

**Table 4c. Real Average Annual Coal Transportation Costs from State to State by Railroad
(2014 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014
Alabama	Alabama	15.72	W	W	W	W	W	W
Alabama	Georgia	W	W	W	-	-	-	-
Alabama	Kentucky	-	W	-	-	-	-	-
Alabama	New Jersey	W	-	-	-	-	-	-
Alabama	Pennsylvania	-	W	-	-	-	-	-
Arizona	Arizona	W	W	W	W	W	W	W
Colorado	Alabama	37.80	W	W	W	W	W	W
Colorado	Arizona	W	W	-	W	W	-	W
Colorado	Arkansas	W	-	-	-	-	-	-
Colorado	California	-	W	W	-	-	-	-
Colorado	Colorado	15.51	9.18	9.69	11.52	11.03	10.63	10.47
Colorado	Florida	-	-	-	-	-	W	-
Colorado	Georgia	W	-	-	-	-	-	-
Colorado	Illinois	-	-	W	W	W	W	-
Colorado	Indiana	-	W	W	-	-	-	W
Colorado	Iowa	W	-	-	-	-	-	-
Colorado	Kentucky	W	W	W	W	W	W	W
Colorado	Maryland	-	-	-	-	-	-	W
Colorado	Michigan	W	W	W	33.58	W	W	W
Colorado	Mississippi	W	W	W	W	W	W	W
Colorado	Nevada	W	W	W	-	-	-	W
Colorado	New York	-	-	-	W	-	-	-
Colorado	Oklahoma	-	W	-	W	W	-	W
Colorado	Tennessee	26.79	25.14	27.09	30.82	31.23	28.69	29.62
Colorado	Utah	W	W	W	W	W	W	W
Colorado	Virginia	-	W	W	W	W	-	-
Colorado	Wisconsin	W	W	W	W	W	-	W
Illinois	Alabama	W	W	-	W	W	W	17.46
Illinois	Florida	W	W	-	W	W	38.16	31.56
Illinois	Georgia	W	-	W	40.57	38.22	27.59	26.16
Illinois	Illinois	W	W	W	W	11.93	W	-
Illinois	Indiana	12.25	13.70	14.09	14.65	15.34	15.28	13.92
Illinois	Iowa	W	-	-	-	-	-	-
Illinois	Kentucky	-	-	-	W	W	W	-
Illinois	Maryland	-	-	-	-	-	W	-
Illinois	Michigan	W	W	W	W	W	W	W
Illinois	Minnesota	W	-	-	-	-	-	-
Illinois	Mississippi	-	-	W	-	W	W	-
Illinois	Missouri	W	-	W	W	W	W	W
Illinois	North Carolina	-	-	-	-	W	42.48	43.66
Illinois	Ohio	W	-	-	-	W	-	-
Illinois	Pennsylvania	-	-	-	-	-	W	W
Illinois	South Carolina	-	-	W	W	W	W	W
Illinois	Tennessee	W	-	-	-	21.22	-	W
Illinois	West Virginia	-	-	-	W	-	-	-
Illinois	Wisconsin	-	W	W	-	-	-	-
Indiana	Alabama	-	W	W	W	W	20.85	W
Indiana	Florida	-	-	W	34.04	35.00	34.42	29.56
Indiana	Georgia	W	W	W	36.26	W	W	30.45
Indiana	Indiana	4.17	3.85	5.04	6.34	6.84	6.57	6.38
Indiana	Iowa	W	-	-	-	-	-	-
Indiana	Kentucky	W	W	W	W	W	W	W
Indiana	Michigan	W	-	-	-	-	-	-
Indiana	Minnesota	-	W	W	-	-	-	-
Indiana	New York	-	-	W	W	W	W	W
Indiana	North Carolina	-	-	-	W	W	-	-
Indiana	South Carolina	W	-	-	-	-	-	-
Indiana	Tennessee	-	W	W	W	W	W	W
Indiana	Wisconsin	W	W	-	-	-	-	-
Kentucky	Alabama	W	W	W	W	W	W	14.43
Kentucky	Delaware	W	W	-	-	-	W	-
Kentucky	Florida	27.22	34.85	33.82	32.52	34.04	34.89	30.38
Kentucky	Georgia	26.80	24.78	29.23	19.47	21.38	22.96	19.94
Kentucky	Indiana	W	W	-	W	-	-	-
Kentucky	Kentucky	8.35	8.47	11.45	10.67	6.54	7.06	7.77
Kentucky	Maryland	26.76	25.75	26.81	29.12	30.17	W	W
Kentucky	Massachusetts	W	-	-	-	-	-	-
Kentucky	Michigan	15.89	17.73	16.10	19.90	17.97	17.38	18.25

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Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014
Kentucky	Mississippi	W	W	W	W	W	W	W
Kentucky	Missouri	W	W	W	W	-	-	-
Kentucky	New Jersey	W	-	-	-	-	-	-
Kentucky	New York	W	W	-	-	-	-	-
Kentucky	North Carolina	24.29	23.48	24.84	25.91	25.62	27.59	28.81
