Densified Biomass Fuel Report















For

Pellet Fuels Institute Annual Conference, Hershey, PA June 6th, 2019

By

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Agenda

History of the Survey

What the survey collect

How the data is published

Go over 2018-2019 Heating Data

About EIA

The U.S. Energy Information Administration (EIA) is the statistical and analytical agency within the US Department of Energy. EIA collects, analyzes, and disseminates independent and impartial energy information to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment. EIA is the nations premier source of energy information and, by law, its data, analyses, and forecasts are independent of approval by any other officer or employee of the US Government.

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History and Purpose

 EIA received a letter from two Senators (Maine and New Hampshire) in 2014 asking to increase coverage of energy from woody biomass.

Received support from other stakeholders

Densified Biomass Fuel Report officially approved August 28th, 2015.

Respondents and Requirements

All manufacturers of densified biomass fuel products must report on EIA-63C. Both currently
operating and those planning to begin operating within one year.

Those with capacity of 10,000 tons/year or more report monthly.

• Plants producing only animal bedding, absorbents, and/or grilling pellets are not required to report. All others should report **ONLY FUEL** intended for heating or electric power.

Currently, about 85 manufacturers report each month.

Data Collected

- Plant History
- Current annual installed capacity and any planned additions
- Plant Status
- Full Time Employees

Data Collected

- Feedstocks: type, source, quantities and cost
- Production: type of product, quantities and characteristics
- Inventory: type of product, total held
- Sales: Domestic and Export, type of product, quantities and revenues

Table 2 Monthly Respondents

Tables

Table 2. Number of operating densified biomass manufacturing facilities by U.S. region, full-time equivalent employees and capacity, 2019

Region	Month	Number of facilities	Capacity (tons per year)	Number of FTE employees	
East					
	January	33	2,134,480	582	
	February	33	2,134,480	554	
South					
	January	35	9,006,334	1,520	
	February	35	9,006,334	1,513	
West					
	January	17	761,501	227	
	February	15	711,500	227	
U.S. total					
	January	85	11,902,315	2,329	
	February	83	11,852,314	2,294	

Note: Does not include facilities under construction and/or planned or small facilities, which report annually.

Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.



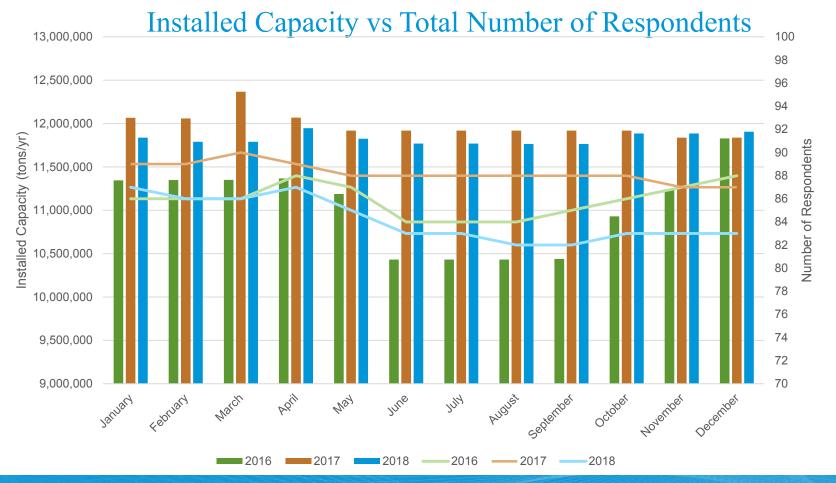




Table 3 Feedstocks

Table 3. Feedstocks and average cost per ton for the manufacture of densified biomass products, 2019



