

UNEVENAGE  
MANAGEMENT  
Of  
NORTHERN HARDWOODS

Bill Leak  
USDA Forest Service  
Northeastern Research Station





# QUALITY CHANGE

(percent)

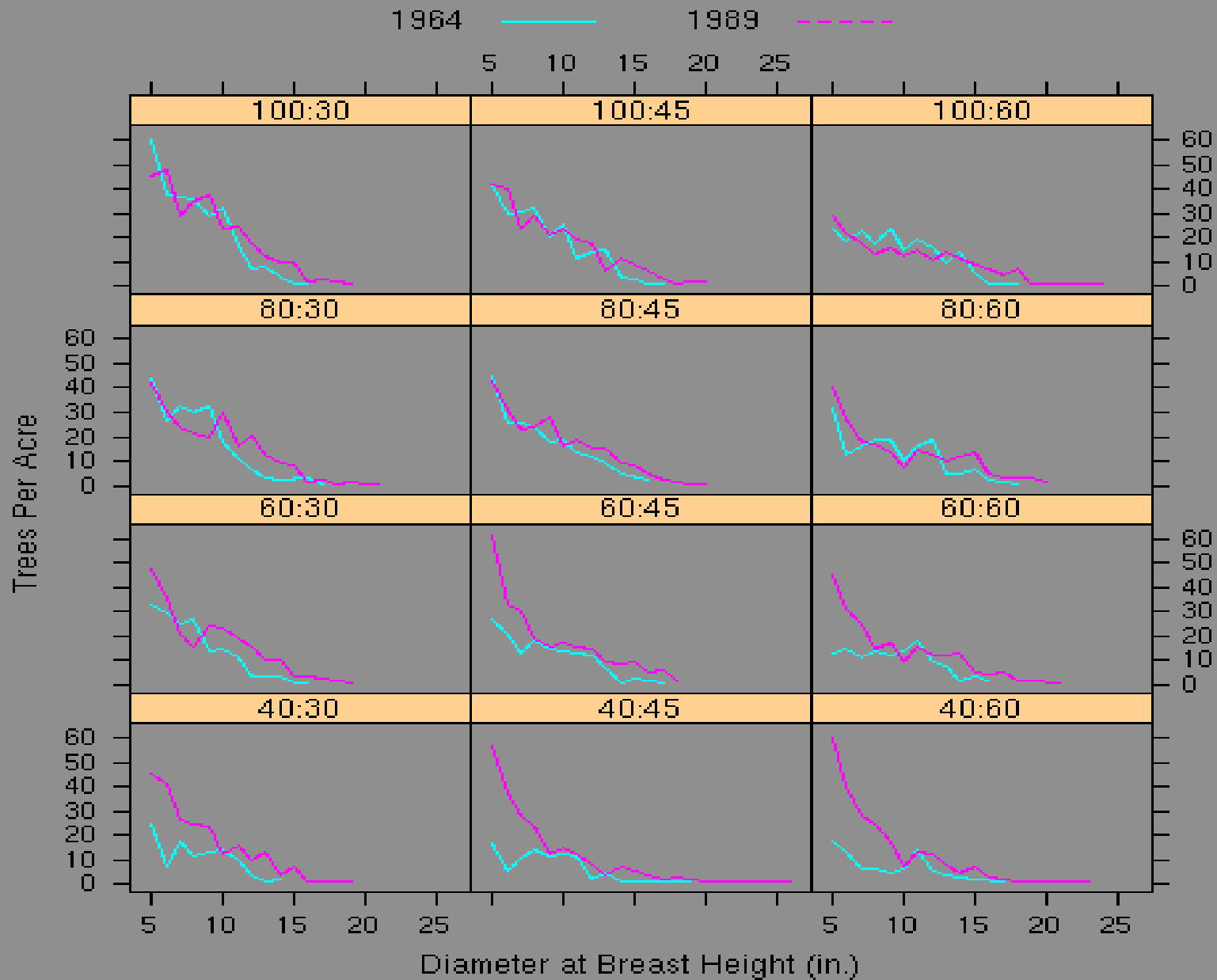
• GRADE	1952	1976	2000
• 1 & 2	29	42	45
• 3	50	31	40
• 5	14	26	11
• Cull	7	1	3

# Q: Relation to BA/Acre

	Q=1.7	Q=1.3
• Poles	38	21
• Saw	32	49
• All	70	70

# GROWTH/STOCKING

• Stand BA	Saw BA	Saw Growth
• 40	18	.43
• 60	27	<b><u>.76</u></b>
•	36	<b><u>.76</u></b>
• 80	24	<b><u>.64</u></b>
•	32	.49
•	45	.37
• 100	60	<b><u>.60</u></b>











# Saplings: Single-tree

(percent of stems)

• <u>Method</u>	Be	Yb	Sm	Rm	Hem
• Dia-Limit	33	-	6	-	61
• M. Sel.	56	2	5	2	35



















# Species Composition:45-year-old Patch – Poor Site

- Size Be Yb Sm Rm Pb Wa Rs Hem

- (Percent BA)

5.0+	26	17	3	15	34	2	2	1
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8.0+	9	19	3	27	39	3	-	-
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# SUMMARY

- 1. Individual-tree: mark the stand well, leaving trees with good potential, 60-80 square feet residual, with as little as 25-30 square feet sawtimber.
- 2. Regenerate the stand well, using group/patch selection if the tolerant species are not the desirable ones..