

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								
1	E 4	E 2	8	57	8	30	47	swamp hardwoods	old growth (potential or actual)	N		not scheduled	0	
comnts Fmd : HCVA-Natural River, Fox River. Fox River flood plain with scattered trees, tall brush and grass/sedge. 98=cedar, hemlock and spruce soil=65 AuSable, Deford & Tawas Mucks, Frequently flooded; also 27A Hendrie-Anninias Complex 0-3% slopes														
2	F 6	F 3	13	57	9	130	50	spruce-fir (uplands-including upland black spruce)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Land survey needed														
comnts Fmd : Conifer/hardwood mix on slightly higher ground. Cut all trees except cedar and hemlock. May also leave some red and white pine, and anything else necessary until retention is met. Difficult access: need a bridge over Holland Creek, or a road through private. East property line was put in by private surveyor; accuracy is unknown. Treat with C005 s 20 to the north. Regeneration of the same species mix is acceptable. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes habitat type=PVE														
3	Q 6	Q 3	6	57	9	120	48	mixed swamp conifer	immature	N		20-29 years	0	
comnts Fmd : Mix of conifers on lower ground. East property line was put in by private surveyor; accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
4	S 4	S 2	13	47	6	30	38	black spruce-swamp	sparse	N		50-59 years	0	
comnts Fmd : Bog filling in with trees - mainly spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														
5	S 6	S 2	24	67	8	90	46	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Cut all trees except cedar & hemlock. May leave some red and white pine. Place retention areas near leave trees and bogs. Spruce is the preferred regeneration species, but a mix of species similar to that currently on site is acceptable. Difficult access: needs bridge across Holland Creek, or road through private. Treat with C005 s 20 to the north. 35=red and white pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes; and 37 Dawson, Greenwood and Loxley soils														
6	V 0	V 0	64		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														
7	V 0	V 0	1		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														
8	R 9	S 3	27	82	14	140	52	red pine	mature	Y	shelterwood-prep	within 0-9 years	2	
<u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Higher ground with a mix of red and white pine, lower ground contains more spruce. Mark red and white pine to 50-80 BA, cutting all other trees except hemlock and other trees needed for retention. Difficult access: needs a bridge over Holland Creek, or a road through private property. Treat with C005 s.20 to the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes Wld : This stand types out as a PVE habitat. WLD agrees with FMFM comments and prescription.														
9	V 0	V 0	12		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														

