

Appendices

- A. Relative Standard Error
- B. Major Disturbances and Unusual Occurrences
- C. Technical Notes

Appendix A

Relative Standard Error

Table A1.A. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	22	12	--	4	--	0	27	8	0	9	6
Connecticut.....	0	20	--	17	--	0	138	18	0	12	13
Maine.....	0	38	--	12	--	--	35	7	--	25	20
Massachusetts.....	41	12	--	6	--	0	78	14	0	13	11
New Hampshire.....	0	38	--	5	--	0	38	36	--	78	8
Rhode Island.....	--	637	--	6	--	--	1,189	35	--	--	20
Vermont.....	--	279	--	0	--	0	86	45	--	--	54
Middle Atlantic.....	14	13	161	3	21	0	9	9	0	8	2
New Jersey.....	19	40	--	7	53	0	408	11	0	17	8
New York.....	28	9	37	6	--	0	9	12	0	13	6
Pennsylvania.....	14	44	266	10	14	0	48	15	0	9	7
East North Central.....	5	20	20	8	11	0	39	11	0	19	3
Illinois.....	11	96	189	24	77	0	183	12	--	178	10
Indiana.....	3	19	--	25	11	--	52	29	--	28	7
Michigan.....	10	20	0	16	0	0	76	15	0	18	9
Ohio.....	3	37	24	22	33	0	89	24	--	0	4
Wisconsin.....	12	64	0	33	--	0	65	24	--	21	14
West North Central.....	7	46	0	25	100	0	19	14	0	33	7
Iowa.....	15	58	0	45	--	0	127	29	--	204	15
Kansas.....	0	125	0	83	--	0	932	1	--	--	23
Minnesota.....	19	138	0	52	--	0	101	16	--	38	17
Missouri.....	5	103	--	23	0	0	6	54	0	0	6
Nebraska.....	14	452	--	42	--	0	83	57	--	--	12
North Dakota.....	14	101	--	5,515	101	--	0	48	--	--	13
South Dakota.....	32	1,048	--	228	--	--	0	101	--	0	57
South Atlantic.....	4	9	0	6	0	0	17	16	0	8	4
Delaware.....	13	40	0	19	0	--	--	6	--	0	11
District of Columbia.....	--	0	--	--	--	--	--	--	--	--	0
Florida.....	7	8	0	8	0	0	202	25	--	9	6
Georgia.....	1	40	0	5	--	0	35	40	0	38	4
Maryland.....	9	22	--	23	0	0	15	9	--	3	7
North Carolina.....	11	80	--	14	--	0	31	42	0	56	9
South Carolina.....	11	80	0	17	0	0	51	2	0	30	10
Virginia.....	25	17	--	9	--	0	43	20	0	11	10
West Virginia.....	5	22	0	52	0	--	65	0	--	0	5
East South Central.....	2	49	0	12	84	0	16	25	0	56	7
Alabama.....	5	121	--	17	85	0	25	37	--	60	13
Kentucky.....	4	42	0	16	0	--	30	13	--	0	3
Mississippi.....	6	51	--	15	326	0	--	36	--	181	13
Tennessee.....	1	25	--	21	0	0	25	31	0	0	3
West South Central.....	1	93	24	7	8	0	9	23	0	23	6
Arkansas.....	2	24	94	12	--	0	12	29	0	35	8
Louisiana.....	2	38	35	16	11	0	0	50	--	27	15
Oklahoma.....	6	229	--	10	557	--	13	93	0	0	9
Texas.....	0	62	24	7	9	0	44	35	--	11	5
Mountain.....	5	78	0	9	63	0	5	12	0	64	5
Arizona.....	14	166	--	7	--	0	4	73	0	--	8
Colorado.....	8	493	--	29	0	--	36	49	0	44	14
Idaho.....	125	1,669	--	353	--	--	9	21	--	35	225
Montana.....	43	106	0	510	0	--	8	70	--	--	46
Nevada.....	0	154	--	23	0	--	5	5	--	--	19
New Mexico.....	1	258	--	45	--	--	103	72	--	--	18
Utah.....	8	208	--	39	351	--	56	41	--	56	14
Wyoming.....	9	75	--	109	36	--	87	28	--	43	11
Pacific Contiguous.....	10	52	116	15	21	0	3	13	0	22	13
California.....	30	78	116	16	24	0	9	20	0	23	17
Oregon.....	0	203	--	38	0	--	4	17	--	93	24
Washington.....	0	73	--	51	0	0	1	9	0	74	8
Pacific Noncontiguous.....	18	11	--	26	401	--	36	15	--	0	13
Alaska.....	41	43	--	26	--	--	37	278	--	0	27
Hawaii.....	17	11	--	--	401	--	143	14	--	0	10

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Table A1.B. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	26	49	--	3	--	0	26	9	0	6	6
Connecticut.....	0	63	--	11	--	0	140	17	0	6	9
Maine.....	0	31	--	5	--	--	34	7	--	31	14
Massachusetts.....	47	111	--	5	--	0	78	14	0	6	11
New Hampshire.....	0	74	--	4	--	0	39	40	--	35	7
Rhode Island.....	--	840	--	5	--	--	1,162	30	--	--	12
Vermont.....	--	336	--	0	--	0	88	44	--	--	44
Middle Atlantic.....	14	82	150	3	31	0	8	7	0	6	2
New Jersey.....	25	57	--	6	91	0	370	9	0	9	7
New York.....	27	96	52	5	--	0	8	13	0	10	5
Pennsylvania.....	14	70	239	14	19	0	28	10	0	7	8
East North Central.....	4	19	40	10	19	0	38	9	0	27	2
Illinois.....	7	49	94	28	129	0	195	10	--	77	7
Indiana.....	2	11	--	49	19	--	61	24	--	65	6
Michigan.....	9	17	0	18	0	0	75	14	0	20	8
Ohio.....	3	30	26	131	51	0	98	54	--	0	4
Wisconsin.....	12	115	70	30	--	0	58	17	--	51	11
West North Central.....	9	57	0	33	152	0	16	9	0	20	9
Iowa.....	14	89	0	76	--	0	142	18	--	133	13
Kansas.....	0	63	0	71	--	0	925	*	--	--	24
Minnesota.....	42	157	0	58	--	0	86	11	--	22	31
Missouri.....	5	90	--	26	0	0	5	44	0	0	5
Nebraska.....	11	733	--	28	--	0	76	36	--	--	12
North Dakota.....	14	56	--	4,915	156	--	0	32	--	--	14
South Dakota.....	36	1,636	--	456	--	--	0	31	--	0	61
South Atlantic.....	4	7	0	6	0	0	13	19	0	13	6
Delaware.....	15	60	0	23	0	--	--	4	--	0	14
District of Columbia.....	--	0	--	--	--	--	--	--	--	--	0
Florida.....	6	6	0	6	0	0	197	27	--	5	6
Georgia.....	2	48	0	14	--	0	31	44	0	64	9
Maryland.....	10	66	--	33	0	0	5	7	--	7	9
North Carolina.....	10	46	--	45	--	0	26	46	0	111	12
South Carolina.....	12	33	0	24	0	0	45	6	0	36	14
Virginia.....	23	30	--	21	--	0	34	20	0	14	14
West Virginia.....	5	13	0	84	0	--	38	0	--	0	5
East South Central.....	2	37	0	22	84	0	15	26	0	65	13
Alabama.....	4	80	--	39	86	0	23	37	--	35	23
Kentucky.....	4	47	0	43	0	--	21	10	--	0	4
Mississippi.....	6	90	--	16	296	0	--	34	--	138	17
Tennessee.....	2	6	--	76	0	0	27	24	0	0	3
West South Central.....	4	55	20	8	10	0	8	25	0	31	8
Arkansas.....	1	22	70	11	--	0	12	25	0	25	9
Louisiana.....	3	20	27	12	10	0	0	53	--	36	15
Oklahoma.....	23	194	--	24	777	--	10	93	0	0	25
Texas.....	0	51	23	6	12	0	34	35	--	10	6
Mountain.....	5	52	0	5	65	0	5	8	0	128	5
Arizona.....	7	615	--	5	--	0	3	53	0	--	6
Colorado.....	11	138	--	15	0	--	24	42	0	44	12
Idaho.....	171	4,920	--	67	--	--	7	8	--	25	43
Montana.....	35	53	0	442	0	--	10	50	--	--	35
Nevada.....	0	30	--	12	0	--	3	5	--	--	10
New Mexico.....	1	106	--	24	--	--	72	62	--	--	16
Utah.....	8	180	--	24	321	--	38	35	--	121	11
Wyoming.....	10	60	--	77	40	--	80	11	--	31	11
Pacific Contiguous.....	9	40	115	7	20	0	2	14	0	23	7
California.....	36	33	115	8	23	0	5	23	0	19	12
Oregon.....	0	436	--	8	0	--	2	13	--	153	9
Washington.....	0	83	--	32	0	0	1	7	0	34	6
Pacific Noncontiguous.....	19	10	--	18	360	--	26	12	--	0	11
Alaska.....	32	25	--	18	--	--	27	160	--	0	20
Hawaii.....	32	11	--	--	360	--	78	12	--	0	11

