

APPENDIX P

Tree Suitability Tables

Table 7.13: Tree Species' Ability to Compete in North 4 Native Plant Communities

Row shading: Ability of tree species to compete with all vascular plants within NPC class (GREEN =excellent, BLUE =good, YELLOW =fair, SHADED =poor, WHITE =not suitable)
Column numbers: Rank of tree species in order of competitive ability within each NPC class; 1=most suited; -- indicates trace presence .
Row shading and column numbers are based upon the importance value (IV) of a tree in each NPC Class, which is the product of percent presence and percent cover when present (IV=% presence x mean % cover when present). Row shading (not suited to excellent) is based upon the rank order of a tree's IV compared to the full range of IVs expressed by all plants - a rough estimate of absolute suitability. Column numbers (1,2,3, ...) are the rank order of a tree's IV compared to other trees - a rough estimate of relative suitability.
PLS and FIA numbers in red should be used with caution as they are based on a relatively small dataset.
Suitability - based on analysis of modern relevés.
PLS - based on analysis of bearing trees at the time of the Public Land Survey (1847-1908).
FIA - based on analysis of modern US Forest Service Forest Inventory & Analysis plots within Minnesota.

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern										Central									
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDC12		FDC23		FDC24		FDC25		FDC34	
Tree Species	NPC Growth Stage	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)
Quaking aspen	Suitability -->	4		-		4		4		3		-		2		2		3		3	
	Young	<4%*	<28%*	<8%*	<61%*	24%	74%	40%	79%	60%	76%	4%	61%	1%	81%	4%	87%	<28%*	<77%*	<31%*	<71%*
	T1	-		v		v v		v v		v v		v		^		v		v v		v v	
	Mature	<4%*	<22%*	<7%*	<48%*	7%	43%	9%	48%	12%	52%	3%	40%	2%	81%	3%	81%	<6%*	<68%*	<5%*	<29%*
	T2	-		v		x	x	v		v		x	x	^		^		^		^	
* Includes big-toothed aspen	Old	<4%*	0%*	<4%*	<29%*	x	x	7%	37%	5%	23%	x	x	3%	0%	6%	76%	<8%*	-	<7%*	0%*
Big-toothed aspen	Suitability -->	-		5		-		7		-		-		-		-		5		8	
	Young	<4%*	<28%*	<8%*	<61%*			n/a	n/a									<28%*	<77%*	<31%*	<71%*
	T1	-		v				n/a	n/a									v v		v v	
	Mature	<4%*	<22%*	<7%*	<48%*			n/a	n/a									<6%*	<68%*	<5%*	<29%*
	T2	-		v				n/a	n/a									^		^	
* Includes quaking aspen	Old	<4%*	0%*	<4%*	<29%*			n/a	n/a									<8%*	-	<7%*	0%*
Balsam poplar	Suitability -->																				

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern										Central									
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
	Young									-	4%										
	T1									-											
	Mature									-	2%										
	T2									-											
	* includes quaking aspen									-	2%										
	Old									-	2%										
	Suitability -->																				
Paper birch				4		6		2		1				3		4		7		5	
	Young	3%	6%	7%	10%	19%	8%	16%	5%	15%	5%	1%	3%	1%	5%	1%	2%	2%	9%	6%	10%
	T1	^		-		v		^		^ ^		v								v	
	Mature	6%	15%	7%	21%	17%	16%	19%	26%	31%	20%	-	0%	-	1%	1%	3%	1%	13%	4%	7%
	T2	^		v		x	x	v		v v		x	x							^	
	Old	9%	0%	4%	18%	x	x	14%	18%	18%	18%	x	x	2%	0%	2%	1%	1%	43%	6%	0%
	Suitability -->																				
Yellow birch																					
	Young																				
	T1																				
	Mature																				
	T2																				
	Old																				

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern								Central											
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
Black ash	Suitability -->																				
	Young																				
	T1																				
	Mature																				
	T2																				
* Includes green ash	Old																				
Green ash	Suitability -->																				
	Young																				
	T1																				
	Mature																				
	T2																				
* Includes black ash	Old																				
Silver maple	Suitability -->																				
	Young																				
	T1																				
	Mature																				

