

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

Stand	Cover Type- Dnsty	Under Story- Stkng Level	A c r e s	Age	avg. D B	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
1	O2	M1	46	4	1	0	47	oak	immature	N		80+ years	0	
comnts Fmd : 2009 Notes: Stand was final harvested in 2005 to military specifications under timber sale 72-045-01-01 Many Fox Hole Block. Stand two was also included within this sale. Management goal is for Oak natural regeneration and will accept the mix of other species such Jack Pine, Red Maple and Aspen. Stand is under long term military lease. Stand is currently an O2 M1. Sedges and Bracken Fern make up most of the ground cover.														
3	O9	M2	5	78	10	80	50	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : Oak patch left from the cutting of stand 18. Long-term military leased. Stand is also full of old underground enplacements and trenches. No treatemet unless military wants it treated.														
4	O9	O1	32	87	10	90	49	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : OAK IS IN CLUMPS. North side of the hill all fox holes (military type). NO TREATMENT UNLESS MILITARY WANTS IT TREATED														
5	J2	O2	55	4	1	0	49	jack pine	nonstocked	N		50-59 years	0	
comnts Fmd : Some areas of J6, leave 4 inch and under, leave oak on hill SE part of stand over looking stand 15. Stand final harvested. Sale # 0450101.														
6	O9	O2	5	83	12	90	52	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : Mature stand of Oak mixed with Jack Pine and Red Maple. Stand is under long-term military lease. Stand is also full of old underground enplacements and trenches. Recommend doing nothing unless military wants it treated.														
8	O2	M1	79	5	2	0	54	oak	immature	N		50-59 years	0	
comnts Fmd : Final harvest. Leave the dead oak. Timber Sale 72-043-01-01 Leave Valley Oak Block. Cut in spring of 2004														
9	O5	O1	52	85	9	50	52	oak	immature	Y		within 0-9 years	0	natural regeneration
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : (Mark to 40% crown cover. Leave 40 BA. Old comment.) Timber sale # 72-026-02-01 (Infantry Encampment). Cut by Chris Muma Forest Products in 2005. Residual after marking the stand was 44 square feet. 06/10/2005 mm 2009: Recommend an underburn to set back Aspen, Red Maple and Cherry.														
10	O7	M1	47	89	9	40	56	oak	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : 2009 Notes: Mature Oak stand with and mix of Oak, Red Maple and some Aspen in the understory. Some of the Oak has died since harvested some area do have a little denser Oak residual than where my plots were taken. Stand is under long-term military lease. Old Notes: LEAVE 50-60 SQ FT OF NICE QUALITY RED AND WHITE OAK. Timber sale #72-026-02-01 (Infantry Encampment). Cut by Chris Muma Forest Products in 2005. Residual after marking the stand was 44 square feet. 06/10/2005 mm														
11	O9	O2	18	77	10	70	56	oak	sparse	N		10-19 years	0	
comnts Fmd : 2009 Notes: Stand some what sparse. Stand is Oak patches surrounded by grassy areas. 0402 IN THE SW CORNER.														
12	O8	O2	3	85	10	50	54	oak	sparse	Y		40-49 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : Oak patches left after the cutting of stand 18. Stand is under long-term military lease. Stand is also fill with many fox holes.														