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "**").

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Table A2.A. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	0	31	--	33	--	--	84	0	--	--	19
Connecticut.....	--	628	--	0	--	--	486	0	--	--	562
Maine.....	--	807	--	--	--	--	--	--	--	--	807
Massachusetts.....	--	157	--	34	--	--	185	--	--	--	104
New Hampshire.....	0	13	--	0	--	--	71	0	--	--	6
Rhode Island.....	--	413	--	--	--	--	--	--	--	--	413
Vermont.....	--	279	--	0	--	--	134	0	--	--	102
Middle Atlantic.....	622	7	--	14	--	--	5	--	0	--	13
New Jersey.....	1,056	242	--	867	--	--	--	--	0	--	267
New York.....	611	6	--	14	--	--	5	--	0	--	13
Pennsylvania.....	--	780	--	741	--	--	44	--	--	--	436
East North Central.....	5	19	6	23	0	0	42	17	0	8	5
Illinois.....	127	330	239	97	--	--	385	262	--	--	86
Indiana.....	3	15	--	57	--	--	52	32	--	--	6
Michigan.....	10	20	0	45	0	0	81	--	0	0	10
Ohio.....	5	32	--	72	0	--	89	210	--	--	7
Wisconsin.....	11	56	0	45	--	--	72	11	--	12	17
West North Central.....	6	46	0	26	0	0	19	19	0	42	7
Iowa.....	16	57	0	45	--	--	127	66	--	204	16
Kansas.....	0	125	0	72	--	0	--	2	--	--	22
Minnesota.....	17	140	0	85	--	0	129	35	--	53	21
Missouri.....	5	103	--	28	0	0	6	118	0	0	7
Nebraska.....	14	452	--	41	--	0	83	58	--	--	12
North Dakota.....	14	97	--	7,284	--	--	0	362	--	--	13
South Dakota.....	32	1,048	--	228	--	--	0	341	--	0	57
South Atlantic.....	2	6	0	2	--	0	20	3	0	0	2
Delaware.....	--	1,456	--	661	--	--	--	--	--	--	687
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	3	5	0	3	--	0	202	15	--	--	2
Georgia.....	0	28	--	7	--	0	35	--	0	--	2
Maryland.....	--	313	--	0	--	--	--	--	--	--	313
North Carolina.....	0	58	--	10	--	0	30	--	0	--	4
South Carolina.....	11	155	0	9	--	0	52	8	0	--	8
Virginia.....	19	17	--	0	--	0	42	0	0	--	7
West Virginia.....	5	24	--	0	--	--	151	0	--	0	5
East South Central.....	2	12	--	21	0	0	16	45	0	0	9
Alabama.....	3	20	--	46	--	0	25	--	--	--	19
Kentucky.....	3	20	--	11	0	--	30	45	--	0	3
Mississippi.....	4	17	--	23	--	0	--	--	--	--	16
Tennessee.....	0	22	--	0	--	0	26	278	0	--	2
West South Central.....	0	29	0	5	--	0	10	2	0	20	3
Arkansas.....	0	16	--	35	--	0	12	--	0	--	10
Louisiana.....	0	23	0	8	--	0	--	--	--	--	5
Oklahoma.....	0	943	--	4	--	--	13	0	0	--	3
Texas.....	0	915	0	7	--	--	43	192	--	20	5
Mountain.....	4	83	--	7	0	0	5	49	0	--	5
Arizona.....	14	166	--	10	--	0	4	75	0	--	10
Colorado.....	8	516	--	26	0	--	37	26	0	--	11
Idaho.....	--	2,345	--	460	--	--	10	--	--	--	1,100
Montana.....	449	1,827	--	1,207	--	--	7	--	--	--	378
Nevada.....	0	155	--	7	--	--	5	--	--	--	5
New Mexico.....	1	240	--	25	--	--	103	--	--	--	12
Utah.....	7	160	--	15	--	--	56	0	--	--	6
Wyoming.....	7	44	--	648	--	--	87	202	--	--	11
Pacific Contiguous.....	0	68	--	19	0	0	2	8	0	0	16
California.....	--	58	--	20	0	0	9	9	0	0	25
Oregon.....	0	0	--	88	0	--	4	33	--	--	5
Washington.....	--	439	--	150	--	0	1	24	0	--	72
Pacific Noncontiguous.....	2	10	--	25	--	--	37	288	--	0	15
Alaska.....	2	43	--	25	--	--	37	292	--	0	29
Hawaii.....	--	10	--	--	--	--	321	0	--	--	10

