

**Table 10.15 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Natural Gas to a Less Expensive Substitute, 2006;**

Level: National Data;

Row: NAICS Codes;

Column: Levels of Lowest Price Difference;

Unit: Establishment Counts.

NAICS Code(a)	Subsector and Industry	Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(c)						Estimate Cannot Be Provided	Would Switch to More Expensive Substitute
		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		
<b>Total United States</b>									
311	Food	1,830	369	306	415	236	143	303	Q
3112	Grain and Oilseed Milling	90	Q	27	18	10	W	16	W
311221	Wet Corn Milling	11	W	3	W	0	W	3	0
31131	Sugar Manufacturing	13	W	0	0	0	0	W	0
3114	Fruit and Vegetable Preserving and Specialty Foods	153	Q	41	34	W	W	41	0
3115	Dairy Products	182	9	33	32	56	W	45	W
3116	Animal Slaughtering and Processing	361	Q	76	75	Q	Q	79	13
312	Beverage and Tobacco Products	118	13	Q	13	Q	4	14	0
3121	Beverages	94	Q	Q	9	Q	0	10	0
3122	Tobacco	24	4	5	4	3	4	4	0
313	Textile Mills	426	Q	136	157	0	Q	79	Q
314	Textile Product Mills	314	84	82	92	0	0	W	W
315	Apparel	237	Q	Q	Q	Q	0	3	0
316	Leather and Allied Products	42	0	0	Q	5	0	Q	0
321	Wood Products	509	90	24	45	Q	Q	182	Q
321113	Sawmills	75	4	3	6	6	Q	Q	Q
3212	Veneer, Plywood, and Engineered Woods	61	W	Q	11	0	Q	W	0
3219	Other Wood Products	352	83	10	11	Q	0	140	0
322	Paper	616	179	117	101	27	Q	123	17
322110	Pulp Mills	11	0	W	W	W	0	4	W
322121	Paper Mills, except Newsprint	95	9	29	39	7	W	7	W
322122	Newsprint Mills	5	0	W	0	0	0	W	0
322130	Paperboard Mills	76	7	33	18	0	0	13	3
323	Printing and Related Support	1,406	Q	Q	450	Q	Q	Q	Q
324	Petroleum and Coal Products	226	35	55	56	6	5	58	11
324110	Petroleum Refineries	66	9	25	12	0	3	13	4
324199	Other Petroleum and Coal Products	5	W	W	W	W	0	0	0
325	Chemicals	923	141	133	228	97	Q	252	4
325110	Petrochemicals	8	0	W	W	3	W	W	0
325120	Industrial Gases	53	W	0	W	0	0	0	0
325181	Alkalies and Chlorine	9	W	0	0	W	0	3	3
325182	Carbon Black	6	0	W	W	0	0	0	0
325188	Other Basic Inorganic Chemicals	73	Q	16	8	W	Q	W	0
325192	Cyclic Crudes and Intermediates	5	W	0	W	W	0	0	0
325193	Ethyl Alcohol	9	W	W	0	W	W	5	0
325199	Other Basic Organic Chemicals	63	14	11	10	5	3	20	0
325211	Plastics Materials and Resins	107	8	14	24	Q	8	Q	0
325212	Synthetic Rubber	20	W	4	6	3	0	3	W
325222	Noncellulosic Organic Fibers	32	0	15	11	0	0	6	0
325311	Nitrogenous Fertilizers	4	0	W	W	0	0	0	0
325312	Phosphatic Fertilizers	W	0	W	0	0	0	0	0
3254	Pharmaceuticals and Medicines	116	17	26	42	W	W	23	0
325412	Pharmaceutical Preparation	81	16	20	24	W	W	15	0
325992	Photographic Film, Paper, Plate, and Chemicals	25	4	3	9	0	0	3	0
326	Plastics and Rubber Products	1,377	197	153	446	119	Q	322	0
327	Nonmetallic Mineral Products	900	209	Q	102	183	Q	228	Q
327211	Flat Glass	18	6	W	3	W	0	4	0
327212	Other Pressed and Blown Glass and Glassware	26	Q	W	W	Q	0	4	0
327213	Glass Containers	19	0	0	6	W	0	8	0
327215	Glass Products from Purchased Glass	49	Q	0	4	W	0	9	4
327310	Cements	22	W	5	4	3	W	4	0
327410	Lime	4	W	W	0	0	0	0	0
327420	Gypsum	18	Q	0	0	0	0	10	0
327993	Mineral Wool	8	W	0	W	0	0	W	W
331	Primary Metals	387	61	46	79	30	49	107	7