Ecological System		Fire Dependent Forests & Woodlands																				
Floristic Region		Northern										Central										
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34		
Tree Species		Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	
Basswood	Suitability -->																				10	
	Young															0%	1%				n/a	n/a
	T1																				n/a	n/a
	Mature															0%	0%				n/a	n/a
	T2																				n/a	n/a
	Old															0%	3%				n/a	n/a
Sugar maple	Suitability -->																					
	Young																					
	T1																					
	Mature																					
	T2																					
	Old																					
* includes red maple	Old																					
Red maple	Suitability -->		6					8	8										8		6	

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern										Central									
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
	Young			1%	9%			-	4%	-	3%	-	1%			-	2%	1%	6%	1%	8%
	T1			~						^		~									
	Mature			1%	5%			1%	9%	1%	4%	0%	10%			0%	3%	-	8%	1%	8%
	T2			~						v		x	x								
	* includes sugar maple			1%	1%			2%	0%	-	1%	x	x			0%	0%	0%	43%	1%	0%
Northern red oak	Suitability -->			7				11						6		6		4		4	
	Young	-	1%	n/a	n/a			n/a	n/a			-	4%	n/a	n/a	n/a	n/a	n/a	n/a	7%	2%
	T1	-		n/a	n/a			n/a	n/a			~		n/a	n/a	n/a	n/a	n/a	n/a	v	
	Mature	1%	5%	n/a	n/a			n/a	n/a			-	0%	n/a	n/a	n/a	n/a	n/a	n/a	3%	12%
	T2	-		n/a	n/a			n/a	n/a			x	x	n/a	n/a	n/a	n/a	n/a	n/a	^	
	Old	1%	0%	n/a	n/a			n/a	n/a			x	x	n/a	n/a	n/a	n/a	n/a	n/a	4%	0%
Northern pin oak	Suitability -->																	2			
	Young																	14%	-		

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern										Central									
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
Stage																					
White pine	Suitability -->	3		5		3		2										2			
	Young	3%	0%	3%	0%	5%	-	-	0%	2%	0%	1%	0%	-	0%	1%	0%			14%	0%
	T1	^		^		^		^ ^		^ ^		^		^		^				^	
	Mature	5%	3%	11%	2%	10%	2%	19%	1%	24%	1%	4%	0%	1%	0%	2%	0%			22%	2%
	T2	^ ^		^		x	x	^ ^		^		x	x	^ ^		^ ^				^ ^	
	Old	15%	0%	7%	13%	x	x	30%	19%	28%	3%	x	x	7%	0%	24%	0%			54%	0%
Red pine	Suitability -->	2		1		3		1		4		2		4		3		6		1	
	Young	16%	5%	11%	3%	3%	-	17%	1%	3%	0%	5%	5%	4%	2%	4%	1%	1%	0%	25%	0%
	T1	^ ^		^ ^		^		^		^		^ ^		^ ^		v		~		^ ^	
	Mature	50%	4%	35%	3%	5%	-	27%	1%	9%	1%	37%	0%	33%	4%	3%	1%	1%	1%	50%	10%
	T2	v v		v		x	x	v v		v		x	x	v v		^		~		v v	
	Old	24%	0%	27%	4%	x	x	16%	1%	5%	1%	x	x	20%	0%	6%	5%	1%	14%	15%	0%
Jack pine	Suitability -->	1		2		1		6		10		1		1		1		1		9	
	Young	71%	36%	66%	3%	40%	1%	15%	-	19%	0%	88%	0%	91%	5%	88%	1%	15%	-	11%	1%
	T1	v v		v v		v v		v		v v		v v		v v		v v		v		v	

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern										Central									
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
	Mature	22%	16%	21%	1%	10%	0%	7%	-	3%	0%	47%	0%	60%	3%	58%	7%	4%	1%	9%	1%
	T2	-		^		x	x	v		-		x	x	v		v		^^		v	v
	Old	22%	0%	25%	0%	x	x	2%	-	3%	0%	x	x	56%	0%	51%	3%	41%	-	1%	0%
Black spruce	Suitability -->					2		9		9											
	Young					<1%*	<1%*	n/a	n/a	0%	0%										
	T1					^^		n/a	n/a	-											
	Mature					<31%*	<10%*	n/a	n/a	0%	1%										
	T2					x	x	n/a	n/a	-											
*black or white spruce	Old					x	x	n/a	n/a	0%	6%										
White spruce	Suitability -->	3						10		7											
	Young		4%	1%	1%	<1%*	<1%*	-	1%	-	1%									1%	0%
	T1	^^		^		^^		^		^										^	
	Mature	7%	4%	13%	4%	<31%*	<10%*	5%	1%	4%	2%									3%	1%
	T2	^^		^^		x	x	^		^^										-	
*Includes black spruce	Old	14%	0%	23%	3%	x	x	13%	1%	28%	2%									3%	0%
Tree Species	NPC Growth Stage	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)

