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 Next MECS will be fielded in 2019

Table 3.6 Selected Wood and Wood-Related Products in Fuel Consumption, 2014;

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 | 93 | 87 | 2 | 3 | 1 |
| 311221 | Wet Corn Milling | 0 | 2 | 0 | 2 | 0 | 0 |
| 312 | Beverage and Tobacco Products | 0 | 1 | 0 | * | 1 | 0 |
| 321 | Wood Products | 0 | 243 | 2 | 19 | 216 | 6 |
| 321113 | Sawmills | 0 | 93 | 2 | 8 | 82 | 1 |
| 3212 | Veneer, Plywood, and Engineered Woods | 0 | 101 | * | 5 | 91 | 5 |
| 321219 | Reconstituted Wood Products | 0 | 57 | * | 5 | 47 | 5 |
| 3219 | Other Wood Products | 0 | Q | 0 | Q | Q | * |
| 322 | Paper | 859 | 368 | * | 42 | 311 | 15 |
| 322110 | Pulp Mills | 165 | 51 | * | 0 | 51 | * |
| 322121 | Paper Mills, except Newsprint | 285 | 106 | 0 | 26 | 78 | 2 |
| 322122 | Newsprint Mills | 5 | 11 | 0 | 1 | 10 | 0 |
| 322130 | Paperboard Mills | 401 | 200 | * | 15 | 172 | 13 |
| 337 | Furniture and Related Products | 0 | 4 | 0 | * | 2 | Q |
| | Other Manufacturing | 0 | 19 | 2 | 1 | 13 | 3 |
| | Total | 859 | 727 | 91 | 64 | 546 | 26 |
| Northeast Census Region | | | | | | | |
| 311 | Food | 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 | 48 | 0 | * | 43 | 4 |
| 321113 | Sawmills | 0 | 3 | 0 | * | 3 | * |
| 3212 | Veneer, Plywood, and Engineered Woods | 0 | 39 | 0 | * | 34 | 4 |
| 321219 | Reconstituted Wood Products | 0 | 24 | 0 | * | 20 | 4 |
| 3219 | Other Wood Products | 0 | 6 | 0 | * | 6 | 0 |
| 322 | Paper | 61 | 31 | 0 | 18 | 12 | 2 |
| 322110 | Pulp Mills | 8 | 2 | 0 | 0 | 2 | 0 |
| 322121 | Paper Mills, except Newsprint | 50 | 28 | 0 | 18 | 9 | 2 |
| 322122 | Newsprint Mills | 0 | 0 | 0 | 0 | 0 | 0 |
| 322130 | Paperboard Mills | 0 | 0 | 0 | 0 | 0 | 0 |
| 337 | Furniture and Related Products | 0 | Q | 0 | 0 | 0 | Q |
| | Other Manufacturing | 0 | 1 | 0 | 0 | 1 | * |
| | Total | 61 | 82 | 0 | 18 | 57 | 8 |
| Midwest Census Region | | | | | | | |
| 311 | Food | 0 | 2 | * | * | Q | 1 |
| 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 | 16 | 0 | 1 | 14 | * |
| 321113 | Sawmills | 0 | 5 | 0 | * | 5 | * |
| 3212 | Veneer, Plywood, and Engineered Woods | 0 | 5 | 0 | 1 | 5 | * |
| 321219 | Reconstituted Wood Products | 0 | 4 | 0 | 1 | 4 | 0 |
| 3219 | Other Wood Products | 0 | Q | 0 | Q | Q | * |
| 322 | Paper | 51 | 30 | 0 | 5 | 19 | 6 |
| 322110 | Pulp Mills | 0 | 0 | 0 | 0 | 0 | 0 |
| 322121 | Paper Mills, except Newsprint | 48 | 21 | 0 | 4 | 16 | * |
| 322122 | Newsprint Mills | 0 | 0 | 0 | 0 | 0 | 0 |
| 322130 | Paperboard Mills | 3 | 10 | 0 | 1 | 3 | 5 |
| 337 | Furniture and Related Products | 0 | * | 0 | * | * | 0 |
| | Other Manufacturing | 0 | 2 | 1 | * | 1 | 1 |
| | Total | 51 | 51 | 1 | 7 | 35 | 8 |
| South Census Region | | | | | | | |
| 311 | Food | 0 | 86 | 82 | 2 | 2 | * |

