

Table 10.19 Percent of Establishments by Levels of Price Difference that Would Cause Fuel Switching from Residual Fuel Oil to a Less Expensive Substitute, 2014;

Level: National Data;
Row: NAICS Codes;
Column: Levels of Price Difference;
Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	Levels of Price Difference that Would Cause a Switch from Residual Fuel Oil(c)				Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
				1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent		
Total United States									
311	Food	23	W	9	W	0	W	7	0
3112	Grain and Oilseed Milling	W	0	W	W	0	0	W	0
311221	Wet Corn Milling	0	0	0	0	0	0	0	0
31131	Sugar Manufacturing	W	W	0	0	0	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Food	W	0	W	0	0	0	W	0
3115	Dairy Product	9	0	W	0	0	W	W	0
3116	Animal Slaughtering and Processing	W	0	W	0	0	0	0	0
312	Beverage and Tobacco Products	W	0	0	0	0	0	W	0
3121	Beverages	0	0	0	0	0	0	0	0
3122	Tobacco	W	0	0	0	0	0	W	0
313	Textile Mills	7	0	W	W	0	0	0	0
314	Textile Product Mills	0	0	0	0	0	0	0	0
315	Apparel	0	0	0	0	0	0	0	0
316	Leather and Allied Products	0	0	0	0	0	0	0	0
321	Wood Products	0	0	0	0	0	0	0	0
321113	Sawmills	0	0	0	0	0	0	0	0
3212	Veneer, Plywood, and Engineered Woods	0	0	0	0	0	0	0	0
321219	Reconstituted Wood Products	0	0	0	0	0	0	0	0
3219	Other Wood Products	0	0	0	0	0	0	0	0
322	Paper	37	7	21	W	0	W	W	W
322110	Pulp Mills	W	0	W	0	0	0	W	W
322121	Paper Mills, except Newsprint	14	W	W	0	0	0	W	0
322122	Newsprint Mills	0	0	0	0	0	0	0	0
322130	Paperboard Mills	18	W	9	W	0	W	W	0
323	Printing and Related Support	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	48	W	W	0	0	0	25	0
324110	Petroleum Refineries	6	W	W	0	0	0	W	0
324121	Asphalt Paving Mixture and Block	43	W	15	0	0	0	W	0
324122	Asphalt Shingle and Coating Materials	0	0	0	0	0	0	0	0
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0
325	Chemicals	6	W	W	0	W	0	0	0
325110	Petrochemicals	0	0	0	0	0	0	0	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	0	0	0	0	0	0	0	0
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0	0	0	0	0	0	0	0
325199	Other Basic Organic Chemicals	0	0	0	0	0	0	0	0
325211	Plastics Materials and Resins	W	W	W	0	0	0	0	0
325212	Synthetic Rubber	0	0	0	0	0	0	0	0
325220	Artificial and Synthetic Fibers and Filaments	W	0	W	0	0	0	0	0
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0
3254	Pharmaceuticals and Medicines	0	0	0	0	0	0	0	0
325412	Pharmaceutical Preparation	0	0	0	0	0	0	0	0
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	0	0	W	0	0	0
326	Plastics and Rubber Products	0	0	0	0	0	0	0	0
327	Nonmetallic Mineral Products	W	0	0	W	0	0	0	0
327120	Clay Building Material and Refractories	0	0	0	0	0	0	0	0
327211	Flat Glass	0	0	0	0	0	0	0	0
327212	Other Pressed and Blown Glass and Glassware	0	0	0	0	0	0	0	0
327213	Glass Containers	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	0	0	0	0	0	0	0	0
327310	Cements	W	0	0	W	0	0	0	0
327410	Lime	0	0	0	0	0	0	0	0
327420	Gypsum	0	0	0	0	0	0	0	0
327993	Mineral Wool	0	0	0	0	0	0	0	0
331	Primary Metals	W	W	0	0	0	0	W	0
331110	Iron and Steel Mills and Ferroalloys	W	0	0	0	0	0	W	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	W	W	0	0	0	0	0	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	W	W	0	0	0	0	0	0
331318	Other Aluminum Rolling, Drawing and Extruding	0	0	0	0	0	0	0	0
3314	Nonferrous Metals, except Aluminum	0	0	0	0	0	0	0	0
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	0	0	0	0	0	0	0	0
3315	Foundries	0	0	0	0	0	0	0	0
331511	Iron Foundries	0	0	0	0	0	0	0	0
331523	Nonferrous Metal Die-Casting Foundries	0	0	0	0	0	0	0	0
331524	Aluminum Foundries, except Die-Casting	0	0	0	0	0	0	0	0
332	Fabricated Metal Products	0	0	0	0	0	0	0	0
333	Machinery	0	0	0	0	0	0	0	0
334	Computer and Electronic Products	0	0	0	0	0	0	0	0
334413	Semiconductors and Related Devices	0	0	0	0	0	0	0	0
335	Electrical Equip., Appliances, and Components	0	0	0	0	0	0	0	0
336	Transportation Equipment	0	0	0	0	0	0	0	0
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	0	0	0	0	0	0	0	0
3364	Aerospace Product and Parts	0	0	0	0	0	0	0	0
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	0	0	0	0	0	0	0	0
339	Miscellaneous	0	0	0	0	0	0	0	0
	Total	126	17	57	6	W	W	39	W

