: Small pocket of Jack Pine with a few Oaks mixed in. Harvest in 10 years with other small pockets of Jack Pine nearby. Stand is healthy and there is not mortality.														
5	J6	O2	2	41	6	70	46	jack pine	immature	N		10-19 years	0	
comnts Fmd : 2005 kgr comments: Pocket of Jack Pine. Harvest in 10 years with other small pockets of Jack Pine nearby. Stand is healthy with stems ranging from 3" dbh to 8" dbh. Lots of oak regeneration, some of it is advanced. No mortality. Ground cover is sweet fern and grass.														
6	J5	O2	4	41	8	50	46	jack pine	immature	N		10-19 years	0	
comnts Fmd : 2005 kgr comments: Pocket of Jack Pine. Harvest in 10 years with small pockets of Jack Pine nearby. Lots of oak regeneration, some of it is advanced. No mortality, but some Jack Pine beginning to look stressed.														
7	O2	M1	11	3	1	0	53	oak	immature	N		50-59 years	0	
comnts Fmd : This stand was part of "Old Railroads" sale, #023-00-1. Clearcut in 2002, 365 acres. White Oak over 12 inches dbh was left uncut as was the Aspen, Cherry and Pine. 2005 KGR comments: Clearcut was completed in 2002. Regeneration is mixed species and looks to be medium/well stocked. Oak, Aspen and Red Maple are coming along as saplings. Retained old Site Index information. The tank trail is the north boundary of the stand.														
8	O6	M1	7	80	9	130	58	oak	immature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 KGR comments: Oak stand with low quality. No noticeable mortality, closed canopy does not allow much of an understory to develop. Aspen is widely scattered. There are a few widely scattered pine in the understory. Terrain is rolling. Harvest stand and leave 30-40 square feet of large crowned oak (red oak & white oak), get rid of red maple. Wld : Stand 8: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.														
9	O9	M2	14	86	12	70	45	oak	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 5/13/98 (Grieve) This stand is dying, needs treatment. 2005 KGR OI comments: This oak stand has relatively wide spacing between trees with lots of regeneration coming in beneath the oak sawlogs in the open areas. Terrain is slightly rolling. The south half of the stand has the most advanced regeneration. Stand is at the low end of well-stocked classification. Clearcut to within two chains of the military tank trail. Maintain the canopy cover along the tank trail. Goal is to release the regeneration that is already in place. Acceptable regeneration would be any combination of oak and red maple. A very old fire plow line seems to divide this stand from the adjacent oak stand - east. Wld : Stand 9: 2005 SGG: Leave scattered oak (~7 trees) for mast production. WLD can mark.														

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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								
10	O3	J1	153	5	1	0	53	oak	immature	N		50-59 years	0	
comnts Fmd : SALE UPDATE comments: "Old Railroads" sale, #023-00-1. Clearcut in 2000, 365 acres. White Oak over 12 inches dbh was left uncut as was the Aspen, Cherry and Pine. 2005 KGR comments: Regeneration is surprisingly good in most areas - stump sprouts and single stems. 12"+ dbh White Oak was left as residual after harvest and is found mostly at the north end of the stand. Retained the SI of record and adjusted the year of origin.														
11	J6	O1	6	60	9	80	46	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 KGR comments: Stand looks healthy to me. Lots of oak seedlings and some advanced oak regeneration. Red Maple saplings coming in too. Old SI was wrong. Clearcut now! Acceptable regeneration will be any combination of Red Maple, Jack Pine and Oak. Wld : Stand 11: 2005 SGG: Concur with FMFM.														
12	U0	X0	3			0		upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 KGR comments: Small U-tye pocket with grass and bracken fern.														
13	U0	X0	2			0		upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 KGR comments: Small U-tye pocket with grass and bracken fern.														
14	O6	M1	68	75	8	100	57	oak	immature	N	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 KGR comments: Fair to good quality Red Oak with White Oak and Pin Oak mixed in. Lots of variables - some areas smaller dbh, quality varies from fair to good, pure red oak in some areas. Mark to leave 40 sq ft may work best. Give the stand marker flexibility to improvise density of residual BA. Shelterwood cut now. Terrain is slightly rolling. Wld : Stand 14: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.														
15	O6	O1	18	85	7	70	48	oak	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 KGR comments: Oak quality is low. No height and small diameter. Probably just a poor site. Low numbers of Oak seedlings scattered and not promoting into sapling size. Overall, not much regeneration to be found. Ground cover is bracken fern and blueberry. Some Aspen pockets - widely scattered. BT Aspen site index was taken - 67 years old and 72 feet tall SI=53. Clearcut the stand now. Acceptable regeneration will include whatever mixture of oak, aspen and red maple that naturally evolves. Stand is somewhat elevated on a ridge. Terrain is gently rolling. Wld : Stand 15: 2005 SGG: Leave scattered oak (~9 trees) for mast production. WLD can mark.														
16	O6	M1	37	85	9	90	50	oak	immature	Y		10-19 years	0	
Treatment Limiting Factors: Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement														
comnts Fmd : 2000 Update comments: Inaccurate inventory data necessitated modifications to original prescription. 2005 KGR comments: Oak stand of fair quality. Mostly red oak with scattered white oak. Some places have good numbers of white oak seedlings but they do not appear to be promoting. Over all, the red maple is just beginning to come in and take control of the understory. Undecided prescription.														
17	O6	M1	80	88	11	90	60	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 KGR OI comments: Oak stand that is healthy and of fair quality. Scattered aspen in the stand that is dominated by white oak and red oak. The stand canopy is quite tight in places. Some areas of the stand contain advanced oak regeneration. The sawlogs in this stand are generally small dbh. Mark to leave and reduce the stand to approximately 30 sq ft. The person doing the sale preparation should be given flexibility so that they can mark the oak stems that are found within aspen pockets, resulting in some small pockets with no residual basal area. Terrain is gently rolling. Wld : Stand 17: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.														