| | | | | | | | |
|--------|---------------------------------------|-----|-----|----|----|-----|---|
| 311221 | Wet Corn Milling | 0 | 2 | 0 | 2 | 0 | 0 |
| 312 | Beverage and Tobacco Products | 0 | 1 | 0 | * | 1 | 0 |
| 321 | Wood Products | 0 | 132 | 0 | 12 | 120 | * |
| 321113 | Sawmills | 0 | 52 | 0 | 3 | 49 | * |
| 3212 | Veneer, Plywood, and Engineered Woods | 0 | 46 | 0 | 5 | 41 | * |
| 321219 | Reconstituted Wood Products | 0 | 26 | 0 | 5 | 21 | * |
| 3219 | Other Wood Products | 0 | Q | 0 | Q | Q | * |
| 322 | Paper | 667 | 282 | * | 19 | 259 | 5 |
| 322110 | Pulp Mills | 152 | 47 | * | 0 | 47 | * |
| 322121 | Paper Mills, except Newsprint | 171 | 52 | 0 | 4 | 48 | 0 |
| 322122 | Newsprint Mills | 5 | 10 | 0 | 1 | 9 | 0 |
| 322130 | Paperboard Mills | 340 | 173 | * | 13 | 155 | 5 |
| 337 | Furniture and Related Products | 0 | 2 | 0 | 0 | 2 | * |
| | Other Manufacturing | 0 | 13 | 1 | * | 9 | 2 |
| | Total | 667 | 517 | 84 | 33 | 393 | 7 |

West Census Region

| | | | | | | | |
|--------|---------------------------------------|----|----|---|---|----|---|
| 311 | Food | 0 | 5 | 4 | 0 | 1 | 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 | 46 | 2 | 6 | 38 | 1 |
| 321113 | Sawmills | 0 | 33 | 2 | 5 | 25 | 1 |
| 3212 | Veneer, Plywood, and Engineered Woods | 0 | 12 | * | 0 | 12 | 0 |
| 321219 | Reconstituted Wood Products | 0 | 3 | * | 0 | 3 | 0 |
| 3219 | Other Wood Products | 0 | 2 | 0 | * | 2 | 0 |
| 322 | Paper | 80 | 24 | 0 | * | 21 | 3 |
| 322110 | Pulp Mills | 5 | 1 | 0 | 0 | 1 | 0 |
| 322121 | Paper Mills, except Newsprint | 16 | 4 | 0 | 0 | 4 | 0 |
| 322122 | Newsprint Mills | 0 | 1 | 0 | 0 | 1 | 0 |
| 322130 | Paperboard Mills | 58 | 17 | 0 | * | 14 | 3 |
| 337 | Furniture and Related Products | 0 | 0 | 0 | 0 | 0 | 0 |
| | Other Manufacturing | 0 | 2 | * | * | 2 | * |
| | Total | 80 | 78 | 6 | 6 | 62 | 4 |

(a) The Bureau of the Census classifies establishments using the 2012 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.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error 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 onsite 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 Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.' '2014 Manufacturing Energy Consumption Survey.'

RSE Table 3.6 Relative Standard Errors for Table 3.6;

Unit: Percents.

| 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 Harvested Directly from Trees(d) | Wood Residues and Byproducts from Mill Processing(e) | Wood-Related and Paper-Related Refuse(f) |
| Total United States | | | | | | | |
| 311 | Food | X | 0.6 | 0.1 | 0.2 | 16.5 | 27.7 |
| 311221 | Wet Corn Milling | X | 0.0 | X | 0.0 | X | X |
| 312 | Beverage and Tobacco Products | X | 3.3 | X | 20.7 | 1.4 | X |
| 321 | Wood Products | X | 11.2 | 0.1 | 14.8 | 11.4 | 2.2 |
| 321113 | Sawmills | X | 1.3 | 0.1 | 0.4 | 1.5 | 0.3 |
| 3212 | Veneer, Plywood, and Engineered Woods | X | 1.7 | 0.1 | 0.1 | 1.9 | 2.5 |
| 321219 | Reconstituted Wood Products | X | 2.9 | 0.1 | 0.1 | 3.5 | 0.1 |
| 3219 | Other Wood Products | X | 58.4 | X | 66.4 | 58.0 | 35.0 |
| 322 | Paper | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 322110 | Pulp Mills | 0.0 | 0.0 | 0 | X | 0.0 | 0.0 |
| 322121 | Paper Mills, except Newsprint | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 322122 | Newsprint Mills | 0.0 | 0.0 | X | 0.0 | 0.0 | X |
| 322130 | Paperboard Mills | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 337 | Furniture and Related Products | X | 42.0 | X | 99.0 | 32.9 | 93.7 |
| | Other Manufacturing | X | 5.0 | 0.1 | 38.8 | 5.9 | 16.9 |
| | Total | 0.1 | 3.8 | 0.1 | 4.4 | 4.5 | 5.5 |
| Northeast Census Region | | | | | | | |
| 311 | Food | X | 92.1 | X | X | 92.6 | 0.1 |
| 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 | 5.4 | X | 10.3 | 6 | 0.1 |
| 321113 | Sawmills | X | 2.3 | X | 4.6 | 2.3 | 90.1 |
| 3212 | Veneer, Plywood, and Engineered Woods | X | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 321219 | Reconstituted Wood Products | X | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 3219 | Other Wood Products | X | 44.3 | X | 27 | 45.1 | X |
| 322 | Paper | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 322110 | Pulp Mills | 0.0 | 0.0 | X | X | 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 | 94.5 | X | X | X | 94.5 |
| | Other Manufacturing | X | 1.2 | X | X | 0.1 | 35.8 |
| | Total | 0.1 | 3.5 | X | 0.2 | 4.6 | 17.3 |
| Midwest Census Region | | | | | | | |
| 311 | Food | X | 28.2 | 0.1 | 86.5 | 72.5 | 27.7 |
| 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 | 17.1 | X | 20.7 | 19.1 | 27.5 |
| 321113 | Sawmills | X | 0.7 | X | 22.3 | 0.2 | 2.5 |
| 3212 | Veneer, Plywood, and Engineered Woods | X | 2.2 | X | 0.1 | 0.2 | 57.8 |
| 321219 | Reconstituted Wood Products | X | 0.1 | X | 0.1 | 0.1 | X |
| 3219 | Other Wood Products | X | 50.6 | X | 51.7 | 56.8 | 0.1 |
| 322 | Paper | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 322110 | Pulp Mills | X | X | X | X | X | X |
| 322121 | Paper Mills, except Newsprint | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 322122 | Newsprint Mills | X | X | X | X | X | X |
| 322130 | Paperboard Mills | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 |
| 337 | Furniture and Related Products | X | 54 | X | 99 | 55.3 | X |
| | Other Manufacturing | X | 11.5 | 0.1 | 28.5 | 48.1 | 1.3 |
| | Total | 0.1 | 5.5 | 0.1 | 3.9 | 7.9 | 3.5 |
| South Census Region | | | | | | | |
| 311 | Food | X | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 311221 | Wet Corn Milling | X | 0.0 | X | 0.0 | X | X |
| 312 | Beverage and Tobacco Products | X | 3.3 | X | 20.7 | 1.4 | X |

