

Released: August 2025
Next MECS will be fielded in 2027

Table 3.6 Selected wood and wood-related products in fuel consumption, 2022

Level: National and regional data
Row: Selected NAICS codes
Column: Energy sources
Unit: Trillion British thermal units

		Selected wood and wood-related products					
NAICS code ^a	Subsector and industry	Pulping liquor or black liquor	Biomass total ^b	Agricultural waste ^c	Biomass	Wood residues and byproducts from mill processing ^e	Wood-related and paper-related refuse ^f
					Wood harvested directly from trees ^d		
Total United States							
311	Food	0	101	98	*	0	3
311221	Wet Corn Milling and Starch Manufacturing	0	3	0	*	0	3
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	250	0	11	238	*
321113	Sawmills	0	146	0	10	136	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	85	0	1	85	*
321219	Reconstituted Wood Products	0	40	0	0	40	*
3219	Other Wood Products	0	17	0	*	17	0
322	Paper	846	287	*	13	270	4
322110	Pulp Mills	224	54	0	*	54	0
322120	Paper Mills	136	59	0	7	51	2
322130	Paperboard Mills	453	162	*	6	153	3
337	Furniture and Related Products	0	4	0	0	4	*
	Other Manufacturing	0	27	2	*	23	2
	Total	846	669	100	24	535	10
Northeast Census Region							
311	Food	0	*	*	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	31	0	3	28	*
321113	Sawmills	0	5	0	2	3	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	24	0	1	23	*
321219	Reconstituted Wood Products	0	12	0	0	12	*
3219	Other Wood Products	0	1	0	*	1	0
322	Paper	51	17	0	5	11	1
322110	Pulp Mills	0	2	0	0	2	0
322120	Paper Mills	31	13	0	5	7	1
322130	Paperboard Mills	0	0	0	0	0	0

337	Furniture and Related Products	0	*	0	0	*	*
	Other Manufacturing	0	*	0	0	*	*
	Total	51	49	*	8	40	1

Midwest Census Region

311	Food	0	Q	Q	*	0	*
311221	Wet Corn Milling and Starch Manufacturing	0	*	0	*	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	17	0	0	17	*
321113	Sawmills	0	2	0	0	2	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	6	0	0	6	*
321219	Reconstituted Wood Products	0	6	0	0	6	0
3219	Other Wood Products	0	Q	0	0	Q	0
322	Paper	52	20	0	*	19	1
322110	Pulp Mills	D	3	0	*	3	0
322120	Paper Mills	32	11	0	0	10	1
322130	Paperboard Mills	D	4	0	0	4	0
337	Furniture and Related Products	0	Q	0	0	Q	0
	Other Manufacturing	0	4	*	*	3	*
	Total	52	42	Q	*	39	1

South Census Region

311	Food	0	99	96	0	0	3
311221	Wet Corn Milling and Starch Manufacturing	0	3	0	0	0	3
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	145	0	*	145	0
321113	Sawmills	0	92	0	*	92	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	45	0	0	45	0
321219	Reconstituted Wood Products	0	22	0	0	22	0
3219	Other Wood Products	0	7	0	*	7	0
322	Paper	692	222	*	8	211	3
322110	Pulp Mills	202	48	0	0	48	0
322120	Paper Mills	61	22	0	1	20	*
322130	Paperboard Mills	416	143	*	6	134	3
337	Furniture and Related Products	0	3	0	0	3	*
	Other Manufacturing	0	10	1	*	8	1
	Total	692	480	97	8	368	7

West Census Region

311	Food	0	*	*	0	0	0
311221	Wet Corn Milling and Starch Manufacturing	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	57	0	8	48	*
321113	Sawmills	0	46	0	8	38	*
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	0	9	0	0	9	0
321219	Reconstituted Wood Products	0	*	0	0	*	0
3219	Other Wood Products	0	1	0	0	1	0
322	Paper	52	29	0	0	28	*

322110	Pulp Mills	D	1	0	0	1	0
322120	Paper Mills	11	14	0	0	13	*
322130	Paperboard Mills	D	14	0	0	14	0
337	Furniture and Related Products	0	0	0	0	0	0
	Other Manufacturing	0	13	1	*	11	*
	Total	52	98	1	8	88	1

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy or were extracted from captive (onsite) mines or wells. During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed to produce heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the *Fuel Consumption* estimates will be inflated.