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Table A2.B. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	0	110	--	32	--	--	82	0	--	--	33
Connecticut.....	--	2,271	--	0	--	--	507	0	--	--	566
Maine.....	--	2,834	--	--	--	--	--	--	--	--	2,834
Massachusetts.....	--	5,082	--	33	--	--	235	--	--	--	124
New Hampshire.....	0	87	--	0	--	--	55	0	--	--	7
Rhode Island.....	--	404	--	--	--	--	--	--	--	--	404
Vermont.....	--	336	--	0	--	--	137	0	--	--	90
Middle Atlantic.....	752	105	--	11	--	--	4	--	0	--	11
New Jersey.....	1,337	345	--	851	--	--	--	--	0	--	500
New York.....	748	88	--	11	--	--	5	--	0	--	11
Pennsylvania.....	--	874	--	757	--	--	16	--	--	--	394
East North Central.....	4	17	2	18	0	0	41	11	0	6	2
Illinois.....	62	252	110	76	--	--	417	135	--	--	58
Indiana.....	2	8	--	84	--	--	61	28	--	--	4
Michigan.....	9	19	0	35	0	0	79	--	0	0	8
Ohio.....	4	25	--	213	0	--	98	75	--	--	6
Wisconsin.....	9	90	0	44	--	--	68	7	--	11	12
West North Central.....	9	64	0	40	0	0	16	28	0	22	9
Iowa.....	14	88	0	74	--	--	143	28	--	133	14
Kansas.....	0	63	0	69	--	0	--	2	--	--	24
Minnesota.....	41	406	0	92	--	0	121	58	--	25	35
Missouri.....	5	89	--	45	0	0	5	102	0	0	6
Nebraska.....	11	733	--	23	--	0	76	37	--	--	12
North Dakota.....	14	52	--	7,220	--	--	0	126	--	--	14
South Dakota.....	36	1,636	--	456	--	--	0	114	--	0	61
South Atlantic.....	2	4	0	3	--	0	18	16	0	0	3
Delaware.....	--	6,907	--	693	--	--	--	--	--	--	706
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	3	3	0	2	--	0	197	11	--	--	3
Georgia.....	0	16	--	8	--	0	31	--	0	--	2
Maryland.....	--	451	--	0	--	--	--	--	--	--	451
North Carolina.....	0	21	--	57	--	0	26	--	0	--	7
South Carolina.....	12	44	0	11	--	0	46	37	0	--	9
Virginia.....	17	47	--	0	--	0	33	0	0	--	9
West Virginia.....	5	13	--	0	--	--	163	0	--	0	5
East South Central.....	2	10	--	29	0	0	15	39	0	0	13
Alabama.....	3	18	--	62	--	0	23	--	--	--	24
Kentucky.....	3	33	--	8	0	--	21	39	--	0	4
Mississippi.....	4	12	--	19	--	0	--	--	--	--	17
Tennessee.....	*	5	--	0	--	0	28	243	0	--	2
West South Central.....	6	12	0	11	--	0	9	1	0	9	10
Arkansas.....	0	5	--	48	--	0	12	--	0	--	12
Louisiana.....	0	8	0	5	--	0	--	--	--	--	5
Oklahoma.....	20	338	--	31	--	--	10	0	0	--	28
Texas.....	0	60	0	7	--	--	33	149	--	9	6
Mountain.....	4	44	--	5	0	0	5	36	0	--	4
Arizona.....	6	1,299	--	9	--	0	3	54	0	--	7
Colorado.....	10	181	--	16	0	--	25	20	0	--	12
Idaho.....	--	5,173	--	657	--	--	7	--	--	--	834
Montana.....	437	3,059	--	1,355	--	--	9	--	--	--	345
Nevada.....	0	31	--	4	--	--	3	--	--	--	4
New Mexico.....	1	97	--	18	--	--	72	--	--	--	13
Utah.....	7	91	--	10	--	--	38	0	--	--	6
Wyoming.....	7	41	--	451	--	--	80	69	--	--	10
Pacific Contiguous.....	0	79	--	15	0	0	2	7	0	0	12
California.....	--	23	--	16	0	0	5	8	0	0	21
Oregon.....	0	0	--	1	0	--	2	32	--	--	3
Washington.....	--	1,883	--	128	--	0	1	22	0	--	58
Pacific Noncontiguous.....	4	10	--	16	--	--	27	116	--	0	12
Alaska.....	4	24	--	16	--	--	27	119	--	0	22
Hawaii.....	--	11	--	--	--	--	227	0	--	--	11

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "**".)

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Table A3.A. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	28	8	--	4	--	0	30	12	0	10	6
Connecticut.....	0	17	--	15	--	0	144	18	0	12	12
Maine.....	0	14	--	1	--	--	43	9	--	27	15
Massachusetts.....	41	7	--	6	--	0	76	15	0	13	10
New Hampshire.....	--	123	--	0	--	0	44	60	--	78	16
Rhode Island.....	--	1,595	--	4	--	--	1,189	35	--	--	45
Vermont.....	--	0	--	--	--	0	111	145	--	--	91
Middle Atlantic.....	13	26	63	3	371	0	39	8	0	8	3
New Jersey.....	16	58	--	5	0	0	408	11	--	17	6
New York.....	28	21	37	7	--	0	47	14	--	13	8
Pennsylvania.....	13	39	273	8	371	0	66	12	0	10	6
East North Central.....	4	58	0	9	10	0	151	13	--	73	5
Illinois.....	5	44	--	17	0	0	152	12	--	252	5
Indiana.....	4	3,865	--	27	242	--	--	--	--	0	20
Michigan.....	130	2,231	0	17	0	0	268	20	--	47	20
Ohio.....	0	128	0	10	0	0	--	148	--	--	1
Wisconsin.....	1,021	345	--	*	--	0	553	33	--	--	37
West North Central.....	0	316	--	25	--	0	240	13	--	62	20
Iowa.....	--	390	--	6,371	--	0	1,036	35	--	--	107
Kansas.....	--	--	--	--	--	--	932	0	--	--	8
Minnesota.....	0	2,516	--	0	--	--	238	16	--	62	13
Missouri.....	--	--	--	38	--	--	--	0	--	--	37
Nebraska.....	--	--	--	1,710	--	--	--	234	--	--	434
North Dakota.....	--	--	--	--	--	--	--	17	--	--	17
South Dakota.....	--	--	--	--	--	--	--	105	--	--	105
South Atlantic.....	17	14	0	18	0	0	35	8	--	8	13
Delaware.....	11	43	--	18	--	--	--	6	--	--	10
District of Columbia.....	--	0	--	--	--	--	--	--	--	--	0
Florida.....	102	162	--	55	0	--	--	5	--	11	42
Georgia.....	--	5,197	--	3	--	--	501	107	--	0	4
Maryland.....	9	19	--	22	0	0	15	2	--	0	8
North Carolina.....	240	2,158	--	3	--	--	138	53	--	77	99
South Carolina.....	--	0	--	48	--	--	272	--	--	--	49
Virginia.....	99	42	--	11	--	--	337	7	--	0	29
West Virginia.....	8	0	0	155	--	--	41	0	--	0	9
East South Central.....	9	456	0	1	--	--	0	7	--	96	2
Alabama.....	0	1,921	--	2	--	--	--	0	--	250	4
Kentucky.....	15	472	0	0	--	--	0	--	--	--	9
Mississippi.....	0	--	--	0	--	--	--	--	--	102	*
Tennessee.....	--	--	--	0	--	--	--	59	--	--	52
West South Central.....	0	5	0	3	0	0	12	12	--	0	2
Arkansas.....	--	0	--	0	--	--	0	68	--	--	1
Louisiana.....	0	16	--	1	0	--	0	47	--	--	1
Oklahoma.....	0	0	--	16	--	--	--	3	--	--	14
Texas.....	0	4	0	3	0	0	479	14	--	0	2
Mountain.....	40	202	0	16	0	--	21	18	--	185	19
Arizona.....	--	--	--	8	--	--	--	--	--	--	8
Colorado.....	146	1,718	--	43	--	--	131	49	--	--	48
Idaho.....	--	--	--	201	--	--	37	49	--	--	80
Montana.....	36	46	0	735	0	--	25	13	--	--	44
Nevada.....	--	0	--	56	0	--	--	5	--	--	55
New Mexico.....	--	2,417	--	446	--	--	--	72	--	--	567
Utah.....	281	414	--	305	--	--	504	130	--	185	324
Wyoming.....	168	1,573	--	1,187	--	--	--	28	--	--	163
Pacific Contiguous.....	17	66	121	16	42	--	39	7	--	29	14
California.....	47	127	121	17	366	--	47	7	--	31	17
Oregon.....	--	--	--	24	--	--	85	41	--	93	28
Washington.....	0	*	--	104	0	--	119	7	--	74	59
Pacific Noncontiguous.....	21	38	--	--	--	--	283	23	--	0	23
Alaska.....	104	--	--	--	--	--	--	--	--	--	104
Hawaii.....	17	38	--	--	--	--	283	23	--	0	22

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "**").

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary.

