

## Products Made From Wood

Terry Conners, Extension Specialist in Forest Products

List created July, 2002 from a number of other lists, with additions.

*Corrections and Additions will be welcomed! (tconners@uky.edu)*

### **Solid Wood Products**

Lumber and plywood to build new homes	Drum Sticks	Brush handles
Doors	Tambourines	Cable reels
Window frames and sills	Wood blocks	Canes
Flooring	Speaker cabinets	Cedar chests
I-joists	Amplifier cabinets	Cedar closet lining
LVL (laminated veneer lumber)	Metronomes	Activated charcoal
Parallel strand lumber	Xylophones	Church pews and altars
Finger-jointed lumber	Harmonicas	Closet rods
Machine stress-rated lumber	Stage flooring	Barrels
Coat racks	Sandboxes and Backyard play sets	Crutches
Furniture	Charcoal	Desks
Dining room tables	Tool handles	Docks
Upholstered furniture frames	Toilet plungers	Decks
Rocking chairs	Medicine cabinets	Kitchen cabinets
End tables	Parallel bars	Ferryboats
Coffee tables	Vineyard stakes	Gazebos
Beds	Toys such as wooden blocks	Grandfather clocks
Bookcases	Rulers	Stair rails
Nightstands	Birdhouses	Truck and trailer flooring
Bureaus	Fencing, fence posts and rails	Mouldings and baseboards
Landscape timbers	Firewood	Paneling
Highway guard rails	Fishing boats	Picnic tables
Snowshoes	Ladders	Pilings for building construction
Toothpicks	Hockey sticks	Popsicle sticks
Match sticks	Dog houses	Porch swings
Chopsticks	Pallets	Produce crates and boxes
Shutters	Particleboard	Propeller shaft bearings for ships
Baseball bats	Medium density fiberboard (MDF) (used	Rocking horses
Canoe paddles and oars	in kitchen cabinets and furniture	Rowboats
Musical instruments:	panels, for example)	Shingles
Guitars	Hardboard	House siding
Pianos	Garage doors	Putty-type of wood filler
Organs and organ pedals	Gazebos	Tongue depressors
Oboes	Hot tubs and spas	Totem poles
Bagpipes	Lath	Sleds
Banjos	Trellises	Salad bowls and serving ware
Clarinets	Kitchen utensils	Telephone poles
Flutes/Fifes	Pencils	Wheelbarrow handles
Mandolins	Ping Pong paddles	Wood carvings
String bass	Golf tees	Wooden nickels
Violins	Animal bedding	Pegboard
Violin bows	Railroad ties	Ship masts and yardarms
Cellos	Seesaws	Toilet seats
Bassoons	Model airplanes	Piano keys (wooden)
Drums	Coffins	Rolling pins

Knife handles  
 Children's puzzles  
 Work benches  
 Toboggans  
 Bookcases  
 Park benches  
 Gun racks and cabinets  
 Billboards  
 Snow fences  
 Trellises  
 Parallel bars  
 Log houses  
 Bowling alley lanes  
 Bowling pins  
 Railroad crossing gates  
 Rural bridges  
 Tent poles  
 Hurdles  
 Lobster pots and floats  
 Wooden matches  
 Parts of snowboards, skis  
 and skateboards  
 Ventriloquist dummies  
 Name tags  
 Flagpoles (for smaller flags)  
 Cribs  
 Police batons  
 Planters  
 Dowels  
 Scaffold planks  
 Concrete forms  
 Glu-lam beams (used to  
 create long open  
 spaces, as in  
 churches)  
 Excelsior  
 Veneer  
 Bushel baskets  
 Pants hangers  
 Kitchen counters  
 Woodcut artwork  
 Merry-go-Round horses  
 Birdhouses  
 Snowshoes  
 Woodworking clamps  
 Spinning wheels  
 Baskets  
 Novelties such as Nutcrack-  
 ers  
 Checker sets  
 Jewelry boxes  
 Foundry patterns  
 Crates  
 Garage doors  
 Theatre scenery  
 Gunstocks  
 Beehives  
 Mallets  
 Butcher blocks  
 Organ pipes  
 Crucifixes  
 Drafting tables  
 Ballot boxes