^a The Bureau of the Census classifies establishments using the 2022 North American Industry Classification System (NAICS).

^b Four components of *biomass* are collected: agricultural waste, wood harvested directly from trees, wood residues and byproducts from mill processing, and wood-related and paper-related refuse. The *biomass total* does not include pulping liquor or black liquor.

^c *Agricultural waste* includes bagasse, rice hulls, nut shells, and orchard prunings.

^d *Wood harvested directly from trees* includes round wood, wood chips, and tree bark.

^e *Wood residues and byproducts from mill processing* include sawdust, shavings, and slabs.

^f *Wood-related and paper-related refuse* includes scrap, wastepaper, wood pallets, and packing materials.

* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because relative standard error (RSE) is greater than 50%.

NA=Not available.

The Census Bureau has reviewed this data product to ensure appropriate access, use, and disclosure protection of the confidential source data (Project No. 7504703, Disclosure Review Board (DRB) approval number: CBDRB-FY25-0054).

RSE Table 3.6 Relative standard errors for table 3.6

Unit: Percentage

		Selected wood and wood-related products					
NAICS code ^a	Subsector and industry	Pulping liquor or black liquor	Biomass total ^b	Agricultural waste ^c	Biomass	Wood residues and byproducts from mill processing ^e	Wood-related and paper-related refuse ^f
					Wood harvested directly from trees ^d		
Total United States							
311	Food	X	1.0	1	0.0	X	0.0
311221	Wet Corn Milling and Starch Manufacturing	X	0.0	X	0.0	X	0.0
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	2.5	X	34.7	2.0	0.2
321113	Sawmills	X	2.7	X	37.6	0.7	0.0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	1.6	X	0.0	1.6	4.0
321219	Reconstituted Wood Products	X	0.0	X	X	0.0	0.0
3219	Other Wood Products	X	26.6	X	0.1	27.1	X
322	Paper	0	0.0	0	0.0	0.0	0.0
322110	Pulp Mills	0.0	0.0	X	0.0	0.0	X
322120	Paper Mills	0	0.0	X	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0	0.0	0.0	0.0
337	Furniture and Related Products	X	26.0	X	X	27.0	78.6
	Other Manufacturing	X	1.2	0	0.1	1.4	0.1
	Total	0	0.9	1	15.6	0.9	1.5
Northeast Census Region							
311	Food	X	66.2	66.2	X	X	X
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	0.8	X	0.1	0.9	0
321113	Sawmills	X	0.2	X	0.1	0.3	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	0.1	X	0	0.1	0
321219	Reconstituted Wood Products	X	0	X	X	0	0
3219	Other Wood Products	X	21.7	X	0.1	26.4	X
322	Paper	0	0	X	0	0	0
322110	Pulp Mills	0	0.0	X	X	0.0	X
322120	Paper Mills	0.0	0.0	X	0.0	0.0	0.0
322130	Paperboard Mills	X	X	X	X	X	X
337	Furniture and Related Products	X	76.5	X	X	76.8	0
	Other Manufacturing	X	71.5	X	X	71.8	93.3
	Total	0	0.9	66.2	0.1	1.1	0.2