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					B	Tot. BA								
13	J6	O2	61	55	8	100	49	jack pine	mature	N	final harvest	within 0-9 years	1	planting
comnts Fmd : 2009 Notes: Mature Jack pine stand mixed with Aspen and some Mature Oak. Stand is under long-term military lease and the east side of stand borders the Mortar Range (Range 13-14). Recommend final harvest with similar stand to the south in compartment 187 (2010 yr of entry). Replant to Jack Pine if possible or let regenerate naturally. Should get Oak, Aspen and Jack Pine as a mix. Retention should be considered along the tank trail around the edge of the mortar range fence. Old notes:Oak age 80 plus, mix of 01J1A4J4.														
14	J3	O2	55	16	3	10	51	jack pine	immature	N		40-49 years	0	
comnts Fmd : Immature Jack pine stand with scattered Oak regeneration. Stand also contains 10-20 BA of mature Oak in the overstory. Stand is under long-term military lease.														
15	O8	G1	117	88	10	60	49	oak	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : HEAVY NATIONAL GUARD USE. CLOSED TO VEHICLE USE DUE TO UNDERGROUND INFANTRY EMPLACEMENTS.														
16	O9	J2	26	86	13	70	48	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : Mature Oak stand mixed with Jack Pine and Red Maple. Stand is under long-term military lease. Stand is also full of old underground emplacements and trenches. Recommend doing nothing unless military wants it treated.														
17	J4	Y1	6	49	4	20	48	jack pine	sparse	N		10-19 years	0	
comnts Fmd : Heavy National Guard use.														
18	J3	M2	64	16	3	0	49	jack pine	immature	N		50-59 years	0	
comnts Fmd : Immature Jack Pine stand mixed with Aspen, Oak and cherry brush. 3inch dbh and about 9 feet tall.														
19	O6	O1	33	87	10	90	51	oak	immature	Y	final harvest	within 0-9 years	1	
comnts Fmd : 2009 Notes: Recommend final harvest, no retention. Mixture, maple in the valleys along trail, oak on the ridges. Will accept a mixture of red maple, aspen and oak regen.														
20	A6	M2	76	27	6	90	65	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : 2009 Notes: Young Aspen pole stand mixed with Oak and Red Maple. Long-term military leased.														
21	O9	O2	18	88	10	70	51	oak	mature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Military use/easement/lease/long-term agreement														
comnts Fmd : 2009 Notes: Mature Oak stand with lots of dead stand Oak. Stand was part of stand 18 last entry year, but was not cut. Stand is full of old underground emplacements and trenches used by the military in the past. Stand is under long-term military lease. Although stand meets silviculture treatment status, unless military requests treatment, this stand will not be treated. Old notes: Part of the Oak left after the cutting of stand 18.														
22	A6	M2	57	35	6	70	68	aspen (upland)	immature	N		30-39 years	0	
23	A6	M1	24	41	8	90	63	aspen (upland)	immature	N	final harvest	within 0-9 years	1	
comnts Fmd : 41 yr old Aspen stand mixed with Oak and Red Maple. Stand is under long-term military lease. Stand borders Range 13. Recommend final harvest with no retention. If retention is needed, leave patches long tank trail. This stand could hold 10 to 20 yrs more before harvest.														

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					B	Tot. BA								
24	O 9	M 1	77	89	11	100	62	oak	mature	Y	shelterwood-seed	within 0-9 years	1	natural regeneration
<p>comnts Fmd : 2009 Notes: Field trip to site with biologist and silviculturist resulted in recommendation of performing a shelterwood harvest in stand. Lots of pockets of white oak seedlings resulting from thinning last time. Make sure you remove trees from around the seedling pckets to release them. Shelterwood remainder of stand. Can leave clumps or patches of oak for mast and retention. Looking for Oak regeneration if possible from stump strouts. May want to underplant scattered white pine sporadically throughout stand after the harvest-but not required. Depends if funding is available, would be nice to reintroduce pine component in stand and concerns about heavy deer browse in area due to hunting restrictions. There are some Red and White sapling in understory. Will accept a mix of all species of regeneration. Leave BA heavier along trail bordering Range 13 fence. Note, this is military, need military permission. Stand is obviously not used actively for training. Has some nice oak in it. Old notes: STD THINNED IN 1992 UNDER SALE #60-91-1, REMOVED APPROX 30 BA</p>														
25	O 2	J 2	18	6	2	0	49	oak	nonstocked	N		50-59 years	0	
<p>comnts Fmd : Immature Oak and Jack pine. Used old site index, which was Jack Pine.</p>														
26	A 5	A 1	12	41	5	50	55	aspen (upland)	immature	N		20-29 years	0	
27	U 2	U 2	165		2	0	55	upland brush	immature	N		not scheduled	0	
<p>comnts Fmd : FENCED NATIONAL GUARD MOTAR RANGE. Upland Brush and Grasses. There are a few pockets of mature Oak in the north end of range. Range is burned on an yearly bases by the National Guard.</p>														
28	O 6	M 2	32	52	8	160	56	oak	immature	N		30-39 years	0	
<p>comnts Fmd : Oak stand mixed with Aspen and Red Maple. Long-term military leased. Military trespass. Military push trees and stumps over into stand to widen trail along range 13 fence.</p>														
29	O 6	M 2	34	67	8	70	51	northern hardwood	immature	N	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Refer to stand 30 comments regarding treatable portions: "... Per silviculturalist, recommend final harvest south slopes only. Leave north slopes alone. Cut and expect a mix of natural regeneration of aspen, red maple, and oak via stump sprouts. Will not get back a full stocking of oak, but plan on a mix. Prescribe entire stand but in reality only a portion of the stand will be harvested. Create a stand 130 as the harvested portions- estimated that as 1/3 of acreage. Remainder of stand will stay as stand 30 and remain unharvested. SJT"</p>														
30	O 6	M 1	102	87	9	90	50	oak	immature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Stand is very hilly. Per silviculturalist, recommend final harvest south slopes only. Leave north slopes alone. Cut and expect a mix of natural regeneration of aspen, red maple, and oak via stump sprouts. Will not get back a full stocking of oak, but plan on a mix. Prescribe entire stand but in reality only a portion of the stand will be harvested. Create a stand 130 as the harvested portions- estimated that as 1/3 of acreage. Remainder of stand will stay as stand 30 and remain unharvested. SJT</p>														
31	O 5	M 1	4	67	8	50	50	oak	immature	N		not scheduled	0	
<p>comnts Fmd : Active gernade range.</p>														
32	X 0	X 0	2			0	50	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
<p>comnts Fmd : GRAVEL PITS. Hills in nsw sec 33.</p>														