Doll houses  
 Test tube racks  
 Wine racks  
 Handrails  
 Stake-body truck sides  
 Gerbil chew sticks (balsa wood)  
 Yo-yos  
 Dice  
 Silverware chests  
 Venetian blinds  
 Billiard cue sticks  
 Fuel for meat smokers  
 Spices and flavorings  
     Allspice  
     Annatto  
     Bay leaves  
     Cinnamon  
     Cloves  
     FilÈ (Sassafras leaves, used to  
     thicken gumbos)  
     Juniper berries (gin flavoring)  
     Mace  
     Nutmeg  
     Orange blossoms (flavored  
     water)  
     Chips for smoking meat  
     Sassafras oil is used as a soap  
     perfume  
 Logs provide nutrients for shiitake  
 mushrooms  
 Cutting boards  
 Model airplanes  
 Biscuits for wood joining

### **Products that Used to be Made**

#### **From Wood**

*(Some of these may still be made from wood for specialty products.)*

Water pipes  
 Bocce balls  
 Tennis rackets  
 Car dashboards  
 Golf clubs  
 Conestoga wagons  
 Clocks and clock gears  
 Waterwheels  
 Printing press type  
 Printing presses  
 Deckle boxes (frames used to make paper  
 by hand)  
 Paper presses (to squeeze the water out  
 of handmade paper)  
 Woodworking planes  
 Cigar store Indians  
 Weaving shuttles and bobbins  
 Wooden shoes  
 Bows and arrows  
 Wooden wheels for automobiles and  
 wagons  
 Pull toys  
 Sextants  
 Street paving blocks

Rocking horses  
 Fun house barrels  
 Fishing lures  
 Storage battery separators (hard rubber)  
 Water tanks  
 Wardrobes/armoires  
 Model iTi coil boxes  
 Automobile chassis  
 Ironing boards  
 Treenails  
 Post and beam timber framing  
 Cabinets for Analytical balances  
 Shoe lasts  
 Radio, television and phonograph/stereo  
 cabinets  
 Butter churns  
 Harpsichords  
 Railroad cars  
 Aircraft propellers and airframes  
 Minesweeper boats, PT boats  
 Silos  
 Fermentation vats  
 Cigar boxes  
 Racing shells (one to eight-man rowed  
 boats)  
 Wringers for washing machines  
 Telephones  
 Wood creosote used to be used as a  
 laxative, a disinfectant and a cough  
 treatment (rarely used nowadays).  
 Woodworking tools  
     Planes  
     Carpenter levels  
     Carpenter rules  
     Tool chests  
 Gear shift knobs  
 Butter molds  
 Slide rules  
 Phonographs  
 Bicycles  
 Traveler's writing desks  
 Cigar molds  
 Artist's pallets  
 Washboards  
 Skis  
 Water well structures  
 Water pump enclosures  
 Wheel chairs  
 Candlesticks  
 Warships  
 Wardrobe trunks  
 Maple syrup buckets  
 Abacus  
 Pulleys  
 Gallows  
 Milking stools  
 Insulator pins  
 Plates and bowls  
 Artificial limbs  
 Sled runners  
 Iceboxes and refrigerators  
 Gutters  
 Spruce gum was used for chewing gum

Sassafras tea  
 Canoes  
 Automobile tires (used rayon as reinforcing cord)  
 Shoe pegs (used to fasten shoe soles to the leather uppers)  
 Dragon's blood (from fruit of Asian tree) was used in the manufacture of varnishes and lacquers  
 Dyestuffs (prior to invention of synthetic dyes)  
 Canada balsam (tree resin) was used to make microscope slides  
 Quinine came from the bark of the Cinchona tree  
 Willow bark provided the original source of aspirin-like compounds  
 Cork used to be the gasket material lining bottle caps  
 Rubber used to be used to waterproof raincoats  
 Molded wooden figurines  
 Typewriter keys (Celluloid)  
 Red elm inner bark used to be steeped in water to obtain a remedy for sore throats  
 Hickory was a part of the Wright brothers' airplanes  
 Cylinder phonograph records used to be made from Carnauba wax because it is so hard  
 Tool handles were made from celluloid as recently as World War II.  
 Piano keys were once made from celluloid as an ivory substitute.