Sources: Energy Information Administration, Form EIA-906, "Power Plant Report;" Beginning with 2008 data, the Form EIA-923, "Power Plant Operations Report," replaced the following: Form EIA-906, "Power Plant Report;" Form EIA-920, "Combined Heat and Power Plant Report;" Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" and Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table A3.B. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	32	82	--	2	--	0	31	15	0	5	6
Connecticut.....	0	60	--	9	--	0	146	17	0	6	9
Maine.....	0	15	--	1	--	--	43	9	--	15	13
Massachusetts.....	47	160	--	5	--	0	71	14	0	6	12
New Hampshire.....	--	126	--	0	--	0	49	74	--	35	13
Rhode Island.....	--	2,453	--	2	--	--	1,162	30	--	--	17
Vermont.....	--	0	--	--	--	0	118	218	--	--	97
Middle Atlantic.....	13	87	78	3	264	0	35	7	0	4	3
New Jersey.....	21	68	--	4	0	0	370	9	--	8	6
New York.....	26	108	52	7	--	0	44	14	--	6	7
Pennsylvania.....	13	64	281	13	264	0	52	8	0	8	8
East North Central.....	4	40	0	15	9	0	161	12	--	56	5
Illinois.....	5	27	--	23	0	0	160	10	--	170	5
Indiana.....	7	2,912	--	93	101	--	--	--	--	0	37
Michigan.....	98	788	0	22	0	0	294	21	--	50	21
Ohio.....	0	114	0	73	0	0	--	107	--	--	1
Wisconsin.....	1,203	1,185	--	1	--	0	547	20	--	--	42
West North Central.....	0	467	--	20	--	0	214	8	--	28	17
Iowa.....	--	487	--	8,483	--	0	1,043	24	--	--	50
Kansas.....	--	--	--	--	--	--	925	0	--	--	6
Minnesota.....	0	13,126	--	0	--	--	207	9	--	28	8
Missouri.....	--	--	--	27	--	--	--	0	--	--	26
Nebraska.....	--	--	--	1,517	--	--	--	191	--	--	338
North Dakota.....	--	--	--	--	--	--	--	6	--	--	6
South Dakota.....	--	--	--	--	--	--	--	32	--	--	32
South Atlantic.....	17	49	0	25	0	0	17	8	--	6	19
Delaware.....	13	112	--	27	--	--	--	4	--	--	16
District of Columbia.....	--	0	--	--	--	--	--	--	--	--	0
Florida.....	75	496	--	32	0	--	--	5	--	5	32
Georgia.....	--	34	--	7	--	--	327	92	--	0	9
Maryland.....	11	64	--	34	0	0	5	2	--	0	10
North Carolina.....	221	1,159	--	4	--	--	133	74	--	125	109
South Carolina.....	--	0	--	118	--	--	222	--	--	--	124
Virginia.....	85	69	--	34	--	--	330	6	--	0	36
West Virginia.....	8	0	0	34	--	--	21	0	--	0	9
East South Central.....	7	118	0	2	--	--	0	6	--	50	4
Alabama.....	0	10	--	6	--	--	--	0	--	250	6
Kentucky.....	12	131	0	0	--	--	0	--	--	--	9
Mississippi.....	0	--	--	0	--	--	--	--	--	51	*
Tennessee.....	--	--	--	0	--	--	--	46	--	--	45
West South Central.....	0	2	0	2	0	0	11	11	--	0	2
Arkansas.....	--	0	--	0	--	--	0	57	--	--	1
Louisiana.....	0	3	--	*	0	--	0	40	--	--	*
Oklahoma.....	0	0	--	12	--	--	--	3	--	--	11
Texas.....	0	2	0	2	0	0	507	13	--	0	2
Mountain.....	33	155	0	10	0	--	19	15	--	230	16
Arizona.....	--	--	--	5	--	--	--	--	--	--	5
Colorado.....	180	1,120	--	23	--	--	92	42	--	--	50
Idaho.....	--	--	--	49	--	--	21	18	--	--	40
Montana.....	29	24	0	720	0	--	25	4	--	--	33
Nevada.....	--	0	--	27	0	--	--	5	--	--	26
New Mexico.....	--	2,112	--	205	--	--	--	62	--	--	334
Utah.....	259	353	--	255	--	--	354	106	--	230	280
Wyoming.....	159	2,964	--	1,509	--	--	--	11	--	--	152
Pacific Contiguous.....	10	37	119	8	43	--	28	6	--	26	9
California.....	52	42	119	9	330	--	34	6	--	21	13
Oregon.....	--	--	--	5	--	--	57	30	--	153	9
Washington.....	0	*	--	50	0	--	83	8	--	34	23
Pacific Noncontiguous.....	37	29	--	--	--	--	129	20	--	0	32
Alaska.....	139	--	--	--	--	--	--	--	--	--	139
Hawaii.....	32	29	--	--	--	--	129	20	--	0	31

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "**").

Notes: • See Glossary for definitions. • Values for 2008 are preliminary.

Sources: Energy Information Administration, Form EIA-906, "Power Plant Report;" Beginning with 2008 data, the Form EIA-923, "Power Plant Operations Report," replaced the following: Form EIA-906, "Power Plant Report;" Form EIA-920, "Combined Heat and Power Plant Report;" Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report;" and Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

Table A4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	--	277	--	43	--	--	0	40	--	67	39
Connecticut.....	--	2,837	--	331	--	--	--	--	--	--	402
Maine.....	--	934	--	2,007	--	--	--	48	--	67	125
Massachusetts.....	--	345	--	33	--	--	0	66	--	--	43
New Hampshire.....	--	223	--	--	--	--	--	--	--	--	223
Rhode Island.....	--	235	--	273	--	--	--	--	--	--	214
Vermont.....	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic.....	156	115	--	70	--	--	0	21	--	31	44
New Jersey.....	--	1,406	--	209	--	--	--	0	--	--	272
New York.....	0	113	--	59	--	--	0	40	--	58	42
Pennsylvania.....	308	550	--	176	--	--	--	0	--	0	102
East North Central.....	39	267	--	53	--	--	0	19	--	21	28
Illinois.....	0	2,146	--	41	--	--	--	729	--	--	40
Indiana.....	60	821	--	610	--	--	--	65	--	96	51
Michigan.....	0	326	--	300	--	--	--	15	--	9	10
Ohio.....	290	--	--	0	--	--	--	--	--	--	290
Wisconsin.....	446	3,275	--	236	--	--	0	190	--	276	162
West North Central.....	66	404	0	216	--	--	--	56	--	100	58
Iowa.....	97	1,542	0	742	--	--	--	70	--	--	89
Kansas.....	--	357	--	0	--	--	--	--	--	--	357
Minnesota.....	--	455	--	238	--	--	--	117	--	125	165
Missouri.....	41	1,024	--	0	--	--	--	--	--	0	41
Nebraska.....	--	--	--	9,680	--	--	--	148	--	--	165
North Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Atlantic.....	81	647	--	668	0	--	64	25	--	28	89
Delaware.....	--	--	--	--	--	--	--	--	--	--	--
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	--	14,996	--	708	--	--	--	81	--	--	1,097
Georgia.....	--	911	--	--	--	--	--	--	--	--	911
Maryland.....	--	2,100	--	441	0	--	--	102	--	59	205
North Carolina.....	0	3,832	--	0	--	--	64	--	--	--	6
South Carolina.....	--	1,170	--	452	--	--	0	63	--	89	219
Virginia.....	523	0	--	--	--	--	--	19	--	27	434
West Virginia.....	--	--	--	--	--	--	--	--	--	--	--
East South Central.....	461	--	--	360	--	--	--	--	--	--	483
Alabama.....	--	--	--	--	--	--	--	--	--	--	--
Kentucky.....	--	--	--	--	--	--	--	--	--	--	--
Mississippi.....	--	--	--	5,741	--	--	--	--	--	--	5,741
Tennessee.....	461	--	--	248	--	--	--	--	--	--	429
West South Central.....	--	944	--	186	--	--	--	77	--	--	261
Arkansas.....	--	--	--	3,159	--	--	--	224	--	--	763
Louisiana.....	--	--	--	938	--	--	--	--	--	--	938
Oklahoma.....	--	2,666	--	1,328	--	--	--	--	--	--	1,459
Texas.....	--	1,025	--	167	--	--	--	82	--	--	269
Mountain.....	--	54	--	719	0	--	--	136	--	--	688
Arizona.....	--	633	--	914	--	--	--	229	--	--	1,468
Colorado.....	--	0	--	0	--	--	--	--	--	--	0
Idaho.....	--	--	--	--	--	--	--	--	--	--	--
Montana.....	--	--	--	--	--	--	--	--	--	--	--
Nevada.....	--	--	--	--	--	--	--	--	--	--	--
New Mexico.....	--	--	--	1,497	--	--	--	--	--	--	1,497
Utah.....	--	--	--	1,751	0	--	--	169	--	--	1,141
Wyoming.....	--	--	--	--	--	--	--	--	--	--	--
Pacific Contiguous.....	--	1,107	--	124	345	--	4	27	--	0	118
California.....	--	1,365	--	132	345	--	116	27	--	0	222
Oregon.....	--	88	--	606	--	--	--	--	--	--	694
Washington.....	--	2,893	--	352	--	--	0	--	--	--	165
Pacific Noncontiguous.....	68	397	--	--	--	--	--	0	--	0	30
Alaska.....	68	420	--	--	--	--	--	0	--	--	68
Hawaii.....	--	0	--	--	--	--	--	0	--	0	0