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					D B	Tot. BA								
33	O 9	M 1	141	87	10	100	58	northern hardwood	two aged	Y	delayed removal	within 0-9 years	1	
<p>comnts Fmd : Former treatment ended up with nice oak overstory over a dense understory of aspen and red maple, that are 10-15 feet tall. Aspen starting to be shaded out. Need to remove overstory oak to release patches of aspen and red maple. We have converted this stand away from oak. In areas where we want to maintain some patches of oak, mash the red maple down and clearcut the oak to give oak sprouts opportunity to compete. Is concern over heavy deer browse taking out the oak. Leave patches of oak for visual and mast and retention throughout the sale area. Will need military permission to treat. Old comments:Cut the aspen and maple, mark some white oak to cut were it's a solid type. Stand was thinned in 2005-2006 under contract 72-049-01-01 Cote Came Thin Block. No FTP was needed following the sale.</p>														
34	O 9	O 1	77	84	10	150	58	northern hardwood	mature	Y	final harvest	within 0-9 years	1	natural regeneration
<p>comnts Fmd : Mature Oak stand mixed with Aspen and Red Maple. Very open in the understory, not much regeneration. Used by the Military heavily in the past and maybe still be using it heavily yet. Camps where set up in the understory. Stand is military hanson grant lands. Visited site in Oct 2009 with Wildlife biologist and silviculturalist. Determined stand should be treated now if we are to get any oak regeneration at all. Oak is aging so, we are losing it and stand is dominated by oak. Final harvest site and expect it to regenerate to primarily red maple and aspen, which has happened in adjacent stands that were clearcut. Leave retention islands of healthy oak and protect roads needed by military for training purposes, otherwise cut as much as possible to allow for lots of browse to overwhelm heavy deer browse impacts in area. Since no hunting is allowed in area, there is heavy deer browse.</p>														
35	O 9	M 2	41	89	10	170	58	oak	mature	Y	thinning	within 0-9 years	1	
<p>comnts Fmd : 2009 Notes: Mature Oak stand which has pockets of Aspen within it and scattered Red Maple. Stand is under long-term military lease. Recommend thinning stand to 60-70 BA. Remove all Aspen and Red Maple.LOCATED NEAR NATIONAL GUARD AMMO SUPPLY POINT. THIN NEXT TIME.</p>														
36	O 6	M 2	28	32	6	90	60	oak	immature	N		40-49 years	0	
<p>comnts Fmd : NEAR NATIONAL GUARD AMMO SUPPLY POINT.</p>														
37	M 9	M 1	54	84	10	120	75	northern hardwood	immature	Y	thinning	within 0-9 years	1	
<p>comnts Fmd : 2009: Evenaged Northern Hardwoods stand. With little to no regeneration in the understory. Stand had a lot of Paper Birch in the past, but is now dying out of the stand. Stand is a mix of some Oak; pockets of Aspen and scattered Basswood and Beech along with the dominate Sugar and Red Maple. Recommend thinning the stand to between 70 and 80 BA and add some regeneration gaps throughout the stand. Stand is under long-term Military lease and is part of the Hanson Refuge. Old Notes: ASPEN CLONES HARVESTED ABOUT30 YEARS AGO. PATCHES OF A3 THROUGHOUT. POSSIBLY THIN IN 10 YEARS.</p>														
38	A 3	A 3	25	6	0	0	70	aspen (upland)	immature	N		50-59 years	0	
<p>comnts Fmd : Cut winter Of 2002/2003 by Chris Muma Forest Products Timber Sale # 72-046-01-01 - Two Stand Training Block. 05/01/2003 mm</p>														
39	X 0	X 0	26			0	50	other non-stocked or non-forest or non-productive	nonstocked			not scheduled	0	
<p>comnts Fmd : GRAVEL PIT EXPANDED IN 1987.</p>														
40	U 2	M 2	1	84		0	64	upland brush	immature	N		20-29 years	0	
<p>comnts Fmd : Some valleys. Uplandbrush, cherry, and maple.</p>														
41	O 9	M 1	54	87	10	100	58	oak	immature	Y		10-19 years	0	
<p><u>Treatment Limiting Factors:</u> Delayed treatment for age/size class diversity</p>														
<p>comnts Fmd : Cut the aspen and maple, mark some white oak to cut were it's a solid type. Stand was thinned in 2005-2006 under contract 72-049-01-01 Cote Came Thin Block. No FTP was needed following the sale.</p>														

