

Nature's Treasure Chest -- The Tree

More than 5,000 wood and paper products make our lives better each day. Chances are you ate some wood today, wore it, and brushed your teeth with it. Everything from baby food to rayon to toothpaste to football helmets and diapers are made from trees. Chemists have unlocked the secrets of converting tree fibers and paper-pulping residues into a wealth of products. See how many of these products you would guess came from trees, and prepare to be amazed:

Solid Wood Products

Lumber and plywood to build new homes * furniture * toothpicks baseball bats * canoe paddles * guitars * backyard play sets * ax handles * charcoal * wooden blocks * rulers * birdhouses * crutches * fences * sleds

Wood Alcohols

Colognes * solvents

Torula Yeast

Baby foods * imitation bacon * cereals * vegetarian foods * baked goods * beverages

Cellulose

Rayon clothing * sanding sealers * pressure sensitive adhesives * floor tiles * toothpaste * carpeting and upholstery backsides * food additives and thickeners * handles for screwdrivers and other tools * football helmets and hardhats * toothpaste * carbon papers * cigarette filters * piping for irrigation systems * plastic twines * computer casings * luggage * placemats * sandwich bags

Lignosulfates

Cleaning compounds * ceramics * treatments for hypertension and Parkinson's Disease * insecticides * hair spray * deodorants * fungicides * grouting * laundry stain remover * artificial vanilla flavoring

And Don't Forget Recycling

After use, many of these products can be recovered and recycled. Recycled paper is used in everything from newsprint to corrugated boxes and writing papers. And egg cartons, cereal boxes, and tissue are made entirely of recycled fiber. Recycled wood is used in composite wood products such as construction materials and car door interiors.

Things you'd never have guessed come from trees

- Rayon Clothing
- Cellophane
- Rubber Tires
- Diapers
- Acetate
- Photographic film
- Fuel
- Cosmetics
- Cider
- Nitrating Pulp for Artillery
- Cleaning Compounds

Products from Live Trees

- acorns
- almonds
- apples
- avocados
- bananas
- bay leaves
- cedarleaf oil
- cedarwood oil
- chestnuts
- coconuts
- cork
- dates
- essential oils
- eucalyptus oil
- figs
- frankincense (olibanum)
- grapefruit
- grapefruit extract
- hickory nuts
- lemons
- lemonade
- lemon extract
- lemon juice
- lemon rind
- mandarin oranges
- maple syrup
- myrrh and opopanax resins and oils
- nectarines
- olives
- oranges
- orange flower extract
- orange fruit extract
- orange juice
- orange peel extract
- orange rind
- peaches
- pears
- pecans
- pine needle extract
- plums
- rosewood oil
- rubber
- seed source
- shade
- stabilize soil
- tangerines
- walnuts
- windbreak

Products from Solid Wood

- airplane fuselages
- airplane propellers
- armoires
- bagpipes
- bar stools
- baseball bats
- basses
- bassoons
- bird houses
- boardwalks
- boat propellers
- bridges
- broom handles
- brushes
- cabinets
- cable reels
- canes
- cedar chests
- cedar closet liners
- cellos
- chairs
- drawer and cabinet pulls
- drums
- drum sticks
- entertainment centers
- fence posts
- fence poles
- ferries
- firewood
- flutes
- furniture
- futons
- gazebos
- glu-lam beams
- grandfather clocks
- home insulation
- horse and stock trailer floors
- jewelry
- jewelry boxes
- jump standards for horses
- Popsicle sticks
- porch swings
- produce crates
- propeller shaft bearings on ships
- racing shells
- rafts
- railroad ties
- recorders
- rocking horses
- roller coasters
- rowboats
- saddle trees
- sailboats
- shakes
- skewers
- tables
- tack trunks
- Tacoma Dome (world's largest wood-frame structure)

