

Released: February 2021
 Next MECS will be fielded in 2022.

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2018;

Level: National and Regional Data;
Row: Selected NAICS Codes; Column: Energy Sources;
Unit: Trillion Btu.

		Selected Wood and Wood-Related Products					
		Biomass				Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)		
Total United States							
311	Food	0	52	46	5	Q	*
311221	Wet Corn Milling	0	5	*	5	0	0
312	Beverage and Tobacco Products	0	Q	*	Q	1	0
321	Wood Products	0	231	2	3	226	1
321113	Sawmills	0	112	2	2	108	*
3212	Veneer, Plywood, and Engineered Woods	0	82	0	*	82	*
321219	Reconstituted Wood Products	0	42	0	0	42	*
3219	Other Wood Products	0	35	0	*	34	*
322	Paper	854	315	1	18	287	8
322110	Pulp Mills	D	48	0	4	44	*
322121	Paper Mills, except Newsprint	262	81	0	5	76	1
322122	Newsprint Mills	6	6	0	0	6	0
322130	Paperboard Mills	392	176	1	10	158	7
337	Furniture and Related Products	0	5	0	0	Q	*
	Other Manufacturing	3	10	1	3	5	1
	Total	857	624	50	40	524	11
Northeast Census Region							
311	Food	0	*	*	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	0	0	0	0	0
321	Wood Products	0	39	0	2	37	*
321113	Sawmills	0	6	0	2	4	*
3212	Veneer, Plywood, and Engineered Woods	0	27	0	*	27	*

321219	Reconstituted Wood Products	0	15	0	0	15	*
3219	Other Wood Products	0	Q	0	0	Q	0
322	Paper	54	19	0	7	12	*
322110	Pulp Mills	D	8	0	4	5	0
322121	Paper Mills, except Newsprint	35	11	0	3	7	*
322122	Newsprint Mills	0	0	0	0	0	0
322130	Paperboard Mills	0	0	0	0	0	0
337	Furniture and Related Products	0	*	0	0	*	*
	Other Manufacturing	0	*	0	*	*	*
	Total	54	59	*	9	49	1

Midwest Census Region

311	Food	0	Q	Q	0	0	*
311221	Wet Corn Milling	0	*	*	0	0	0
312	Beverage and Tobacco Products	0	Q	0	Q	0	0
321	Wood Products	0	13	0	*	13	*
321113	Sawmills	0	4	0	*	4	*
3212	Veneer, Plywood, and Engineered Woods	0	6	0	*	6	*
321219	Reconstituted Wood Products	0	3	0	0	3	0
3219	Other Wood Products	0	4	0	*	4	0
322	Paper	59	26	0	*	21	4
322110	Pulp Mills	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	58	20	0	*	19	0
322122	Newsprint Mills	0	0	0	0	0	0
322130	Paperboard Mills	2	7	0	0	2	4
337	Furniture and Related Products	0	Q	0	0	Q	0
	Other Manufacturing	0	1	*	*	1	1
	Total	59	58	Q	Q	38	5

South Census Region

311	Food	0	47	41	5	Q	0
311221	Wet Corn Milling	0	5	*	5	0	0
312	Beverage and Tobacco Products	0	1	*	0	1	0
321	Wood Products	0	127	0	0	127	*
321113	Sawmills	0	64	0	0	64	0
3212	Veneer, Plywood, and Engineered Woods	0	37	0	0	37	0
321219	Reconstituted Wood Products	0	20	0	0	20	0
3219	Other Wood Products	0	24	0	0	24	*
322	Paper	685	251	1	11	235	3
322110	Pulp Mills	170	38	0	0	38	*
322121	Paper Mills, except Newsprint	156	46	0	1	45	0