Midwest Census Region							
311	Food	X	73.7	93.8	0	X	0
311221	Wet Corn Milling and Starch Manufacturing	X	0	X	0	X	X
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	26.1	X	X	26.1	28.1
321113	Sawmills	X	8.7	X	X	8.7	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	0.2	X	X	0.2	30.7
321219	Reconstituted Wood Products	X	0	X	X	0	X
3219	Other Wood Products	X	52.8	X	X	52.8	X
322	Paper	0	0	X	0	0	0
322110	Pulp Mills	D	0	X	0	0	X
322120	Paper Mills	0	0	X	X	0	0
322130	Paperboard Mills	D	0	X	X	0	X
337	Furniture and Related Products	X	52.4	X	X	52.4	X
	Other Manufacturing	X	0.8	0	99	0.9	0
	Total	0	10.6	72.2	0.2	11.1	0.1

South Census Region							
311	Food	X	0.2	0.2	X	X	0
311221	Wet Corn Milling and Starch Manufacturing	X	0.0	X	X	X	0
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	0.9	X	0	0.9	X
321113	Sawmills	X	0.4	X	0	0.4	X
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	0.7	X	X	0.7	X
321219	Reconstituted Wood Products	X	0.0	X	X	0	X
3219	Other Wood Products	X	17.9	X	0	18.2	X
322	Paper	0	0.0	0	0	0	0
322110	Pulp Mills	0.0	0.0	X	X	0	X
322120	Paper Mills	0.0	0.0	X	0.0	0.0	0.0
322130	Paperboard Mills	0.0	0.0	0	0.0	0.0	0.0
337	Furniture and Related Products	X	30.5	X	X	32.0	79.0
	Other Manufacturing	X	0.2	0	0	0.2	0
	Total	0	0.4	0.2	0	0.5	2.1

West Census Region							
311	Food	X	0.1	0.1	X	X	X
311221	Wet Corn Milling and Starch Manufacturing	X	X	X	X	X	X
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	7.3	X	47	3.5	0
321113	Sawmills	X	8.4	X	47	2.5	0
3212	Veneer, Plywood, and Engineered Wood Product Manufacturing	X	14.2	X	X	14.2	X
321219	Reconstituted Wood Products	X	0.0	X	X	0.0	X
3219	Other Wood Products	X	46.9	X	X	46.9	X
322	Paper	0	0.0	X	X	0	0
322110	Pulp Mills	D	0.0	X	X	0.0	X
322120	Paper Mills	0.0	0.0	X	X	0.0	0.0
322130	Paperboard Mills	D	0.0	X	X	0.0	X

337	Furniture and Related Products	X	X	X	X	X	X
	Other Manufacturing	X	0.0	0	0	0	0
	Total	0	4.2	0.1	46.5	1.9	0

Data source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2022 Manufacturing Energy Consumption Survey*

Notes: Totals may not equal sum of components because of independent rounding. The estimates presented in this table are for the total consumption of energy (formerly total inputs of energy) for the production of heat, power, and electricity generation, regardless of where the energy was produced. Specifically, the estimates include the quantities of energy that were originally produced offsite and purchased by or transferred to the establishment, plus those that were produced onsite from other energy or input materials not classified as energy or were extracted from captive (onsite) mines or wells. During manufacturing processes, it is possible that the thermal energy content of an energy input is not completely consumed to produce heat, power, or electricity generation. Hence, residuals of that input may remain. Those residual leftovers may be subsequently consumed for fuel purposes, whether onsite or offsite at another manufacturing establishment (for example, blast furnace gas as a byproduct recovered from coke and other inputs that were not completely consumed). In such cases, double counting of inputs cannot be avoided, and the *Fuel Consumption* estimates will be inflated.

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^c *Agricultural waste* includes bagasse, rice hulls, nut shells, and orchard prunings.

^d *Wood harvested directly from trees* includes round wood, wood chips, and tree bark.

^e *Wood residues and byproducts from mill processing* include sawdust, shavings, and slabs.

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* Estimate less than 0.5.

D=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because relative standard error (RSE) is greater than 50%.

NA=Not available.

X=Not defined because RSE corresponds to a data table value of zero.