

NHLA Hardwood Lumber Grade

	FAS	F1F	SELECT	#1C	#2A & 2B	#3A COM	#3B COM	FAS LIMITS		
Minimum Size Board	6" x 8'	Same as FAS for species being graded	4" x 6'	3" x 4'	3" x 4'	3" x 4'	3" x 4'	Pith= SM in inches Wane= 1/2 Length	Wane in FAS 1 FACE FAS limitation applies to Better Face #1 Common side: 1/3 W or 1/2 L Widest wane added together; Length can be on both edges	
Minimum Size Cutting	4" x 5' 3" x 7'	Better Face to Grade FAS Poor Face to Grade #1 Common		4" x 2' 3" x 3'	3" x 2'	3" x 2'	Not less than 1-1/2" wide containing 36 sq. inches	Knot= 1/3 SM Warp= Entire board must be flat enough to S2S to S.S.T	Wane in Selects <u>Pcs. 6" & Wider</u> FAS limitations applies to Better Face. #1 Common side: 1/3 W or 1/2 L Widest wane added together. Length can be on both edges.	
Basic Yield	SM x 10 83-1/3%			SM x 8 66-2/3%	SM x 6 50%	SM x 4 33-1/3%	SM x 3 25%	Unlimited Sound Cuttings	Splits= Not to exceed 2 x SM or 12" whichever is greater	<u>Pcs. 4" & 5" Wide</u> 1/3 W or 1/2 L applies to both faces.
Formula to Determine Number of Cuts	$\frac{SM}{4}$ (4 max)			3-10' SM	2-7' SM				Splits shall not diverge 1" in 12"	Add widest wane together.
SM Needed to Take Extra Cutting	6-15' SM			SM x 9 75%	SM x 8 66-2/3%				First Lineal Rule: Applies to both ends of Board to contain not less than 50% clear wood, 25% sound wood.	Add total length of wane from both edges.
Extra Yield Needed for Extra Cutting	SM x 11 91-2/3%									
Special Yields	97% Rule - 2 cuts full widths any length; Pcs. 6" & wider with 6-12' SM SM x 11.64 for Yield			97% Rule - On Better Face	97% Rule - On Better Face 2' x 3' SM to be 100% clear or SM x 11 in one cutting	1' SM - 100% 2' SM - SM x 9	1' SM - SM x 8 #2A Com - Clear Cuttings #2B Com - Sound Cuttings	#2A Com on Better Face and reverse side of cuttings sound; will also qualify for 3A Com		

Color Sorting

In addition to sorting for grades or selecting specific widths, various species are commercially sold at an added value when colour is also considered. It is important to note, color in this explanation refers to sapwood and heartwood.

NUMBER 1 AND 2 WHITE

A color selection typically made on hard maple, but can be applied to any species where sapwood clear cuttings are desired, such as ash, birch, and soft maple.

Number 1 white: both faces and edges of the clear cuttings must be all sapwood.

Number 2 white: one face and both edges of the clear cuttings must be sapwood and not less than 50% sapwood on the reverse face.

SAP AND BETTER

Commercially sold when only one face of the board needs to be sapwood. Usually applied to the same species as Number 1 and 2 White, although just a little less stringent. In Sap and Better every board should have a minimum of one sapwood face in the clear cuttings.