

Table 10.15 Percent of Establishments by Levels of Price Difference that Would Cause Fuel Switching from Natural Gas 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)	Levels of Price Difference that Would Cause a Switch from Natural Gas(c)					Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
			Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent		
Total United States									
311	Food	997	202	57	207	117	Q	295	17
3112	Grain and Oilseed Milling	126	16	W	31	Q	W	13	W
311221	Wet Corn Milling	9	W	0	W	W	0	0	0
31131	Sugar Manufacturing	7	W	0	0	0	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Food	104	15	23	W	W	W	W	W
3115	Dairy Product	147	31	W	39	W	16	31	W
3116	Animal Slaughtering and Processing	189	15	W	23	45	W	82	13
312	Beverage and Tobacco Products	97	32	Q	7	6	W	14	W
3121	Beverages	76	Q	Q	W	W	W	W	W
3122	Tobacco	20	6	0	W	W	W	W	0
313	Textile Mills	165	10	Q	Q	Q	W	W	W
314	Textile Product Mills	Q	W	W	24	W	W	6	0
315	Apparel	Q	0	0	W	W	W	0	0
316	Leather and Allied Products	8	W	0	0	W	W	W	0
321	Wood Products	505	W	W	68	Q	10	126	W
321113	Sawmills	27	W	0	5	W	W	W	W
3212	Veneer, Plywood, and Engineered Woods	91	7	Q	Q	W	3	7	W
321219	Reconstituted Wood Products	13	W	0	W	W	3	W	0
3219	Other Wood Products	376	Q	W	26	Q	W	W	0
322	Paper	262	27	Q	58	16	Q	25	7
322110	Pulp Mills	11	W	W	0	W	W	W	0
322121	Paper Mills, except Newsprint	50	15	W	18	7	W	4	W
322122	Newsprint Mills	W	W	0	0	0	0	0	0
322130	Paperboard Mills	58	W	19	12	W	W	7	W
323	Printing and Related Support	743	340	W	317	W	W	W	0
324	Petroleum and Coal Products	364	61	58	97	83	W	44	W
324110	Petroleum Refineries	41	3	W	W	W	W	16	0
324121	Asphalt Paving Mixture and Block	291	47	41	89	79	W	19	W
324122	Asphalt Shingle and Coating Materials	23	W	W	0	W	W	W	0
324199	Other Petroleum and Coal Products	W	0	0	W	0	0	W	0
325	Chemicals	757	328	121	99	49	18	132	10
325110	Petrochemicals	8	0	W	4	W	0	W	0
325120	Industrial Gases	0	0	0	0	0	0	0	0
325180	Other Basic Inorganic Chemicals	90	Q	W	Q	W	W	W	W
325193	Ethyl Alcohol	22	W	5	0	14	0	W	0
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	7	W	W	0	W	0	0	0
325199	Other Basic Organic Chemicals	61	Q	8	23	4	0	13	0
325211	Plastics Materials and Resins	75	Q	Q	3	Q	6	27	0
325212	Synthetic Rubber	13	W	0	0	0	W	7	0
325220	Artificial and Synthetic Fibers and Filaments	20	W	W	10	W	W	0	0
325311	Nitrogenous Fertilizers	Q	W	W	0	0	0	0	0
325312	Phosphatic Fertilizers	0	0	0	0	0	0	0	0
3254	Pharmaceuticals and Medicines	121	27	W	19	4	W	30	W
325412	Pharmaceutical Preparation	42	13	4	W	W	W	12	W
325992	Photographic Film, Paper, Plate, and Chemicals	9	0	0	0	W	3	W	0
326	Plastics and Rubber Products	792	Q	W	Q	W	W	Q	W
327	Nonmetallic Mineral Products	560	79	Q	Q	23	11	94	0
327120	Clay Building Material and Refractories	25	W	W	7	W	W	7	0
327211	Flat Glass	8	W	0	W	W	W	W	0
327212	Other Pressed and Blown Glass and Glassware	Q	5	0	W	W	W	Q	0
327213	Glass Containers	W	0	0	0	0	0	W	0
327215	Glass Products from Purchased Glass	76	Q	0	Q	W	W	15	0
327310	Cements	28	0	11	W	W	0	11	0
327410	Lime	W	0	0	W	0	0	0	0
327420	Gypsum	W	W	0	W	W	0	0	0
327993	Mineral Wool	10	W	0	W	0	0	W	0
331	Primary Metals	183	55	12	27	24	8	54	4
331110	Iron and Steel Mills and Ferroalloys	30	W	W	W	W	0	9	0
3312	Steel Products from Purchased Steel	15	W	0	W	W	0	0	0
3313	Alumina and Aluminum	38	W	0	9	0	W	16	0
331314	Secondary Smelting and Alloying of Aluminum	6	0	0	W	0	0	W	0
331315	Aluminum Sheet, Plate and Foils	W	W	0	W	0	0	W	0
331318	Other Aluminum Rolling, Drawing and Extruding	26	6	0	4	0	W	W	0
3314	Nonferrous Metals, except Aluminum	32	W	W	W	W	W	Q	W
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	6	0	W	0	W	0	W	0
3315	Foundries	68	20	W	7	14	W	14	W
331511	Iron Foundries	15	W	W	W	W	0	W	W
331523	Nonferrous Metal Die-Casting Foundries	15	W	W	0	7	W	0	0
331524	Aluminum Foundries, except Die-Casting	13	W	0	W	0	0	0	0
332	Fabricated Metal Products	904	W	W	W	W	W	Q	0
333	Machinery	917	Q	Q	W	W	W	332	W
334	Computer and Electronic Products	608	Q	0	Q	Q	W	Q	W
334413	Semiconductors and Related Devices	17	10	0	W	W	W	W	0
335	Electrical Equip., Appliances, and Components	Q	W	0	W	W	0	Q	0
336	Transportation Equipment	550	Q	0	22	Q	W	Q	W
336111	Automobiles	0	0	0	0	0	0	0	0
336112	Light Trucks and Utility Vehicles	W	0	0	0	0	0	W	0
3364	Aerospace Product and Parts	Q	Q	0	W	W	W	5	Q
336411	Aircraft	5	W	0	W	0	0	W	W
337	Furniture and Related Products	199	0	Q	Q	W	0	W	0
339	Miscellaneous	341	W	W	0	0	0	Q	W
	Total	9,227	2,384	802	1,863	1,061	655	2,211	253