Ecological System		Fire Dependent Forests & Woodlands																			
Floristic Region		Northern									Central										
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34	
Balsam fir	Suitability -->	5		-		7		5		6		-		-		-		-		-	
	Young	1%	16%	2%	9%	6%	15%	1%	7%	1%	7%	-	8%	-	-	-	1%	-	-	-	-
	T1	-	-	^	-	^	-	^	-	^	-	^	-	-	-	-	-	-	-	-	-
	Mature	1%	19%	3%	13%	13%	27%	4%	11%	10%	13%	4%	30%	-	-	-	2%	-	-	-	-
	T2	^	-	^	-	x	x	^	-	^	-	x	x	-	-	-	-	-	-	-	-
	Old	3%	0%	4%	26%	x	x	5%	15%	13%	25%	x	x	-	-	0%	3%	-	-	-	-
Black spruce	Suitability -->					2		9		9											
	Young					<1%*	<1%*	n/a	n/a	0%	0%										
	T1					^	^	n/a	n/a	-	-										
	Mature					<31%*	<10%*	n/a	n/a	0%	1%										
	T2					x	x	n/a	n/a	-	-										
*black or white spruce	Old					x	x	n/a	n/a	0%	6%										
Tamarack	Suitability -->																				
	Young																				
	T1																				
	Mature																				

Ecological System		Fire Dependent Forests & Woodlands																				
Floristic Region		Northern							Central													
Native Plant Community Class		FDn12		FDn22		FDn32		FDn33		FDn43		FDc12		FDc23		FDc24		FDc25		FDc34		
	T2																					
	Old																					
White cedar	Suitability -->			-				-		5												
	Young			-	0%			-	0%	-	0%											
	T1			^				^		^												
	Mature			1%	1%			2%	1%	3%	0%											
	T2			~				^		v												
	Old			1%	4%			2%	8%	-	14%											
Black spruce	Suitability -->					2		9		9												
	Young					<1%*	<1%*	n/a	n/a	0%	0%											
	T1					^ ^		n/a	n/a	~												
	Mature					<31%*	<10%*	n/a	n/a	0%	1%											
	T2					x	x	n/a	n/a	~												
*black or white spruce	Old					x	x	n/a	n/a	0%	6%											

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Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
Tree Species	NPC Growth Stage	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)
Quaking aspen	Suitability -->	5		1		6		3		-		3		4		9	
	Young	20%	22%	86%	78%	2%	19%	83%	44%	8%	8%	<76%*	<50%*	<10%*	<18%*	11%	39%
	T1	v v		v v				v v		v		v v		v		v	
	Mature	6%	4%	24%	40%	-	7%	29%	5%	3%	4%	<22%*	<19%*	<1%*	<3%*	6%	18%
	T2	v		^				x	x	v		^		x	x	v	
* Includes big-toothed aspen	Old	4%	0%	28%	43%	0%	0%	x	x	-	0%	<26%*	<1%*	x	x	5%	0%
Big-toothed aspen	Suitability -->	7						15				7		10			
	Young	n/a	n/a					n/a	n/a			<76%*	<50%*	<10%*	<18%*		
	T1	n/a	n/a					n/a	n/a			v v		v			
	Mature	n/a	n/a					n/a	n/a			<22%*	<19%*	<1%*	<3%*		
	T2	n/a	n/a					x	x			^		x	x		
Includes quaking aspen	Old	n/a	n/a					x	x			<26%	<1%*	x	x		
Balsam poplar	Suitability -->			8				11									
	Young			1%	6%			n/a	n/a								

Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
	T1							n/a	n/a								
	Mature			-	3%			n/a	n/a								
	T2							x	x								
	* includes quaking aspen Old			1%	2%			x	x								
Paper birch	Suitability -->	4		3		3		9		4		2		8		10	
	Young	38%	9%	5%	3%	13%	21%	5%	2%	21%	3%	13%	4%	5%	4%	11%	5%
	T1	v v		^		v		^		v		^^		v		v	
	Mature	28%	7%	18%	14%	6%	14%	9%	2%	13%	5%	40%	11%	2%	4%	10%	6%
	T2	v v		v		v		x	x	v		v v		x	x	v v	
	Old	12%	0%	12%	14%	-	12%	x	x	5%	11%	20%	2%	x	x	2%	0%
Yellow birch	Suitability -->	9				2		13		3							
	Young	n/a	n/a			22%	0%	n/a	n/a	-	0%						
	T1	n/a	n/a			v		n/a	n/a	^^							
	Mature	n/a	n/a			11%	1%	n/a	n/a	15%	1%						
	T2	n/a	n/a			^		x	x	v							
	Old	n/a	n/a			15%	0%	x	x	9%	0%						
Black ash	Suitability -->			6		-		1		9		-		14		2	
	Young			1%	2%	-	1%	2%	4%	<1%*	<6%*	-	0%	<3%*	<4%*	9%	1%

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Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
	T1							^								~	
	Mature			1%	2%	1%	1%	4%	5%	<1%*	<3%*	1%	1%	<3%*	<3%*	9%	2%
	T2							x	x					x	x	v	
* Includes green ash	Old			-	5%	0%	12%	x	x	<2%*	<0%*	0%	3%	x	x	3%	0%
Green ash	Suitability -->			14				7		10		13		7		8	
	Young			n/a	n/a			0%	2%	<1%*	<6%*	n/a	n/a	<3%*	<4%*	n/a	n/a
	T1			n/a	n/a							n/a	n/a			n/a	n/a
	Mature			n/a	n/a			0%	3%	<1%*	<3%*	n/a	n/a	<3%*	<3%*	n/a	n/a
	T2			n/a	n/a			x	x			n/a	n/a	x	x	n/a	n/a
* Includes black ash	Old			n/a	n/a			x	x	<2%*	<0%*	n/a	n/a	x	x	n/a	n/a
Silver maple	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
	Old																
Basswood	Suitability -->	2		9		5		2		2		5		3		1	

Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
	Young	6%	9%	n/a	n/a	2%	4%	2%	9%	13%	20%	1%	6%	14%	10%	24%	11%
	T1	^		n/a	n/a			^		v				^		v	
	Mature	9%	19%	n/a	n/a	2%	6%	8%	31%	9%	26%	3%	10%	18%	20%	21%	12%
	T2	v		n/a	n/a			x	x	v				x	x	^	
	Old	6%	0%	n/a	n/a	1%	0%	x	x	5%	47%	3%	14%	x	x	25%	0%
Sugar maple	Suitability -->	1		13		1		5		1		8		2		3	
	Young	11%	24%	n/a	n/a	<33%*	<20%*	0%	10%	38%	35%	0%	13%	4%	30%	10%	8%
	T1	^		n/a	n/a	v v				v				^^		^	
	Mature	14%	32%	n/a	n/a	<12%*	<39%*	0%	21%	35%	32%	0%	14%	36%	33%	15%	21%
	T2	^^		n/a	n/a	v		x	x	^				x	x	v	
* includes red maple	Old	29%	50%	n/a	n/a	<11%*	<38%*	x	x	43%	11%	0%	17%	x	x	12%	0%
Red maple	Suitability -->	6		4		8		4		8		4		6		6	
	Young	-	9%	1%	3%	<33%*	<20%*	1%	13%	0%	4%	1%	12%	0%	3%	-	6%
	T1					v v						^					
	Mature	-	4%	1%	2%	<12%*	<39%*	1%	5%	-	3%	5%	11%	-	3%	-	4%
	T2					v		x	x			v		x	x		
* includes sugar maple	Old	0%	0%	1%	0%	<11%*	<38%*	x	x	0%	0%	2%	4%	x	x	0%	0%
Northern red oak	Suitability -->	3		11				10		5		1		1		5	

Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
	Young	10%	6%	n/a	n/a			-	1%	2%	3%	4%	5%	50%	8%	3%	8%
	T1	v		n/a	n/a							^		v v			
	Mature	5%	11%	n/a	n/a			3%	7%	2%	7%	12%	22%	9%	14%	2%	18%
	T2	v		n/a	n/a			x	x			v		x	x		
	Old	1%	0%	n/a	n/a			x	x	0%	0%	11%	29%	x	x	1%	0%
Northern pin oak	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
	Old																
Bur oak	Suitability -->	10		12				6				6		5		4	
	Young	1%	1%	n/a	n/a			1%	4%	-	1%	-	1%	-	1%	17%	8%
	T1			n/a	n/a							^		^		^	
	Mature	2%	3%	n/a	n/a			3%	7%	1%	2%	5%	3%	5%	5%	19%	5%
	T2			n/a	n/a			x	x			v		x	x	^	
	Old	0%	50%	n/a	n/a			x	x	0%	10%	4%	5%	x	x	20%	0%

Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
White oak	Suitability -->											9		12			
	Young											0%	0%	n/a	n/a		
	T1													n/a	n/a		
	Mature											0%	1%	n/a	n/a		
	T2													x	x		
	Old											0%	9%	x	x		
White pine	Suitability -->			7		9						10		9		7	
	Young	1%	0%	-	0%	n/a	n/a	-	0%	1%	0%	-	0%	1%	0%	6%	0%
	T1	^		^		n/a	n/a	^		^		^		^		v	
	Mature	7%	1%	1%	4%	n/a	n/a	6%	1%	6%	0%	2%	0%	3%	0%	5%	0%
	T2	^^		^		n/a	n/a	x	x	^^		^		x	x	^^	
	Old	31%	0%	4%	2%	n/a	n/a	x	x	32%	0%	10%	0%	x	x	20%	0%
Red pine	Suitability -->											11					
	Young											n/a	n/a				
	T1											n/a	n/a				
	Mature											n/a	n/a				
	T2											n/a	n/a				
	Old											n/a	n/a				

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Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
Jack pine	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
Black spruce	Suitability -->																
	Young					<6%*	<3%*										
	T1					^^											
	Mature					<37%*	<5%*										
	T2					^^											
black or white spruce	Old					<54%	<12%*										
White spruce	Suitability -->			5		7		14									
	Young	1%	1%	1%	0%	<6%*	<3%*	-	1%	1%	3%	-	1%				
	T1	^^		^^		^^		^^		^		^					
	Mature	13%	0%	34%	1%	<37%*	<5%*	21%	1%	3%	0%	2%	0%				
	T2	v		v		^^		x	x	v		^					

Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHc26		MHc36		MHc47	
Includes black spruce	Old	-	0%	33%	0%	<54%	<12%*	x	x	-	0%	12%	0%				
Balsam fir	Suitability -->	11		2		10		12		-							
	Young	5%	4%	3%	5%	11%	29%	1%	2%	5%	1%						
	T1	v		^		v				~							
	Mature	3%	2%	10%	17%	4%	17%	4%	3%	5%	2%						
	T2	v		~		v		x	x	v							
	Old	1%	0%	10%	16%	2%	0%	x	x	2%	21%						
Black spruce	Suitability -->					-											
	Young					<6%*	<3%*										
	T1					^^											
	Mature					<37%*	<5%*										
	T2					^^											
black or white spruce	Old					<54%	<12%*										
Tamarack	Suitability -->																
	Young																
	T1																
	Mature																
	T2																

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Ecological System		Mesic Hardwood Forests															
Floristic Region		Northern										Central					
Native Plant Community Class		MHn35		MHn44		MHn45		MHn46		MHn47		MHC26		MHC36		MHC47	
	Old																
White cedar	Suitability -->			10		4		8		7							
	Young			-	0%	6%	0%	n/a	n/a	n/a	n/a						
	T1					^^		n/a	n/a	n/a	n/a						
	Mature			1%	4%	25%	5%	n/a	n/a	n/a	n/a						
	T2					v v		x	x	n/a	n/a						
	Old			1%	18%	8%	25%	x	x	n/a	n/a						
Black spruce	Suitability -->					-											
	Young					<6%*	<3%*										
	T1					^^											
	Mature					<37%*	<5%*										
	T2					^^											
black or white spruce	Old					<54%	<12%*										

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
Tree Species	NPC Growth Stage	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)
Quaking aspen	Suitability -->	-		-		10		3		-	
	Young	9%	11%	6%	10%	0%*	<9%*	3%	8%	2%	6%
	T1	v		v				v			
	Mature	2%	1%	1%	0%	0%*	<4%*	1%	4%	1%	4%
	T2	x	x	x	x			^			
* Includes big-toothed aspen	Old	x	x	x	x	0%*	<3%*	2%	0%	-	3%
Big-toothed aspen	Suitability -->										
	Young										
	T1										
	Mature										
	T2										
*Includes quaking aspen	Old										
Balsam poplar	Suitability -->	-		-		-		6		-	
	Young	0%	7%			0%*	<9%*	1%	10%	1%	8%
	T1										
	Mature	-	2%			0%*	<4%*	-	4%	-	4%
	T2	x	x								