**Things Made from Wood that Formerly Were Made from Something Else**

Paper (used to be made from cotton and linen rags)

**Non-Wood/Non-Paper Products**

Shade!  
 Nuts

Cola nuts (Coca-Cola etc.)  
 Almonds  
 Brazil nuts  
 Cashews  
 Hazelnuts  
 Pistachios  
 Walnuts  
 Pecans  
 Hickory nuts  
 Chestnuts  
 Pine nuts  
 Acorns (decorative uses)

Fruits

Apples  
 Avocados  
 Coffee  
 Peaches

Oranges  
 Lemons  
 Limes  
 Bananas  
 Pears  
 Tangerines  
 Coconuts  
 Dates  
 Grapefruit  
 Olives and olive oil  
 Plums  
 Figs

Fruit juices

Carob (a cocoa substitute)  
 Cider

Mistletoe (grows as a symbiont on trees)  
 Eucalyptus leaves (floral component, also used for fragrance)

Carnauba wax (from the leaves of the carnauba palm tree grown in Brazil).  
 Used in:

Shoe polish  
 Lipsticks  
 Automotive waxes  
 Furniture polish  
 Applied to produce to make it look appealing in supermarkets.

Products from Wood Sap or Extractives:

Citrus cleaners (oils)  
 Lime scent for aftershave  
 Sandalwood fragrance for soap and incense

Maple syrup  
 Rubber

Rubber products

Golf balls

Tires

Marine and underwater cable insulation

Adhesives

Combs (hard rubber)

Latex gloves and other barrier-type of medical products

Rubber belts

Rubber hoses

Gaskets

Shoe soles

Rubber boots

Rubber balls

Turpentine (most of it comes from wood pulping operations)

Rosin

Pine needle extract (an anti-inflammatory)

Rosewood oil (various medicinal uses)

Taxol (anti-cancer drug)

Frankincense

Myrrh

Tea tree oil (antibiotic and antifungal oil)

Benzoin gum

Gum Arabic

Corks (the primary use for cork: ~17 billion sold each year, compared to 400 million for plastic stoppers (2001 statistics))

Other cork products

Coasters

Flooring

Dartboards

Wall and ceiling tiles

Sanding blocks

Corkboards

Expansion joint filler

Insulation corkboard

Fishing buoys and floats

Cork washers

Hot pads

Musical instrument parts (e.g., stoppers for organ pipes)

Laboratory rings for glassware

Bathmats (made of granulated cork)

iPeasî for whistles

Cricket balls

Corks for pop guns

Foosball (table football) balls

Hockey balls

Baseballs

Facings for some ping pong paddles

Cork shoe soles

Roofing

**Products that Used to be**

**Made From Cork**

*(Some of these may still be made as specialty products.)*

Bottle caps gaskets for carbonated beverages

Life jackets (until 1857 ñ now mostly polystyrene)

Life preservers (polystyrene now)

Fishing rod handles (now mostly Hypalon®)

Sheet insulation (e.g., for refrigerators)

Rocket nosecones (a cork-ceramic composite)

