WOOD PROPERTIES										
Species	Origin	Hardness	Strength	Weight (lb/bf)		Power Tools	Gluing	Finishing	Comments	
Species	Origin	Tial dilege	Strongth	(10/ 21)	Tidila 10015	FOWEI 10015	Clairing	Timsimig	Commence	
Domestic Hardwoods	'	1 '	1 '	1			'	1		
	Western North	1	1 '	1 '	'		'	1	Grain tears easily. Blends with walnut,	
Alder, Red	America	Very Soft	Weak	2.14	Difficult	Difficult	Good		cherry and mahogany when stained.	
Ash	North America	Hard	Strong	3.13	Very Easy	Easy	Excellent		Easy to bend. Resists shock loads.	
Aspen	North America	Very Soft	Very Weak	-	Very Easy	Easy	Good		Almost indistinguishable from Cottonwood.	
	Eastern North	<u>'</u>	,				† · · · · ·			
Basswood	America	Very Soft	Weak	1.93	Very Easy	Easy	Excellent	Excellent	Preferred by many woodcarvers.	
	Eastern North	'	,	<u> </u>			'		Easy to bend. Sometimes substituted for	
Beech	America	Hard	Strong	3.34	Easy	Easy	Excellent		hard maple.	
	1	'	,	<u> </u>			'			
	Eastern North	'	1	1 '	'	'	'	1	Easy to bend. Sometimes substituted for	
Birch, Yellow	America	Hard	Very Strong	3.23	Easy	Moderate	Good		hard maple. Prone to warping and twisting.	
	Northeastern North	<u>'</u>	,				 '			
Butternut	America	Very Soft	Weak	1.98	Very Easy	Very Easy	Excellent	Excellent	Sometimes referred to as white walnut.	
	Eastern North	<u>'</u>	<u> </u>	<u> </u>			 			
Cherry	America	Medium	Medium	2.61	Very Easy	Easy	Excellent	Excellent	Premium furniture wood.	
	† · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	,				'		Most living trees destroyed by fungus in early	
	Southeastern North	·	1	1 '	1	1	'	1	20th century. New lumber is salvaged from	
Chestnut, Wormy	America	Very Soft	Weak	2.24	Very Easy	Very Easy	Excellent	Excellent	dead trees.	
<u></u>	Eastern North	,				1	1		Fairly easy to bend. Has an outstanding	
Elm, Red	America	Soft	Medium	2.61	Difficult	Difficult	Adequate	Adequate	resistance to shock loads.	
	Southeastern North	 	, ·		-		1			
Gum, Red	America	Medium	Strong	2.71	Difficult	Easy	Excellent	Excellent	Also known as Sweet Gum.	
<u> </u>	Eastern North	,					1		Allow Miles	
Hickory	America	Very Hard	Very Strong	3.75	Very Difficult	Difficult	Excellent	Excellent	Fairly easy to bend.	
Thoroty	Southeastern North	1	10.7 7		vo. j =		1		One of the few evergreen dicots - doesn't	
Holly	America	Hard	Strong	2.61	Very Easy	Very Easy	Excellent		lose its leaves seasonally.	
Hony	Eastern North	1	7		v =	V 3. y = 1. 1.y			Premium furniture wood, curly figure and	
Maple, Hard	America	Hard	Very Strong	3.28	Difficult	Easy	Adequate		bird's-eye figure common. Easy to bend.	
Wapio, i.a. a	Eastern North	1	10.7 7	<u> </u>			71665-1		bild 5 6/6 figure 50	
Maple, Soft	America	Medium	Strong	2.81	Difficult	Easy	Good	Excellent	Utility furniture wood.	
	North America	Very Hard	Strong	3.28	Easy	Easy	Good		Sawdust is potential irritant.	
Car, rea	North Annouse	VOI 3	<u> </u>	J			1	EAGG	Similar to red oak in most respects, but has	
1	·	· ['	1 '	1	· [1	'	1	finer texture and darker color. Potential	
Oak, White	North America	Very Hard	Very Strong	3.54	Easy	Easy	Good	Good	irritant.	
Ouk, wille	North Amon.sa	VOI J	Voijonens	 0.0.					Resists decay. Source of yellow, tan, and	
Osage Orange	North America	Very Hard	Strong	4.01	Difficult	Moderate	Adequate	Good	khaki dyes. Potential irritant.	
Usage Grange	North / in co. i.e.	VCI y 1	J. J. J.		Dilliou	Moderate	Aucycaia	1	Although not considered a premium wood,	
	Eastern North	'	1 '	1 '	'	'	'		it's very versatile - not much it can't be used	
Poplar, Yellow	America	Soft	Medium	2.19	Very Easy	Very Easy	Excellent	Good	for.	
	Eastern North	3011	MCGIGITI	2.17	VCI y Lusy	VOI y Easy	LACCION	0000	101.	
