

**Table 10.19 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Residual Fuel Oil to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

		Levels of Lowest 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	
<b>Total United States</b>										
311	Food	178	0	127	25	W	0	W	0	
3112	Grain and Oilseed Milling	8	0	W	0	0	0	W	0	
311221	Wet Corn Milling	0	0	0	0	0	0	0	0	
31131	Sugar Manufacturing	6	0	0	0	0	0	6	0	
3114	Fruit and Vegetable Preserving and Specialty Foods	10	0	6	W	W	0	0	0	
3115	Dairy Products	19	0	0	4	0	0	Q	0	
3116	Animal Slaughtering and Processing	Q	0	Q	Q	0	0	0	0	
312	Beverage and Tobacco Products	12	0	W	0	0	0	W	0	
3121	Beverages	8	0	8	0	0	0	0	0	
3122	Tobacco	4	0	W	0	0	0	W	0	
313	Textile Mills	90	0	90	0	0	0	0	0	
314	Textile Product Mills	10	W	W	0	0	0	Q	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	Q	W	0	W	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	
3219	Other Wood Products	Q	0	0	Q	0	0	0	0	
322	Paper	105	W	57	20	0	0	W	Q	
322110	Pulp Mills	5	0	W	0	0	0	W	0	
322121	Paper Mills, except Newsprint	46	W	30	W	0	0	0	0	
322122	Newsprint Mills	0	0	0	0	0	0	0	0	
322130	Paperboard Mills	37	0	22	W	0	0	9	W	
323	Printing and Related Support	0	0	0	0	0	0	0	0	
324	Petroleum and Coal Products	77	W	70	3	0	0	W	0	
324110	Petroleum Refineries	16	W	9	3	0	0	W	0	
324199	Other Petroleum and Coal Products	0	0	0	0	0	0	0	0	
325	Chemicals	54	W	34	9	4	0	W	Q	
325110	Petrochemicals	W	0	W	0	0	0	0	0	
325120	Industrial Gases	0	0	0	0	0	0	0	0	
325181	Alkalies and Chlorine	0	0	0	0	0	0	0	0	
325182	Carbon Black	W	0	W	0	0	0	0	0	
325188	Other Basic Inorganic Chemicals	4	0	4	0	0	0	0	0	
325192	Cyclic Crudes and Intermediates	W	W	0	0	0	0	0	0	
325193	Ethyl Alcohol	0	0	0	0	0	0	0	0	
325199	Other Basic Organic Chemicals	8	0	W	W	0	0	W	Q	
325211	Plastics Materials and Resins	4	0	W	0	W	0	0	0	
325212	Synthetic Rubber	3	0	W	0	W	0	0	0	
325222	Noncellulosic Organic Fibers	13	0	10	3	0	0	0	0	
325311	Nitrogenous Fertilizers	0	0	0	0	0	0	0	0	
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0	
3254	Pharmaceuticals and Medicines	Q	W	W	0	0	0	0	0	
325412	Pharmaceutical Preparation	Q	W	W	0	0	0	0	0	
325992	Photographic Film, Paper, Plate, and Chemicals	W	0	W	0	0	0	0	0	
326	Plastics and Rubber Products	55	0	27	0	0	0	0	Q	
327	Nonmetallic Mineral Products	Q	0	Q	W	W	0	W	0	
327211	Flat Glass	W	0	0	0	0	0	W	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	Q	0	0	W	W	0	0	0	
327410	Lime	W	0	W	0	0	0	W	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	5	0	3	0	0	0	3	0	

**Table 10.19 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Residual Fuel Oil to a Less Expensive Substitute, 2006;**  
**Level: National Data;**  
**Row: NAICS Codes;**  
**Column: Levels of Lowest Price Difference;**  
**Unit: Establishment Counts.**

		Levels of Lowest Price Difference that Would Cause a Switch from Residual Fuel Oil(c)						Estimate	Would Switch
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	Cannot Be Provided	to More Expensive Substitute
331111	Iron and Steel Mills	W	0	W	0	0	0	0	0
331112	Electrometallurgical Ferroalloy Products	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	0	0	0	0	0	0	0	0
3313	Alumina and Aluminum	3	0	0	0	0	0	3	0
331314	Secondary Smelting and Alloying of Aluminum	0	0	0	0	0	0	0	0
331315	Aluminum Sheet, Plate and Foils	0	0	0	0	0	0	0	0
331316	Aluminum Extruded Products	W	0	0	0	0	0	W	0
3314	Nonferrous Metals, except Aluminum	W	0	W	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
331521	Aluminum 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	Q	0	Q	0	0	0	0	0
334	Computer and Electronic Products	6	0	6	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	18	0	Q	W	0	0	W	0
336111	Automobiles	W	0	W	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	0	0	W	0	0	0	0
3364	Aerospace Product and Parts	5	0	W	0	0	0	W	0
336411	Aircraft	0	0	0	0	0	0	0	0
337	Furniture and Related Products	Q	0	0	0	0	0	Q	0
339	Miscellaneous	Q	0	W	0	0	0	0	0
	Total	839	11	510	93	9	0	Q	Q

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

(b) This count includes only those establishments that reported this activity in 2006.

(c) These levels of price difference were estimates 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.

NF=No applicable RSE row/column factor.