- charcoal and activated charcoal
- chop sticks
- church altars
- church pews
- clarinets
- closet rods
- clothes drying racks
- coasters
- coffee tables
- coffins
- cooperage (barrels)
- crutches
- cutting boards
- decks
- desks
- dining table and chairs
- docks
- dog houses
- doors
- handrails
- laundry drying racks
- manufactured homes
- marine pilings
- matches
- modular homes
- mouldings
- non-sparking hand tools
- oars
- oboes
- paint brush handles
- pallets
- paneling
- pencils
- petrified wood
- pianos
- piccolos
- picnic tables and chairs
- picture frames
- pilings
- plywood
- shingles
- siding
- tongue depressors
- totem poles
- travel trailers
- turned bowls
- toothpicks
- utility poles
- violas
- violins
- walking sticks
- wheelbarrow handles
- wine barrels
- wood carvings
- wooden floors
- wooden nickels
- wooden spoons and other utensils
- wooden shoes
- wooden toys
- yacht decking

Products from Wood Chips

- cedarwood oils
- concrete forms
- dry process hardboard
- engineered beams
- fuel for sawmills
- high density overlay
- insulation board
- Masonite
- medium density fiberboard
- medium density overlay
- oriented strand board
- particleboard
- dissolving pulp
- linerboard pulp
- paper pulp
- Taxol (anti-cancer drug)
- underlayment
- wet process hardboard

Products from Pulping of Wood

- absorbent waddings
- additive system binders
- adhesive systems
- animal bedding
- animal feed additives
- arch supports for shoes
- artificial kidney membranes
- art paper
- bakery bags
- bed sheets
- binders
- fast food wrapping
- fax paper
- fiber conduits
- file folders
- film
- filter paper
- flameproof papers
- fluorescent papers
- folders
- folding cartons
- foundry resin systems
- frozen food wrapping
- pine tar
- pipelines
- pitch
- playing cards
- plugs
- poultry feeders
- postage stamps
- pressure sensitive labels
- price tags
- printer paper
- rayon
- rigid reaction injection

- blankets
- blister packaging
- blouses
- books
- boxboard
- building insulation
- calendars
- carbon black
- cardboard boxes
- cast earth houses
- catalogs
- cellulose acetate filter tow (cigarette filter tips)
- cellulose diacetate (plastic moulding and extrusion applications)
- cellulose triacetate (photo film substrate and specialty textile fibers)
- cellulose filters
- cellulose membranes
- cellophane
- ceramics
- cereal boxes
- cigarette filters
- cigarette paper
- clock facings
- coffee filters
- compression molding polymers
- computer paper
- concrete admixture
- copy paper
- corrugating medium
- cosmetic puffs
- detergent boxes
- dresses
- disposable diapers
- dispersants
- dust control
- dyestuffs
- egg cartons
- elastomeric RIM polymer systems
- electrical insulation
- emulsifiers
- envelopes
- facial tissue
- furnace insulation
- game boards
- gas proof papers
- greeting cards
- grocery bags
- insecticide sprays
- jigsaw puzzles
- juice cartons
- labels
- leather tanning
- library books
- lignin
- lignosulfonates
- linerboard
- loose-leaf binders
- lyocell
- magazines
- magazine organizers
- manuals
- milk cartons
- movie tickets
- multiwall sacks (pet foods, livestock feed, lawn and garden seed, etc.)
- napkins
- newspapers
- newsprint
- notebook paper
- nitrocellulose (guncotton and billiard balls)
- nuclear power plant steam valve packing (carbonized rayon)
- oil filters
- oil well drilling mud
- packing material
- panel boards
- paperboard
- paper-based tape
- paper cups
- paper plates
- paper towels
- paper trays
- partitions
- photographic paper
- tall oil
- tar oils
- molding polymer systems (RIM)
- rosin
- rubber reinforcement
- sandpaper
- sanitary pads
- sausage casings
- seawalls
- seed starters
- sequestrants
- set-up boxes
- shrink and stretch overwrap films
- solid fuel rocket motor nozzles (incl. the space shuttle)
- speaker cones
- spiral notebooks
- spray-on acoustic and thermal insulation
- stationery
- steam valve packing (replacement for asbestos)
- surfactants
- surgical gowns
- tea bags
- telephone sets
- thermoplastic resins
- thermosetting resins
- tissue paper
- toilet paper
- toys
- tubes for toilet paper and paper towels
- turpentine
- twines
- vanillin (artificial vanilla flavoring)
- vellum
- wallpaper
- washable paper mats
- waxed paper
- well drilling mud
- wood particulate binders
- wrapping paper
- writing paper

