

Silvicultural Standards for Forest Stand Improvement (666)

1/ Forest Cover Type		Stand Conditions					
Existing	Desired	2/ Practice or Treatment	3/ Min Site Index	Max Age	Min. BA Removed	Pretreatment	Post Treatment
Upland Oaks 5/  Northern Hardwoods 6/	Upland Oak	Understory release	60		20 sq. ft.	8/ 400+ AGS stems (seedlings & saplings) per acre	
	Northern Hardwoods	Cull-tree removal	60	50 years or all age	20 sq. ft.	40+ sq. ft. BA in AGS	
		Pre- commercial thin	60	50 years	20 sq. ft.	Crop trees in 6" -10" class	
		Pre- commercial thin for species composition control	60			250+ AGS stems per acres saplings 20+ feet tall and 2" - 4" DBH	100+ crop trees released per acre
		PCT	60	All ages	20 sq. ft.	100+ sq. ft.	80+ sq. ft.
		Crop Tree Crown Release	60			30+ crop trees per acre (3"-12" in diameter) with less than 20 having 75 percent (3 sides) free to expand with nearest competing crown 10+ feet away 9/	30+ crop trees per acre have at least 75% (3 sides) free to expand with nearest competing crown 10+ feet away. 9/ Plus competing vines deadened.
		Grapevine Removal	60			40+ vines per acre and B level or > stocking 4/	

1/ Forest Cover Type		Stand Conditions					
Existing	Desired	2/ Practice or Treatment	3/ Min Site Index	Max Age	Min. BA Removed	Pretreatment	Post Treatment
Northern Pine	Red Pine	Pre- commercial thin	60	35 years	40 sq. ft.	150+ sq. ft. B.A./Acre or 1100 Stems/Acre	70 + sq. ft. B.A./Acre or 700 Stems/Acre 7/
		Understory release	60		20 sq. ft.	400 + AGS stems (seedlings & saplings) per acre with less than 200 "free-to-grow"	100 + crop trees per acre released
	White Pine	Pre- commercial thin	60	35 years	40 sq. ft.	150 sq. ft. B.A./Acre	95+ sq. ft. B.A./Acre or 400 Stems/Acre 7/
		Understory release	60		20 sq. ft.	400+ AGS stems (seedlings & saplings) per acre with less than 200 "free-to-grow"	100+ crop trees released per acre
Black Walnut	Black Walnut	All	60	See "Crop Tree Crown Release" on first page			
Spruce-fir <sup>10/</sup>	Spruce-fir <sup>10/</sup>	Pre- commercial thin	60			2000 + seedlings and saplings per acre which average 10' in height	No more than 800 Stems/Acre
					40 sq. ft. <sup>10/</sup>	160+ sq. ft.	90 sq. ft.

**Footnotes:**

1. For a description of Forest Cover Types see: [http://forestry.about.com/cs/treeid/a/all\\_type\\_us.htm](http://forestry.about.com/cs/treeid/a/all_type_us.htm)
2. For definitions see Glossary of Forestry Terms, <http://www.dnr.state.md.us/forests/gloss.html>
3. Site Index (height @ approx. 50 years) for species in desired forest type. See county Soil Survey table entitled "Forestland Productivity and Management".
4. See appropriate "Managers Handbook..." referenced below.
5. Upland Oaks (formerly Oak-Hickory), includes the following SAF cover type names and numbers: Bur Oak (42), White-Black-Northern Red Oak (52), and Black Oak (110). For more information see "Managers Handbook for Oaks in the North Central States", <http://216.48.37.142/pubs/viewpub.jsp?index=10102>
6. Northern Hardwoods includes the following SAF cover type names and numbers: Sugar Maple (27), Sugar Maple-Beech-Yellow Birch (25), Sugar Maple-Basswood (26), Black Cherry-Maple (28), Beech-Sugar Maple (60), and Red Maple (108). For more information see, "Managers Handbook for Northern Hardwoods in the North Central States", <http://216.48.37.142/pubs/viewpub.jsp?index=10104>
7. Basal Area of desired species.
8. Acceptable Growing Stock of trees to be featured in management. See the appropriate "Managers Handbook..." referenced above.
9. An exception may be made to the 10 + foot standard to allow the crown of one other crop tree to touch a crop tree crown.
10. Spruce-fir BA guidelines from WI DNR Silviculture Handbook, <http://dnr.wi.gov/org/land/forestry/Publications/Handbooks/24315/index.htm>