**Paper and Fluff Products**

Computer and copy paper

Book paper

Book marks

Envelopes

Checkbooks

Bulk mail

Bills

Instruction manuals

Packaging cards for blister-packed products

Calendars  
 Diplomas and Certificates  
 Report cards  
 Lamp shades  
 Book covers  
 Concert posters  
 Identification badges  
 Newsletters  
 Recipe cards  
 Salt boxes  
 Sugar and flour bags  
 Can labels (except for tomato cans for some unknown reason!)  
 Bottle and jar labels  
 Cereal boxes  
 Shelf labels in grocery stores  
 Adhesive-backed labels  
 Receipts  
 Menus  
 Poster board  
 Baking cups  
 Coupons  
 US currency is *not* made from wood pulp ñ it's made from cotton and flax fibers  
 Coffee filters  
 Facial and bath tissue  
*Packaging* for facial and bath tissue (the boxes and wrappers)  
 Napkins  
 Sanitary and surgical absorbent products  
 Disposable diapers  
 Kites  
 Catalogs  
 Game boards  
 Masking tape  
 Crepe paper  
 Birthday and Christmas wrapping paper  
 Stickers  
 Coloring books  
 Flashlight battery labels  
 Paper dolls  
 Baseball cards  
 Tracing paper  
 Election ballots  
 Milk cartons  
 Egg cartons  
 Postage stamps  
 Paper towels  
 Playing cards  
 Building insulation, loose and in panel form  
 Grocery Bags  
 Paper Cups  
 File Folders  
 Post-It Notes  
 CD labels  
 DVD and VCR tape packaging  
 Magazines  
 Magazine card inserts  
 Postcards  
 Maps  
 Fast food packaging

Frozen food boxes  
 Construction paper  
 Kraft paper (wrapping paper)  
 Multi-wall sacks for birdseed and pet foods  
 Price tags  
 Sandpaper  
 Seed starter blocks  
 Loudspeaker cones  
 Origami paper  
 Tea bags are usually *not* made from wood pulp ñ they are mostly made from abaca, also known as Manila hemp  
 Tea bag *labels* are made of wood-based paper  
 Cigarette papers and vacuum cleaner bags are made from hemp or flax fiber!  
 Bible paper  
 Wallpaper  
 Tubes for bathroom tissue and paper towels  
 Artificial snow (paper snow)  
 Wax paper  
 Confetti  
 Admixture with sprayed-on grass seed  
 Food additive (non-digestible cellulose dietary fiber). Used in diet drink products, food texture enhancer. (In the late 1970s, a diet bread used cellulose fiber from wood as one of its ingredients.)  
 Butcher paper  
 Musical instrument cases (icardboard type, as for guitars)  
 Phone books  
 Photographs  
 Newspapers  
 Tickets  
 Business cards  
 Roofing felt  
 Ice cream containers  
 Pizza boxes  
 Disposable tablecloths  
 Retail software boxes  
 Corrugated cartons  
 Ceiling tiles  
 Absorbent socks for oil spills  
 Absorbent liners for supermarket meat trays  
 Stationery and notebook paper  
 NCR (no carbon required) paper  
 Tax forms  
 Marriage licenses, birth and death certificates and other civil documents  
 Racing forms  
 Programs for sporting events  
 Fiber filler for plastics:  
 Tool handles  
 Football helmets  
 Buttons  
 Eyeglass frames

Ball point pens  
 Electronics cases (televisions, calculators, computers)  
 Loudspeakers  
 Automobile parts (*e.g.*, door panels)  
 Packaging  
 Trays  
 Thermoformed products like gun cases  
 Marine/Trailer flooring  
 Wood-plastic composite lumber:  
 Garden benches  
 Picnic tables  
 Planters  
 Fencing  
 Decking

#### Signs

Parking stops for parking lots  
 Spare tire covers  
 Melamine paper-faced board

### **Things that Formerly Were Made from Wood-based Paper**

Oil cans  
 Candy bar wrappers  
 Grocery bags (some still are made from paper!)  
 Library catalog cards (supplanted by computer files)  
 Drinking straws  
 Shotgun cartridges  
 Carbon paper  
 Bumper stickers (now made out of vinyl except for the peel-off paper on the backside)  
 Computer cards (now entirely electronic!)

### **Products Made from Wood-Derived Chemicals**

(Processed products, not oils or latex, etc. Some cellulose products may derive from other cellulose sources such as cotton linters, depending on economics and manufacturer.)

Textiles (Rayon, Tencel)

Cellulose acetate (wrapping and photographic film)

Cellulose nitrate (former composition of movie film, except that it was very flammable and unstable with age)

Celluloid (rarely produced nowadays, except for guitar picks and pick guards, fountain pens, accordion cases and ping-pong balls. Formerly used for costume jewelry, clocks, etc.)