(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.

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.'

RSE Table 10.15 Relative Standard Errors for Table 10.15;

Unit: Percents.

NAICS Code(a)	Subsector and Industry	Establishments Able to Switch(b)	Levels of Price Difference that Would Cause a Switch from Natural Gas(c)					Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
			Would Not Switch Due to Price	1 to 10 Percent	11 to 25 Percent	26 to 50 Percent	Over 50 Percent		
Total United States									
311	Food	17.1	42.8	12.0	39.0	26.2	77.1	31.6	17.2
3112	Grain and Oilseed Milling	21.0	20.2	24.4	32.4	55.7	9.1	14.6	9.1
311221	Wet Corn Milling	0.0	0.0	X	0.0	0.0	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	34.6	41.8	20.1	23.7	9.2	9.2	75.1	51.9
3115	Dairy Product	14.8	46.5	13.5	20.3	41.7	48.5	20.7	7.1
3116	Animal Slaughtering and Processing	14.7	34.6	30.7	22.9	27.5	54.2	25.9	21.8
312	Beverage and Tobacco Products	30.7	49.3	86.3	3.4	17.7	42.8	17.5	78.8
3121	Beverages	38.8	60.6	86.3	7.0	21.9	74.3	37.3	78.8
3122	Tobacco	0.1	0.1	X	0.1	0.1	0.1	0.1	X
313	Textile Mills	28.5	36.0	71.5	51.8	65.9	91.7	71.8	84.4
314	Textile Product Mills	59.6	70.7	85.2	48.3	16.9	16.9	41.9	X
315	Apparel	59.5	X	X	42.6	99.2	88.0	X	X
316	Leather and Allied Products	27.1	14.6	X	X	63.4	14.6	33.7	X
321	Wood Products	25.1	55.0	62.5	43.2	61.7	9.4	45.8	70.2
321113	Sawmills	28.5	5.5	X	33.8	76.4	14.5	5.5	5.5
3212	Veneer, Plywood, and Engineered Woods	33.7	27.4	54.6	73.8	57.2	17.7	42.3	86.7
321219	Reconstituted Wood Products	21.3	33.6	X	17.7	17.7	17.7	17.7	X
3219	Other Wood Products	32.7	59.7	95.4	43.1	86.1	7.6	52.1	X
322	Paper	31.3	0.1	69.1	39.0	0.1	58.0	35.7	0.1
322110	Pulp Mills	0.0	0.0	0.0	X	0.0	0.0	0.0	X
322121	Paper Mills, except Newsprint	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
322122	Newsprint Mills	0.0	0.0	X	X	X	X	X	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
323	Printing and Related Support	30.5	47.2	63.5	49.1	5.3	82.5	39.5	X
324	Petroleum and Coal Products	7.2	13.1	17.1	10.1	17.3	35.7	15.9	26.0
324110	Petroleum Refineries	36.2	36.2	36.2	36.2	36.2	36.2	36.2	X
324121	Asphalt Paving Mixture and Block	7.3	16.5	20.5	10.9	18.1	4.2	18.9	26.0
324122	Asphalt Shingle and Coating Materials	12.7	12.3	4.0	X	42.1	55.7	4.0	X
324199	Other Petroleum and Coal Products	0.0	X	X	0.0	X	X	0.0	X
325	Chemicals	17.0	34.6	39.1	23.4	15.2	8.1	22.0	39.7
325110	Petrochemicals	26.6	X	26.6	26.6	26.6	X	26.6	X
325120	Industrial Gases	X	X	X	X	X	X	X	X
325180	Other Basic Inorganic Chemicals	32.8	51.3	12.7	68.2	66.1	24.1	75.7	29.5
325193	Ethyl Alcohol	11.5	50.1	18.1	X	13.3	X	7.3	X
325194	Cyclic Crudes, Intermediate and Gum and Wood Chemicals	0.0	0.0	0.0	X	0.0	X	X	X
325199	Other Basic Organic Chemicals	23.8	59.9	30.3	35.6	12.4	X	48.1	X
325211	Plastics Materials and Resins	24.1	57.4	64.1	8.1	54.8	17.4	42.6	X
325212	Synthetic Rubber	0.0	0.0	X	X	X	0.0	0.0	X