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Stand	Cover Type-Size 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							
18	O7	O2	32	75	14	10	57	oak	in process of regeneration	N		60-69 years	0	
<p>comnts Fmd : 2005 kgr comments: Stand was cut as part of the Salt Lick #027-00-1 timber sale in 2001. Not much regeneration after the harvest. Many stumps show no sign of stump sprouts and most that did sprout were heavily browsed by deer. Some seedlings scattered around - not sure whether they will promote further. Heavy sedge and lots of bracken fern on the ground. White Pine saplings have weevil. If we could scarify site or burn it, that may improve the stem density. It has been three years since harvest, check the stand again in a year. The bulk of the regeneration is beneath the seed trees that were left uncut. Terrain here is gently rolling.</p>														
19	A2	O1	39	3	1	0	60	aspen (upland)	immature	N		60-69 years	0	
<p>comnts Fmd : 2005 kgr comments: Stand was cut as part of the Salt Lick #027-00-1 timber sale in 2001. Big Tooth Aspen regeneration dominates. Red Maple and Oak are also a component of the stand - mostly in the form of stump sprouts. Ground cover is bracken fern. The stand is going to be on the high end of medium stocking. This is not a real great Aspen site - but whatever grows is OK. Terrain here is gently rolling.</p>														
20	U0	U0	18			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: U-type with the typical pin cherry brush. Widely scattered merchantable trees (Oak/Cherry). Ground cover = grasses/sweet fern. Terrain is rolling.</p> <p>Wld : 2005 BJR: Pin cherry, poverty grass, little bluestem.</p>														
21	O8	O2	10	112	14	50	42	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement Other Agency concerns (name in comments)</p> <p>comnts Fmd : 2005 KGR comments: Stand consists of larger Oak trees with some Red Maple poles mixed in. Some areas with good advanced oak regeneration. Oak quality is low to fair. Some of this is Northern Pin Oak. The East side of the stand seems to coincide with the position of an old railroad grade. This stand receives heavy use by military vehicles since they can maneuver around the trees due to the open spacing. Due to heavy treatment schedule in this compartment, this stand will be left unaltered for continued military use. Examine in ten years and explore the possibility of releasing regeneration beneath larger trees. 5/13/98 (Grieve) Heavy bivouac area.</p>														
22	U0	U0	12			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: U-type with the typical pin cherry brush. Widely scattered merchantable trees (Oak/Cherry). Ground cover = sweet fern, bracken fern and grass. Terrain is slightly rolling.</p> <p>Wld : 2005 BJR: cherry shrubland.</p>														
23	O3	M1	26	24	2	0	45	oak	immature	N		40-49 years	0	
<p>comnts Fmd : 5/13/98 (Grieve) Timber Sale 9-80 stump sprouts oak & red maple. 2005 KGR comments: Stand was clearcut in 1981 and is now regenerating via a high percentage of stump sprouts. Oak and red maple dominate the stand. Clones of aspen are scattered. Terrain is slightly rolling. Site Index is estimated.</p>														
24	U0	U0	7			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: U-type with some O7 area directly adjacent to the trail road that runs N/S through the section. Scattered trees in the stand. Some military use is apparent.</p> <p>Wld : 2005 BJR: Low density trees. Filling in with cherry. 2005 SGG: Hand fell some cherry to maintain semi open habitat.</p>														
25	U0	U0	1			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: Stand is a typical U-type. Pin cherry shrubs are the primary woody vegetation. Ground cover consists of grass and sweet fern.</p>														

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					B H	Tot. BA	Site Indx							
26	O6	O1	9	94	10	90	64	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Oak quality ranges from fair to good. Oak seedlings scattered and not promoting into sapling size. Ground cover is bracken fern and blueberry. Some Aspen widely scattered. Not a stand to clearcut without trying other options. Recommend that we attempt a partial cut where all aspen, red maple are removed. In addition, mark to leave 30 square feet of full crowned oak. Ideally, the site needs to be scarified and underplanted with red pine. Acceptable regeneration includes any combination of red oak, red maple and aspen.</p> <p>Wld : Stand 26: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.</p>														
27	O6	O1	16	62	8	80	46	oak	mature	N		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement Other Agency concerns (name in comments)</p> <p>comnts Fmd : 2005 KGR comments: This stand receives heavy use by military vehicles since they can maneuver around the trees due to the open spacing. Due to heavy treatment schedule in this compartment, this stand will be left unaltered for continued military use. Oak quality here is low-fair. Oak and Red Maple seedlings are here now but not in great numbers. Ground cover is bracken fern and blueberry. Widely scattered Red Pine saplings. Terrain is rolling.</p>														
28	A3	M1	47	3	1	0	48	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : 2002 Timber sale update comments: Cut in winter of 2002. "Nor-Easter" sale, #028-00-1, 46 acres. 2005 KGR OI comments: Big Tooth Aspen stand is regenerating nicely. Some oak and red maple mixed in. Ground Cover is bracken fern. Terrain is slightly rolling. Retained Site Index of record.</p>														
29	O5	M1	25	88	9	60	50	oak	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Lots of oak seedlings however, few have promoted beyond seedling status. Some white pine seedlings scattered around. Aspen is mixed in along with some Red Maple. The oak quality is fair. Treatment will be to clearcut and plant some Red Pine in this stand. Acceptable regeneration will be combinations of oak, aspen and red maple.</p> <p>Wld : Stand 29: 2005 SGG: Leave scattered oak (12-15 trees) for mast production. WLD can mark.</p>														
30	O6	M1	16	85	9	100	46	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak stand between an elevated ridge on the west and a trail road on the east. Lots of oak seedlings however, few have promoted beyond seedling status. Some white pine seedlings scattered around. Aspen is mixed in along with some Red Maple. The oak quality is fair. Treatment will be to cut all red maple and aspen. In addition, reduce oak BA to 40 square feet except in dense pockets of oak seedlings where reduction of Basal Area should be taken down to 20 square feet.</p> <p>Wld : Stand 30: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.</p>														
31	O6	M1	42	84	9	100	51	oak	immature	Y	final harvest	within 0-9 years	1	planting
<p>comnts Fmd : 2005 kgr comments: This is low quality Oak with a component of Big Tooth Aspen mixed in. Scattered Red Maple is also found in the stand. The Aspen is in very poor condition due to its age. Red Maple is gaining in the understory while Oak seedlings are failing to respond. White Pine and Red Pine are also found in the understory in the form of saplings. Terrain is rolling. Clearcut the stand now. Resulting stand will be a mixture of Oak, Aspen and Red Maple which is acceptable. Stand should be burned, cut and then trenched and planted with red or white pine.</p> <p>Wld : Stand 31: 2005 SGG: Leave scattered oak (~20 trees) for mast production. WLD can mark. Could mark as a leave island if suitable conditions.</p>														
32	A6	O1	6	64	9	80	62	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Small stand of Aspen/Oak mix. The high BA of aspen, suggests that this stand will convert after clearcutting. Aspen vigor is slowing somewhat but the stand is still healthy. There is no noticeable mortality. The natural stand lines extend northward into compartment 131. Any combination of the aspen, oak, red maple and pine will be acceptable reforestation. Be sure to protect the minor component of pine that exists in the understory. Terrain here is rolling. Stand was GPS'd to determine exact position.</p> <p>Wld : Stand 32: 2005 SGG: Leave a small (~ ¼ ac) island of oak for mast production. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.</p>														