322122	Newsprint Mills	6	6	0	0	6	0
322130	Paperboard Mills	352	158	1	10	144	3
337	Furniture and Related Products	0	Q	0	0	Q	0
	Other Manufacturing	3	7	1	3	4	*
	Total	688	435	43	19	369	4
West Census Region							
311	Food	0	Q	Q	0	0	0
311221	Wet Corn Milling	0	0	0	0	0	0
312	Beverage and Tobacco Products	0	*	*	*	0	0
321	Wood Products	0	51	2	0	49	*
321113	Sawmills	0	38	2	0	36	*
3212	Veneer, Plywood, and Engineered Woods	0	13	0	0	13	0
321219	Reconstituted Wood Products	0	4	0	0	4	0
3219	Other Wood Products	0	0	0	0	0	0
322	Paper	56	19	0	0	18	*
322110	Pulp Mills	4	1	0	0	1	0
322121	Paper Mills, except Newsprint	13	5	0	0	5	*
322122	Newsprint Mills	0	*	0	0	*	0
322130	Paperboard Mills	38	12	0	0	12	0
337	Furniture and Related Products	0	0	0	0	0	0
	Other Manufacturing	0	1	*	0	*	*
	Total	56	73	Q	*	68	1

(a) The Bureau of the Census classifies establishments using the 2017 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 percent.

NA=Not available.

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 for the production of 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.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, *2018 Manufacturing Energy Consumption Survey*.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).

Released: February 2021
 Next MECS will be fielded in 2022.

RSE Table 3.6 Relative Standard Errors for Table 3.6;

Unit: Percents.

		Selected Wood and Wood-Related Products					
		Biomass				Wood Residues and Byproducts from Mill Processing(e)	Wood-Related and Paper-Related Refuse(f)
NAICS Code(a)	Subsector and Industry	Pulping Liquor or Black Liquor	Biomass Total(b)	Agricultural Waste(c)	Wood Harvested Directly from Trees(d)		
Total United States							
311	Food	X	5.9	6.5	0.0	90.8	0.0
311221	Wet Corn Milling	X	0.0	0	0.0	X	X
312	Beverage and Tobacco Products	X	91.1	58.4	97.1	0.0	X
321	Wood Products	X	5.1	0	0.1	5.2	49.6
321113	Sawmills	X	1.3	0	0.1	1.3	0.0
3212	Veneer, Plywood, and Engineered Woods	X	1.5	X	0.3	1.5	0.3
321219	Reconstituted Wood Products	X	0.1	X	X	0.1	0.0
3219	Other Wood Products	X	33.4	X	0.0	33.9	94.8
322	Paper	0	0.0	0	0.0	0.0	0.0
322110	Pulp Mills	D	0.0	X	0.0	0.0	0.0
322121	Paper Mills, except Newsprint	0	0.0	X	0.0	0.0	0.0
322122	Newsprint Mills	0.0	0.0	X	X	0.0	X
322130	Paperboard Mills	0.0	0.0	0	0.0	0.0	0.0
337	Furniture and Related Products	X	50.0	X	X	53.0	73.5
	Other Manufacturing	0	3.7	4.7	0.0	7.4	0.0
	Total	0	2.6	6	27.3	2.3	4.5
Northeast Census Region							
311	Food	X	27.8	27.8	X	X	X
311221	Wet Corn Milling	X	X	X	X	X	X
312	Beverage and Tobacco Products	X	X	X	X	X	X
321	Wood Products	X	10.3	X	0.1	10.9	0.7
321113	Sawmills	X	1.4	X	0.1	2.2	0
3212	Veneer, Plywood, and Engineered Woods	X	0.1	X	0	0.1	1.5
321219	Reconstituted Wood Products	X	0	X	X	0	0
3219	Other Wood Products	X	60.4	X	X	60.4	X

322	Paper	0	0	X	0	0	0
322110	Pulp Mills	D	0.0	X	0	0.0	X
322121	Paper Mills, except Newsprint	0.0	0.0	X	0.0	0.0	0.0
322122	Newsprint Mills	X	X	X	X	X	X
322130	Paperboard Mills	X	X	X	X	X	X
337	Furniture and Related Products	X	73.5	X	X	73.5	73.5
	Other Manufacturing	X	0	X	0	0	0
	Total	0	6.8	27.8	0.1	8.2	27.8