**Table 10.15 Percent of Establishments by Levels of Lowest Price Difference that Would Cause Fuel Switching from Natural Gas 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 Natural Gas(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	43	4	W	9	4	W	17	W
331112	Electrometallurgical Ferroalloy Products	W	W	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	71	16	13	14	W	18	W	0
3313	Alumina and Aluminum	63	11	10	16	W	7	12	W
331314	Secondary Smelting and Alloying of Aluminum	8	0	0	4	0	0	4	0
331315	Aluminum Sheet, Plate and Foils	7	0	0	W	0	0	W	0
331316	Aluminum Extruded Products	22	6	W	W	Q	4	3	0
3314	Nonferrous Metals, except Aluminum	W	W	W	13	0	W	W	0
3315	Foundries	171	24	17	28	12	19	66	4
331511	Iron Foundries	46	13	10	7	Q	W	8	W
331521	Aluminum Die-Casting Foundries	29	3	3	Q	W	W	10	W
331524	Aluminum Foundries, except Die-Casting	34	4	4	4	W	Q	Q	W
332	Fabricated Metal Products	3,212	447	Q	480	Q	Q	1,221	318
333	Machinery	1,479	330	Q	262	310	Q	299	Q
334	Computer and Electronic Products	688	162	108	9	Q	148	195	W
334413	Semiconductors and Related Devices	60	23	5	W	0	19	8	W
335	Electrical Equip., Appliances, and Components	353	Q	73	54	81	0	109	0
336	Transportation Equipment	667	69	43	147	101	93	W	W
336111	Automobiles	14	4	4	W	W	0	W	0
336112	Light Trucks and Utility Vehicles	14	4	W	0	5	W	W	0
3364	Aerospace Product and Parts	120	3	11	Q	W	W	Q	W
336411	Aircraft	9	0	W	0	W	0	5	W
337	Furniture and Related Products	677	Q	Q	Q	Q	Q	Q	0
339	Miscellaneous	1,184	Q	0	Q	Q	Q	374	0
	Total	17,573	3,048	1,920	3,527	1,971	1,548	4,375	637

(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 10.15 Relative Standard Errors for Table 10.15;  
Unit: Percents.****Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(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	8.6	22.4	20.3	19.0	27.3	39.3	13.5	61.7
3112	Grain and Oilseed Milling	18.1	65.1	31.2	35.7	25.5	53.1	49.3	9.1
311221	Wet Corn Milling	0.0	0.0	0.0	0.0	X	0.0	0.0	X
31131	Sugar Manufacturing	0.0	0.0	X	X	X	X	0.0	X
3114	Fruit and Vegetable Preserving and Specialty Foods	22.4	62.4	48.6	26.1	5.4	20.4	49.4	X
3115	Dairy Products	12.0	21.2	42.4	13.6	30.4	3.2	5.8	3.2
3116	Animal Slaughtering and Processing	15.8	61.1	39.3	28.3	57.2	61.5	25.3	40.7
312	Beverage and Tobacco Products	29.4	37.3	53.7	11.9	51.8	0.0	24.9	X
3121	Beverages	37.1	55.1	58.8	17.5	65.9	X	35.5	X
3122	Tobacco	0.0	0.0	0.0	0.0	0.0	0.0	0.0	X
313	Textile Mills	15.5	56.7	29.9	26.8	X	73.0	36.2	71.4
314	Textile Product Mills	19.3	49.4	13.5	35.9	X	X	55.2	27.1
315	Apparel	39.9	73.9	68.2	55.4	71.4	X	6.8	X
316	Leather and Allied Products	47.8	X	X	59.6	35.8	X	63.9	X
321	Wood Products	15.3	36.4	28.0	23.4	50.1	54.2	28.6	59.5
321113	Sawmills	30.7	4.3	10.1	25.7	32.6	80.5	55.8	59.5
3212	Veneer, Plywood, and Engineered Woods	38.1	5.5	52.4	24.1	X	69.7	43.2	X
3219	Other Wood Products	19.8	39.6	33.6	25.9	56.2	X	34.3	X
322	Paper	10.2	24.3	10.8	16.0	38.5	51.0	28.4	31.2
322110	Pulp Mills	0.0	X	0.0	0.0	0.0	X	0.0	0.0
322121	Paper Mills, except Newsprint	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
322122	Newsprint Mills	0.0	X	0.0	X	X	X	0.0	X
322130	Paperboard Mills	0.0	0.0	0.0	0.0	0.0	X	0.0	0.0
323	Printing and Related Support	21.9	54.4	77.9	40.1	77.0	54.0	66.3	93.9
324	Petroleum and Coal Products	16.3	49.9	32.1	38.2	31.7	24.2	33.1	37.8
324110	Petroleum Refineries	0.0	0.0	0.0	0.0	X	0.0	0.0	0.0
324199	Other Petroleum and Coal Products	0.0	0.0	0.0	0.0	0.0	X	X	X
325	Chemicals	11.5	33.7	24.5	18.6	38.1	52.9	26.3	0.0
325110	Petrochemicals	0.0	X	0.0	0.0	0.0	0.0	0.0	X
325120	Industrial Gases	33.9	2.1	X	35.2	X	X	X	X
325181	Alkalies and Chlorine	0.0	0.0	X	X	0.0	X	0.0	0.0
325182	Carbon Black	0.0	X	0.0	0.0	X	X	X	X
325188	Other Basic Inorganic Chemicals	33.7	82.4	32.7	39.2	11.1	64.7	11.1	X
325192	Cyclic Crudes and Intermediates	0.0	0.0	X	0.0	0.0	X	X	X
325193	Ethyl Alcohol	0.0	0.0	0.0	X	0.0	0.0	0.0	X
325199	Other Basic Organic Chemicals	9.9	22.2	8.6	5.8	5.7	5.7	20.9	X
325211	Plastics Materials and Resins	24.5	49.6	17.4	49.1	65.8	44.2	63.6	X
325212	Synthetic Rubber	0.0	0.0	0.0	0.0	0.0	X	0.0	0.0