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					B H	Tot. BA	Site Indx							
33	A3	O1	29	23	2	0	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 2005 kgr comments: Stand appears to have been clearcut in the early 1980's. BigTooth Aspen, Red Maple and Oak are regenerated here now. This mixed stand has not yet reached polesize but is healthy and doing well. Ground cover is bracken fern. Terrain is slightly rolling. 5/13/98 (Grieve) ok stand, Timber Sale 10-80														
34	O6	M1	7	82	9	130	58	oak	mature	Y	shelterwood-seed	within 0-9 years	2	natural regeneration
comnts Fmd : 2005 kgr comments: Small stand with a fair amount of oak seedlings in place - not many taller than 18". Stand is healthy and Oak quality is fair. Remove the Red Maple, Aspen and reduce total Oak Basal Area of the stand to about 50 square feet by removing larger and poor quality oak trees. There are some very good potential crop trees with descent crowns. A small pocket of Red Pine is located at the North end of the stand. This Red Pine pocket is unique and should be protected from the harvest as should all the pine that is within this stand.														
Wld : Stand 34: 2005 SGG: Concur with FMFM.														
35	U0	U0	29				0	upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 KGR comments: Ground cover includes bracken fern, grass and sweet fern. Pockets of oak regeneration - seedlings & saplings. Areas with scattered oak or aspen poles. Traces of Jack Pine too. Pin Cherry is consistently found in the semi open areas. Terrain is slightly rolling.														
Wld : 2005 BJR: blueberry and cladonia. Patchy aspen and maple. Pockets of oak regeneration. Cherry.														
36	J5	O2	12	49	6	60	36	jack pine	immature	N		10-19 years	0	
comnts Fmd : 2005 kgr comments: This is a small mixed stand dominated by Jack Pine. Aspen and Oak are mixed in. The age in the stand is not uniform. Terrain is rolling. There is a fair amount of advanced oak regeneration. Pockets of larger dbh Jack Pine. Ground cover is bracken fern and grass. Wait 10 years, then clearcut all except Red Pine, thus releasing the Oak regeneration.														
37	A5	A3	34	24	4	40	75	aspen (upland)	immature	N		20-29 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber sale 19-80. looks good. 2005 KGR comments: Stand was clearcut in 1981 and the site is regenerating nicely with Big Tooth Aspen dominating. Some Red Maple, Oak and Cherry are mixed in. Terrain is rolling. Aspen is just reaching polesize. Stand is well stocked.														
38	A3	O1	10	4	1	0	48	aspen (upland)	nonstocked	N		50-59 years	0	
comnts Fmd : 2002 timber sale update comments: Clearcut as part of timber sale #029-00-1, "20 Years Ago" sale. This unit was 25 acres and was completed in 7/01. Poor OI caused the major change in the position of the stand lines. 2005 KGR OI comments: Stand is regenerating nicely with Big Tooth Aspen dominating a stand that contains some oak and red maple. Ground cover is bracken fern. Terrain is relatively flat. The original stand is bisected by the military tank trail which is located upon the 39th UTM gridline. This segment of the original stand is south of the tank trail.														
39	U0	U0	4				0	upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 KGR comments: Stand is a typical U-type. Occasional merchantable oak tree, but mostly pin cherry shrubs. Ground cover consists of grass and sweet fern. Terrain is mostly flat. This stand is bounded on the north by the tank trail and is bisected N/S by a railroad.														
Wld :														
40	O9	M1	12	89	12	70	46	oak	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 kgr comments: Mixed Oak/Aspen stand - dominated by oak. Stand is bordered on the north by the Military Tank Trail. The forest canopy within two chains of the Tank Trail must be maintained. The stand should be clearcut up to the two chain distance. This stand is being managed with stand 36 in Compartment 139 that is south of this compartment. This is a continuation of the same stand however Compartment 231 stands are all Military Board Lands. Burn this stand either before or after the harvest. The burn is to set back cherry and red maple sprouting in an attempt to retain this site as in oak management. In the event that this effort fails to materialize or that the burn does not accomplish the objective, the stand would become more mixed composition (oak, red maple & cherry), and this is an acceptable alternative.														
Wld : Stand 40: 2005 SGG: Leave scattered oak (~6 trees) for mast production. WLD can mark.														

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41	A9	M2	10	65	10	90	51	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak/Quaking Aspen, with Red Maple mixed in. The stand is bordered on the north by the Military Tank Trail. The forest canopy within two chains of the Tank Trail must be maintained. The stand should be clearcut up to the two chain distance. Leave all merchantable hardwood and oak within the two chain area adjacent to the tank trail. Harvest should occur during leaf-off to assure the sprouting vigor of the aspen is at a maximum. This stand is being managed with stand 35 in Compartment 139 that is south of this compartment. This is a continuation of the same stand however Compartment 231 stands are all Military Board Lands.</p> <p>Wld : Stand 41: 2005 SGG: Leave 1-2 oak at south end of stand for mast production.</p>														
42	A3	O1	24	3	1	0	48	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : 2002 timber sale update comments: Clearcut as part of the "20 Years Ago" sale, #029-00-1. This unit was cut in 7/01 and totals 23 acres. Poor OI caused the major changes in the position of the stand lines. 2005 KGR OI comments: Stand was clearcut in July 2001 and is regenerating nicely. Big tooth aspen dominates, with red maple and oak stump sprouts mixed in. Ground cover is bracken fern. Terrain is relatively flat. Site index of record was retained.</p>														
43	U0	U0	4			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: Ground cover includes grass and sweet fern. Pin Cherry shrubs with occasional cherry tree are found on this site. Terrain is slightly rolling. Stand is bounded on the north by the tank trail and is bisected by a trail road.</p> <p>Wld : 2005 BJR: growing in with cherry. 2005 SGG hand fell some encroaching woody vegetation to maintain semi open habitat.</p>														
44	A3	O1	3	24	3	0	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : 5/13/98 (Grieve) ok stand, Timber Sale 10-80. 2005 KGR OI comments: A mixed stand of Aspen, Red Maple and Oak. Some cherry sprinkled in. Ground cover is bracken fern. Terrain is slightly rolling to flat. Some pockets of U mixed in. Aspen, Oak and Red Maple were removed here in 1981 cutting. Stand is well stocked and is just approaching polesize. This stand is located south of the tank trail.</p>														
45	O6	M1	22	80	9	130	57	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Stand consists of low to fair quality Red Oak and White Oak. Canopy is pretty tightly closed and very little oak regeneration is present. Aspen is widely scattered, some Red Maple is mixed in and a traces and small pockets of white pine and red pine can be found in the understory. Prescribed burn would destroy the small pine understory. Harvest by marking to leave 40 square feet of large crowned oak.</p> <p>Wld : Stand 45: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.</p>														
46	U0	U0	1			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: U-type with the typical pin cherry brush.</p>														
47	O6	N2	22	75	9	90	50	white pine	immature	N	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak stand with lots of pine in the understory. The White Pine/Red Pine understory ranges in size from seedlings to 30' tall saplings. Oak is healthy. There are scattered aspen clones. The canopy is mostly closed up and the terrain is rolling. Goal will be to alternate the pine and oak management. Prescription for this rotation is to cut all red maple and aspen. In addition, mark to leave 20 square feet of good crown, healthy oak trees in areas that lack significant oak regeneration.</p> <p>Wld : Stand 47: 2005 SGG: Concur with FMFM.</p>														
48	O6	N1	8	101	11	80	38	white pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Mixed stand with a low quality oak component. Canopy is somewhat more open and lots of pine and oak seedlings and saplings have developed beneath the mature trees. Some advanced oak regeneration has developed in many places. Recommendation - Clearcut to release the regeneration. Exception: Do Not Cut Pine. Regeneration of the stand will surely be of mixed composition. Medium to well stocked stand of red pine, white pine, oak, and red maple will be acceptable in any combination. Protect seedling/saplings during harvest. Goal is to maintain the option of alternating the pine/oak management. Terrain is rolling. Retained Site Index of record.</p> <p>Wld : Stand 48: 2005 SGG: Leave scattered oak (~4 trees) for mast production. WLD can mark.</p>														

