

all species in the literature

A Description of the Forest Ecosystems
and
A Forest Management Plan
for
Minute Man National Historical Park

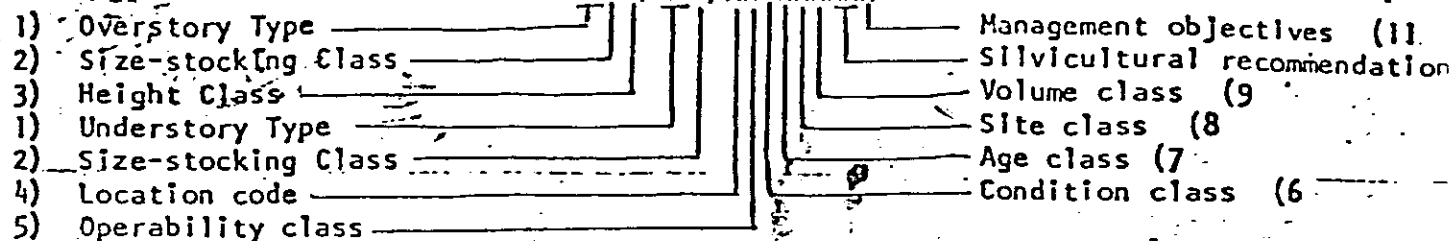
Ranger Michael C. Leonard
December 3, 1982

Silvical Characteristics Species	Tolerance (to shade)	Windfirmness	Principal Enemies	Sprouting Ability	Response to Release	Life Span (in years)	Average Size at Maturity (in ft.)
Northern Red Oak	Mid-tolerant	Very Windfirm	Gypsy Moth	Excellent	Excellent	200-300	70-90' high 2-3' DBH
White Oak	Mid-tolerant	Very Windfirm	Gypsy Moth	Excellent	Excellent	< 600	80-100' high 3-4' DBH
Black Oak	Mid-tolerant	Very Windfirm	Gypsy Moth	Excellent	Excellent	< 200	50-60' high 2-3' DBH
Signat Hickory	Mid-tolerant	Very Windfirm	Gypsy Moth	Excellent	Fair	200-300	50-80' high 1-2' DBH
Red Maple	Mid-tolerant	Subject to Windthrow	Gypsy Moth Decay Fungi	Excellent	Excellent	< 150	60-90' high 1.5-2.5' DBH
White Ash	Mid-tolerant	Windfirm	Forest Tent Caterpillar Oystershell scale	Excellent	Excellent	200-300	70-80' high 2-3' DBH
Black Cherry	Intolerant	Subject to Windthrow	Gypsy Moth Forest Tent Caterpillar	Excellent	Poor	150-200	50-60' high 2-3' DBH
Black Locust	Very Intolerant	Subject to wind- throw and wind breakage	Locust borer Locust leaf miner	Excellent (stump sprouts and root suckers)	Poor	< 60	40-80' high 1-2' DBH
Black Birch	Mid-tolerant - Intolerant	Subject to Windthrow	Gypsy Moth Fire	Good	Excellent	< 200	50-60' high 1-2' DBH
Yellow Birch	Mid-tolerant	Windfirm	Gypsy Moth Birch Dieback Bronze birch borer	Good	Good	< 300	60-70' high 2-2.5' DBH
Gray Birch	Very Intolerant	Subject to Windthrow	Gypsy Moth	Good	Poor	< 60	20-30' high < 1' DBH
American Beech	Very Tolerant	Windfirm	Beech Bark Disease Gypsy Moth Pill-borer	Prolific Root Suckers	Excellent	< 400	70-80' high 2-3' DBH
Sigtooth Aspen	Very Intolerant	Subject to Windthrow	Gypsy Moth Forest Tent Caterpillar	Excellent (stump sprouts and root suckers)	Poor	< 60	40-70' high 1-2' DBH
American Elm	Mid-tolerant	Windfirm	Dutch Elm Disease	Excellent	Excellent	< 300	40-80' high 2-6' DBH
Eastern White Pine	Mid-tolerant	Windfirm	White Pine Weevil White Pine Blister Rust Gypsy Moth	None	Fair - Good	< 450	80-100' high 2-4' DBH
Eastern Redcedar	Very Intolerant	Windfirm	Fire	None	Poor	< 300	40-50' high 1-2' DBH
Eastern Hemlock	Very Tolerant	Subject to Windthrow	Fire	None	Excellent	< 600	60-70' high 2-3' DBH
Pitch Pine	Intolerant	Windfirm	Pine sawfly	Good (stump sprouts)	Poor	< 200	50-60' high

APPENDIX B

QUICK REFERENCE GUIDE TO THE MASSACHUSETTS FOREST LAND CLASSIFICATION SYSTEM

XXXX/XXX/XXXXXXXXXX



1) TYPE		6) CONDITION CLASS
1. WP - White pine	47. BP - Beaver pond	0 non-stocked
2. WK - White pine, hemlock	48. OP - Open	1 high risk
3. WH - White pine, hardwoods	49. NV - no vegetation	2 sparse
4. WO - White pine, oak		3 low quality
5. RP - Red pine		4 mature
6. PP - Pitch pine	2) SIZE STOCKING:	5 immature
7. PO - Pitch pine, oak	A - High	6 all aged
8. HK - Hemlock	B - Medium	9 in process
9. HH - Hemlock, hardwoods	C - Low	
10. TK - Tamarack (larch)	Pole Small Large BA	7) AGE CLASS
11. CD - Cedar	3 1/2" D" K 10" R 10" BA	0 0-10
12. SN - Norway spruce	E L S 30-60	1 11-20
13. SR - Red spruce	F M T 60-90	2 21-30
14. SF - Spruce, fir	G N U 90-120	3 31-40
15. OR - Northern Red Oak	H O V 120-150	4 41-50
16. OH - Oak, hardwoods	I P W 150-180	5 51-60
17. OM - Mixed oak	J Q X 180+	6 61-70
18. BW - White birch	Z = non stocked	7 71-80
19. BM - Graybird red maple dry		8 81-90
20. BB - Beech, birch, maple	3) HEIGHT CLASS	9 91+
21. BE - Beech	1. 0-20	
22. BL - Black locust	2. 21-40	8) SITE CLASS
23. PC - Pin cherry	3. 41-60	A Excellent
24. BC - Blackcherry, hardwoods	4. 61-80	B Good
25. RM - Red maple hardwoods wet	5. 81-100	C Fair
26. SM - Sugar maple	6. 100+	D Poor
27. PA - poplar/aspens/willow	7. Uneven-sized	E <36
28. AO - abandoned orchards		F 36-45
29. JN - Juniper	4) LOCATION	G 46-55
30. LA - Laurel	R Ridge	H 56-65
31. RU - rubus spp.	S Steep slope	I 66-75
32. VA - Vaccinium	M Moderate slope	J 76-85
33. VI - Viburnum	F Flat	K 86-95
34. FN - Bracken fern	W Wet	L >95
35. CP - Sweet fern	D Difficult	
36. GF - Grasses & forbs	P Plantation	
37. AL - Alder		
38. BR - Upland brush	5) OPERABILITY CLASS	
39. DF - duff	1 cubic foot	
40. BF - Basins & flats	2 board foot	
41. BG - Bogs	3 both	
42. SS - Shrub swamp	4 operable	
43. MW - Meadow	5 inoperable	
44. MS - shallow marsh		
45. MD - deep marsh		
46. WA - open water		