**RSE Table 10.15 Relative Standard Errors for Table 10.15;  
Unit: Percents.****Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(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	0.0	X
325311	Nitrogenous Fertilizers	0.0	X	0.0	0.0	X	X	X	X
325312	Phosphatic Fertilizers	0.0	X	X	0.0	X	X	X	X
3254	Pharmaceuticals and Medicines	14.1	29.1	30.5	22.0	56.9	10.8	13.9	X
325412	Pharmaceutical Preparation	16.5	31.7	39.1	15.7	77.1	10.8	12.3	X
325992	Photographic Film, Paper, Plate, and Chemicals	18.7	6.9	6.9	8.3	X	X	6.9	X
326	Plastics and Rubber Products	11.4	33.0	32.0	21.0	41.2	50.7	25.4	X
327	Nonmetallic Mineral Products	14.2	30.2	50.0	39.7	33.8	58.3	29.2	75.6
327211	Flat Glass	0.0	0.0	0.0	0.0	0.0	X	0.0	X
327212	Other Pressed and Blown Glass and Glassware	44.5	50.6	13.7	13.7	79.5	X	13.7	X
327213	Glass Containers	0.0	X	X	0.0	0.0	X	0.0	X
327215	Glass Products from Purchased Glass	33.1	53.9	X	7.8	7.8	X	37.0	48.4
327310	Cements	12.2	11.7	15.8	11.7	11.7	11.7	14.5	X
327410	Lime	0.0	0.0	0.0	X	X	X	X	X
327420	Gypsum	35.7	88.3	X	X	X	X	8.9	X
327993	Mineral Wool	11.5	11.5	X	11.5	X	X	11.5	11.5
331	Primary Metals	8.8	7.9	6.7	10.9	17.2	19.3	27.6	10.0
331111	Iron and Steel Mills	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
331112	Electrometallurgical Ferroalloy Products	0.0	0.0	X	X	X	X	X	X
3312	Steel Products from Purchased Steel	7.6	11.8	10.6	14.1	12.0	24.6	1.8	X
3313	Alumina and Aluminum	5.5	20.2	1.5	1.0	40.5	7.7	1.9	0.0
331314	Secondary Smelting and Alloying of Aluminum	0.0	X	X	0.0	X	X	0.0	X
331315	Aluminum Sheet, Plate and Foils	0.0	X	X	0.0	X	X	0.0	X
331316	Aluminum Extruded Products	15.5	34.9	6.6	6.6	56.3	14.4	6.6	X
3314	Nonferrous Metals, except Aluminum	26.5	34.1	10.6	16.4	X	10.6	47.9	X
3315	Foundries	18.7	15.2	15.8	28.8	36.6	44.6	44.2	17.6
331511	Iron Foundries	13.7	27.2	25.9	8.1	51.0	76.8	8.1	8.1
331521	Aluminum Die-Casting Foundries	25.9	12.9	12.9	75.1	12.9	12.9	12.9	46.8
331524	Aluminum Foundries, except Die-Casting	24.9	18.0	19.3	19.9	6.3	68.0	52.2	6.3
332	Fabricated Metal Products	14.3	39.6	50.1	38.9	55.5	68.1	24.0	48.0
333	Machinery	19.3	42.9	90.4	47.3	45.5	76.9	43.1	91.6
334	Computer and Electronic Products	16.3	33.5	43.4	42.3	78.2	36.5	32.1	1.8
334413	Semiconductors and Related Devices	11.5	20.0	1.8	1.8	X	28.1	6.1	1.8
335	Electrical Equip., Appliances, and Components	19.1	64.1	38.5	49.0	42.7	X	36.9	X
336	Transportation Equipment	15.1	49.0	29.8	34.9	41.2	44.7	30.3	0.0
336111	Automobiles	1.4	1.4	1.4	1.4	1.4	X	1.4	X
336112	Light Trucks and Utility Vehicles	0.0	0.0	0.0	X	0.0	0.0	0.0	X
3364	Aerospace Product and Parts	34.3	10.1	35.2	60.2	0.0	10.1	62.8	0.0
336411	Aircraft	0.0	X	0.0	X	0.0	X	0.0	0.0
337	Furniture and Related Products	29.4	86.5	83.0	59.6	60.9	86.5	77.3	X
339	Miscellaneous	23.2	52.2	X	63.1	65.4	65.4	42.7	X

**RSE Table 10.15 Relative Standard Errors for Table 10.15;  
Unit: Percents.**

Levels of Lowest Price Difference that Would Cause a Switch from Natural Gas(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	4.5	11.2	11.3	10.1	14.4	16.9	9.7	30.2

(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.

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

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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.'