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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
49	O3	M1	17	15	2	0	48	oak	immature	N		50-59 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. 2005 kgr comments: Stand was clearcut in 1990. Good stocking of oak regeneration is in place. Some red maple, aspen and pine (WP&RP) mixed in. Ground cover is bracken fern. Oak quality will not be high. Terrain is rolling.														
50	A3	O3	8	15	3	0	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. 2005 kgr comments: Excellent Big Tooth Aspen regeneration after clearcut in 1990. Some oak, red maple and shrubs are mixed into the understory. The stand is doing well as far as re-establishing itself. Ground cover is bracken fern. Terrain is rolling.														
51	A3	M2	21	15	2	0	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. Lots of red maple stump sprouts. Scattered A2 This will come back as a good stand. West side solid A3. East side M3-A2 Mixed in the middle. 2005 kgr comments: Stand is regenerating nicely on the East side. Lots of Big Tooth Aspen developing. Many red maple stump sprout clumps. A fair amount of oak seedlings on the ground but few are developing into sapling size. Stand is healthy. Terrain is very hilly.														
52	O3	M1	6	15	2	0	48	oak	immature	N		50-59 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. 2005 kgr comments: Stand was clearcut in 1990. Good stocking of oak regeneration is in place. Some red maple, aspen and pine (WP&RP) mixed in. Ground cover is bracken fern. Oak quality will not be high. Terrain is rolling.														
53	A3	M1	8	15	3	0	70	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. 2005 kgr comments: Excellent Big Tooth Aspen regeneration after clearcut in 1990. Some areas are heavy with red maple, stump sprouted regeneration. The stand is healthy, well stocked and vigorous. Ground cover is bracken fern. Terrain is rolling.														
54	O3	N1	5	15	2	0	48	oak	immature	N		50-59 years	0	
comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. 2005 kgr comments: Stand was clearcut in 1990. Good stocking of oak regeneration is in place. Some red maple, aspen and pine (WP&RP) mixed in. The stand is doing well as far as re-establishing itself. Ground cover is bracken fern. Terrain is rolling.														
55	J6	O1	7	43	8	80	45	jack pine	immature	N		10-19 years	0	
comnts Fmd : 5/13/98 (Grieve) Mixed stand. 2005 kgr comments: Mixed stand dominated by Jack Pine that render 2-3 sticks. Pockets of oak and some advanced oak regeneration. A small amount of White Pine is mixed in. In some areas the jack pine has not grown much diameter. Stand could hold another 20 years. Terrain is rolling hills.														
56	A9	O1	7	75	13	90	50	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 kgr comments: Aspen/Oak mixed stand. Aspen is old and many stems are deformed. The stand has canopy gaps where advanced oak regeneration can be found. Red maple and white pine are found in the understory too. Timber is in very poor condition due to its age. Stand needs to be clearcut and regenerated. Any combination of Aspen, Oak, Red Maple or Jack Pine natural regeneration will be acceptable as long as it is a good stocking. Wld : Stand 56: 2005 SGG: Leave a small (~ ¼ ac) island of oak for mast production. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.														
57	O6	O2	21	88	9	70	46	oak	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : 2005 kgr comments: Oak/Jack Pine mixed stand with lots of canopy gaps. The Jack Pine is in poor condition and the Oak is low quality (N. Pin). There are good amounts of advance oak regeneration especially in the areas where canopy gaps occurred. Some jack pine regeneration is present. Some noticeable oak mortality due to oak decline. Terrain ranges from relatively flat to rolling. Recommendation is: Clearcut except for red pine. A significant amount of the red pine is alongside the tank trail. This residual red pine will provide some canopy cover alongside the tank trail. A mixed composition stand with Red Pine, Oak and Jack Pine is acceptable regeneration. Wld : Stand 57: 2005 SGG: Leave scattered oak (~10 trees) for mast production. WLD can mark.														

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Age	A c r e s	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B	Tot. BA	Site Indx							
58	A6	O1	38	65	9	100	56	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 5/13/98 (Grieve) Junk logs, clearcut. 2005 KGR comments: Very mixed stand with dense pockets of Aspen in many places. Lots of understory shrubs, oak and red maple. Some of the oak regeneration is advanced. Aspen is old and in poor condition. Oak is of marginal quality. Ground cover consists of bracken fern, blueberry and grass. There is some Jack Pine component on the west side of the stand. Clearcut this stand to sprout back as a highly aspen dominated stand. Harvest should be done during leaf-off to insure maximum vigor for sprouting aspen regeneration. There will be some oak component in the new stand as well as some red maple. Any combination of the aspen, oak and red maple will be acceptable reforestation.</p> <p>Wld : Stand 58: 2005 SGG: Leave ~6 small (~ ¼ ac) islands of oak for mast production. Islands can be centered around the advanced oak regen and/or wildlife shrubs. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.</p>														
60	U0	X0	2			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: U-type with the typical pin cherry shrubs.</p>														
61	J5	J3	6	34	3	40	51	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : 2005 kgr comments: Well stocked Jack Pine stand that appears to have originated as the result of a forest fire. Very uniform and dense. Ground Cover is blueberry. Lots of Oak regeneration is developing on the forest floor. Scattered Oak and Red Pine poles and sawlogs are in the stand.</p>														
62	W6	N1	6	58	6	130	52	white pine	immature	N		30-39 years	0	
<p>comnts Fmd : 2005 kgr comments: Small pocket of natural White Pine with some oak sawlogs mixed in. Oak quality is low to fair. White Pine dominates the stand and range from 2" to 10" in diameter. Most stems are pole size in the 4" - 7" size class. Leave this stand alone. Let the Oak fall over when it is ready. Some shrubs and scattered advance oak regeneration. Terrain is slightly rolling.</p>														
63	J6	O1	16	61	8	80	49	jack pine	two aged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement</p> <p>comnts Fmd : 2005 kgr comments: Stand dominated by Jack Pine with a fair amount of advanced oak regeneration. Some Jack Pine regeneration is present too. Terrain is slightly rolling. Age of the Jack Pine ranges from 35 years old to 61 years old. Some areas have a fair amount of Aspen coming into understory. This stand is adjacent to the Tank Trail where we must retain the canopy cover. Clearcut this stand in ten years and consider some alternatives alongside the Tank Trail.</p>														
64	O6	M1	9	100	10	90	39	oak	mature	Y	selection	within 0-9 years	2	
<p>comnts Fmd : 2005 kgr comments: This stand is heavily used by the military as a bivouac area. The stand is generally low quality oak dominates with some small dbh Red Maple and Aspen in pockets and as scattered trees. There is a few good quality Red Oak stems mixed in. Prescription is to remove the Red Maple and Aspen. In addition, remove the larger, poor quality oak trees. Leave good quality trees with healthy crowns. Leave the canopy cover high in the area where the military us it bivouac. Ground cover is grass with some bracken fern.</p> <p>Wld : Stand 64: 2005 SGG: Concur with FMFM.</p>														
65	A6	M1	5	77	11	120	57	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Aspen/Oak mixed stand. Clearcut and manage for Aspen. Aspen is old and is declining. Generally, the Oak is of fair quality. Both White Oak and Red Oak are found in the stand. Ground cover consists of bracken fern and grass. Terrain is gently rolling. There will be some oak component in the new stand as well as some red maple. Any combination of the aspen, oak and red maple will be acceptable reforestation.</p> <p>Wld : Stand 65: 2005 SGG: Leave a small (~ ¼ ac) island of oak for mast production. WLD can mark.</p>														
66	O6	M1	6	75	10	70	58	oak	immature	N		10-19 years	0	
<p>comnts Fmd : 2005 kgr comments: Oak stand between an elevated ridge on the west and a trail road on the east. Few oak seedlings and no advanced oak regeneration. A few White Pine saplings are scattered through the stand. Red Maple is coming into the understory. Aspen and Red Maple products are mixed in with the Oak. The oak quality is fair-good. Hold the stand for 10 years.</p>														