Sassafras	America	Soft	Weak	2.40	Easy	Very Easy	Excellent	Good	Sawdust is potential irritant.	
3833811 83	Eastern North	3011	Weak	2.70	Lasy	Vory Lasy	LACCIICITE	3000	Sawdust is potential infitant.	
Sycamore	America	Soft	Medium	2.55	Difficult	Difficult	Excellent	Good	Curly figure also common.	
Sycamore	Afflerica	3011	Mediairi	2.00	Difficult	Dillicuit	EXCENSION	Guu	curry figure also common.	

WOOD PROPERTIES										
		1		Weight	I ROI ERII	l				
Species	Origin	Hardness	Strength	(lb/bf)	Hand Tools	Power Tools	Gluing	Finishing	Comments	
	Eastern North								Premium furniture wood. Fairly easy to	
Walnut	America	Medium	Strong	2.87	Very Easy	Very Easy	Good	Excellent	bend. Potential irritant.	
	Eastern North									
Willow	America	Very Soft	Very Weak	2.03	Very Easy	Very Easy	Good	Excellent	Sometimes stained to stimulate walnut.	
l										
Domestic Softwoods										
									Has strong but pleasant odor. Despite	
									folklore, no evidence that odor or wood oil	
Cedar, Aromatic Red	North America	Medium	Very Weak	2.45	Easy	Very Easy	Good	Good	repels insects.	
	Western North				_	_			Decay resistant, sawdust is a potential	
Cedar, Western Red	America	Very Soft	Very Weak	1.67	Very Easy	Very Easy	Excellent	Good	sensitizer.	
	Southeastern North					_				
Cypress	America	Soft	Medium	2.44	Easy	Very Easy	Excellent	Good	Decay resistant.	
	ļ								More veneer and plywood are made from this	
	Western North				_	_		~	species than any other. Sawdust is potential	
Fir, Douglas	America	Soft	Very Strong	2.50	Easy	Very Easy	Good	Difficult	irritant.	
l	Western North	2 0	<u> </u>		., -	,, _				
Hemlock	America	Soft	Strong	2.34	Very Easy	Very Easy	Excellent	Excellent	No relation to the poisonous herb.	
<u></u>	Western North	V C - ft	3441.	0.00	-	.,		0 - 1		
Pine, Ponderosa	America	Very Soft	Weak	2.08	Easy	Very Easy	Adequate	Good	Also known as Knotty Pine.	
Direct Common	Western North	Vami Caft	Mama Mank	1 00	Г	Vam. Faa.	- Circalland	Caad	N1-4 -0,1-1-	
Pine, Sugar	America	Very Soft	Very Weak	1.88	Easy	Very Easy	Excellent	Good	Not durable.	
	Marthagatarn North								Once the most commercially important	
Dia Fostorn White	Northeastern North	Von Coft	Maak	1 02	Von Focu	Vory Facy	Cood	Fysallont	timber type in America, but overuse has	
Pine, Eastern White	America Southern North	Very Soft	Weak	1.82	Very Easy	Very Easy	Good	Excellent	depleted supply.	
Dina Cautharn Vallaw	America	Medium	Very Strong	3.07	Facy	Facy	Good	^doquato	Suitable for been a construction	
Pine, Southern Yellow	Western North	Mediuiti	very strong	3.07	Easy	Easy	Guu	Adequate	Suitable for heavy construction.	
Dodwood	America	Vory Soft	Weak	1.82	Very Easy	Very Easy	Excellent	Good	Desists desay, holds nails and scrows noorly	
Redwood	Western North	Very Soft	VVEAN	1.02	very Lasy	very Lasy	EXCEILETT	Good	Resists decay, holds nails and screws poorly.	
Spruce, Sitka	America	Very Soft	Medium	2.08	Easy	Easy	Excellent	Excellent	Sawdust is a potential irritant.	
Зргисе, эпка	Afficia	Very Suit	Mediairi	2.00	Lasy	Lasy	EXCEILENT	EXCEILENT	Sawdust is a potential infitant.	
Imported Woods									!	
Imported woods	2 1 1 1 0 - 1								7. 2	
5 1	Central and South	Views Coff	\		V Feet	V	Tirrilland	D- an	The softest and lightest hardwood available	
Balsa	America	Very Soft	Very Weak	0.83	Very Easy	Very Easy	Excellent	Poor	commercially.	
Decata	Central and South	Ma dium	Ma di um	2 07	F-0.4	F201	^ -!:	Freellont		
Bocote	America	Medium	Medium	2.87	Easy	Easy	Adequate	Excellent	Cum poskets in the wood make alving	
									Gum pockets in the wood make gluing	
Distribute	Mact Africa	Vam: Hond	Ver Ctrong	2.70	F-0.4	Madarata	Dear	Freellont	difficult, may also cause pitch to build up on	
Bubinga	West Africa	Very Hard	Very Strong	3.70	Easy	Moderate	Poor	Excellent	cutters. <i>Endangered</i> .	