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Table A4.B. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	--	224	--	33	--	--	74	33	--	112	30
Connecticut.....	--	2,294	--	277	--	--	--	--	--	--	308
Maine.....	--	812	--	2,039	--	--	--	40	--	112	91
Massachusetts.....	--	273	--	25	--	--	74	53	--	--	29
New Hampshire.....	--	220	--	--	--	--	--	--	--	--	220
Rhode Island.....	--	232	--	226	--	--	--	--	--	--	198
Vermont.....	--	--	--	--	--	--	--	--	--	--	--
Middle Atlantic.....	191	59	--	55	--	--	75	18	--	48	32
New Jersey.....	--	1,245	--	167	--	--	--	0	--	--	195
New York.....	0	56	--	47	--	--	75	34	--	94	34
Pennsylvania.....	431	321	--	141	--	--	--	0	--	0	68
East North Central.....	56	85	--	37	--	--	110	16	--	39	35
Illinois.....	0	498	--	27	--	--	--	567	--	--	24
Indiana.....	95	1,007	--	531	--	--	--	53	--	122	78
Michigan.....	0	95	--	128	--	--	--	11	--	13	7
Ohio.....	406	--	--	0	--	--	--	--	--	--	406
Wisconsin.....	560	2,471	--	339	--	--	110	127	--	292	198
West North Central.....	103	525	0	180	--	--	--	46	--	164	81
Iowa.....	139	1,200	0	611	--	--	--	58	--	--	125
Kansas.....	--	864	--	0	--	--	--	--	--	--	864
Minnesota.....	--	573	--	204	--	--	--	96	--	211	131
Missouri.....	83	2,319	--	0	--	--	--	--	--	0	76
Nebraska.....	--	--	--	7,166	--	--	--	122	--	--	152
North Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Atlantic.....	68	629	--	324	0	--	42	19	--	39	67
Delaware.....	--	--	--	--	--	--	--	--	--	--	--
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	--	3,272	--	344	--	--	--	67	--	--	1,726
Georgia.....	--	1,393	--	--	--	--	--	--	--	--	1,393
Maryland.....	--	2,391	--	409	0	--	--	75	--	134	122
North Carolina.....	0	1,871	--	0	--	--	41	--	--	--	8
South Carolina.....	--	1,052	--	3,854	--	--	118	52	--	136	333
Virginia.....	449	0	--	--	--	--	--	15	--	36	363
West Virginia.....	--	--	--	--	--	--	--	--	--	--	--
East South Central.....	589	--	--	216	--	--	--	--	--	--	490
Alabama.....	--	--	--	--	--	--	--	--	--	--	--
Kentucky.....	--	--	--	--	--	--	--	--	--	--	--
Mississippi.....	--	--	--	1,210	--	--	--	--	--	--	1,210
Tennessee.....	589	--	--	204	--	--	--	--	--	--	487
West South Central.....	--	830	--	70	--	--	--	64	--	--	281
Arkansas.....	--	--	--	2,702	--	--	--	182	--	--	409
Louisiana.....	--	--	--	424	--	--	--	--	--	--	424
Oklahoma.....	--	2,696	--	433	--	--	--	--	--	--	767
Texas.....	--	919	--	64	--	--	--	68	--	--	341
Mountain.....	--	67	--	269	0	--	--	112	--	--	306
Arizona.....	--	648	--	370	--	--	--	190	--	--	989
Colorado.....	--	0	--	0	--	--	--	--	--	--	0
Idaho.....	--	--	--	--	--	--	--	--	--	--	--
Montana.....	--	--	--	--	--	--	--	--	--	--	--
Nevada.....	--	--	--	--	--	--	--	--	--	--	--
New Mexico.....	--	--	--	481	--	--	--	--	--	--	481
Utah.....	--	--	--	691	0	--	--	139	--	--	453
Wyoming.....	--	--	--	--	--	--	--	--	--	--	--
Pacific Contiguous.....	--	851	--	58	345	--	14	23	--	0	74
California.....	--	948	--	60	345	--	50	23	--	0	171
Oregon.....	--	122	--	270	--	--	--	--	--	--	392
Washington.....	--	5,844	--	317	--	--	0	--	--	--	148
Pacific Noncontiguous.....	26	368	--	--	--	--	--	0	--	0	16
Alaska.....	26	437	--	--	--	--	--	0	--	--	27
Hawaii.....	--	0	--	--	--	--	--	0	--	0	0