Stand	Cover Type-Size 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
<p>* See "Compartment Packets Glossary of Terms" document link on web site for further descriptions and code definitions.</p>														
67	O6	M1	3	100	8	80	39	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement</p>														
<p>comnts Fmd : 2005 kgr comments: This is a mixed Oak stand located along a ridge consisting of Red Oak, White Oak and N. Pin Oak. Canopy is +/-30% open. Ground cover is grass with some bracken fern. Oak is basically low quality with poor form. A few Red Pine and White Pine saplings in the understory. There is a small amount of mortality. Borings for site index information determined that growth within this stand is extremely slow. This stand should be treated with the one to the North due to the slope. This lower quality extends to the base of the ridge.</p>														
68	O7	O1	8	90	14	20	38	oak	two aged	Y	delayed removal	within 0-9 years	3	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Stand is two aged, low quality oak. There are small pockets of dense oak regeneration and the general understory is advanced oak regeneration with some jack pine saplings mixed in. The stand is suffering serious ORV damage from 4x4 trucks. Planting red pine might work but it would be hampered by the fact that the sited has lots of sweet fern and the ORV's would surely run over the trees. Prescription for now is to remove merchantable trees and be careful not to damage the residual regeneration. Terrain is short sandy hills. The military has constructed a cement refueling pad at the very south end of the stand indicating that the military uses this stand for maneuvers.</p> <p>Wld : Stand 68: 2005 SGG: Concur with FMFM.</p>														
69	A6	M2	47	34	7	70	70	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : 2005 kgr comments: Relatively young Quaking Aspen stand - still developing. Ground cover is bracken fern. Lots of Red Maple coming under the main canopy. Stand is on a slope with a West aspect. Stand is well stocked with many stems just reaching polesize now.</p>														
70	O9	N1	38	77	16	80	61	oak	immature	N		10-19 years	0	
<p>comnts Fmd : 2005 kgr comments: Excellent quality Red Oak. Lots of Red Maple is coming in. Pockets of heavy Aspen sprouting. No treatment needed until 2017 unless a burn can be accomplished to set back the red maple. Terrain is somewhat hilly with some short steep slopes. The Military established a tank trail which bisects the stand. This portion of the original stand is south of the tank trail. Maintain a good canopy cover within 2 chains of the tank trail. 2002 Update Comments: Sale marked and thinned during 2001. Sale #020-00-1 "Back Hills Oak." Residual BA = 77 square feet. Aspen and Red Maple were removed and Oak was thinned to reduce the BA. The sale is upon Military Board Land and a tank trail was established on the 39th UTM Grid Line which bisects this stand. The timber in this stand is very good quality.</p>														
71	U0	U0	2			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: U-type with lots of shrubs, grasses and some various species of regeneration invading around the edges of the stand.</p> <p>Wld : 2005 SGG: hand fell woody encroachment to maintain semi open habitat. Retain some mast bearing species.</p>														
72	A5	A2	6	32	6	40	63	aspen (upland)	immature	N		20-29 years	0	
<p>comnts Fmd : 2005 kgr comments: Stand is O7A4A2. Big Tooth Aspen and Quaking Aspen are both present. Stand appears to have been cut sometime in the past. May have been a loggers choice type cut where oak was left. Lots of regeneration is in place. Some of it is Aspen and some of it is Red Maple. There is some advanced Oak regeneration present in places. This is just a plain "mixed stand." The natural stand lines are bisected by the tank trail and a natural gas pipeline. The data on this sheet represents the portion of the stand that is south of the tank trail and west of the pipeline.</p>														
73	O9	M1	7	89	12	130	63	oak	immature	Y	selection	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak stand containing some very good quality Red Oak. Canopy is closed up pretty tight and there is little oak regeneration. There is an occasional Aspen clone and some Red Maple is mixed into the stand. Selectively cut the Red Maple and Aspen. Thin the Oak to 70-80 square feet BA. Canopy cover within two chains of the Military Tank trail must be maintained. The natural stand is bisected by the tank trail and this stand represents that portion of stand that is south of the tank trail. Along the tank trail, just remove the Red Maple and Aspen, leave all the oak in that area. Oak selection should focus on lower quality and defective stems. East boundary of the stand is a pipeline. Terrain is slightly rolling to flat. A small amount of mortality was noticed, but not much.</p> <p>Wld : Stand 73: 2005 SGG: Concur with FMFM.</p>														

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Stand ID	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
74	O6	M2	17	91	10	110	68	oak	mature	Y	selection	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Red Oak stand with a fair amount of Red Maple understory developing as saplings. Oak quality is very good. There is some Aspen and White Oak mixed in. The terrain in the stand is rolling hills with some short steep slopes. The goal here is to open up the canopy somewhat in hopes of getting some Oak regeneration started an retain this site as Oak since the quality it so good. Ideally, it would be good to burn this stand to set back the Red Maple, then harvest via thinning/shelterwood. Without the use of fire as a tool, I doubt that the Red Maple can be deterred. Since this is Military Board Land, it is unlikely that burning would be an option.</p> <p>Wld : Stand 74: 2005 SGG: Retain some white oak for mast production and diversity.</p>														
75	O6	M1	9	109	9	100	35	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement</p> <p>comnts Fmd : 2005 kgr comments: Stand consists of low quality Oak. Some advanced oak regeneration is scattered and a few isolated White Pine saplings are found in the understory. Small pockets of Aspen are widely scattered. Hold for ten years since too many treatments are scheduled for the compartment now. Terrain is rolling hills and a ridge</p>														
76	O8	N2	2	88	14	50	41	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement Other Agency concerns (name in comments)</p> <p>comnts Fmd : 2005 kgr comments: Oak stand with White Pine understory. Ground cover is bracken fern. Oak quality is generally only fair. Some scattered Aspen stems but generally this is Northern Pin Oak/Red Oak hybrid, White Oak sawlogs with some Red Maple poles. Leave this stand to allow the White Pine to develop further. Average White Pine height is now 16'. Check again in 10 years. Oak seedlings are present but no advanced oak regeneration is evident. Terrain is rolling. Rotate management of Oak & White Pine on this site. x 5/13/98 (Grieve) Oak same as the rest of the area. W2 understory/no treatment (already treating to much in this compartment) let this go to white pine.</p>														
77	O9	M1	18	67	10	110	70	aspen (upland)	immature	N	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Stand is mixed Oak/Aspen. South edge of stand is at the top of a ridge. There is a fair amount of aspen right along the ridge top. Oak quality is fair-good and the stand is healthy yet. Ground cover is bracken fern. The Aspen is dominating in some areas but it is getting pretty old and is declining. Harvest should be done during leaf-off to maximize the vigor for aspen sprouting. Terrain is relatively flat below the ridge. Did not verify the North half of the stand. Some reconisance will be required when setting up the sale - suggestion: flag the lines in before painting.</p> <p>Wld : Stand 77: 2005 SGG: Leave ~3 small (~ ¼ ac) islands of oak for mast production. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.</p>														
78	A3	M2	33	15	2	0	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : 5/13/98 (Grieve) Timber Sale 37-89. Lots of red maple stump sprouts. Scattered A2 This will come back as a good stand. West side solid A3. East side M3-A2 Mixed in the middle. 2005 kgr comments: Stand is regenerating nicely on the East side. Lots of Big Tooth Aspen developing. Many red maple stump sprout clumps. A fair amount of oak seedlings on the ground but few are developing into sapling size. Stand is healthy. Terrain is very hilly.</p>														
79	U0	U0	9			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: U-type with lots of shrubs, grasses and some various species of regeneration invading around the edges of the stand.</p> <p>Wld : 2005 SGG: hand fell woody encroachment to maintain semi open habitat. Retain mast bearing species.</p>														
80	O9	M1	7	84	10	90	43	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement</p> <p>comnts Fmd : 2005 kgr comments: Low quality oak stand. Terrain is rolling. Ground cover is bracken fern. No noticeable mortality. Some widely scattered white pine saplings. A few scattered aspen in the stand. Canopy is somewhat open.</p>														
81	O6	M1	3	75	10	100	55	oak	immature	N		10-19 years	0	
<p>comnts Fmd : 2005 KGR comments: Small stand of Oak located on a rather steep north facing slope. Oak quality ranges from fair to good. A fair amount of Aspen in places. Stand is healthy. Ground cover is bracken fern. East side of the stand is bounded by a large pipeline.</p>														