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							
10	H 6	H 2	11	97	9	120	48	hemlock	old growth (potential or actual)	N		not scheduled	0	
<p>comnts Fmd : HCVA-Natural River, Fox River. This stand has old growth characteristics. Large diameter Hemlock, White Pine and Yellow Birch are within the stand, though most of the trees are <10"DBH. East private line was put in by private surveyor and its accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes</p>														
11	S 5	S 3	4	59	8	60	38	black spruce-swamp	immature	N		20-29 years	0	
<p>comnts Fmd : Narrow, low ridge between bogs. Leave this stand as a retention area, when doing surrounding cutting. 35=red and white pine Soil=37 Dawson, Greenwood & Loxley soils</p>														
12	M 6	F 3	18	62	9	110	50	aspen (upland)	mature	N	final harvest	within 0-9 years	2	
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Land survey needed</p> <p>comnts Fmd : Manage for mixed aspen; cut all trees except for Hemlock. Put retention areas near Hemlock and bogs. Mark some paper birch and white pine for retention, or incorporate into retention areas. East blue line was put in by private surveyor and accuracy is unknown. Difficult access: need bridge over Holland Creek or road through private. Regeneration of the same species mix is acceptable. 98=white pine, b.spruce, hemlock soil=525B Neconish-Wainola-Kinross complex 0-6% slopes</p> <p>Wld : This stand types out as a PArVAa habitat. In agreement with FMFM, retain some white birch and large white pine. Do not cut hemlock.</p>														
13	S 6	S 2	23	67	9	120	48	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Land survey needed</p> <p>comnts Fmd : Cut all trees except hemlock. Leave some scattered red and white pine. Put retention areas near Hemlock, pine, and bogs. Manage for spruce; though regeneration of the same species mix currently on site will be acceptable. Difficult access: need bridge across Holland creek, or road through private. Adjacent to private property; survey needed. 98=white pine, cedar soil=525B Neconish-Wainola-Kinross Comple 0-6% slopes and 36 Carbondale, Lupton & Tawas soils</p>														
14	Q 6	Q 2	12	67	9	120	48	mixed swamp conifer	mature	N	final harvest	within 0-9 years	2	
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Land survey needed</p> <p>comnts Fmd : Cut all trees except cedar and hemlock. Put retention areas near Hemlock and cedar. Difficult access: bridge needed across Holland creek, or road through private. Adjacent to private property; survey needed. Regeneration of the same species mix is acceptable. Soil=36 Carbondale, Lupton and Tawas soils</p> <p>Wld : This stand types out as a PArVAa habitat. In agreement with FMFM, do not cut cedar or hemlock.</p>														
15	M 6	F 1	17	57	9	120	50	northern hardwood	immature	Y	thinning	within 0-9 years	2	planting
<p><u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate) Land survey needed</p> <p>comnts Fmd : Mark to 70-80 BA, making regeneration holes 1-2 times the tree height to favor cherry, yellow birch and hemlock regeneration. Do not mark trees around vernal ponds. Use BMP guidelines near the Manistique River. See WL comments for additional instructions. Difficult access: bridge across Holland Creek needed, or a road through private land far to the north. There is an old road through the stand. The east property line was put in by private surveyor; accuracy unknown. 98=b.fir, hemlock, white pine soil=34B Liminga Fine Sand 0-6% slopes and 34E 15-35% slopes</p> <p>Wld : This stand types out as an ATRFD habitat. WLD and FMFMD have agreed to the following: 1.Hemlock will not be cut during the thinning of this stand. 2. Regeneration holes will be created in a manner that facilitates regeneration of Cherry. 3. The stand will be cut in a manner that promotes size class and species diversity. And 4. Hemlock will be underplanted after the cutting is completed. Also, there is a stick nest (FMFM has GPS coordinates) that may well be part of the territory of an active Goshawk pair currently nesting in stand 17. This nest should have a two chain no-cut buffer. If this nest is active at the time of the sale, there should be no cutting from March 1 through July 31.</p>														