\* 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: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. 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: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'

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

## Levels of Lowest 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
<b>Total United States</b>									
311	Food	28.7	X	38.5	49.5	5.4	X	36.6	X
3112	Grain and Oilseed Milling	29.6	X	30.7	X	X	X	68.3	X
311221	Wet Corn Milling	X	X	X	X	X	X	X	X
31131	Sugar Manufacturing	0.0	X	X	X	X	X	0.0	X
3114	Fruit and Vegetable Preserving and Specialty Foods	21.4	X	29.1	41.9	5.4	X	X	X
3115	Dairy Products	47.5	X	X	31.5	X	X	61.5	X
3116	Animal Slaughtering and Processing	50.3	X	76.9	66.3	X	X	X	X
312	Beverage and Tobacco Products	10.6	X	12.0	X	X	X	0.0	X
3121	Beverages	16.0	X	16.0	X	X	X	X	X
3122	Tobacco	0.0	X	0.0	X	X	X	0.0	X
313	Textile Mills	38.0	X	38.0	X	X	X	X	X
314	Textile Product Mills	34.0	29.5	32.3	X	X	X	61.5	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	75.5	15.0	X	79.2	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
3219	Other Wood Products	79.2	X	X	79.2	X	X	X	X
322	Paper	9.6	2.5	1.3	1.8	X	X	0.0	64.1
322110	Pulp Mills	0.0	X	0.0	X	X	X	0.0	X
322121	Paper Mills, except Newsprint	2.5	2.5	2.5	2.5	X	X	X	X
322122	Newsprint Mills	X	X	X	X	X	X	X	X
322130	Paperboard Mills	0.0	X	0.0	0.0	X	X	0.0	0.0
323	Printing and Related Support	X	X	X	X	X	X	X	X
324	Petroleum and Coal Products	33.3	0.0	36.8	0.0	X	X	0.0	X
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	X	X	0.0	X
324199	Other Petroleum and Coal Products	X	X	X	X	X	X	X	X
325	Chemicals	16.4	6.4	21.4	49.0	3.3	X	5.7	54.0
325110	Petrochemicals	0.0	X	0.0	X	X	X	X	X
325120	Industrial Gases	X	X	X	X	X	X	X	X
325181	Alkalies and Chlorine	X	X	X	X	X	X	X	X
325182	Carbon Black	0.0	X	0.0	X	X	X	X	X
325188	Other Basic Inorganic Chemicals	33.6	X	33.6	X	X	X	X	X
325192	Cyclic Crudes and Intermediates	0.0	0.0	X	X	X	X	X	X
325193	Ethyl Alcohol	X	X	X	X	X	X	X	X
325199	Other Basic Organic Chemicals	18.3	X	5.7	5.7	5.7	X	5.7	54.0
325211	Plastics Materials and Resins	8.4	X	8.4	X	8.4	X	X	X
325212	Synthetic Rubber	0.0	X	0.0	X	0.0	X	X	X

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

## Levels of Lowest 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
325222	Noncellulosic Organic Fibers	0.0	X	0.0	0.0	X	X	X	X
325311	Nitrogenous Fertilizers	X	X	X	X	X	X	X	X
325312	Phosphatic Fertilizers	X	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	62.3	10.8	71.5	X	X	X	X	X
325412	Pharmaceutical Preparation	62.3	10.8	71.5	X	X	X	X	X
325992	Photographic Film, Paper, Plate, and Chemicals	6.9	X	6.9	X	X	X	X	X
326	Plastics and Rubber Products	49.2	X	40.3	X	X	X	X	88.1
327	Nonmetallic Mineral Products	69.0	X	85.2	11.7	86.7	X	0.0	X
327211	Flat Glass	0.0	X	X	X	X	X	0.0	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	56.0	X	X	11.7	86.7	X	X	X
327410	Lime	0.0	X	0.0	X	X	X	0.0	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	2.7	X	4.7	X	X	X	2.8	X
331111	Iron and Steel Mills	0.0	X	0.0	X	X	X	X	X
331112	Electrometallurgical Ferroalloy Products	X	X	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	X	X	X	X	X	X	X	X
3313	Alumina and Aluminum	2.8	X	X	X	X	X	2.8	X
331314	Secondary Smelting and Alloying of Aluminum	X	X	X	X	X	X	X	X
331315	Aluminum Sheet, Plate and Foils	X	X	X	X	X	X	X	X
331316	Aluminum Extruded Products	6.6	X	X	X	X	X	6.6	X
3314	Nonferrous Metals, except Aluminum	10.6	X	10.6	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
331521	Aluminum 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	90.4	X	90.4	X	X	X	X	X
334	Computer and Electronic Products	45.5	X	45.5	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	45.0	X	52.4	0.0	X	X	10.1	X
336111	Automobiles	1.4	X	1.4	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	X	0.0	X	X	X	X
3364	Aerospace Product and Parts	10.1	X	10.1	X	X	X	10.1	X
336411	Aircraft	X	X	X	X	X	X	X	X
337	Furniture and Related Products	86.5	X	X	X	X	X	86.5	X
339	Miscellaneous	78.9	X	77.8	X	X	X	X	X

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

Levels of Lowest 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	14.2	6.9	15.1	31.1	34.8	X	55.3	57.8

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\* Estimate less than 0.5.

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

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. 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.

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