									Dulls cutting edges, may react with some oil-	
Casabala	Control Amorica	Vory Hard	Vary Strong	5.73	Difficult	Madarata	Door	Cood	based and lacquer finishes. Potential irritant.	
Cocobolo	Central America	very naru	Very Strong	5.13	Difficult	Moderate	Poor	Good	Endangered.	

WOOD PROPERTIES										
				Weight						
Species	Origin	Hardness	Strength	(lb/bf)	Hand Tools	Power Tools	Gluing	Finishing	Comments	
									Dulle sutting admost ships apply. Detential	
									Dulls cutting edges, chips easily. Potential irritant and sensitizer. Supplies severely	
Ebony, Gaboon	Central Africa	Very Hard	Very Strong	5.37	Difficult	Difficult	Good	Excellent	depleted. <i>Endangered</i> .	
Ebony, Gaboon	ochtrai Atrica	very nara	very strong	3.37	Dimedit	Difficult	000a	LACCHETT	Interlocking and irregular grain make it	
									difficult to work. Potential sensitizer.	
Goncolo Alves	South America	Very Hard	Very Strong	4.38	Difficult	Difficult	Good	Excellent	Endangered.	
			<u> </u>							
									Has become a favorite among wood carvers.	
Jelutong	Indonesia, Malaysia	Very Soft	Very Weak	1.88	Very Easy	Very Easy	Excellent	Excellent	Is similar to Basswood but more stable.	
Lacewood	Europe	Medium	Medium	3.23	Easy	Moderate	Excellent	Excellent	Related to American Sycamore	
						_			Similar properties and appearance as	
Mahogany, African	West Africa	Soft	Medium	2.19	Moderate	Easy	Good	Excellent	Honduran Mahogany.	
									Most cherished furniture wood in world.	
Mahagany Handuran	Control America	Soft	Madium	2.24	Vary Fooy	Vory Fooy	Evacllant	Eveellent	Preferred for classic styles. Resists decay.	
Mahogany, Honduran	Central America	Soit	Medium	2.34	Very Easy	Very Easy	Excellent	Excellent	Endangered. Waterproof, resists decay. Premium furniture	
Mahogany, Philippine, Lauan	Indonesia, Malaysia	Soft	Strong	2.08	Very Easy	Very Easy	Excellent	Good	wood.	
ivianogarry, Frinippine, Lauarr	muonesia, ivialaysia	3011	Strong	2.00	very Lasy	very Lasy	LXCellerit	Good	Sometimes substituted for Honduran	
Mahogany, Philippine, Meranti	Malaysia	Medium	Medium	2.08	Easy	Easy	Good	Excellent	Mahogany, but texture is coarser.	
manegariji rimppinoj meranti	West Africa,	oa.a	a.u.	2.00	Lucy	Luoj	0000	27.001.01.1	Very stable, resists decay. Potential irritant.	
Padauk	Indonesia	Medium	Strong	3.75	Easy	Very Easy	Good	Excellent	Endangered.	
					•				Resists decay. Alcohol-based finishes	
	Central and South								dissolve purple color. Lacquer finishes	
Purpleheart	America	Hard	Very Strong	3.49	Moderate	Difficult	Good	Good	preserve color.	
									Best substitute for Brazilian Rosewood, which	
			_						is depleted. Resists decay. Potential	
Rosewood, Bolivian	South America	Very Hard	Very Strong	4.17	Difficult	Difficult	Poor	Poor	sensitizer. <i>Endangered</i> .	
									A fair substitute for Brazilian Rosewood.	
Descripted Handuran	Control America	Von Hord	Ctrong	5.00	Difficult	Difficult	Door	Door	Resists decay. Potential sensitizer.	
Rosewood, Honduran	Central America	Very Hard	Strong	5.00	Difficult	Difficult	Poor	Poor	Endangered. Resists decay. Potential sensitizer.	
Rosewood, Indian	India, Indonesia	Very Hard	Very Strong	3.91	Difficult	Difficult	Adequate	Good	Endangered.	
Rosewood, malan	Southeast Asia,	very nara	very strong	5.71	Dimedit	Difficult	Aucquate	0000	Very stable, resists decay. Potential	
Teak	Indonesia	Medium	Strong	2.87	Moderate	Moderate	Good	Good	sensitizer. <i>Endangered.</i>	
									Stable, resists decay. Potential sensitizer.	
Tulipwood	South America	Very Hard	Very Strong	5.00	Difficult	Difficult	Good	Excellent	Member of the Rosewood family.	
		-							Stable, resists decay. Sometimes substituted	
Wenge	Central Africa	Very Hard	Strong	4.59	Moderate	Easy	Poor	Good	for Ebony.	
									Stable. Interlocking grain makes it difficult	
Zebrawood	West Africa	Hard	Strong	3.86	Easy	Difficult	Good	Excellent	to plane and joint.	
	I									