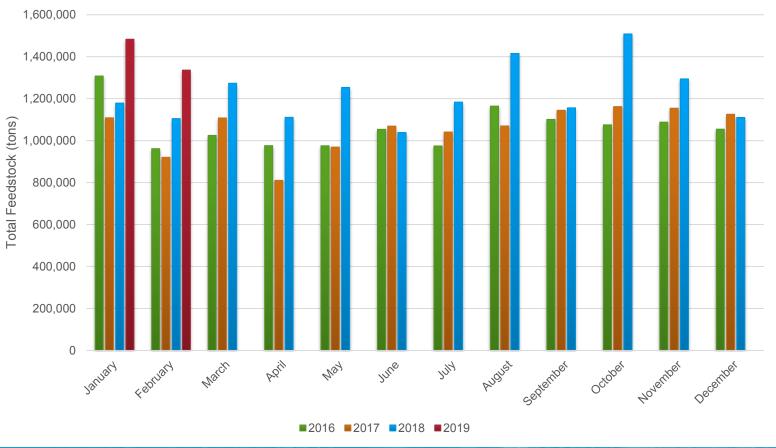
	Roundwood/pulpwood		Sawmill residuals		Wood product manufacturing residuals		Other residuals	
Month	quantity (tons)	cost (USD per ton)	quantity (tons)	cost (USD per ton)	quantity (tons)	cost (USD per ton)	quantity (tons)	cost (USD per ton)
January	306,407	\$31.63	282,668	\$32.76	300,729	\$34.42	593,160	\$31.00
February	315,780	\$33.83	254,604	\$33.97	317,013	\$39.32	448,674	\$31.20

Notes: The other residuals category includes bark, logging residues, wood chips, post consumer wood, unmerchantable wood, and other. Roundwood timber is generally logs harvested for industrial use from sustainably managed forests.

January values were updated, starting with the February publication, due to data received after the deadline.

Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.

Total Feedstock Purchases





Feedstock Purchases by Type

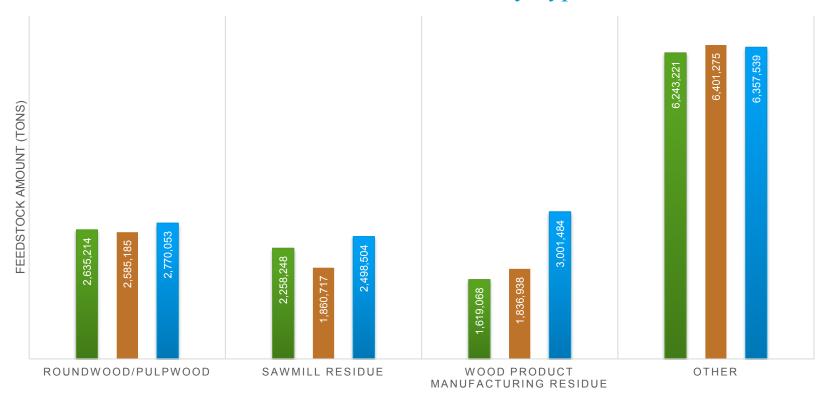




Table 4 Production

Table 4. Production of densified biomass fuel, 2019 (tons)

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Region Month		Wood pellets, premium/standard	Wood pellets utility
East			
	January	94,015	N/A
	February	88,803	N/A
South			
	January	25,889	519,060
	February	20,008	565,496
West			
	January	33,476	N/A
	February	29,275	N/A
U.S. total			
	January	153,380	519,060
	February	138,086	565,496

Notes: Wood pellets, premium/standard includes: Wood pellets premium (PFI certified), Wood pellets standard (PFI certified), Wood pellets premium (not certified), Wood pellets standard (not certified), Wood pellets ENplus A1, Wood pellets ENplus A2 and other; Wood pellets, utility includes: Wood pellets utility (not certified), Wood pellets utility (PFI certified) and Wood pellets ENplus B.

January values were updated, starting with the February publication, due to data received after the deadline.

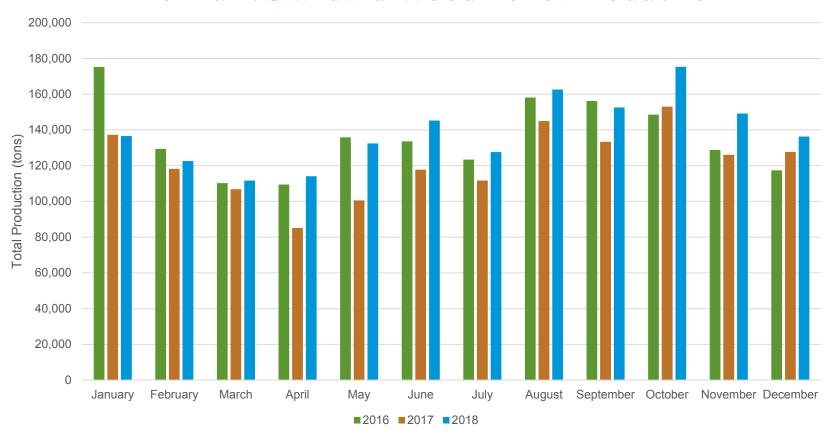
For information on the PFI (Pellet Fuel Institute) Certification Standards, see http://www.pelletheat.org/pfi-standards.