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Table A5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	123	61	--	54	--	--	7	10	--	20	38
Connecticut.....	--	157	--	133	--	--	--	--	--	85	118
Maine.....	0	49	--	38	--	--	6	10	--	0	29
Massachusetts.....	256	173	--	334	--	--	0	--	--	0	248
New Hampshire.....	--	202	--	197	--	--	262	407	--	--	161
Rhode Island.....	--	0	--	--	--	--	--	--	--	--	0
Vermont.....	--	--	--	--	--	--	103	1,401	--	--	219
Middle Atlantic.....	62	236	288	91	20	--	23	30	--	36	59
New Jersey.....	--	1,163	--	156	53	--	--	201	--	36	134
New York.....	0	18	--	82	--	--	23	0	--	--	22
Pennsylvania.....	95	290	288	136	14	--	--	46	--	--	79
East North Central.....	47	83	66	98	12	--	33	19	--	8	49
Illinois.....	92	1,697	22	193	90	--	--	0	--	0	107
Indiana.....	147	328	--	104	11	--	--	91	--	0	314
Michigan.....	71	85	0	144	--	--	94	29	--	18	43
Ohio.....	133	418	635	340	54	--	--	21	--	0	74
Wisconsin.....	31	170	0	303	--	--	35	35	--	0	115
West North Central.....	69	1,976	--	329	101	--	17	22	--	50	59
Iowa.....	38	1,209	--	0	--	--	--	0	--	--	38
Kansas.....	--	--	--	603	--	--	--	--	--	--	603
Minnesota.....	162	2,174	--	304	--	--	17	23	--	50	84
Missouri.....	143	65	--	733	--	--	--	131	--	--	135
Nebraska.....	165	--	--	--	--	--	--	--	--	--	165
North Dakota.....	205	567	--	656	101	--	--	82	--	--	127
South Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Atlantic.....	78	71	0	59	0	--	6	22	--	17	31
Delaware.....	117	82	0	99	0	--	--	--	--	0	32
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	443	207	--	91	0	--	--	47	--	5	61
Georgia.....	62	50	0	75	--	--	117	40	--	38	40
Maryland.....	0	191	--	220	--	--	--	0	--	--	38
North Carolina.....	275	118	--	693	--	--	0	50	--	20	112
South Carolina.....	120	0	--	0	0	--	--	0	--	0	46
Virginia.....	143	147	--	127	--	--	204	31	--	--	76
West Virginia.....	42	--	--	688	0	--	0	0	--	--	38
East South Central.....	80	288	--	104	86	--	0	26	--	89	72
Alabama.....	291	253	--	105	85	--	--	38	--	58	103
Kentucky.....	--	--	--	163	--	--	--	12	--	--	37
Mississippi.....	355	1,333	--	402	326	--	--	36	--	242	397
Tennessee.....	38	380	--	150	0	--	0	34	--	0	25
West South Central.....	277	174	192	24	14	--	--	34	--	25	41
Arkansas.....	261	133	94	118	--	--	--	29	--	35	72
Louisiana.....	284	152	380	30	16	--	--	51	--	27	57
Oklahoma.....	331	243	--	248	557	--	--	155	--	0	195
Texas.....	0	193	175	30	18	--	--	66	--	14	45
Mountain.....	50	1,185	--	233	63	--	--	22	--	12	91
Arizona.....	162	1,951	--	2,107	--	--	--	--	--	--	184
Colorado.....	--	13,473	--	1,308	--	--	--	--	--	44	1,197
Idaho.....	125	80	--	83	--	--	--	0	--	35	23
Montana.....	--	18	--	329	--	--	--	128	--	--	143
Nevada.....	--	--	--	1,395	--	--	--	--	--	--	1,395
New Mexico.....	--	7,421	--	12,279	--	--	--	--	--	--	12,237
Utah.....	0	--	--	527	351	--	--	--	--	0	43
Wyoming.....	71	626	--	58	36	--	--	--	--	43	58
Pacific Contiguous.....	35	131	222	59	23	--	355	49	--	10	46
California.....	37	515	222	61	23	--	--	162	--	10	55
Oregon.....	--	488	--	215	--	--	--	32	--	--	178
Washington.....	0	125	--	0	--	--	355	24	--	--	21
Pacific Noncontiguous.....	--	135	--	157	401	--	82	83	--	--	124
Alaska.....	--	199	--	157	--	--	--	193	--	--	153
Hawaii.....	--	171	--	--	401	--	82	99	--	--	159

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary.

Source: Energy Information Administration, Form EIA-920 "Combined Heat and Power Plant Report."

Table A5.B. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional	Other Renewables	Hydroelectric Pumped Storage	Other	Total
New England.....	177	49	--	35	--	--	4	11	--	14	25
Connecticut.....	--	153	--	111	--	--	--	--	--	73	102
Maine.....	0	33	--	17	--	--	3	9	--	0	18
Massachusetts.....	352	201	--	299	--	--	88	--	--	0	243
New Hampshire.....	--	204	--	158	--	--	73	264	--	--	131
Rhode Island.....	--	0	--	--	--	--	--	--	--	--	0
Vermont.....	--	--	--	--	--	--	40	302	--	--	124
Middle Atlantic.....	80	266	279	79	30	--	10	26	--	36	57
New Jersey.....	--	894	--	137	91	--	--	157	--	36	120
New York.....	0	9	--	67	--	--	10	0	--	--	18
Pennsylvania.....	112	383	279	120	19	--	--	35	--	--	78
East North Central.....	67	65	197	77	21	--	14	19	--	7	49
Illinois.....	100	6,551	16	177	133	--	--	0	--	0	106
Indiana.....	201	135	--	83	18	--	--	76	--	0	150
Michigan.....	94	38	0	105	--	--	36	22	--	18	51
Ohio.....	199	119	760	264	85	--	--	71	--	0	108
Wisconsin.....	112	681	219	212	--	--	14	28	--	43	97
West North Central.....	68	3,198	--	174	156	--	18	19	--	44	54
Iowa.....	47	3,120	--	0	--	--	--	0	--	--	46
Kansas.....	--	--	--	320	--	--	--	--	--	--	320
Minnesota.....	175	3,304	--	195	--	--	18	19	--	44	86
Missouri.....	194	30	--	756	--	--	--	106	--	--	181
Nebraska.....	878	--	--	--	--	--	--	--	--	--	878
North Dakota.....	242	539	--	490	156	--	--	63	--	--	171
South Dakota.....	--	--	--	--	--	--	--	--	--	--	--
South Atlantic.....	84	56	0	61	0	--	7	25	--	36	47
Delaware.....	157	33	0	35	0	--	--	--	--	0	57
District of Columbia.....	--	--	--	--	--	--	--	--	--	--	--
Florida.....	394	155	--	61	0	--	--	47	--	4	63
Georgia.....	96	85	0	127	--	--	38	45	--	63	94
Maryland.....	0	154	--	125	--	--	--	0	--	--	30
North Carolina.....	234	112	--	359	--	--	20	49	--	14	102
South Carolina.....	102	0	--	0	0	--	--	0	--	0	41
Virginia.....	124	68	--	130	--	--	61	31	--	--	71
West Virginia.....	60	--	--	606	0	--	0	0	--	--	50
East South Central.....	77	189	--	84	87	--	18	27	--	83	67
Alabama.....	269	182	--	81	86	--	--	39	--	36	81
Kentucky.....	--	--	--	127	--	--	--	9	--	--	26
Mississippi.....	256	736	--	296	296	--	--	34	--	213	385
Tennessee.....	50	106	--	201	0	--	18	27	--	0	30
West South Central.....	255	133	178	20	20	--	--	36	--	32	45
Arkansas.....	226	84	70	66	--	--	--	26	--	25	77
Louisiana.....	295	142	503	22	29	--	--	54	--	36	62
Oklahoma.....	298	203	--	233	777	--	--	150	--	0	196
Texas.....	0	176	167	23	22	--	--	63	--	12	65
Mountain.....	56	992	--	116	72	--	--	15	--	10	69
Arizona.....	208	1,577	--	1,611	--	--	--	--	--	--	221
Colorado.....	--	5,906	--	526	--	--	--	--	--	44	4,855
Idaho.....	171	111	--	90	--	--	--	0	--	25	31
Montana.....	--	9	--	247	--	--	--	100	--	--	109
Nevada.....	--	--	--	306	--	--	--	--	--	--	306
New Mexico.....	--	7,424	--	1,838	--	--	--	--	--	--	2,116
Utah.....	0	--	--	262	321	--	--	--	--	0	22
Wyoming.....	98	553	--	51	40	--	--	--	--	31	49
Pacific Contiguous.....	46	80	222	29	22	--	139	46	--	9	36
California.....	48	527	222	30	22	--	--	178	--	9	41
Oregon.....	--	458	--	101	--	--	--	21	--	--	97
Washington.....	0	59	--	0	--	--	139	17	--	--	15
Pacific Noncontiguous.....	--	113	--	119	360	--	31	67	--	--	110
Alaska.....	--	202	--	119	--	--	--	151	--	--	139
Hawaii.....	--	151	--	--	360	--	31	78	--	--	158

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary.