| | | | | | | | |
|--------|---------------------------------------|-----|------|-----|------|------|------|
| 321 | Wood Products | X | 20.4 | X | 23.7 | 20.2 | 18.1 |
| 321113 | Sawmills | X | 2.2 | X | 0.2 | 2.3 | 0.1 |
| 3212 | Veneer, Plywood, and Engineered Woods | X | 3.7 | X | 0.1 | 4.2 | 5.7 |
| 321219 | Reconstituted Wood Products | X | 6.3 | X | 0.1 | 7.7 | 0.1 |
| 3219 | Other Wood Products | X | 81.4 | X | 87.4 | 80.9 | 86.4 |
| 322 | Paper | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| 322110 | Pulp Mills | 0.0 | 0.0 | 0 | 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 | 0.0 | 0.0 | X |
| 322130 | Paperboard Mills | 0.0 | 0.0 | 0 | 0.0 | 0.0 | 0.0 |
| 337 | Furniture and Related Products | X | 35.9 | X | X | 35.9 | 43.3 |
| | Other Manufacturing | X | 7.0 | 0.1 | 42.2 | 7.5 | 30.6 |
| | Total | 0.1 | 5.2 | 0.1 | 8.3 | 6.2 | 7.8 |

West Census Region

| | | | | | | | |
|--------|---------------------------------------|-----|------|-----|------|------|-----|
| 311 | Food | X | 0.1 | 0.1 | X | 0.1 | 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 | 1.9 | 0.1 | 6.4 | 1.7 | 0.1 |
| 321113 | Sawmills | X | 1.6 | 0.1 | 0.1 | 2.0 | 0.1 |
| 3212 | Veneer, Plywood, and Engineered Woods | X | 2.0 | 0.0 | X | 2.0 | X |
| 321219 | Reconstituted Wood Products | X | 0.0 | 0.0 | X | 0.0 | X |
| 3219 | Other Wood Products | X | 29.9 | X | 85.4 | 18.4 | X |
| 322 | Paper | 0.1 | 0.1 | X | 0.1 | 0.1 | 0.1 |
| 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 | X |
| 322122 | Newsprint Mills | X | 0.0 | X | X | 0.0 | X |
| 322130 | Paperboard Mills | 0.0 | 0.0 | X | 0.0 | 0.0 | 0.0 |
| 337 | Furniture and Related Products | X | X | X | X | X | X |
| | Other Manufacturing | X | 0.7 | 0.1 | 84 | 0.1 | 5.2 |
| | Total | 0.1 | 1.1 | 0.1 | 6.2 | 1.1 | 0.4 |

(a) The Bureau of the Census classifies establishments using the 2012 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.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

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

-- Estimation is not applicable. Energy source is not included in series.

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 Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.' '2014 Manufacturing Energy Consumption Survey.'