Products from Bark

- Anti-cancer drugs
- arena footing for horses
- cosmetics
- hogged fuel
- mulch or beauty bark for gardens
- oil spill control agents
- shoe polish
- oil spill control agents
- poultry bedding

Products from Cork

- agglomerated cork
 - pure expanded agglomerates - agglutinated with the corks own resins.
 - compound agglomerates - agglutinated with non-cork products such as asphalt, rubber, casein, cement, gypsum, glue, plastic, natural or synthetic resins, etc.
- anti-static computer flooring
- ashtrays
- battery mold coating
- baseballs
- bath mats
- bathroom fittings
- beehives
- boxes for fishing equipment
- bulletin and tackboard materials
- candle holders
- ceiling tiles
- cigarette boxes
- coasters for glasses
- cold storage insulation
- composition rolls and sheets
- cork facings for walls and ceilings
- cork insulation in solid fuel rocket motor cases
- cork rolls and panels
- cork-rubber mixed gaskets in the automotive and electrical industry
- cork slabs and sheets
- cork stoppers for bottles, jars, and decanters
- cork wallpaper
- cork washers
- cricket balls
- dart boards
- desk pads
- expansion and compression joints in concrete structures
- self-expanding cork
- fishing rod rings and handles
- fishing net floats
- floor and carpet underlayments
- floor tiles
- fuel floats
- glass polishing
- golf balls
- golf clubs
- handicraft items
- hot pads
- jar lids
- life-jackets
- life-buoys
- linoleum
- machinery anti-vibration sheets and pads
- marble and granite grinding
- mats for plates
- memo boards
- mute in wind instruments
- organ pipes (used as a stopper for)
- pipe insulation
- polishing blocks
- protector plates
- pump packing
- radioactive isotope capsule
- railway cars, steamships,
- musical instruments
- truck insulation
- roofing for traditional dwellings (Portugal)
- safety helmets
- sandpaper backing sheet
- shoes
- shuttlecocks
- sound and thermal insulation in walls and roofing
- storage tank insulation
- table-tennis bats
- tapered cork stoppers
- thermal insulation in walls and roofing
- transmission bearing seals
- vibration damping in machinery
- wall tiles
- waterline gauge
- water tight seals
- whistles (the pea in whistles)
- wine corks
- corkboards
- cork buoys
- cork coasters

Miscellaneous uses...