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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
82	O6	M1	13	74	9	90	63	aspen (upland)	mature	N	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak stand with a fair amount of aspen component. Aspen is very old and declining. Oak quality is only fair at best. Ground cover is bracken fern. There are traces of White Pine in the form of saplings. A few advanced oak regeneration stems and some oak seedlings are in place. Clearcut and convert and expand Aspen - Oak will remain a component of this stand but Aspen will dominate. Treat the stand during leaf-off so that the vigor of the sprouting aspen is maximized. High priority cut.</p> <p>Wld : Stand 82: 2005 SGG: Leave ~2 small (~ ¼ ac) islands of oak for mast production. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.</p>														
83	O9	N2	3	84	12	100	47	white pine	mature	Y	delayed removal	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak/White Pine. White Pine is pole size. Stand is healthy but not much sign of oak regeneration. Harvest oak with adjacent stand to the east. Use care felling trees so as to not damage the young white pine understory. Long term plan is to alternate management between Oak and White Pine. Terrain is slightly rolling.</p> <p>Wld : Stand 83: 2005 SGG: Retain any non-merchantable oak for mast production and diversity.</p>														
84	A6	M1	10	75	9	150	57	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Aspen/Oak mixed stand. Clearcut and expand Aspen type into the adjacent stands where poor quality Oak is found. Do not expand into high quality Oak areas. Some nice Red Oak is found within this stand in a few places. Aspen is old and is declining. Generally, the Oak is of marginal quality. Ground cover consists of bracken fern and grass. Terrain is slightly rolling. There will be some oak component in the new stand as well as some red maple. Any combination of the aspen, oak and red maple will be acceptable reforestation.</p> <p>Wld : Stand 84: 2005 SGG: Leave a small (~ ¼ ac) island of oak for mast production. WLD can mark. Include a spec to create course woody debris (~1-2/acre) if Military will allow.</p>														
85	U0	U0	2			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: Long narrow gully with grass, bracken fern and sweet fern ground cover. Some Oak regeneration has developed along the edges of the stand. Otherwise, there are just a few cherry shrubs.</p>														
86	O9	M1	31	84	10	90	43	oak	mature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Other Agency concerns (name in comments) Military use/easement/lease/long-term agreement</p> <p>comnts Fmd : 2005 kgr comments: Low quality oak stand. Terrain is rolling. Ground cover is bracken fern. No noticeable mortality. Some widely scattered white pine saplings. A few scattered aspen in the stand. Canopy is somewhat open.</p>														
87	O8	M1	11	101	14	50	41	oak	two aged	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement Other Agency concerns (name in comments)</p> <p>comnts Fmd : 2005 kgr comments: Just a poor site with old trees on it. A fair amount of advanced oak regeneration is in place in the more open portions of the stand. Some White Pine saplings are scattered through the stand. Pockets of Aspen scattered but most has died out due to age. This stand is open enough for military vehicles to use for off road maneuvers. Ideally, the stand should be underplanted with pine in hopes of re-establishing the pine dominance within the stand. Since this is Military Board Land, planting is probably not an option. The stand is being reserved as a forested site that could be used for military exercises involving vehicles. xx x x x x</p> <p>x x x x x x 5/13/98 (Grieve) The 45 year old aspen is as big as the 91 year old oak. This is not an oak site. Aspen or pine will do much better. Old pine stumps. This oak is junk. red oak ht. 55 age 91 SI 38,</p>														
88	O9	M1	13	90	11	160	61	oak	mature	Y	thinning	within 0-9 years	1	
<p>comnts Fmd : 2005 kgr comments: Very high quality Red Oak in this stand. Some White Oak and Aspen are mixed in. Red Maple is generally in sapling stage. Stand appears to be healthy. Terrain is rolling hills with some short steep slopes. Selectively reduce the BA in this stand to 80 square feet. Cut all Aspen and Red Maple. Stand line determination could be slow work due to the slopes and the similarities to adjacent stands. Sale preparation will take a little extra time to insert the stand lines properly.</p> <p>Wld : Stand 88: 2005 SGG: Retain some white oak for mast production and diversity.</p>														