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
* includes quaking aspen	Old	x	x			0%*	<3%*	0%	3%	0%	1%
Paper birch	Suitability -->					5		7		7	
	Young					8%	7%	6%	5%	4%	4%
	T1					~		v		v	
	Mature					8%	5%	4%	4%	3%	5%
	T2					v		v		~	
	Old					5%	6%	3%	8%	3%	4%
Yellow birch	Suitability -->					3		2		3	
	Young					n/a	n/a	6%	0%	n/a	n/a
	T1					n/a	n/a	v		n/a	n/a
	Mature					n/a	n/a	5%	1%	n/a	n/a
	T2					n/a	n/a	v		n/a	n/a
	Old					n/a	n/a	-	1%	n/a	n/a
Black ash	Suitability -->	2		3		2		1		1	
	Young	<18%*	<52%*	<37%*	<68%*	7%	45%	53%	47%	72%	55%
	T1	^^		^^		v		~		v	
	Mature	<27%*	<52%*	<44%*	<73%*	4%	20%	53%	48%	71%	56%

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	T2	x	x	x	x	v		v		vv	
* Includes green ash	Old	x	x	x	x	3%	12%	40%	48%	56%	36%
Green ash	Suitability -->	6		2				9		9	
	Young	<18%*	<52%*	<37%*	<68%*			n/a	n/a	n/a	n/a
	T1	v v		^^				n/a	n/a	n/a	n/a
	Mature	<27%*	<52%*	<44%*	<44%*			n/a	n/a	n/a	n/a
	T2	x	x	x	x			n/a	n/a	n/a	n/a
* Includes black ash	Old	x	x	x	x			n/a	n/a	n/a	n/a
Silver maple	Suitability -->	1		1							
	Young	2%	3%	10%	5%						
	T1			v							
	Mature	1%	3%	2%	9%						
	T2	x	x	x	x						
	Old	x	x	x	x						
Basswood	Suitability -->	3		-				12			
	Young	13%	1%	12%	0%			1%	1%		
	T1	v		v							
	Mature	8%	2%	6%	0%			-	2%		
	T2	x	x	x	x						

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	Old	x	x	x	x			0%	5%		
Sugar maple	Suitability -->										
	Young										
	T1										
	Mature										
	T2										
* includes red maple	Old										
Red maple	Suitability -->							4		4	
	Young							n/a	n/a	n/a	n/a
	T1							n/a	n/a	n/a	n/a
	Mature							n/a	n/a	n/a	n/a
	T2							n/a	n/a	n/a	n/a
* includes sugar maple	Old							n/a	n/a	n/a	n/a
Northern red oak	Suitability -->										
	Young										
	T1										
	Mature										

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	T2										
	Old										
Northern pin oak	Suitability -->										
	Young										
	T1										
	Mature										
	T2										
	Old										
Bur oak	Suitability -->	5		6				15			
	Young	19%	2%	11%	5%			n/a	n/a		
	T1	v		v				n/a	n/a		
	Mature	10%	2%	3%	5%			n/a	n/a		
	T2	x	x	x	x			n/a	n/a		
	Old	x	x	x	x			n/a	n/a		
White oak	Suitability -->										
	Young										
	T1										
	Mature										
	T2										

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	Old										
White pine	Suitability -->					7		11			
	Young					n/a	n/a	n/a	n/a		
	T1					n/a	n/a	n/a	n/a		
	Mature					n/a	n/a	n/a	n/a		
	T2					n/a	n/a	n/a	n/a		
	Old					n/a	n/a	n/a	n/a		
Jack pine	Suitability -->										
	Young										
	T1										
	Mature										
	T2										
	Old										
Black spruce	Suitability -->					6		13			
	Young					<3%*	<2%*	n/a	n/a		
	T1							n/a	n/a		
	Mature					<7%*	<4%*	n/a	n/a		