Kentucky	Ohio	W	W	-	W	-	W	W
Kentucky	Pennsylvania	28.53	W	-	W	-	W	-
Kentucky	South Carolina	14.33	19.65	20.61	25.68	28.05	30.84	29.09
Kentucky	Tennessee	15.14	14.32	15.38	16.57	16.54	13.42	13.94
Kentucky	Virginia	20.62	19.47	21.12	21.17	21.20	20.52	18.95
Kentucky	West Virginia	-	-	15.80	11.35	14.07	W	W
Maryland	Maryland	-	W	-	-	-	-	-
Missouri	Missouri	-	-	W	W	-	-	-
Montana	Arizona	W	W	W	W	W	W	W
Montana	Colorado	-	W	-	-	-	-	-
Montana	Illinois	-	-	-	W	-	-	-
Montana	Indiana	W	W	W	-	-	-	-
Montana	Michigan	16.80	13.12	14.20	27.93	30.93	28.22	27.09
Montana	Minnesota	14.83	16.86	17.19	19.37	18.54	18.27	18.46
Montana	Missouri	-	-	-	-	-	W	-
Montana	Montana	-	-	-	W	-	-	-
Montana	New York	43.10	W	-	-	-	-	-
Montana	North Dakota	W	W	W	W	W	W	W
Montana	Ohio	50.67	43.46	35.95	W	W	-	-
Montana	Oklahoma	-	-	-	W	-	-	-
Montana	Oregon	-	W	W	W	-	-	-
Montana	Pennsylvania	W	W	W	-	-	-	-
Montana	South Dakota	-	-	-	-	W	W	W
Montana	Texas	-	-	W	-	-	-	-
Montana	Washington	W	W	W	W	W	W	W
Montana	Wisconsin	-	W	W	31.64	W	W	W
New Mexico	Arizona	8.16	10.68	10.15	9.75	8.75	9.36	9.76
North Dakota	North Dakota	W	W	W	W	W	W	4.82
Ohio	Delaware	-	-	-	W	-	-	-
Ohio	Maryland	-	-	W	25.74	27.85	W	W
Ohio	Michigan	W	W	W	10.32	W	-	-
Ohio	New Jersey	-	-	-	-	W	W	-
Ohio	New York	W	-	W	W	W	-	-
Ohio	North Carolina	-	W	-	-	-	-	-
Ohio	Ohio	-	W	W	W	W	W	W
Ohio	Pennsylvania	20.28	W	W	25.44	29.10	W	23.23
Ohio	West Virginia	-	-	-	W	W	-	W
Ohio	Wisconsin	-	-	-	-	W	-	-
Oklahoma	Kansas	-	-	-	W	-	-	-
Oklahoma	Missouri	-	-	-	W	W	W	-
Pennsylvania	Delaware	W	-	W	-	-	W	W
Pennsylvania	Florida	-	W	W	W	-	-	W
Pennsylvania	Georgia	-	W	-	W	-	-	W
Pennsylvania	Indiana	21.48	16.81	18.25	W	W	W	21.39
Pennsylvania	Maine	-	-	-	-	W	-	-
Pennsylvania	Maryland	22.72	22.12	22.53	26.12	23.68	20.47	18.28
Pennsylvania	Massachusetts	-	-	-	-	W	W	-
Pennsylvania	Michigan	W	W	W	W	W	17.82	14.36
Pennsylvania	New Hampshire	W	W	W	W	W	W	W
Pennsylvania	New Jersey	W	W	W	W	W	W	26.89
Pennsylvania	New York	23.68	26.10	27.14	26.65	W	W	W
Pennsylvania	North Carolina	-	27.02	-	W	32.89	33.48	34.98
Pennsylvania	Ohio	14.87	12.05	11.52	12.02	13.71	16.98	16.21
Pennsylvania	Pennsylvania	12.95	13.86	16.01	15.82	16.47	13.23	14.7
Pennsylvania	South Carolina	14.32	W	W	W	W	-	-
Pennsylvania	Virginia	-	W	W	-	W	W	W
Pennsylvania	West Virginia	W	W	W	W	W	W	W
Pennsylvania	Wisconsin	-	W	W	W	W	W	W
Tennessee	Alabama	-	W	-	-	-	-	W
Tennessee	Georgia	26.61	26.33	27.29	W	-	-	-
Tennessee	North Carolina	W	W	-	-	-	-	-
Tennessee	South Carolina	W	-	-	-	-	-	-
Tennessee	Tennessee	-	W	W	W	-	-	W

**Table 4c. Real Average Annual Coal Transportation Costs from State to State by Railroad
(2014 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014
Tennessee	Virginia	-	-	W	-	-	-	-
Texas	Texas	-	-	-	-	-	W	W
Utah	Alabama	W	W	W	W	W	-	-
Utah	California	32.15	35.33	39.77	38.65	W	W	W
Utah	Kentucky	W	W	W	W	W	-	-
Utah	Michigan	W	-	-	-	-	-	-
Utah	Missouri	W	W	W	W	W	-	-
Utah	Nebraska	W	W	-	-	-	-	-
Utah	Nevada	W	W	W	W	W	W	W
Utah	Tennessee	W	W	W	-	W	W	-
Utah	Utah	-	-	-	W	W	W	W