- Adhesive
- Hat Racks
- Artificial Vanilla Flavoring
- Vinegar
- High Chairs
- Baby Cribs & Bassinets
- Boxes
- Swing Set
- Dog Houses
- Toilet Seats
- Building Blocks
- Air & Oil Filters
- Out Houses
- Grocery Receipts
- Spools for Thread
- Skateboards
- Pharmaceuticals
- Recipe Boxes
- Alcohol
- Books
- Space craft re-entry shields
- Baby Food
- Railroad ties
- Wax polishes
- Fungicides
- Ax Handles
- Asbestos replacement
- Tea Bags
- Algaecides
- Carbon paper wax
- Acetic Acid
- Flagpoles
- Disposable Medical Clothing
- Power Poles
- Pencils
- Telephone casings
- Paper Pallets
- Sausage Casings
- Ping pong balls
- Piano keys
- Clothespins
- Baking Cups
- Lacquer
- Charcoal
- Football Helmets
- Swings
- Pet Food
- Wine Racks
- Washing Machine impellers
- Rakes
- Foam Rubber
- Anionic & Cationic Collectors for Ores
- Toilet seats
- Foundry cores
- Billiard Tables & Pool Cues
- Panelboard
- Fish feed
- Dust Palliatives for roads and ores
- Boat Caulking
- Gummed Tape
- Activated carbon
- Particle Board
- Fireplaces
- Decorative Paneling
- Fertilizer
- Display Cases
- Enamel & Wood Stain
- Lumber
- Leather tanning
- Oil well drilling compounds
- Plywood
- Linoleum
- Water Treatment
- Hardboard
- Poultry Feed
- Anti-foaming agents
- Clocks
- Ceramics
- Fishing boats and tackle
- Beer
- Laxatives
- Fruit and Vegetable Crates
- Garment Bags
- Humidors
- Insoles and heels for shoes
- Axe Handles
- Easels
- Medicated hog feed
- Tires
- Bats
- Ceiling Tile
- Sleighs & Sleds
- Beds
- Goal Posts
- Bowsprits, Boomkins, & Yardarms
- Statuary
- Map Tubes
- Christmas Trees
- Coasters
- Tree Houses
- Window Frames & Shutters
- Windmills
- Scythes
- Corn Cribs
- Baker's Poles
- Garages
- Barns & Sheds
- Stage Sets
- Greenhouses
- Casters Kegs
- Piling
- Pole Barns
- Exercise Boards
- Cabinets
- Tobacco Barns
- Window Screen Frames
- Bread
- Blackboards
- Cooking Utensil Handles
- Baskets
- Bean Poles
- Kitchen Countertops
- Folders
- Cider Presses
- Panels for Electrical Circuits
- Radio & T.V.
- Toothpicks
- Agricultural Chemicals for Lemon Orchards
- Hockey Sticks
- Paper Towels
- Boats & Canoes
- Stables
- Pianos
- Flume & Piping

- Flashlight Cases
- Soaps
- Coffee Filters
- Baby Wipes
- Roofs
- Artificial Snow
- Football Helmets
- Barrels
- Coupons
- Camera Cases
- Steering Wheels
- Printing Ink
- Pine Oil Disinfectant
- Phenolic Resins
- Waterproofing
- Penetrating Oil
- Tar Remover
- Paintbrush Handles
- Rubber Addition Agents
- Paint
- Seedling Pots
- Roofing Compound
- Cattle Feed
- Bibles
- Telephone Books
- Napkins
- Handrails
- Paper Plates & Cups
- Hog Troughs
- Feed Bins
- Paperboard Houses
- VIP Cases
- Church Pews
- Reservoirs & Reservoir Covers
- Bar Tops
- Organs
- Lighting Fixtures
- Altars
- Picture Frames
- Industrial Cooling Towers
- Drums
- Curtain Rods
- Drum Sticks
- Tripods
- Boomerangs
- Frozen Food Packages
- Easels
- Tennis Rackets
- Corrugated Cartons
- Fruit and nuts
- Liquid nail polish
- Shades
- Skis
- Baseboards & Moldings
- Hair spray
- Buckets
- Soil additive
- Kites Masts
- Bread wrapping
- Shuttles & picker sticks for fabric weaving
- Oxygen
- Fiber tubes
- Pulpits & Podiums
- Insecticides
- Buttons
- Ash tray bases
- Masking Tape
- Egg Cartons
- Draperies & Bedspreads
- Flypaper
- Magazines
- Hi-Fi Cabinets and Speakers
- Movies
- Stadium Seats
- Apple Storage Warehouses
- Displays
- Tambourines
- CD & Cassette Jackets & Labels
- Shade
- Cutting Boards
- Vacuum bags
- Gangplanks
- Desk Pads
- Trailers & Mobile Homes
- Record Covers
- Metronomes
- Photographic slides
- Pontoons
- Broom Handles
- Marine Instrument Panels
- Corks
- Baking cups
- Eyeglass Frames
- Guitars
- Plaques
- Art Pads
- Adding Machine Rolls
- Rulers
- Dollhouses
- Medical Stretchers
- Yachts
- Windbreaks
- Electrical Receptacles
- Clipboards
- Yardsticks
- Vacation Cottages
- Fishing Docks
- Maple Syrup
- Game Pieces & Cartons
- Carpeting
- Sailboats
- Cruise Ship Decks
- Totem Poles
- Wall Carvings
- Garden Furniture
- Incense
- Envelopes
- Race Track Fencing
- Art pens
- Crutches
- Automobile Instrument Panels
- Pipes
- Mirror Backs
- Venetian Blinds
- Mousetraps
- Canes
- Observation Towers
- Rolling Pins
- Toys
- Garden & Marking Stakes
- Freight Cars
- Clothes Racks
- Plastic Shopping Bags
- Doors
- Lacrosse Rackets
- Elevator Cabs
- Planters
- Shovel Handles
- Croquet Balls & Mallets
- Puzzles
- Manure Spreaders
- Shipyard Timbers Docks & Dolphins