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	T2							n/a	n/a		
black or white spruce	Old					<23%	<2%*	n/a	n/a		
White spruce	Suitability -->					9		14			
	Young				0%	<3%*	<2%*	2%	1%	1%	1%
	T1										
	Mature	6%		6%	0%	<7%*	<4%*	9%	1%	5%	1%
	T2	x	x	x	x			^^		^^	
Includes Black Spruce	Old	x	x	x	x	<23%	<2%*	15%	0%	13%	1%
Balsam fir	Suitability -->					4		10		5	
	Young	2%	5%			52%	24%	8%	16%	6%	16%
	T1					v v		v		v	
	Mature		8%			7%	17%	2%	11%	1%	12%
	T2	x	x			^^		^		^	
	Old	x	x			21%	18%	7%	7%	2%	16%
Black spruce	Suitability -->					6		13			
	Young					<3%*	<2%*	n/a	n/a		
	T1							n/a	n/a		
	Mature					<7%*	<4%*	n/a	n/a		

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	T2							n/a	n/a		
black or white spruce	Old					<23%	<2%*	n/a	n/a		
Tamarack	Suitability -->					11		-		6	
	Young					2%	0%	2%	0%	1%	0%
	T1					v		^		^	
	Mature					1%	2%	6%	1%	2%	0%
	T2					^^		^		^^	
	Old					11%	0%	18%	0%	12%	0%
White cedar	Suitability -->					1		5		2	
	Young	1%	3%			18%	11%	3%	1%	1%	1%
	T1					^^		^		^	
	Mature	0%	12%			67%	46%	9%	13%	8%	7%
	T2	x	x			v v		v		v	
	Old	x	x			26%	55%	4%	26%	4%	31%
Black spruce	Suitability -->					6		13			
	Young					<3%*	<2%*	n/a	n/a		
	T1							n/a	n/a		

Ecological System		Floodplain Forests				Wet Forests					
Floristic Region		Northern				Northern					
Native Plant Community Class		FFn57		FFn67		WFn53		WFn55		WFn64	
	Mature					<7%*	<4%*	n/a	n/a		
	T2							n/a	n/a		
black or white spruce	Old					<23%	<2%*	n/a	n/a		

Ecological System		Rich Forested Peatland												Acid Peatland			
Floristic Region		Northern												Northern			
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
Tree Species	NPC Growth Stage	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)	Historic (PLS)	Modern (FIA)
Quaking aspen	Suitability -->	4															
	Young	n/a	n/a														
	T1	n/a	n/a														
	Mature	n/a	n/a														
	T2	x	x														
* Includes big-toothed aspen	Old	x	x														
Big-toothed aspen	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
*Includes quaking aspen	Old																
Balsam poplar	Suitability -->																
	Young																

Ecological System		Rich Forested Peatland										Acid Peatland					
Floristic Region		Northern										Northern					
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	T1																
	Mature																
	T2																
* includes quaking aspen	Old																
Paper birch	Suitability -->	3		5				3									
	Young	4%	3%	5%	3%			3%	2%								
	T1	v															
	Mature	3%	2%	2%	3%			2%	5%								
	T2	x	x					x	x								
	Old	x	x	1%	4%			x	x								
Yellow birch	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
	Old																
Black ash	Suitability -->																
	Young																
	T1																

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Ecological System		Rich Forested Peatland										Acid Peatland					
Floristic Region		Northern										Northern					
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	Mature																
	T2																
* Includes green ash	Old																
Green ash	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
* Includes black ash	Old																
Silver maple	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
	Old																
Basswood	Suitability -->																
	Young																

Ecological System		Rich Forested Peatland										Acid Peatland				
Floristic Region		Northern										Northern				
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81
	T1															
	Mature															
	T2															
	Old															
Sugar maple	Suitability -->															
	Young															
	T1															
	Mature															
	T2															
* includes red maple	Old															
Red maple	Suitability -->															
	Young															
	T1															
	Mature															
	T2															
* includes sugar maple	Old															
Northern red oak	Suitability -->															
	Young															
	T1															

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Ecological System		Rich Forested Peatland										Acid Peatland				
Floristic Region		Northern										Northern				
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81
	Mature															
	T2															
	Old															
Northern pin oak	Suitability -->															
	Young															
	T1															
	Mature															
	T2															
	Old															
Bur oak	Suitability -->															
	Young															
	T1															
	Mature															
	T2															
	Old															
White oak	Suitability -->															
	Young															