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Stand	Cover Type-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							
16	R 9	S 1	19	67	14	120	52	red pine	mature	N	shelterwood-prep	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Thin red and white pine to 60-70 BA. Remove all other trees except for hemlock and oak, and anything else needed for retention. Difficult access: bridge over Holland Creek needed, or road through private land to the north. 35/2=jack pine and white pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
Wld : This stand types out as a PARV habitat. WLD agrees with FMFMs prescription for this stand.														
17	A 6	F 3	20	67	9	120	70	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
Land survey needed														
comnts Fmd : Large diameter bigtooth and trembling aspen, with a variety of other tree species present. Manage for mixed aspen; cut all trees except Hemlock and Yellow Birch. Regeneration of the same species mix that is currently on site is acceptable. Use BMP guidelines near the Manistique River. See WL comments for additional instructions. Difficult access: bridge across Holland Creek needed, or a road through private land far to the north. There is an old road through the stand. Adjacent to private property; survey needed. 98= Hemlock, Spruce, Cedar and White Pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes and 13D Kalkaska sand 6-15% slopes														
Wld : This stand types out as an ATFD habitat. The stand contains an active Goshawk nest (FMFM has GPS coordinates). WLD and FMFM have agreed to the following. 1. There will be no cutting between March 1 and July 31. 2. There will be a two chain no-cut buffer left around the nest tree. 3. In the zone from 2 to 5 chains around the nest, trees can be selectively marked for cutting/or leaving with an attempt to leave approximately 60% of the canopy. 4. Hemlock and yellow birch will be retained within the stand.														
18	V 0	V 0	1		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Small bog, with scattered trees, within a spruce stand. Place retention area around this stand when cutting surrounding stands 8 and 5. Soil=37 Dawson, Greenwood and Loxley soils														
19	R 6	F 2	7	57	9	90	52	red pine	immature	N	shelterwood-prep	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
Land survey needed														
comnts Fmd : Mix of tree species and densities. Thin the red and white pine and cut all other trees except hemlock and oak, and those needed for retention. Follow BMP guidelines along the Manistique River. Difficult access: bridge needed across Holland Creek, or a road across private from the north. Stand is adjacent to private property; survey needed. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
Wld : This stand types out as a PARV habitat. WLD agrees with FMFM prescription														
20	A 6	F 3	5	57	9	140	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Aspen with a mix of other tree species. Cut all trees except Hemlock; also, leave large red and white pine. Leave other trees as necessary for retention. Regeneration of the same species mix is acceptable. Follow BMP guidelines near Holland Creek and the Manistique River. Difficult access; bridge needed over Holland Creek, or a road from the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
Wld : This stand types out as a PARV habitat. WLD has agreed with FMFM to retain scattered large red and white pine and to retain all hemlock.														
21	S 6	F 2	23	69	9	100	45	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Cut all trees except for Hemlock. Leave some of the red and white pine for retention. Place retention areas around hemlock/pine and bogs (such as stand 80). Spruce is the preferred regeneration species, but a mix other species similar to what is currently on site will be acceptable. Difficult access: bridge needed across Holland Creek, or a road through private to the north. Treat with C005 s 20 to the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
Wld : This stand types out as a PARV habitat. WLD agrees with FMFMs prescription.														

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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								
22	J 6	F 2	5	67	9	170	55	jack pine	mature	Y	final harvest	within 0-9 years	2	natural regeneration
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Cut all trees except Hemlock. Leave some Red and White Pine for retention. Jack Pine is the preferred regeneration species, but a mix with other species similar to what is currently on site will be acceptable. Scarify or handplant to regenerate jack pine. Difficult access: bridge needed across Holland Creek, or a road through private to the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
Wld : This stand contains areas of both PVE and PArV habitat types. WLD agrees with FMFMs prescription														
23	S 6	S 2	10	69	8	110	45	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u>														
Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Cut all trees except Hemlock; also leave some red and white pine for retention. Put retention areas around hemlock/pine, and around bogs. Spruce is the preferred regeneration species, but a mix with species similar to what is currently on site is acceptable. Difficult access: bridge over Holland Creek is needed, or road through private to the north. 35/2=red and white pine soil=525B Neconish-Wainola-Kinross Comple 0-6% slopes														
24	F 6	F 3	20	57	9	70	50	spruce-fir (uplands-including upland black spruce)	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Water quality/bmps														
comnts Fmd : Riparian zone along Holland Creek - steep bank and area at top of bank. There are drainages flowing into the creek from the east. 99=paper birch, yellow birch, aspen 98=jack pine, red pine, cedar, tamarack soil=Pelkie occasionally flooded-Deford frequently flooded Complex 0-6% slopes and 525B Neconish-Wainola-Kinross Complex 0-6% slopes														
25	M 6	F 3	3		9	100	55	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Narrow stand adjacent to 10 Curves Rd. Dense b.fir regeneration. Soil=Wallace Sand 15-35% slopes														
26	A 3	A 3	26	23	3	0	70	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Aspen with b.fir, cherry, r.maple & spruce. Soil=Finch-Spot Complex 0-3% slopes and Wallace Sand 6-15% slopes														
27	M 6	F 1	1	57	9	120	50	northern hardwood	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u>														
Inadequate volume due to small acreage														
comnts Fmd : Very small stand, on the opposite side of the Manistique River than the rest of the state land. 98=hemlock, w.pine, b.fir 99=r.maple, cherry soil=67B Pelkie, occasionally flooded-Deford, frequently flooded complex, 0-6% slopes														
28	A 6	Q 3	6	47	9	90	60	aspen (upland)	mature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Adjacent to 10 Curves Rd. There is an old trail road into the stand. Mix of larger aspen and smaller conifers. Cut all trees except Cedar and Hemlock. In order to maintain this as an Aspen stand, no other trees will be left as retention. TSI where applicable. Aspen with a mix of conifers, similar to the current species mix, will be acceptable for regeneration. Soil=Finch-Spot Complex 0-3% slopes														
29	Q 5	Q 2	4	57	6	40	40	mixed swamp conifer	immature	N		40-49 years	0	
comnts Fmd : Low, wet area with tall brush and a scattered trees. Adjacent to 10 Curves Rd. 91=b.ash, tamarack Soil=Carbondale-Lupton-Tawas Mucks														
30	A 6	Q 3	20	62	9	90	55	aspen (upland)	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : A mix of large Aspen and smaller conifers. Cut all trees except Cedar and Hemlock. In order to maintain this as an Aspen stand, no other trees will be left as retention. TSI where applicable. Aspen with a mix of conifers similar to the current species mix will be acceptable for regeneration. Soil=Finch-Spot complex 0-3% slopes														