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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							
90	O8	M1	5	115	12	50	48	oak	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: This mixed stand is somewhat dominated by oak and is located along the east side of a trail road. Species present - large diameter, low quality N. Pin Oak, old Aspen and some Red Maple. The canopy is rather open and regeneration is coming into some of the holes. A small U-type pocket is located within the stand and there is some sweet fern ground cover here. As the stand regenerates, we can expect a mixed composition to develop and that will be acceptable. Terrain is slightly rolling. Used Site Index of record.</p> <p>Wld : Stand 90: 2005 SGG: Leave a small (~ ¼ ac) island of oak for mast production. WLD can mark. Coordinate island location with that of stand 65.</p>														
91	O9	R2	2	85	12	80	45	red pine	two aged	Y	selection	within 0-9 years	3	
<p>comnts Fmd : 2005 kgr comments: Small pocket of oak sawlogs with a Red Pine and White Pine understory. Some advanced oak regeneration present but not much. Oak and pine seedlings are on the ground. Ground cover is bracken fern. Oak quality is fair at best. Some signs of oak decline in the tops. Once the oak is removed, the pine is already to assume dominance on the site. Terrain is gently rolling. Cut Oak and protect all pine. Whole tree must be harvested and removed from the site but no tree length skidding is to be allowed because of potential damage to the residual pine.</p> <p>Wld : Stand 91: 2005 SGG: Concur with FMFM.</p>														
92	U0	X0	5			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: U-type with the typical pin cherry shrubs. There is also a few widely scattered oak and jack pine poles. There is a road through this stand that is blocked at the east end so that no traffic can access the trail. Terrain is slightly rolling.</p>														
101	J2	O2	5	25	3	0	46	jack pine	immature	N		30-39 years	0	
<p>comnts Fmd : 2005 KGR comments: Stand was cut in 1981. Jack Pine, Aspen, Oak and Red Pine were removed. Stand is regenerating nicely to a mixed composition that is dominated by Jack Piine and Oak. Records indicate that the stand was dominated by Jack Pine prior to the harvest. The oak component seems to have gained and over all appears to have pulled even with the Jack Pine. Ground cover is grass and blueberry. Stand is medium stocking. Some cherry mixed in. Oak is in the form of stump sprouts and single stem regeneration. Terrain is slightly rolling. The tank trail is the south boundary of the stand.</p>														
103	U0	X0	156			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: Stand was included in the large 2000 timber sale. Cherry has stump sprouted & some oak occuppies the site. Ground cover is bracken fern & grass. This corridor contains a trail road that was used extensively as a decking area. Old "range" activity area - probably small arms since the 2000 harvest encountered huge numbers of bullets in the trees. Terrain is slightly rolling. The tank trail is the south boundary of the stand.</p> <p>Wld : 2005 BJR: scattered shrubby black cherry and juneberry. Warm season grasses. Timber sale slash present. Burn if Military will allow. These U-types are likely spots for fire dependant plants and animals, included ETS species. May want to harvest some timber prior to burning.</p>														
107	O2	M1	2	3	1	0	53	oak	immature	N		50-59 years	0	
<p>comnts Fmd : This stand was part of "Old Railroads" sale, #023-00-1. Clearcut in 2002, 365 acres. White Oak over 12 inches dbh was left uncut as was the Aspen, Cherry and Pine. 2005 KGR comments: Clearcut was completed in 2002. Regeneration is mixed species and looks to be medium/well stocked. Oak, Aspen and Red Maple are coming along as saplings. Retained old Site Index information. The tank trail is the south boundary of the stand.</p>														
108	O6	M1	5	80	9	100	58	oak	immature	Y	shelterwood-prep	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Oak stand with reasonable quality. No noticeable mortality, some advanced oak regeneration in places, basically not much understory of any kind. Must maintain a tightly closed canopy within 2 chains of the military tank trail. Focus harvest on the low quality and larger oak trees. Reduce the BA to about 70 square feet. Terrain is relatively flat. This stand is south of the tank trail and the treatment should incorporate the continuation of the stand southward into compartment 139. Acceptable regeneration would be any combination of oak, red maple and aspen.</p> <p>Wld : Stand 108: 2005 SGG: Concur with FMFM.</p>														

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Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Age	A c r e s	avg. D			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					B H	Tot. BA	Site Indx							
126	O6	O1	48	94	10	90	64	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 KGR comments: Oak quality ranges from fair to good. Oak seedlings scattered and not promoting into sapling size. Ground cover is bracken fern and blueberry. Some Aspen widely scattered. Not a stand to clearcut without trying other options. Recommend that we attempt a partial cut where all aspen, red maple are removed. In addition, mark to leave 30 square feet of full crowned oak. Ideally, the site needs to be scarified and underplanted with red pine. Acceptable regeneration includes any combination of red oak, red maple and aspen.</p> <p>Wld : Stand 126: 2005 SGG: Sale should be marked to retain representatives of all oak species present in the stand, for habitat diversity.</p>														
138	A3	O1	11	4	1	0	48	aspen (upland)	nonstocked	N		50-59 years	0	
<p>comnts Fmd : 2002 timber sale update comments: Clearcut as part of timber sale #029-00-1, "20 Years Ago" sale. This unit was 25 acres and was completed in 7/01. Poor OI caused the major change in the position of the stand lines. 2005 KGR OI comments: Stand is regenerating nicely with Big Tooth Aspen dominating a stand that contains some oak and red maple. Ground cover is bracken fern. Terrain is relatively flat. The original stand is bisected by the military tank trail which is located upon the 39th UTM gridline. This segment of the original stand is north of the tank trail.</p>														
139	U0	U0	4			0		upland brush	nonstocked	N		not scheduled	0	
<p>comnts Fmd : 2005 KGR comments: Stand is a typical U-type. Occasional merchantable oak tree, but mostly pin cherry shrubs. Ground cover consists of grass and sweet fern. Terrain is mostly flat. This stand is bounded on the south by the tank trail and is bisected N/S by a railroad.</p>														
140	O9	M1	5	89	12	70	46	oak	high risk	Y	selection	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Mixed Oak/Aspen stand - dominated by oak. Stand is bordered on the south by the Military Tank Trail. The forest canopy within two chains of the Tank Trail must be maintained. Cut only Aspen within the two chain area and in that portion of the stand that is located north of the tank trail. Burn this stand either before or after the harvest. The burn is to set back cherry and red maple sprouting in an attempt to retain this site as in oak management. In the event that this effort fails to materialize or that the burn does not accomplish the objective, the stand would become more mixed composition (oak, red maple & cherry), and this is an acceptable alternative.</p> <p>Wld : Stand 140: 2005 SGG: Concur with FMFM.</p>														
141	A9	M2	4	65	10	90	51	aspen (upland)	high risk	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2005 kgr comments: Oak/Quaking Aspen, with Red Maple mixed in. The stand is bordered on the south by the Military Tank Trail. The forest canopy within two chains of the Tank Trail must be maintained. The stand should be clearcut up to the two chain distance. Leave all merchantable hardwood and oak within the two chain area adjacent to the tank trail. Harvest should occur during leaf-off to assure the sprouting vigor of the aspen is at a maximum. Military Board Lands.</p> <p>Wld : Stand 141: 2005 SGG: Leave 1-2 oak at north end of stand for mast production.</p>														
143	U0	U0	1			0		upland brush	nonstocked	N		within 0-9 years	0	opening maintenance
<p>comnts Fmd : 2005 KGR comments: Ground cover includes grass and sweet fern. Pin Cherry shrubs with occasional cherry tree are found on this site. Terrain is slightly rolling. Stand is bounded on the south by the tank trail and it is bisected by a trail road..</p> <p>Wld : 2005 BJR: growing in with cherry. 2005 SGG hand fell some encroaching woody vegetation to maintain semi open habitat.</p>														
144	A3	O1	55	24	3	0	70	aspen (upland)	immature	N		30-39 years	0	
<p>comnts Fmd : 5/13/98 (Grieve) ok stand, Timber Sale 10-80. 2005 KGR OI comments: A mixed stand of Aspen, Red Maple and Oak. Some cherry sprinkled in. Ground cover is bracken fern. Terrain is slightly rolling to flat. Some pockets of U mixed in. Aspen, Oak and Red Maple were removed here in 1981 cutting. Stand is well stocked and is just approaching polesize. This stand is located north of the tank trail.</p>														
170	O9	N1	22	77	16	80	61	oak	immature	N		10-19 years	0	
<p>comnts Fmd : 2005 kgr comments: Excellent quality Red Oak. Lots of Red Maple is coming in. Pockets of heavy Aspen sprouting. No treatment needed until 2017 unless a burn can be accomplished to set back the red maple. Terrain is somewhat hilly with some short steep slopes. The Military established a tank trail which bisects the stand. This portion of the stand is north of the tank trail. Maintain a good canopy cover within 2 chains of the tank trail. 2002 Update Comments: Sale marked and thinned during 2001. Sale #020-00-1 "Back Hills Oak." Residual BA = 77 square feet. Aspen and Red Maple were removed and Oak was thinned to reduce the BA. The sale is upon Military Board Land and a tank trail was established on the 39th UTM Grid Line which bisects this stand. The timber in this stand is very good quality.</p>														