Source: Energy Information Administration, Form EIA-920 "Combined Heat and Power Plant Report."

Table A6.A. Relative Standard Error for Retail Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	1	*	2	0	1
Connecticut	*	*	3	0	1
Maine	2	2	3	0	2
Massachusetts	1	*	6	0	2
New Hampshire	1	*	4	0	1
Rhode Island	0	0	0	0	0
Vermont	3	1	7	0	4
Middle Atlantic	*	*	1	*	*
New Jersey	*	*	2	7	*
New York	*	*	3	*	1
Pennsylvania	*	*	0	0	*
East North Central	*	*	1	0	1
Illinois	1	*	2	0	1
Indiana	1	*	2	0	1
Michigan	1	*	2	0	1
Ohio	1	*	1	0	1
Wisconsin	1	*	3	0	2
West North Central	1	1	2	16	1
Iowa	2	1	3	1,096	3
Kansas	3	3	6	0	2
Minnesota	2	1	3	0	2
Missouri	1	*	4	0	2
Nebraska	1	3	3	0	2
North Dakota	2	3	9	0	3
South Dakota	2	4	4	0	3
South Atlantic	1	1	1	0	1
Delaware	1	1	5	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	2	2	3	0	1
Maryland	1	*	3	0	1
North Carolina	1	2	2	0	1
South Carolina	2	2	2	0	1
Virginia	1	1	3	0	1
West Virginia	*	*	0	0	*
East South Central	1	1	1	0	1
Alabama	2	3	2	0	1
Kentucky	1	1	2	0	2
Mississippi	3	4	5	0	2
Tennessee	1	1	3	0	2
West South Central	1	2	1	0	1
Arkansas	2	4	4	0	2
Louisiana	2	2	2	0	2
Oklahoma	2	3	4	0	2
Texas	1	2	1	0	1
Mountain	*	*	1	0	1
Arizona	*	*	1	0	1
Colorado	1	*	2	0	2
Idaho	1	2	1	0	1
Montana	2	3	4	0	2
Nevada	*	*	0	0	1
New Mexico	1	1	2	0	2
Utah	1	1	1	0	2
Wyoming	2	2	1	0	1
Pacific Contiguous	*	*	1	0	*
California	*	*	1	0	*
Oregon	1	2	3	0	1
Washington	1	1	3	0	1
Pacific Noncontiguous	1	2	2	0	1
Alaska	2	4	6	0	3
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."

Table A6.B. Relative Standard Error for Retail Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	1	*	2	0	1
Connecticut	1	*	3	0	1
Maine	1	1	3	0	2
Massachusetts	1	*	5	0	1
New Hampshire	1	*	4	0	1
Rhode Island	0	0	0	0	0
Vermont	4	1	6	0	3
Middle Atlantic	*	*	1	*	*
New Jersey	1	*	2	1	*
New York	1	*	2	*	*
Pennsylvania	*	*	0	0	*
East North Central	1	*	1	*	*
Illinois	1	*	1	*	1
Indiana	2	1	2	0	1
Michigan	1	*	1	0	1
Ohio	1	*	1	0	1
Wisconsin	2	1	2	0	1
West North Central	1	1	2	58	1
Iowa	3	1	3	4,446	2
Kansas	3	3	6	0	3
Minnesota	2	1	3	0	2
Missouri	2	1	3	0	2
Nebraska	2	2	5	0	2
North Dakota	2	2	9	0	3
South Dakota	2	3	5	0	3
South Atlantic	1	1	2	0	1
Delaware	2	1	5	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	4	0	1
Georgia	2	2	4	0	2
Maryland	1	*	3	0	1
North Carolina	2	2	3	0	1
South Carolina	2	2	3	0	2
Virginia	1	1	4	0	1
West Virginia	*	*	0	0	*
East South Central	1	1	1	0	1
Alabama	2	2	2	0	2
Kentucky	2	1	1	0	1
Mississippi	3	4	5	0	3
Tennessee	2	1	2	0	2
West South Central	2	2	1	0	1
Arkansas	3	3	4	0	2
Louisiana	4	2	2	0	2
Oklahoma	2	3	4	0	2
Texas	2	2	2	0	1
Mountain	1	*	1	0	1
Arizona	1	1	1	0	1
Colorado	2	1	2	0	2
Idaho	1	1	2	0	1
Montana	2	2	5	0	3
Nevada	1	1	0	0	1
New Mexico	2	1	3	0	3
Utah	2	1	1	0	2
Wyoming	2	2	2	0	2
Pacific Contiguous	*	*	1	0	1
California	*	*	1	0	1
Oregon	1	1	5	0	2
Washington	1	1	4	0	1
Pacific Noncontiguous	1	1	2	0	1
Alaska	2	3	6	0	3
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary. • It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high relative standard error.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."

Table A7.A. Relative Standard Error for Revenue from Retail Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	*	*	2	0	*
Connecticut	*	*	2	0	*
Maine	1	1	2	0	1
Massachusetts	*	*	4	0	1
New Hampshire	*	*	3	0	1
Rhode Island	0	0	0	0	0
Vermont	2	1	8	0	3
Middle Atlantic	*	*	1	*	*
New Jersey	*	*	1	1	*
New York	*	*	1	*	*
Pennsylvania	*	*	1	0	*
East North Central	*	*	1	0	*
Illinois	*	*	2	0	1
Indiana	1	1	2	0	1
Michigan	*	*	2	0	1
Ohio	*	*	2	0	1
Wisconsin	1	1	3	0	1
West North Central	1	1	2	18	1
Iowa	1	1	4	1,104	2
Kansas	5	4	7	0	4
Minnesota	1	1	3	0	2
Missouri	1	1	4	0	2
Nebraska	2	3	4	0	2
North Dakota	3	3	8	0	3
South Dakota	3	4	4	0	3
South Atlantic	1	1	2	0	1
Delaware	1	1	4	0	2
District of Columbia	0	0	0	0	0
Florida	1	2	4	0	1
Georgia	2	2	3	0	2
Maryland	*	*	2	0	1
North Carolina	3	3	3	0	2
South Carolina	3	3	3	0	2
Virginia	2	2	4	0	2
West Virginia	*	*	*	0	1
East South Central	1	1	2	0	1
Alabama	2	3	2	0	2
Kentucky	1	1	3	0	2
Mississippi	4	4	5	0	3
Tennessee	1	1	3	0	2
West South Central	2	2	1	0	1
Arkansas	4	4	4	0	3
Louisiana	4	3	3	0	3
Oklahoma	3	3	4	0	2
Texas	2	2	1	0	1
Mountain	*	*	1	0	*
Arizona	*	*	1	0	*
Colorado	1	1	2	0	1
Idaho	1	2	1	0	1
Montana	2	2	4	0	2
Nevada	*	*	*	0	*
New Mexico	2	1	3	0	2
Utah	2	1	1	0	1
Wyoming	3	3	2	0	2
Pacific Contiguous	*	*	1	0	*
California	*	*	1	0	*
Oregon	1	2	3	0	1
Washington	1	1	3	0	1
Pacific Noncontiguous	1	1	1	0	1
Alaska	4	5	4	0	3
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary. • It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high relative standard error.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."