N/A = No production; W = Withheld to avoid disclosure of individual company data.

Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.



Premium/Standard Wood Pellet Production





Premium/Standard Production by Region

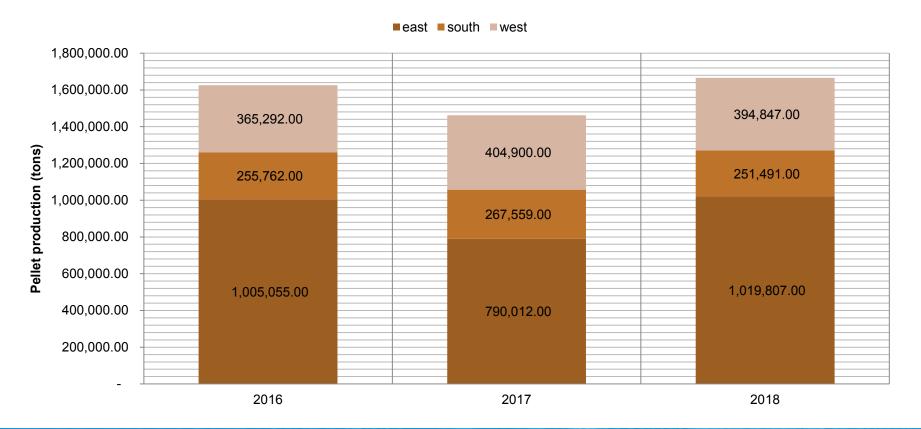




Table 6 Inventory

Table 6. Inventories of densified biomass fuel, 2019 (tons)

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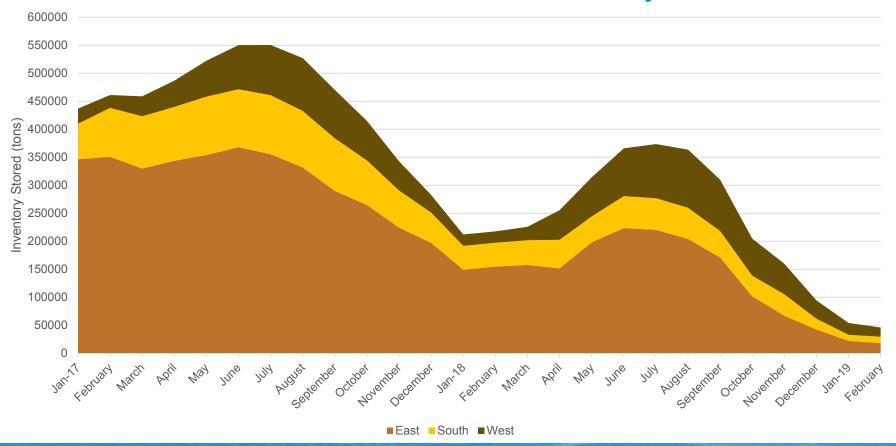
Region Month		Wood pellets, premium/standard	Wood pellets, utility	
East				
	January	22,348	N/A	
	February	18,448	N/A	
South				
	January	10,900	223,283	
	February	11,344	229,335	
West				
	January	21,123	N/A	
	February	16,465	N/A	
U.S. total				
	January	54,371	223,283	
	February	46,257	229,335	

Notes: Wood pellets premium/standard includes: Premium bagged, Premium bulk, Standard bagged, Standard bulk, and other; Wood pellets, utility includes: Utility bulk. N/A = No production; W = Withheld to avoid disclosure of individual company data.

Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.