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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					
															11	12	13	14	15
172	A5	A2	11	32	6	40	63	aspen (upland)	immature	N		20-29 years	0						
<p>comnts Fmd : 2005 kgr comments: Stand is O7A4A2. Big Tooth Aspen and Quaking Aspen are both present. Stand appears to have been cut sometime in the past. May have been a loggers choice type cut where oak was left. Lots of regeneration is in place. Some of it is Aspen and some of it is Red Maple. There is some advanced Oak regeneration present in places. This is just a plain "mixed stand." The natural stand lines are bisected by the tank trail and a natural gas pipeline. The data on this sheet represents the portion of the stand that is south of the tank trail and east of the pipeline.</p>																			
173	O9	M1	29	89	12	130	63	oak	immature	Y	selection	within 0-9 years	1	natural regeneration					
<p>comnts Fmd : 2005 kgr comments: Oak stand containing some very good quality Red Oak. Canopy is closed up pretty tight and there is little oak regeneration. There is an occasional Aspen clone and some Red Maple is mixed into the stand. Selectively cut the Red Maple and Aspen. Thin the Oak to 70-80 square feet BA. Canopy cover within two chains of the Military Tank trail must be maintained. The natural stand is bisected by the tank trail and this stand represents that portion of stand that is north of the tank trail. Along the tank trail, just remove the Red Maple and Aspen, leave all the oak in that area. Oak selection should focus on lower quality and defective stems. East boundary of the stand is a pipeline. Terrain is slightly rolling to flat. A small amount of mortality was noticed, but not much.</p> <p>Wld : Stand 173: 2005 SGG: Concur with FMFM.</p>																			
176	O8	N2	1	88	14	50	41	oak	mature	Y		10-19 years	0						
<p><u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement Other Agency concerns (name in comments)</p>																			
<p>comnts Fmd : 2005 kgr comments: Oak stand with White Pine understory. Ground cover is bracken fern. Oak quality is generally only fair. Some scattered Aspen stems but generally this is Northern Pin Oak/Red Oak hybrid, White Oak sawlogs with some Red Maple poles. Leave this stand to allow the White Pine to develop further. Average White Pine height is now 16'. Check again in 10 years. Oak seedlings are present but no advanced oak regeneration is evident. Terrain is rolling. Rotate management of Oak & White Pine on this site. x 5/13/98 (Grieve) Oak same as the rest of the area. W2 understory/no treatment (already treating to much in this compartment) let this go to white pine.</p>																			
203	U0	X0	1			0		upland brush	nonstocked	N		not scheduled	0						
<p>comnts Fmd : 2005 KGR comments: Stand was included in the large 2000 timber sale. Cherry has stump sprouted & some oak occupies the site. Ground cover is bracken fern & grass. This corridor contains a trail road that was used extensively as a decking area. Old "range" activity area - probably small arms since the 2000 harvest encountered huge numbers of bullets in the trees. Terrain is slightly rolling. The tank trail is directly adjacent to this small extension of the larger U type that extends west and north of the tank trail.</p>																			
272	A5	A2	2	32	6	40	63	aspen (upland)	immature	N		20-29 years	0						
<p>comnts Fmd : 2005 kgr comments: Stand is O7A4A2. Big Tooth Aspen and Quaking Aspen are both present. Stand appears to have been cut sometime in the past. May have been a loggers choice type cut where oak was left. Lots of regeneration is in place. Some of it is Aspen and some of it is Red Maple. There is some advanced Oak regeneration present in places. This is just a plain "mixed stand." The natural stand lines are bisected by the tank trail and a natural gas pipeline. The data on this sheet represents the portion of the stand that is north of the tank trail and east of the pipeline.</p>																			
401	G0	G0	13			0		grass	nonstocked	N		not scheduled	0						
<p>comnts Fmd : 2005 kgr comments: This is a major pipeline corridor that is nearly 2 chains wide. Two track trails parallel the pipeline on both edges of the pipeline corridor. Ground cover includes grasses, ferns and wildflowers. Erosion is a serious problem because of the two track trails and the fact that the area is quite hilly. It appears that there is a considerable amount of Military traffic using the pipeline trails. 5/13/98 (Grieve) Great Lakes Pipeline.</p>																			
403	G0	G0	5			0		grass	nonstocked	N		not scheduled	0						
<p>comnts Fmd : 2005 kgr comments: This is military tracked vehicle trail route. This area of the trail is not yet completed but all the timber has been removed.</p>																			
404	G0	G0	24			0		grass	nonstocked	N		not scheduled	0						
<p>comnts Fmd : 2005 kgr comments: This is the military tracked vehicle trail route that is commonly known as the Tank Trail. The timber was cleared from the route in 2001 and the military removed the stumps from the area in 2002-2005. This East/West area of the trail is being used to some extent by military vehicles but no tracked vehicle use is occurring yet. There is a considerable amount of public use along the two-track trail that has developed along the entire cleared route. Canopy maintenance alongside the Tank Trail is a priority during forest treatments along this corridor. Dense canopy cover is important for military training operations in the area.</p>																			

TRAVERSE CITY FOREST MGT UNIT

Stand Level Information

Compartment: 231 Entry Year: 2007

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Stand	Cover Type-Size 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							
405	G0	G0	7			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 kgr comments: This is a portion of the military tracked vehicle trail route that is commonly known as the Tank Trail. The timber was cleared from the route in 2001 and the military removed the stumps from the area in 2002. This North/South area of the trail is not being used much by military vehicles yet. The completion of the trail loop will be done in a few years. So, no tracked vehicle use is occurring yet. Canopy maintenance alongside the Tank Trail is a priority during forest treatments along this corridor. Dense canopy cover is important for military training operations in the area. There is a some public use along the two-track trail that has developed inside this cleared route.													
406	G0	G0	10			0	grass	nonstocked	N		not scheduled	0	
comnts Fmd : 2005 kgr comments: This is the military tracked vehicle trail route that is commonly known as the Tank Trail. The timber was cleared from the route in 2001 and the military removed the stumps from the area in 2002-2005. This East/West area of the trail is being used to some extent by military vehicles but no tracked vehicle use is occurring yet. There is a considerable amount of public use along the two-track trail that has developed along the entire cleared route. Canopy maintenance alongside the Tank Trail is a priority during forest treatments along this corridor. Dense canopy cover is important for military training operations in the area.													

Total Acres..... 1931