Cellulose acetate and cellulose nitrate are both used in adhesives and lacquers.

CMC (carboxymethyl cellulose) is used as a food thickener and texturizer for products such as ketchup and ice cream (depending on manufacturer); also used to stabilize oil well drilling muds.	Additive to unfired ceramics to give them strength	varies by manufacturer)
Cellulose-based pill fillers	Fungicides	Suntan lotion ( <i>e.g.</i> , almond oil (emollient); clove bud oil (scent); cocoa butter (emollient))
Cellophane (wrapping material, also used for Easter basket grass!)	Hair spray	Ink (incorporate tall oil rosins from hard pines)
Toothpaste additives ( <i>e.g.</i> , cellulose gum)	Cosmetics including thickeners such as methyl cellulose and methylhydroxyethylcellulose	Tall oil fatty acids and derivatives are used as:
Plastic twine	Methanol (used in colognes, solvents)	PVC stabilizers
Hardhats and sports helmets	Torula yeast (a food supplement) is grown on wood sugars and wood mineral nutrients leftover from pulping operations. This is used in baby foods, imitation bacon, cereals, baked goods, etc.	Synthetic lubricants
Cigarette filters (cellulose acetate fibers)	Tannin (used in natural tanning process, less common than formerly)	Polyamides
Cellulose industrial filters	Carnauba wax is commonly used as a pill coating.	Corrosion inhibitors
Sausage casings	Liquid Smoke	Soaps
Cellulose sponges	Linoleum (oxidized linseed oil mixed with pine resin and wood flour)	Detergents
Artificial vanilla flavoring (by-product of Kraft process pulping)	Acetic acid (produced by distillation of wood)	Emulsifiers
Cleaning compounds	Biofuels from wood distillation	Rubber processing additives
Chewing gum is a combination of natural rubber (especially chicle, from the Sapodilla trees from Central and South America) with some synthetic latexes to extend the natural latex supply. Other wood chemicals such as rosin esters and terpenes are also common ingredients.	Liquid nail polish	Asphalt additives
	Shaving cream (tea tree oil, camphor, etc.,	Concrete additives
		Epoxy additives
		Plasticizers
		Metalworking chemicals
		Oil field chemicals
		Rosin-based adhesive products
		Also, see the list of products from
		Extractives (above)

**To grow a pound of wood, a tree uses 1.47 pounds of carbon dioxide and gives off 1.07 pounds of oxygen.**

**The following information is copied from the website of the Temperate Forest Foundation {<http://www.forestinfo.org/Discover/facts.htm#Recycling>}:**

- Σ In 1995, some 1.6 billion seedlings were planted in the U.S. - more than 5 new trees a year for every American.† Millions of additional trees were naturally reforested.
- Σ Private owners account for 59% of the nation's 490 million acres of commercial forestland; government owns 27%; and the forest industry owns 14%.
- Σ Each person in the United States consumes approximately 675 pounds of paper a year.
- Σ On the average, everyone uses the equivalent of a tree, 18 inches in diameter - 100 foot tall, every year. That's 80 cubic feet!

**The United States is a wood-rich country; people in the United States (on average) use about three times as much wood each day as people in the rest of the world. One of the most common uses for wood around the world is for fuel!**

**And finally, a surprise for (almost) all Kentuckians:**

**3M Corporation's popular product, Post-It Notes, are manufactured exclusively in Cynthiana, (Harrison County), Kentucky!**

(T. Conners 07/02)

Educational programs of the Kentucky Cooperative Extension Service serve all people regardless of race, color, age, sex, religion, disability, or national origin. Issued in furtherance of Cooperative Extension work, Acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture, M. Scott Smith, Director of Cooperative Extension Service, University of Kentucky College of Agriculture, Lexington, and Kentucky State University, Frankfort. Copyright © 2002 for materials developed by the University of Kentucky Cooperative Extension Service. This publication may be reproduced in portions or its entirety for educational or nonprofit purposes only. Permitted users shall give credit to the author(s) and include this copyright notice. Publications are also available on the world wide web at: <http://www.uky.edu/Agriculture/Forestry/forestry.html>.