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SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

Stand	Cover Type-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							
31	A 3	A 3	46	14	1	0	67	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Rolling terrain. Aspen with some cherry, r.maple, b.fir, p.birch and beech. Soil=Paquin-Finch Sands 0-6% slopes and Wallace sand 6-15% & 15-35% slopes														
32	C 6	Q 2	12	77	7	90	40	cedar	immature	N		20-29 years	0	
comnts Fmd : 98=hemlock, b.fir, w.pine 99=aspen, r.maple, birch soil= 36 Carbondale-Lupton-Tawas Mucks														
33	A 3	A 3	11	13	1	0	68	aspen (upland)	immature	N		30-39 years	0	
comnts Fmd : Aspen with other species including: cherry, b.fir, r.maple and p.birch. Soil=Paquin-Finch Sand 0-6% slopes and Wallace sand 15-35% slopes														
34	J 6	S 2	2	54	8	70	50	jack pine	mature	N	final harvest	within 0-9 years	1 natural regeneration	
comnts Fmd : Cut all trees except white pine, red pine, oak, hemlock and cedar. Near Holland Ditch; follow BMP guidelines for buffer width (stand 39). The Holland Ditch buffer, in combination with the leave trees, will be used to satisfy the retention guidelines. Scarify or plant to regenerate jack pine; jack pine with a combination of other species currently on site would be acceptable regeneration. Soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
35	Q 6	S 2	10	41	8	70	43	mixed swamp conifer	immature	N		20-29 years	0	
comnts Fmd : Scattered large white pine with other conifers (spruce, tamarack, hemlock). Soil=Finch-Spot Complex 0-3% slopes														
36	S 6	S 2	5	67	8	90	46	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
<u>Treatment Limiting Factors:</u> Bridge needed (portable bridge not available or inadequate)														
comnts Fmd : Cut all trees except cedar & hemlock. May leave some red and white pine. Place retention areas near leave trees and bogs. Difficult access: needs bridge across Holland Creek, or road through private. Treat with C005 s 20 to the north. Regeneration of the same species mix is acceptable. 35=red and white pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes; and 37 Dawson, Greenwood and Loxley soils														
37	Q 6	F 3	45	57	9	100	46	mixed swamp conifer	immature	N		not scheduled	0	
comnts Fmd : Manistique River riparian zone; includes a steep bank and floodplain with old oxbows. Mix of conifers and hardwoods - species composition and BA varies. Soil=Pelkie, occasionally flooded-Deford frequently flooded Complex 0-6% slopes														
38	R 9	S 2	9	69	12	110	55	red pine	immature	N		10-19 years	0	
comnts Fmd : Regeneration is mainly b.spruce with b.fir and w.pine. Soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
39	Q 6	Q 2	29	55	9	70	50	mixed swamp conifer	immature	N		not scheduled	0	
comnts Fmd : Riparian zone along the Manistique River - steep banks and floodplain. Tree species and density varies. 98=hemlock, red pine, w.pine and tamarack 99=paper birch, yellow birch soil=Pelkie occasionally flooded-Deford frequently flooded Complex 0-6% slopes														
40	A 3	A 3	36	15	2	0	66	aspen (upland)	immature	N		40-49 years	0	
comnts Fmd : Aspen with b.spruce, j.pine, r.maple, etc. Between Holland Ditch and Holland Creek. Soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
41	R 9	S 3	26	76	14	80	57	red pine	two aged	N		20-29 years	0	
comnts Fmd : Thinned in 1992; the old road is full of regeneration (j.pine, r.pine, w.pine, b.spruce, tamarack). There is aspen regeneration in the south portion of the stand. 98=b.spruce, j.pine, w.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes														