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).
 (b) This count includes only those establishments that reported this activity in 2014.
 (c) These levels of price difference were guestimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

* 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. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'

Released: February 2018
 Next MECS will be fielded in 2019

RSE Table 10.19 Relative Standard Errors for Table 10.19;
 Unit: Percents.

		Levels of Price Difference that Would Cause a Switch from Residual Fuel Oil(c)							
NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent	Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
Total United States									
311	Food	15.0	0.1	29.0	56.6	X	34.6	20.1	X
3112	Grain and Oilseed Milling	36.5	X	63.6	56.6	X	X	63.6	X
311221	Wet Corn Milling	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	0.1	0.1	X	X	X	X	0.1	X
3114	Fruit and Vegetable Preserving and Specialty Food	9.2	X	9.2	X	X	X	9.2	X
3115	Dairy Product	29.2	X	52.3	X	X	34.6	7.1	X
3116	Animal Slaughtering and Processing	7.1	X	7.1	X	X	X	X	X
312	Beverage and Tobacco Products	0.1	X	X	X	X	X	0.1	X
3121	Beverages	X	X	X	X	X	X	X	X
3122	Tobacco	0.1	X	X	X	X	X	0.1	X
313	Textile Mills	46.9	X	59.9	9.9	X	X	X	X
314	Textile Product Mills	X	X	X	X	X	X	X	X
315	Apparel	X	X	X	X	X	X	X	X
316	Leather and Allied Products	X	X	X	X	X	X	X	X
321	Wood Products	X	X	X	X	X	X	X	X
321113	Sawmills	X	X	X	X	X	X	X	X
3212	Veneer, Plywood, and Engineered Woods	X	X	X	X	X	X	X	X
321219	Reconstituted Wood Products	X	X	X	X	X	X	X	X
3219	Other Wood Products	X	X	X	X	X	X	X	X
322	Paper	0.7	0.1	1.3	0.0	X	0.1	0.0	0.0
322110	Pulp Mills	0.0	X	0.0	X	X	X	0.0	0.0
322121	Paper Mills, except Newsprint	0.1	0.1	0.1	X	X	0.1	X	X
322122	Newsprint Mills	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	X	0.0	0.0	X
323	Printing and Related Support	X	X	X	X	X	X	X	X
324	Petroleum and Coal Products	15.0	65.3	24.9	X	X	X	16.1	X
324110	Petroleum Refineries	36.2	36.2	36.2	X	X	X	36.2	X
324121	Asphalt Paving Mixture and Block	16.3	79.1	28.1	X	X	X	17.4	X
324122	Asphalt Shingle and Coating Materials	X	X	X	X	X	X	X	X
324199	Other Petroleum and Coal Products	X	X	X	X	X	X	X	X
325	Chemicals	5.5	8.1	2.5	X	25.5	X	X	X
325110	Petrochemicals	X	X	X	X	X	X	X	X
325120	Industrial Gases	X	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	X	X	X	X	X	X	X	X
325193	Ethyl Alcohol	X	X	X	X	X	X	X	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	X	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	X	X	X	X	X	X	X	X
325211	Plastics Materials and Resins	8.1	8.1	8.1	X	X	X	X	X
325212	Synthetic Rubber	X	X	X	X	X	X	X	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	X	0.0	X	X	X	X	X
325311	Nitrogenous Fertilizers	X	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	0.0	X	0.0	X	X	X	X	X
