



Several natural and people-induced disturbances leave conditions that warrant rehabilitation treatments ...







































































15-year post-thinning diameter growth of sugar maple trees in different initial crown positions (B-level relative density)				
Crown position	15-year total (cm)	Annual (cm)		
Dominant	7.34	0.49		
Codominant	4.95	0.33		
Good growth after release		Nyland et al. 1993		

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	Crown position	15-year total (cm)	Annual (cm)		
	Dominant	7.34	0.49		
	Codominant	4.95	0.33		
Dimit	Intermédiaire	3.45	0.23		
cutting	Oppriné	1.75	0.12		
leaves these					







































Bohn (2005) assessed effects on spatial uniformity within uneven-aged stands ...

- ... single-tree selection system increased *spatial uniformity* of sawtimber at 1st cut, and poles at 2nd entry
- ... diameter-limit cutting increased *clumping* and *patchiness* of poles and saplings at 1st cut

... spatial distribution of residual sawtimber became *locally patchy* after d-limit cutting ... but random at the stand level













































Remember ...

... exploitive cutting reduces stand quality

Leaving ..

... less than the best

... but usable only *if* with some promise









































Try this				
protect the	e sapl	lings (< 15 c	em dbh)	
leave at least 12-13 m ² /ha				
with 2 3 5	0% 5% 0%	< 20 cm 20-29 cm ≥ 30cm		
plan for another cutting in 25 years				
or 5 years sooner or each additional 1 m²/ha of growing stock				





















... stored and blown-in seeds add species of low shade tolerance









So we also need ...

Option D: Areas of stands with limited promise

For ravaged places where ...

- ... too few acceptable trees
 - ... mostly poor residuals remain
 - ... ones of low vigor and produce little seed
 - ... too little volume for a timber sale

Objective ...

- ... remove the low-grade remnants
- ... create a new age class



Here you must ...

... clean off the larger dregs ... to open space for regeneration

... leave any suitable trees ... as a seed source ... to grow larger

... remove the interference ... to promote regeneration







































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