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					B	Tot. BA								
43	X0	X0	8	8	0	0	49	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : Corridor was final harvested in 2001 to serve as a military by pass road. Cut over area started to regenerate but military is gradually removing stumps, so most of corridor is sand, shrubs, or grass. Will eventually be nonstocked travel corridor so called is X0 . See contract #018-01-02 Tank Trail Cut.														
44	X0	X0	6	8	0	0	49	other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : Corridor was final harvested in 2001 to serve as a military by pass road. Cut over area started to regenerate but military is gradually removing stumps, so most of corridor is sand, shrubs, or grass. Will eventually be nonstocked travel corridor so called is X0 . See contract #018-01-02 Tank Trail Cut.														
45	J4	J1	4	30	5	30	46	jack pine	immature	N		30-39 years	0	
46	O7	M1	46	89	9	40	56	oak	immature	Y		10-19 years	0	
<u>Treatment Limiting Factors:</u> Retention of stand for regeneration purposes (ie. shelterwood)														
comnts Fmd : 2009 Notes: Mature Oak stand with and mix of Oak, Red Maple and some Aspen in the understory. Some of the Oak has died since harvested some area do have a little denser Oak residual than where my plots were taken. Stand is under long-term military lease. Old Notes: LEAVE 50-60 SQ FT OF NICE QUALITY RED AND WHITE OAK. Timber sale #72-026-02-01 (Infantry Encampment). Cut by Chris Muma Forest Products in 2005. Residual after marking the stand was 44 square feet. 06/10/2005 mm														
401	G0	G1	1			0	58	grass	nonstocked	N		10-19 years	0	
402	G0	G1	2			0	58	grass	nonstocked	N		10-19 years	0	
comnts Fmd : Stump pile some O2.														
403	G0	G1	3			0	49	grass	nonstocked	N		10-19 years	0	
404	G0	G1	2			0	58	grass	nonstocked	N		10-19 years	0	
comnts Fmd : Looks like a Military barrow pit that's been sloped.														
405	G0	G1	24			0	58	grass	nonstocked	N		20-29 years	0	
comnts Fmd : Long narrow flat opening were Military vehicles park.														
406	G0	G1	5			0	58	grass	nonstocked	N		20-29 years	0	
comnts Fmd : Near National Guard ammo supply point.														
407	G0	G1	4			0	55	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Some cherry brush in a big hole.														
408	G0	G1	2			0	58	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Valley frost pocket.														

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					D B H	Tot. BA								
409	G 0	G 1	2			0	58	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Shallow hole.														
410	G 0	G 1	1			0	54	grass	nonstocked	N		10-19 years	0	
411	G 0	G 1	25			0	54	grass	nonstocked	N		10-19 years	0	
comnts Fmd : Narrow strip of grass and some regeneration of Aspen and Oak along the Crawford/Kalkaska line.														
412	G 0	G 1	10			0	54	grass	nonstocked	N		10-19 years	0	
413	G 0	G 1	9			0	54	grass	nonstocked	N		10-19 years	0	
421	G 0	G 1	7			0	51	grass	nonstocked	N		not scheduled	0	
comnts Fmd : Stump dump in the west half.														
Total Acres..... 1933														