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SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

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								
42	S 5	S 3	18	30	5	40	48	black spruce-swamp	immature	N		30-39 years	0	
comnts Fmd : Mix of b.spruce, j.pine and tamarack. Many of the trees are 1-4" DBH. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
43	Q 5	S 2	11	45	8	60	48	mixed swamp conifer	immature	N		20-29 years	0	
comnts Fmd : Mix of trees with more hardwood in the north, and more tamarack in the south. Regeneration is mainly b.spruce and b.fir with r.maple, cherry, aspen etc. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
44	A 5	S 2	9	46	8	60	62	aspen (upland)	mature	N	final harvest	within 0-9 years	1	
comnts Fmd : This stand contains a large variety of tree species. Cut all trees except w.pine, r.pine, hemlock, oak and cedar. Follow BMP guidelines for Holland Ditch buffer (stand 39). The Holland Ditch buffer, in combination with the leave trees, will be used to satisfy the retention guidelines. Aspen with a combination of species currently on site is acceptable for regeneration. 91=cherry, r.pine, w.pine, b.fir, r.maple soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
45	J 6	S 2	4	52	9	100	50	jack pine	mature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Cut all trees except r.pine, w.pine, oak, hemlock and cedar. Near Holland Ditch; follow BMP guidelines for buffer width (stand 39). The Holland Ditch buffer, in combination with the leave trees, will be used to satisfy the retention guidelines. Scarify or plant to regenerate jack pine; jack pine with a species mix similar to that currently on site is acceptable regeneration. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
46	S 6	S 3	23	59	8	80	50	black spruce-swamp	mature	N	final harvest	within 0-9 years	2	
comnts Fmd : Mix of b.spruce, j.pine and tamarack with r.pine on higher ground. Cut all trees except Hemlock. May leave some red and white pine, and any other trees needed for retention. Cut with C. 005 s. 16 to the north. Most of the spruce regeneration is 1-3"DBH. Spruce with a mix of tree species similar to that currently on site is acceptable for regeneration. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
47	J 3	J 3	12	10	1	0	50	jack pine	immature	N		40-49 years	0	
comnts Fmd : Trenched and seeded in Oct 1997. A narrow buffer of trees was left along Holland Ditch. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
48	H 6	Q 2	13	87	10	120	48	hemlock	immature	N		20-29 years	0	
comnts Fmd : Along Holland Ditch and the Manistique River. 98=b.spruce, b.fir, w.pine, r.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Pelkie occasionally flooded-Deford frequently flooded Complex 0-6% slopes (near river)														
49	Q 6	Q 2	14	49	8	80	48	mixed swamp conifer	immature	N		20-29 years	0	
comnts Fmd : Low ground along the bottom of a hardwood ridge. 98=hemlock, cedar, j.pine, w.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
50	R 9	S 2	8	74	14	120	52	red pine	immature	N		10-19 years	0	
comnts Fmd : Ridges with red and white pine. Regeneration consists of b.spruce with aspen, w.pine and r.pine. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
Wld : This stand types out as PVE habitat. The next time this stand is thinned, oak should be underplanted.														
51	S 5	S 3	17	30	7	40	46	black spruce-swamp	immature	N		30-39 years	0	
comnts Fmd : Near Holland Ditch. 98=b.fir, j.pine, w.pine, r.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
52	U 0	U 0	1		0	0	45	upland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Near Holland Ditch. Tall brush with a few trees (cherry, tamarack, b.spruce). soil=Neconish-Kinross-Wainola Complex 0-6% slopes														