3254	Pharmaceuticals and Medicines	X	X	X	X	X	X	X	X
325412	Pharmaceutical Preparation	X	X	X	X	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	25.5	X	X	X	25.5	X	X	X
326	Plastics and Rubber Products	X	X	X	X	X	X	X	X
327	Nonmetallic Mineral Products	31.9	X	X	31.9	X	X	X	X
327120	Clay Building Material and Refractories	X	X	X	X	X	X	X	X
327211	Flat Glass	X	X	X	X	X	X	X	X
327212	Other Pressed and Blown Glass and Glassware	X	X	X	X	X	X	X	X
327213	Glass Containers	X	X	X	X	X	X	X	X
327215	Glass Products from Purchased Glass	X	X	X	X	X	X	X	X
327310	Cements	31.9	X	X	31.9	X	X	X	X
327410	Lime	X	X	X	X	X	X	X	X
327420	Gypsum	X	X	X	X	X	X	X	X
327993	Mineral Wool	X	X	X	X	X	X	X	X
331	Primary Metals	9.4	21.4	X	X	X	X	3.3	X
331110	Iron and Steel Mills and Ferroalloys	3.3	X	X	X	X	X	3.3	X
3312	Steel Products from Purchased Steel	X	X	X	X	X	X	X	X
3313	Alumina and Aluminum	21.4	21.4	X	X	X	X	X	X
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	21.4	21.4	X	X	X	X	X	X
331318	Other Aluminum Rolling, Drawing and Extruding	X	X	X	X	X	X	X	X
3314	Nonferrous Metals, except Aluminum	X	X	X	X	X	X	X	X
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	X	X	X	X	X	X	X	X
3315	Foundries	X	X	X	X	X	X	X	X
331511	Iron Foundries	X	X	X	X	X	X	X	X
331523	Nonferrous Metal Die-Casting Foundries	X	X	X	X	X	X	X	X
331524	Aluminum Foundries, except Die-Casting	X	X	X	X	X	X	X	X
332	Fabricated Metal Products	X	X	X	X	X	X	X	X
333	Machinery	X	X	X	X	X	X	X	X
334	Computer and Electronic Products	X	X	X	X	X	X	X	X
334413	Semiconductors and Related Devices	X	X	X	X	X	X	X	X
335	Electrical Equip., Appliances, and Components	X	X	X	X	X	X	X	X
336	Transportation Equipment	X	X	X	X	X	X	X	X
336111	Automobiles	X	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	X	X	X	X	X	X	X	X
3364	Aerospace Product and Parts	X	X	X	X	X	X	X	X
336411	Aircraft	X	X	X	X	X	X	X	X
337	Furniture and Related Products	X	X	X	X	X	X	X	X
339	Miscellaneous	X	X	X	X	X	X	X	X
	Total	6.9	21.5	10.7	20.3	25.5	19.0	11.0	0.0

(a) The Bureau of the Census classifies establishments using the 2012 North American Industry Classification System (NAICS).

(b) This count includes only those establishments that reported this activity in 2014.

(c) These levels of price difference were guesstimates at which establishments perceived that they would switch. These levels were not actual values at which switching occurred. The percentage of price difference is computed as the quantity of (current fuel price minus alternative fuel price) divided by the current fuel price, expressed as a percent.

* 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.

Notes: Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: U.S. Energy Information Administration, Office of Energy Consumption and Efficiency Statistics, Form EIA-846, '2014 Manufacturing Energy Consumption Survey.'