Ecological System		Rich Forested Peatland										Acid Peatland					
Floristic Region		Northern										Northern					
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	T1																
	Mature																
	T2																
	Old																
White pine	Suitability -->	7						-									
	Young	n/a	n/a					3%	-								
	T1	n/a	n/a														
	Mature	n/a	n/a					-	-								
	T2	x	x					x	x								
	Old	x	x					x	x								
Red pine	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
	Old																
Jack pine	Suitability -->																
	Young	5%	1%													5%	-
	T1	v														v	

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Ecological System		Rich Forested Peatland												Acid Peatland			
Floristic Region		Northern												Northern			
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	Mature	3%	0%											3%	-		
	T2	x	x											x	x		
	Old	x	x											x	x		
Black spruce	Suitability -->	1		2		1		2		2		2		1		1	
	Young	28%	78%	6%	59%	14%	47%	6%	71%	10%	58%	12%	56%	28%	71%	21%	59%
	T1	^^		^		^^		v		^^		^^		^^		^^	
	Mature	51%	81%	11%	52%	26%	66%	5%	47%	24%	60%	20%	38%	51%	83%	27%	66%
	T2	x	x	^		x	x	x	x	x	x	x	x	x	x	x	x
*black or white spruce	Old	x	x	15%	31%	x	x	x	x	x	x	x	x	x	x	x	x
White spruce	Suitability -->																
	Young																
	T1																
	Mature																
	T2																
*Includes black spruce	Old																
Balsam fir	Suitability -->	5		3		-		-						-		-	
	Young	2%	8%	30%	17%	1%	6%	2%	2%					2%	3%	-	5%

Ecological System		Rich Forested Peatland											Acid Peatland				
Floristic Region		Northern											Northern				
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	T1			v v										^			
	Mature	3%	8%	7%	20%	1%	4%	1%	4%					3%	3%	1%	3%
	T2	x	x	^		x	x	x	x					x	x	x	x
	Old	x	x	12%	39%	x	x	x	x					x	x	x	x
Black spruce	Suitability -->	1		2		1		2		2		2		1		1	
	Young	28%	78%	6%	59%	14%	47%	6%	71%	10%	58%	12%	56%	28%	71%	21%	59%
	T1	^^		^		^^		v		^^		^^		^^		^^	
	Mature	51%	81%	11%	52%	26%	66%	5%	47%	24%	60%	20%	38%	51%	83%	27%	66%
	T2	x	x	^		x	x	x	x	x	x	x	x	x	x	x	x
*black or white spruce	Old	x	x	15%	31%	x	x	x	x	x	x	x	x	x	x	x	x
Tamarack	Suitability -->	2		4		2		1		1		1		2		2	
	Young	55%	9%	25%	7%	82%	41%	84%	24%	87%	39%	80%	39%	54%	24%	77%	29%
	T1	v v		v		v v		^		v v		v v		v v		v v	v
	Mature	35%	8%	16%	7%	62%	19%	87%	44%	68%	33%	66%	57%	35%	12%	67%	24%
	T2	x	x	^^		x	x	x	x	x	x	x	x	x	x	x	x
	Old	x	x	34%	9%	x	x	x	x	x	x	x	x	x	x	x	x
White cedar	Suitability -->	6		1		3				-		3		-		-	
	Young	1%	1%	27%	12%	1%	4%			1%	1%	2%	2%	2%	0%	-	2%

Ecological System		Rich Forested Peatland												Acid Peatland			
Floristic Region		Northern												Northern			
Native Plant Community Class		FPn62		FPn63		FPn71		FPn72		FPn81		FPn82		APn80		APn81	
	T1	^		^^		^^				^		^		^		^	
	Mature	5%	0%	62%	18%	9%	10%			5%	5%	7%	3%	5%	0%	2%	3%
	T2	x	x	v v		x	x			x	x	x	x	x	x	x	x
	Old	x	x	37%	17%	x	x			x	x	x	x	x	x	x	x
Black spruce (Sx)	Suitability -->	1		2		1		2		2		2		1		1	
	Young	28%	78%	6%	59%	14%	47%	6%	71%	10%	58%	12%	56%	28%	71%	21%	59%
	T1	^^		^		^^		v		^^		^^		^^		^^	
	Mature	51%	81%	11%	52%	26%	66%	5%	47%	24%	60%	20%	38%	51%	83%	27%	66%
	T2	x	x	^		x	x	x	x	x	x	x	x	x	x	x	x
*black or white spruce	Old	x	x	15%	31%	x	x	x	x	x	x	x	x	x	x	x	x