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SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

Stand	Cover Type-Size Dnsty	Under Story-Stkng Level	Acr es	Age	avg. D B H	Tot. BA	Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
53	J 5	J 3	3	30	6	40	53	jack pine	immature	N		20-29 years	0	
comnts Fmd : Jack pine with r.pine, b.fir and aspen. Many trees are 1-4" DBH. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
54	M 6	M 3	10		10	90	57	northern hardwood	unevenaged	N		10-19 years	0	
comnts Fmd : Adjacent to private land. Hilly terrain. Soil=Liminga Fine Sand 0-6% & 15-35% slopes Habitat type=ATFD														
55	J 4	S 3	8	30	6	30	50	jack pine	immature	N		30-39 years	0	
comnts Fmd : Many trees are 1-4" DBH. 98=b.spruce, tamarack, r.pine soil=Finch-Spot Complex and Rosseau Fine Sand 15-35% slopes														
56	S 5	S 3	18	30	6	40	47	black spruce-swamp	immature	N		40-49 years	0	
comnts Fmd : Many trees are 1-4"DBH. Soil=Markey Mucky Peat and Finch-Spot Complex 0-3% slopes														
57	L 0	L 0	2		0	0		lowland brush	nonstocked	N		not scheduled	0	
comnts Fmd : Low, wet ground. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
58	J 6	S 3	37	43	7	80	55	jack pine	immature	N		10-19 years	0	
comnts Fmd : 98=r.pine, w.pine, tamarack soil=Finch-Spot Complex 0-3% slopes														
59	V 0	V 0	35		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Large bog next to M-77. Contains some small pockets of trees (b.spruce, tamarack). Soil=Markey Mucky Peat														
60	T 5	S 2	2	57	8	50	44	tamarack	immature	N		20-29 years	0	
comnts Fmd : Near M-77, surrounded by bog. Soil=Markey Mucky Peat														
61	J 6	S 3	22	64	8	100	50	jack pine	mature	Y	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Partially visible from M-77. Cut all trees except r.pine, w.pine, hemlock, cedar and oak. Retention guidelines will be met by a combination of leave trees, and an irregularly shaped buffer along the marsh edge (stand 6). Jack pine with b.spruce similar to the current species mix is acceptable for regeneration. soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Finch-Spot Complex 0-3% slopes														
Wld : WLD agrees with FMFMs prescription.														
62	S 6	S 3	24	62	9	90	49	black spruce-swamp	mature	N	final harvest	within 0-9 years	1	
comnts Fmd : Cut all trees except r.pine, w.pine, hemlock, cedar and oak. Retention guidelines will be met by a combination of leave trees, and an irregularly shaped buffer along the marsh edge (stand 59). Adjacent to private property (to south), a survey request has been filed. Spruce with a mix of species similar to that currently on site will be acceptable for regeneration. 35=r.pine, w.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Markey Mucky Peat														
Wld : WLD agrees with FMFMs prescription														
63	J 5	S 2	8	52	8	60	57	jack pine	mature	N	final harvest	within 0-9 years	1	natural regeneration
comnts Fmd : Cut all trees except w.pine, r.pine, hemlock, cedar, oak, and any other trees needed for retention. Higher ground than adjacent stand 62. Jack Pine is the preferred species for regeneration, but inclusions of the other species presently on site will be considered acceptable. soil=Neconish-Kinross-Wainola Complex 0-6% slopes & Markey Mucky Peat														
Wld : This stand types out as PVE habitat. WLD agrees with FMFMs prescription. In addition, WLD and FMFM have agreed to underplant oak after the cutting is completed.														