Table A7.B. Relative Standard Error for Revenue from Retail Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	1	*	2	0	1
Connecticut	*	*	2	0	1
Maine	1	1	1	0	1
Massachusetts	1	1	3	0	1
New Hampshire	1	1	2	0	1
Rhode Island	0	0	0	0	0
Vermont	4	2	6	0	4
Middle Atlantic	*	*	1	*	*
New Jersey	*	*	1	*	*
New York	*	*	1	*	*
Pennsylvania	1	*	*	0	*
East North Central	1	*	1	*	1
Illinois	1	1	2	*	1
Indiana	2	1	2	0	2
Michigan	1	1	1	0	1
Ohio	1	1	1	0	1
Wisconsin	2	1	2	0	2
West North Central	1	1	2	40	1
Iowa	4	3	4	2,486	3
Kansas	5	5	9	0	4
Minnesota	3	2	3	0	2
Missouri	3	2	5	0	2
Nebraska	3	2	6	0	3
North Dakota	2	2	10	0	3
South Dakota	3	3	6	0	3
South Atlantic	1	1	2	0	1
Delaware	2	1	4	0	2
District of Columbia	0	0	0	0	0
Florida	1	1	5	0	1
Georgia	3	2	4	0	2
Maryland	1	1	2	0	1
North Carolina	2	2	4	0	2
South Carolina	3	2	3	0	2
Virginia	2	1	5	0	1
West Virginia	1	1	*	0	1
East South Central	1	1	2	0	1
Alabama	2	3	3	0	2
Kentucky	3	2	2	0	2
Mississippi	4	4	6	0	3
Tennessee	2	2	3	0	2
West South Central	2	2	2	0	1
Arkansas	3	4	5	0	3
Louisiana	5	4	3	0	3
Oklahoma	3	4	5	0	3
Texas	2	2	2	0	1
Mountain	1	*	1	0	1
Arizona	1	1	1	0	1
Colorado	2	1	3	0	2
Idaho	1	2	3	0	2
Montana	2	2	5	0	2
Nevada	1	1	*	0	1
New Mexico	3	2	3	0	2
Utah	3	2	1	0	2
Wyoming	3	2	2	0	2
Pacific Contiguous	*	*	1	0	*
California	*	*	1	0	*
Oregon	1	1	4	0	1
Washington	1	1	3	0	1
Pacific Noncontiguous	1	1	1	0	1
Alaska	3	3	4	0	3
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary. • It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high relative standard error.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."

Table A8.A. Relative Standard Error for Average Retail Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	*	*	1	0	*
Connecticut	*	*	*	0	*
Maine	4	2	1	0	2
Massachusetts	*	*	*	0	*
New Hampshire	*	*	*	0	*
Rhode Island	0	0	0	0	0
Vermont	1	*	*	0	*
Middle Atlantic	*	*	*	*	*
New Jersey	*	*	*	1	*
New York	1	*	*	*	*
Pennsylvania	*	*	*	0	*
East North Central	1	*	1	0	*
Illinois	*	*	*	0	*
Indiana	*	*	*	0	*
Michigan	*	*	1	0	*
Ohio	*	*	*	0	*
Wisconsin	*	*	*	0	*
West North Central	1	1	3	3	2
Iowa	*	*	*	166	*
Kansas	6	6	17	0	9
Minnesota	2	1	3	0	*
Missouri	1	1	*	0	1
Nebraska	4	3	3	0	3
North Dakota	2	10	14	0	4
South Dakota	1	3	5	0	1
South Atlantic	1	2	3	0	1
Delaware	1	1	*	0	*
District of Columbia	0	0	0	0	0
Florida	*	*	1	0	*
Georgia	1	2	1	0	1
Maryland	*	*	*	0	*
North Carolina	3	1	*	0	1
South Carolina	2	4	15	0	3
Virginia	3	8	4	0	4
West Virginia	*	*	*	0	*
East South Central	1	1	3	0	2
Alabama	2	4	5	0	2
Kentucky	2	1	9	0	8
Mississippi	2	*	7	0	3
Tennessee	1	1	3	0	1
West South Central	3	2	*	0	2
Arkansas	3	2	2	0	1
Louisiana	5	1	2	0	3
Oklahoma	2	1	2	0	1
Texas	6	4	1	0	4
Mountain	*	*	1	0	*
Arizona	1	1	2	0	1
Colorado	2	1	5	0	1
Idaho	1	2	1	0	2
Montana	1	2	2	0	1
Nevada	*	*	*	0	*
New Mexico	1	2	4	0	2
Utah	1	1	1	0	1
Wyoming	1	1	3	0	2
Pacific Contiguous	*	*	1	0	1
California	*	*	1	0	1
Oregon	1	1	4	0	1
Washington	2	1	6	0	2
Pacific Noncontiguous	1	1	1	0	*
Alaska	2	2	3	0	2
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary. • It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high relative standard error.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."

Table A8.B. Relative Standard Error for Average Retail Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date through June 2008
(Percent)

Census Division and State	Residential	Commercial	Industrial	Transportation	All Sectors
New England	1	1	3	0	1
Connecticut	*	*	*	0	*
Maine	4	3	3	0	2
Massachusetts	*	*	*	0	*
New Hampshire	2	1	12	0	2
Rhode Island	0	0	0	0	0
Vermont	1	1	1	0	*
Middle Atlantic	2	1	*	*	2
New Jersey	*	*	*	1	*
New York	3	1	1	*	3
Pennsylvania	*	*	*	0	*
East North Central	1	1	1	1	1
Illinois	3	9	16	*	7
Indiana	*	*	*	0	*
Michigan	*	*	2	0	*
Ohio	*	*	*	0	*
Wisconsin	2	*	*	0	1
West North Central	3	3	7	8	4
Iowa	*	*	*	488	*
Kansas	14	14	48	0	24
Minnesota	4	3	4	0	1
Missouri	6	2	*	0	4
Nebraska	12	6	8	0	7
North Dakota	6	20	33	0	10
South Dakota	3	6	11	0	4
South Atlantic	3	5	6	0	2
Delaware	4	3	*	0	3
District of Columbia	0	0	0	0	0
Florida	4	2	4	0	3
Georgia	9	3	2	0	5
Maryland	*	*	*	0	*
North Carolina	5	2	1	0	2
South Carolina	7	12	36	0	5
Virginia	14	20	9	0	11
West Virginia	*	*	*	0	*
East South Central	3	3	5	0	4
Alabama	6	10	11	0	4
Kentucky	9	4	15	0	16
Mississippi	5	3	16	0	11
Tennessee	5	2	6	0	3
West South Central	5	3	2	0	3
Arkansas	8	4	5	0	6
Louisiana	9	4	9	0	6
Oklahoma	6	2	4	0	3
Texas	12	6	4	0	6
Mountain	2	1	2	0	1
Arizona	5	3	5	0	3
Colorado	7	2	10	0	4
Idaho	2	3	4	0	3
Montana	3	4	4	0	2
Nevada	2	2	1	0	1
New Mexico	6	4	7	0	4
Utah	4	2	2	0	2
Wyoming	7	6	9	0	5
Pacific Contiguous	2	1	4	0	2
California	1	1	2	0	2
Oregon	5	1	6	0	2
Washington	5	2	19	0	7
Pacific Noncontiguous	2	1	3	0	1
Alaska	6	3	12	0	4
Hawaii	0	0	0	0	0

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is "1" then values under 0.5 are shown as "*".)

Notes: • See Glossary for definitions. • Relative Standard Error is designed to indicate error due to sampling. However, nonsampling error is important for all surveys, census or sample. See Technical Notes for further information. • Values for 2008 are preliminary. • It should be noted that such things as large changes in retail sales, reclassification of retail sales, or changes in billing procedures can contribute to unusually high relative standard error.

Source: Energy Information Administration, Form EIA-826, "Monthly Electric Sales and Revenue Report with State Distributions."