- Rulers
- Gavels
- Safety Papers for Checks
- Javelins
- Stairways
- Concrete Forming
- Creosote
- Wagons and Wagon Tongues
- Arrows
- Birdhouses
- Fine Printing Papers
- Work Benches
- Toboggans
- Aircraft Propellers
- Yeast
- Bookcases
- Missile & Radar Domes
- Models
- Jewelry
- Chairs & Tables
- Desks
- Park Benches
- Industrial Patterns
- Varnish
- Liquid Soap
- Salt & Pepper Cellars
- Confetti
- Postage Stamps
- Auto Body Undercoating
- Alcohol
- Gun Racks
- Grocery Sacks
- Cement Disbursement
- Gum
- Turpentine
- Billboard Posters
- Lubricants
- Violins & Fiddles
- See-saws
- Taffy Sticks
- Atlases and Maps
- Trellises
- Bark Dust
- Parallel Bars
- Banjos
- World Globes
- Stirrups
- Basketball Courts
- Adhesives in plaster
- Rafts
- Snowshoes
- Clarinet & Saxophone Reeds
- Saunas
- Candlesticks
- Surveyor Stakes
- Decoys
- Kennels
- Poultry Houses
- Tax forms
- Cartons & Labels
- Polo Mallets
- Sleds
- Fire Ladders
- Tempering Oil
- Novelties
- Snow fences
- Golf Balls
- Log Houses
- Asphalt Hardboard
- Bowling Pins
- Schools Signs
- Bowling Alley Lanes
- Bowling Balls
- Darning Eggs
- Umbrella Handles
- Golf Club Heads
- Knife Handles
- Kitchen Cabinets
- Gun Stocks
- School Desks
- Popsicle Sticks
- Beauty & Wildlife
- Hand Cleaners
- Corrosion Inhibitors
- Luggage
- Airline Tickets
- Apartment Houses
- Salad Sets
- Roof Gutters
- Bridges
- Riot Sticks
- Cistern covers
- Carpenter Vices
- Trunks
- Ceiling Timbers
- Loading Platforms
- Diving Boards
- Cable Reels
- Railroad Crossing Gates
- Caskets
- Putty & Caulking Compound
- Sawhorses
- Ammunition
- Highway Surfaces
- Sandboxes
- Book Ends
- Oil & Gas Well Fracturing
- Epoxy Resins
- Stationary
- Truck Bodies
- Pipe Racks
- Crepe Paper
- Parking Tickets
- Tent Poles & Stakes
- Hurdles
- Oars & Paddles
- Lobster Pots & Lobster Floats
- Horse Jumps
- Boot Jacks
- Safety & Wood Matches
- Shoe Trees
- Flooring
- Paint Remover

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