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SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

Stand	Cover Type- Size Dnsty	Under Story- Stkng Level	A c r e s	Age	avg.			Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA	Site Indx							
64	T 3	T 3	3	30	3	0	41	tamarack	immature	N	30-39 years	0		
comnts Fmd : Low, wet ground. Mix of tamarack, b.spruce, b.fir, and w.pine. Soil=Markey Mucky Peat														
65	R 9	S 2	10	74	12	100	52	red pine	immature	N	10-19 years	0		
comnts Fmd : 98=w.pine, b.spruce, j.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
66	H 6	Q 2	3	69	9	120	47	hemlock	immature	N	20-29 years	0		
comnts Fmd : Narrow stand of hemlock at bottom of hardwood hill. 99=p.birch, y.birch soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
67	A 5	F 2	14	36	8	40	63	aspen (upland)	immature	N	10-19 years	0		
comnts Fmd : A combination of a large variety of trees with small openings. 91=cherry, tamarack, b.fir, p.birch, w.pine, r.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
68	J 5	S 2	10	38	7	50	52	jack pine	immature	N	20-29 years	0		
comnts Fmd : Sparse stand with many trees less than 5"DBH. soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Rosseau Fine Sand 15-35% slopes														
69	V 0	V 0	10				0	bog or muskeg	nonstocked	N	not scheduled	0		
comnts Fmd : Bog adjacent to M-77. Soil=Markey Mucky Peat														
70	Q 6	Q 3	4	57	9	120	48	mixed swamp conifer	immature	N	20-29 years	0		
comnts Fmd : Mix of conifers on lower ground. East property line was put in by private surveyor; accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
71	Q 5	S 3	3	57	8	60	46	mixed swamp conifer	immature	N	20-29 years	0		
comnts Fmd : Slightly higher ground with med-tall brush species, including leatherleaf and alder. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
72	S 5	S 3	1	47	8	60	44	black spruce-swamp	immature	N	20-29 years	0		
comnts Fmd : Slightly higher ground with med-tall brush species including leatherleaf and alder. Soil=37 Dawson, Greenwood and Loxley soils														
73	T 4	S 2	12	47	6	30	38	tamarack	sparse	N	50-59 years	0		
comnts Fmd : Low, wet ground with med-tall brush species including leatherleaf and alder. Old bog area filling in with trees. Soil=37 Dawson, Greenwood and Loxley soils														
74	T 4	S 2	5	47	6	30	38	tamarack	sparse	N	50-59 years	0		
comnts Fmd : Low, wet ground with med-tall brush species including leatherleaf and alder. Old bog area filling in with trees. Soil=37 Dawson, Greenwood and Loxley soils														
75	T 4	T 2	11	47	6	30	38	tamarack	sparse	N	50-59 years	0		
comnts Fmd : Low, wet ground with tall brush species including alder, and tall sedge/grass underneath. Old bog area filling in with trees. Soil=37 Dawson, Greenwood and Loxley soils														
76	S 4	S 2	6	47	6	30	38	black spruce-swamp	sparse	N	50-59 years	0		
comnts Fmd : Bog filling in with trees - mainly spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														

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SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