325220	Artificial and Synthetic Fibers and Filaments	0.0	0.0	0.0	0.0	0.0	0.0	X	X
325311	Nitrogenous Fertilizers	94.0	96.7	22.9	X	X	X	X	X
325312	Phosphatic Fertilizers	X	X	X	X	X	X	X	X
3254	Pharmaceuticals and Medicines	26.9	17.4	87.5	41.9	11.6	17.6	14.1	63.9
325412	Pharmaceutical Preparation	15.1	19.3	13.9	22.7	13.9	17.6	14.4	13.9
325992	Photographic Film, Paper, Plate, and Chemicals	25.5	X	X	X	25.5	25.5	25.5	X
326	Plastics and Rubber Products	25.9	53.2	46.4	62.5	92.7	73.4	51.7	99.2
327	Nonmetallic Mineral Products	28.7	45.4	78.1	51.8	38.3	26.2	39.4	X
327120	Clay Building Material and Refractories	16.7	8.3	8.3	26.5	8.3	52.1	26.6	X
327211	Flat Glass	0.0	0.0	X	0.0	0.0	0.0	0.0	X
327212	Other Pressed and Blown Glass and Glassware	67.7	21.2	X	21.2	21.2	21.2	86.1	X
327213	Glass Containers	0.0	X	X	X	X	X	0.0	X
327215	Glass Products from Purchased Glass	34.8	53.0	X	59.6	23.7	55.8	43.4	X
327310	Cements	32.1	X	32.1	31.9	31.9	X	33.0	X
327410	Lime	0.0	X	X	0.0	X	X	X	X
327420	Gypsum	17.3	17.3	X	17.3	17.3	X	X	X
327993	Mineral Wool	34.3	24.9	X	24.9	X	X	38.9	X
331	Primary Metals	10.7	25.8	21.7	4.9	18.4	29.6	22.4	9.3
331110	Iron and Steel Mills and Ferroalloys	35.2	78.1	3.3	3.3	3.3	X	3.3	X
3312	Steel Products from Purchased Steel	44.3	67.3	X	12.1	12.1	X	X	X
3313	Alumina and Aluminum	18.8	18.9	X	7.5	X	42.9	48.2	X
331314	Secondary Smelting and Alloying of Aluminum	0.1	X	X	0.1	X	X	0.1	X
331315	Aluminum Sheet, Plate and Foils	21.4	21.4	X	21.4	X	X	21.4	X
331318	Other Aluminum Rolling, Drawing and Extruding	27.3	21.7	X	16.6	X	42.9	75.8	X
3314	Nonferrous Metals, except Aluminum	27.8	34.3	37.4	18.6	26.1	10.4	53.0	10.4
331410	Nonferrous Metal (except Aluminum) Smelting and Refining	37.4	X	37.4	X	37.4	X	37.4	X
3315	Foundries	14.6	27.8	27.5	10.3	30.4	21.5	32.5	13.1
331511	Iron Foundries	25.5	18.5	53.7	18.5	18.5	X	31.4	18.5
331523	Nonferrous Metal Die-Casting Foundries	33.5	85.7	9.6	X	47.4	21.5	X	X
331524	Aluminum Foundries, except Die-Casting	32.6	43.8	X	16.0	X	X	X	X
332	Fabricated Metal Products	40.2	99.6	78.1	94.7	99.4	99.6	71.4	X
333	Machinery	25.9	57.3	76.2	70.0	99.1	96.6	43.5	4.1
334	Computer and Electronic Products	31.5	57.6	X	81.1	91.9	20.1	59.3	96.5
334413	Semiconductors and Related Devices	20.1	20.1	X	20.1	20.1	20.1	20.1	X
335	Electrical Equip., Appliances, and Components	60.1	9.9	X	73.6	9.9	X	79.5	X
336	Transportation Equipment	32.8	52.1	X	45.7	62.5	11.9	83.5	56.0
336111	Automobiles	X	X	X	X	X	X	X	X
336112	Light Trucks and Utility Vehicles	0.0	X	X	X	X	X	0.0	X
3364	Aerospace Product and Parts	50.2	78.8	X	77.4	11.9	11.9	34.9	67.3
336411	Aircraft	25.8	25.8	X	25.8	X	X	25.8	25.8
337	Furniture and Related Products	47.8	X	59.2	85.9	83.2	X	74.0	X
339	Miscellaneous	44.9	71.4	78.4	X	X	X	61.4	85.5
	Total	7.6	15.7	21.7	17.4	20.8	34.4	15.8	42.8

(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.

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.'