

## Potential Wood Product-based Business Ideas

Camptonville  
Forest Biomass Business Center

FOREST PRODUCTS	FEEDSTOCK	FEEDSTOCK SPECIFICATIONS
<b>High Value</b>		
Sawlogs (dimensional lumber)	Small to large logs	8.5' long, 5.6" small-end diameter
Veneer logs	Small logs	8' long plus trim, 3.5" core diameter, straight grain, cylindrical, pith in center, etc.
House logs	Small to large logs	25' or more length, 6-18" diameter
Utility poles	Small to large logs	Douglas fir, 20-125' long
Kiln-dried flooring	Small to large logs	Douglas fir
Beams	Large logs	Hardwood
Veneer for engineered flooring	Large logs	Hardwood
<b>Value-Added</b>		
Posts*	Small logs	Ponderosa pine, Doug fir
Poles*	Small logs	Ponderosa pine, Doug fir
Tree stakes*	Small logs	
Trellis poles*	Small logs	
Rustic furniture	Small to large logs	Pine, cedar, Doug fir, lodgepole
Spindles for log-home railings and stairways	Small logs	
Stairway steps	Small logs	
Arches	Small logs	
Character wood (e.g., burls)	Small logs	
Composite wood	Forest biomass	
Wood plastic composites		Clean, dry (2-12% mc) wood flour
Buck and rail fences	Small logs	
Flooring blanks	Small logs	
Fencing boards/packages	Small logs	
Honey supers, frames, bee boxes	Small logs	
Crates and boxes	Small logs	
<b>Value-Added from Residuals</b>		
Firewood*	Log segments, end pieces	6"+ log diameter
Animal bedding (shavings)*	Wood residual	Softwood logs (no incense cedar). Equipment: shavings mill.
Landscape chips and bark*	Residuals from log peeler	Small roundwood, easily debarked. Screen to remove fines
Compost*	Small log pieces; forest biomass	Need to add greenwaste (e.g., grass clippings), or use green wood for nitrogen. Equipment: tub grinder; compost turner & tractor.
Dried hog fuel	Wood residual	<10% moisture content
<b>Low-Value</b>		
Paper pulp	Forest biomass	No fire-charring into cambium, <50% rot, 3" minus, bark free
Chips for oriented strand board and other composite lumber	Forest biomass	3" minus, bark free
<b>Developing Markets</b>		
<b>Energy</b>		
Combustion/steam turbine		3" minus, <50% MC
Cogeneration facility		3" minus, <50% MC
Thermal energy production		3" minus, <50% MC
Gasification & generator		3" minus, <50% MC
Gasification & fuel cell		3" minus, <50% MC
<b>Biofuels</b>		
Torrefied wood		
Torrefied pellets		3" minus, bark free, <40% MC
Wood fuel pellets		3" minus, bark free, <40% MC. May require debarking before wood processing.
Fuel bricks*		clean, dry (<15% MC), needles/bark OK
Fire logs		clean, dry (<10% MC), needs to be <1% ash
Liquid bio-oil (to biodiesel)		
Ethanol		
<b>Biochar</b>		

\* Recommended for further investigation