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Stand	Cover Type-Dnsty	Under Story-Stkng Level	Acrs	Age	avg.		Site Indx	Mgt Obj	Condition	Silv. Criteria Met?	Method Cut	Trtmt. Period	Harvest Priority	Cultural Need
					D B H	Tot. BA								
77	V 0	V 0	14		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														
78	V 0	V 0	5		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils														
79	T 4	T 2	4	47	6	30	38	tamarack	sparse	N		50-59 years	0	
comnts Fmd : Low, wet ground with tall brush species including alder, and tall sedge/grass underneath. Old bog area filling in with trees. Soil=37 Dawson, Greenwood and Loxley soils														
80	V 0	V 0	1		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Small bog, with scattered trees, within a spruce stand. Place retention area around this stand when cutting surrounding stand 21. Sol=37 Dawson, Greenwood and Loxley soils														
81	F 6	F 3	8	57	9	70	50	spruce-fir (uplands-including upland black spruce)	immature	Y		not scheduled	0	
<u>Treatment Limiting Factors:</u> Water quality/bmps														
comnts Fmd : Riparian zone along Holland Ditch - steep bank and area at top of bank. 99=paper birch, yellow birch, aspen 98=jack pine, red pine, cedar, tamarack soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
82	S 5	S 2	2	57	8	60	48	black spruce-swamp	immature	N		not scheduled	0	
comnts Fmd : Narrow stand that is slightly higher than the surrounding bog stands. Tall, dense brush. Leave as retention area for stands 13 and 16.														
83	H 9	F 1	3	97	14	150	46	hemlock	mature	N		not scheduled	0	
comnts Fmd : Adjacent to private property (lines are not in). Old road is near the property line. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes														
84	M 5	F 2	5	57	8	60	50	northern hardwood	immature	N		20-29 years	0	
comnts Fmd : Lower ground than adjacent stands. Drainage toward Manistique River. Old road through stand; a culvert is needed to use the road. 98=b.fir, spruce 99=y.birch, cherry, b.ash soil=67B Pelkie, occasionally flooded-Deford, frequently flooded complex, 0-6% slopes and 13D Kalkaska sand, 6-15% slopes														
85	Z 0	Z 0	22		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Manistique River														
86	V 0	V 0	6		0	0		bog or muskeg	nonstocked	N		not scheduled	0	
comnts Fmd : Bog with a few scattered trees (j.pine, b.spruce, tamarack). Soil=Markey Mucky Peat														
87	G 0	G 0	2		0	10	50	grass	nonstocked	N		10-19 years	0	
comnts Fmd : Grassy hill along a trail road with a few trees. Next to Holland Ditch. 35=r.pine, j.pine soil=Rosseau Fine Sand 15-35% slopes														
88	R 9	S 3	4	74	12	100	50	red pine	two aged	N		10-19 years	0	
comnts Fmd : soil=Neconish-Kinross-Wainola Complex 0-6% slopes														

SHINGLETON FOREST AREA

Stand Level Information

Compartment: 6

Entry Year: 2009

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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								
89	R 8	S 3	10	74	12	60	50	red pine	immature	N		20-29 years	0	
comnts Fmd : Widespread red pine with spruce and jack pine. Regeneration is mainly spruce with b.fir, w.pine. soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
90	R 5	F 3	17	62	8	60	50	red pine	immature	N		20-29 years	0	
comnts Fmd : Heavily cut about 30 years ago; many trees are 1-3" DBH. Scattered large red and white pine. 98=j.pine, w.spruce, cedar 99=r.maple, aspen soil=Neconish-Kinross-Wainola Complex 0-6% slopes														
91	Q 6	S 3	12	59	9	70	46	mixed swamp conifer	immature	N		20-29 years	0	
comnts Fmd : Narrow stand between M-77 and private land. Soil=Markey Mucky Peat														
92	S 6	S 2	1	74	8	70	46	black spruce-swamp	immature	N		20-29 years	0	
comnts Fmd : Small group of trees within a bog, near M-77. Soil=Markey Mucky Peat														
93	Z 0	Z 0	1		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Manistique River														
94	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Old oxbows of the Manistique River.														
95	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Old oxbows of the Manistique River.														
96	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Old oxbows of the Manistique River.														
97	Z 0	Z 0	1			0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Old oxbows of the Manistique River.														
98	Z 0	Z 0	1		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Manistique River														
99	Z 0	Z 0	1		0	0		water	nonstocked	N		not scheduled	0	
comnts Fmd : Manistique River														
100	X 0	X 0	6		0	0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : M-77 R-O-W														
101	X 0	X 0	1		0	0		other non-stocked or non-forest or non-productive	nonstocked	N		not scheduled	0	
comnts Fmd : Co P 498 R-O-W (10 curves Rd).														

Total Acres..... 1175