Midwest Census Region

311	Food	X	68.9	75.4	X	X	0
311221	Wet Corn Milling	X	0	0	X	X	X
312	Beverage and Tobacco Products	X	97.1	X	97.1	X	X
321	Wood Products	X	14.6	X	0.3	15	0
321113	Sawmills	X	3.5	X	0	3.5	0
3212	Veneer, Plywood, and Engineered Woods	X	20.6	X	0.4	21.5	0
321219	Reconstituted Wood Products	X	0.3	X	X	0.3	X
3219	Other Wood Products	X	40.8	X	0	41.8	X
322	Paper	0	0	X	0	0	0
322110	Pulp Mills	X	X	X	X	X	X
322121	Paper Mills, except Newsprint	0	0	X	0	0	X
322122	Newsprint Mills	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	X	X	0.0	0.0
337	Furniture and Related Products	X	72.5	X	X	72.5	X
	Other Manufacturing	X	0	0	0	0	0
	Total	0	19.9	73.5	91.4	7.7	0

South Census Region

311	Food	X	2.3	1.6	0	90.8	X
311221	Wet Corn Milling	X	0.0	0	0.0	X	X
312	Beverage and Tobacco Products	X	3.4	97.2	X	0	X
321	Wood Products	X	8.6	X	X	8.6	94.8
321113	Sawmills	X	2.2	X	X	2.2	X
3212	Veneer, Plywood, and Engineered Woods	X	0.7	X	X	0.7	X
321219	Reconstituted Wood Products	X	0.0	X	X	0	X
3219	Other Wood Products	X	44.4	X	X	45.2	94.8
322	Paper	0	0.0	0	0	0	0
322110	Pulp Mills	0.0	0.0	X	X	0	0
322121	Paper Mills, except Newsprint	0.0	0.0	X	0.0	0.0	X
322122	Newsprint Mills	0.0	0.0	X	X	0.0	X
322130	Paperboard Mills	0.0	0.0	0	0.0	0.0	0.0

337	Furniture and Related Products	X	62.0	X	X	62	X
	Other Manufacturing	0	4.8	0	0	9.8	0
	Total	0	2.5	1.5	0	3	11.2

West Census Region

311	Food	X	89.5	89.5	X	X	X
311221	Wet Corn Milling	X	X	X	X	X	X
312	Beverage and Tobacco Products	X	12.9	0	82	X	X
321	Wood Products	X	0.3	0	X	0.3	0
321113	Sawmills	X	0.4	0	X	0.4	0
3212	Veneer, Plywood, and Engineered Woods	X	0.5	X	X	0.5	X
321219	Reconstituted Wood Products	X	0.0	X	X	0.0	X
3219	Other Wood Products	X	X	X	X	X	X
322	Paper	0	0.0	X	X	0	0
322110	Pulp Mills	0.0	0.0	X	X	0.0	X
322121	Paper Mills, except Newsprint	0.0	0.0	X	X	0.0	0.0
322122	Newsprint Mills	X	0.0	X	X	0.0	X
322130	Paperboard Mills	0.0	0.0	X	X	0.0	X
337	Furniture and Related Products	X	X	X	X	X	X
	Other Manufacturing	X	6.1	67	X	0	0
	Total	0	2.8	51	82	0.2	0

- (a) The Bureau of the Census classifies establishments using the 2017 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 percent.

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

NA=Not available.

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 for the production of 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.

Source: U.S. Energy Information Administration, Office of Energy Demand and Integrated Statistics, Form EIA-846, 2018 Manufacturing Energy Consumption Survey.

The Census Bureau has reviewed this data product for unauthorized disclosure of confidential information and has approved the disclosure avoidance practices applied (Approval ID: CBDRB-FY20-260).