## 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)

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### Solid Wood Products

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<th>Drum Sticks</th>
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<td>Canes</td>
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<td>Cedar chests</td>
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<td>Ferryboats</td>
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<td>Gazebos</td>
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<td>Grandfather clocks</td>
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<td>Stair rails</td>
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<td>Truck and trailer flooring</td>
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<td>Mouldings and baseboards</td>
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<td>Paneling</td>
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<td>Picnic tables</td>
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<td>Pilings for building construction</td>
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<td>Popsicle sticks</td>
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<td>Porch swings</td>
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<td>Produce crates and boxes</td>
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<td>Propeller shaft bearings for ships</td>
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<td>Rocking horses</td>
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<td>Rowboats</td>
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<td>Shingles</td>
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<td>House siding</td>
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<td>Putty-type of wood filler</td>
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<td>Tongue depressors</td>
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<td>Totem poles</td>
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<td>Sleds</td>
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<td>Salad bowls and serving ware</td>
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<td>Telephone poles</td>
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<td>Wheelbarrow handles</td>
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<td>Wood carvings</td>
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<td>Wooden nickels</td>
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<td>Pegboard</td>
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<td>Ship masts and yardarms</td>
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<td>Toilet seats</td>
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<td>Piano keys (wooden)</td>
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<td>Rolling pins</td>
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</tbody>
</table>
Knife handles
Childrenís 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 Nutcrackers,
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
Anatto
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
iBiscuits 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 chums
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
Travelerís writing desks
Cigar molds
Artistís 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 symbiant 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)
- iPeas 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 HypalonÆ)
- 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
Things that Formerly Things that Formerly Things that Formerly Things that Formerly Things that Formerly
Made from Made from Made from Made from Made from 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, Tencelô)
- 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. Cellulose-based pill fillers Cellophane (wrapping material, also used for Easter basket grass!) Toothpaste additives (e.g., cellulose gum) iPlastic i twine Hardhats and sports helmets Cigarette filters (cellulose acetate fibers) Cellulose industrial filters Sausage casings Cellulose sponges/Artificial vanilla flavoring (by-product of Kraft process pulping) Cleaning compounds 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. Additive to unfired ceramics to give them strength Fungicides Hair spray Cosmetics including thickeners such as methyl cellulose and methyl hydroxyethyl cellulose Methanol (used in colognes, solvents) 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. Tannin (used in natural tanning process, less common than formerly) Carnauba wax is commonly used as a pill coating Liquid Smoke® Linoleum (oxidized linseed oil mixed with pine resin and wood flour) Acetic acid (produced by distillation of wood) Biofuels from wood distillation Liquid nail polish Shaving cream (tea tree oil, camphor, etc., varies by manufacturer) Suntan lotion (e.g., almond oil (emollient); clove bud oil (scent); cocoa butter (emollient)) Ink (incorporate tall oil rosin from hard pines) Tall oil fatty acids and derivatives are used as: PVC stabilizers Synthetic lubricants Polyamides Corrosion inhibitors Soaps Detergents Emulsifiers Rubber processing additives Asphalt additives 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.est info.org/Discover/facts.htm#Recycling):

∑ 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.

∑ Private owners account for 59% of the nationís 490 million acres of commercial forestland; government owns 27%; and the forest industry owns 14%.

∑ Each person in the United States consumes approximately 675 pounds of paper a year.

∑ On the average, everyone uses the equivalent of a tree, 18 inches in diameter - 100 foot tall, every year. Thatís 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 Corporationís popular product, Post-It Notes, are manufactured exclusively in Cynthiana, (Harrison County), Kentucky!