Premium/Standard Inventory





Premium/Standard Inventory

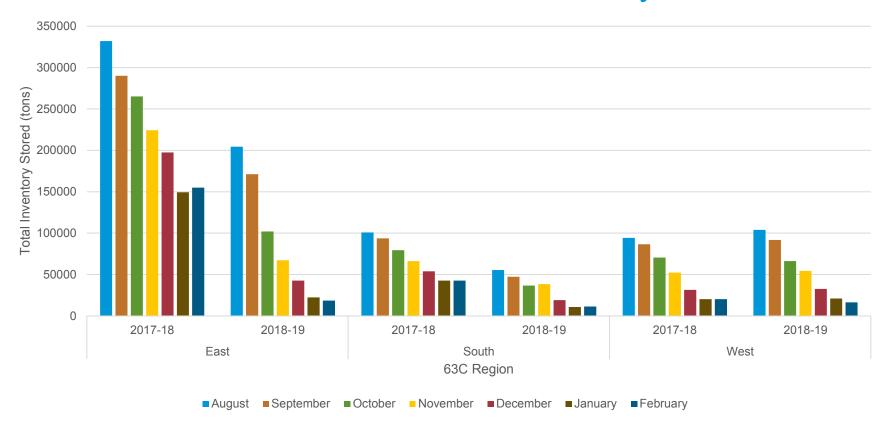




Table 7 Domestic Sales

Table 7. Domestic sales and average price of densified biomass fuel, 2019

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Region	Month	Quantity (tons)	Average price (USD per ton)
East			
	January	111,923	\$171.52
	February	91,915	\$179.36
South			
	January	47,081	\$132.75
	February	41,185	\$131.65
West			
	January	50,383	\$168.82
	February	35,315	\$169.41
U.S. total			
	January	209,387	\$162.15
	February	168,415	\$165.61

Note: Includes all product types sold in the United States, both retail and wholesale sales.

January values were updated, starting with the February publication, due to data received after the deadline.

Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.



Heating Season Domestic Sales





Table 8 Export Sales

Table 8. Export sales and average price of densified biomass fuel, 2019



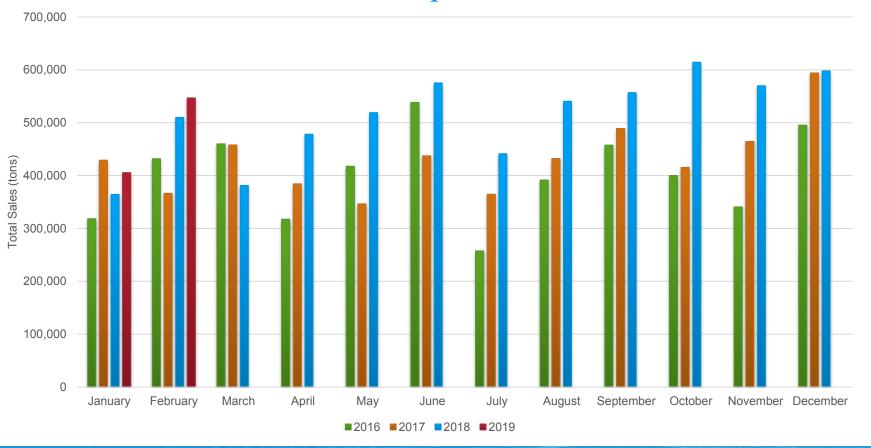
Month	Quantity (tons)	Average price (USD per ton)
January	405,553	\$157.58
February	547,080	\$167.69

Note: Wood pellets premium/standard includes: Premium bagged, Premium bulk, Standard bagged, Standard bulk, and other; Wood pellets, utility includes: Utility bulk.

N/A = No production; W = Withheld to avoid disclosure of individual company data.

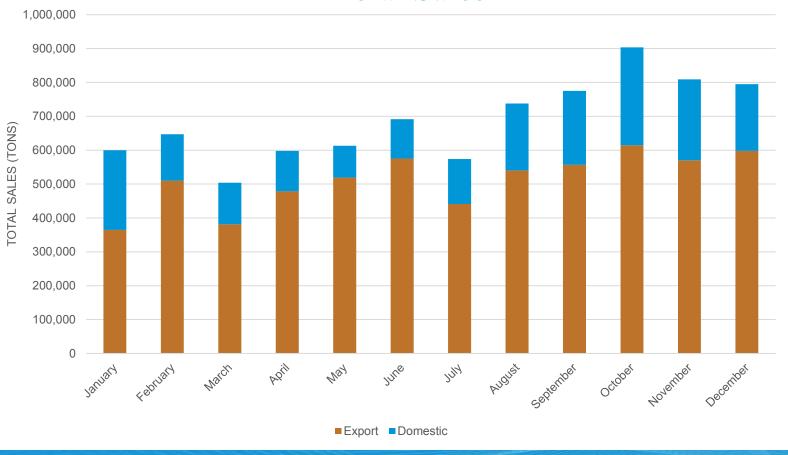
Source: U.S. Energy Information Administration Form EIA-63C, Densified Biomass Fuel Report.

Total Export Sales





Total Sales





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