Utah	Wisconsin	W	W	-	-	-	-	-
Virginia	Alabama	W	W	W	-	-	-	W
Virginia	Florida	W	W	29.69	W	W	-	W
Virginia	Georgia	28.01	26.50	28.97	30.19	31.87	W	W
Virginia	Maryland	-	W	-	-	-	-	-
Virginia	Michigan	-	-	-	-	-	-	W
Virginia	Mississippi	W	W	W	W	W	W	W
Virginia	New Hampshire	W	W	W	W	W	-	-
Virginia	New Jersey	W	W	W	W	W	W	W
Virginia	North Carolina	23.65	20.98	21.32	21.67	23.65	W	24.42
Virginia	Ohio	W	W	W	W	-	-	-
Virginia	Pennsylvania	W	-	-	-	-	-	-
Virginia	South Carolina	13.53	12.67	W	32.51	32.73	31.08	W
Virginia	Tennessee	9.02	10.50	15.17	17.42	W	-	-
Virginia	Virginia	14.35	11.03	11.21	14.08	16.96	18.15	17.71
Virginia	West Virginia	-	-	-	W	W	W	-
West Virginia	Alabama	W	W	-	-	-	-	-
West Virginia	Delaware	W	W	W	-	-	-	W
West Virginia	Florida	33.71	30.54	34.38	34.44	25.88	27.02	32.53
West Virginia	Georgia	30.42	27.61	32.30	29.35	W	34.56	W
West Virginia	Indiana	21.60	18.29	W	W	-	W	-
West Virginia	Kentucky	W	9.50	W	W	W	-	-
West Virginia	Maryland	22.41	23.21	22.04	25.33	25.48	23.50	20.32
West Virginia	Massachusetts	-	W	W	W	-	-	-
West Virginia	Michigan	19.32	18.64	19.90	20.90	18.61	20.70	20.78
West Virginia	Mississippi	W	W	W	W	-	-	-
West Virginia	New Hampshire	W	W	W	W	W	W	W
West Virginia	New Jersey	W	W	-	W	W	6.59	W
West Virginia	New York	15.81	18.51	24.09	25.55	27.62	W	W
West Virginia	North Carolina	25.17	21.34	23.25	24.52	24.16	26.76	26.73
West Virginia	Ohio	21.64	12.60	11.28	12.38	W	-	W
West Virginia	Pennsylvania	20.34	17.92	17.17	18.25	20.83	24.02	21.38
West Virginia	South Carolina	16.83	25.38	26.41	26.09	25.77	28.75	30.28
West Virginia	Tennessee	12.04	W	20.63	22.26	W	W	W
West Virginia	Virginia	22.51	19.46	20.55	19.94	20.98	19.04	19.4
West Virginia	West Virginia	W	9.64	9.14	9.70	10.05	7.79	9.91
West Virginia	Wisconsin	W	-	W	W	-	W	W
Wyoming	Alabama	W	W	W	W	W	18.99	18.08
Wyoming	Arizona	23.89	W	W	W	25.18	25.45	25.22
Wyoming	Arkansas	W	19.46	19.61	21.46	22.09	23.84	23.88
Wyoming	Colorado	12.43	12.36	12.34	13.17	13.67	13.76	12.63
Wyoming	Florida	W	-	-	-	-	W	W
Wyoming	Georgia	W	W	W	W	W	W	W
Wyoming	Illinois	16.37	15.98	16.92	17.08	19.77	21.37	22.08
Wyoming	Indiana	24.60	21.73	21.79	31.70	31.10	29.39	W
Wyoming	Iowa	11.16	10.56	10.86	11.17	11.33	15.88	15.58
Wyoming	Kansas	14.90	14.29	15.27	18.64	19.01	17.90	17.66
Wyoming	Kentucky	25.38	W	W	W	W	W	W
Wyoming	Louisiana	W	W	W	W	W	31.72	27.65
Wyoming	Maryland	W	W	W	W	W	W	W
Wyoming	Michigan	20.20	20.13	20.39	32.78	36.24	34.44	30.61
Wyoming	Minnesota	19.22	19.68	22.06	22.71	22.38	22.24	21.83
Wyoming	Mississippi	W	W	W	W	W	W	W
Wyoming	Missouri	16.31	13.91	15.02	17.64	19.15	19.18	20.16
Wyoming	Montana	W	W	W	W	W	W	W
Wyoming	Nebraska	8.92	10.78	11.67	12.35	14.82	13.98	12.6
Wyoming	Nevada	W	26.29	31.05	31.12	24.78	W	W
Wyoming	New Jersey	-	-	-	W	W	-	-
Wyoming	New York	-	-	-	-	-	W	W
Wyoming	North Dakota	W	W	W	W	W	W	W
Wyoming	Ohio	29.88	27.82	33.20	37.42	42.09	W	44.96
Wyoming	Oklahoma	14.80	19.68	19.15	19.49	21.70	22.92	22.09
Wyoming	Oregon	W	W	W	W	W	W	W
Wyoming	South Dakota	W	W	W	W	W	W	W

**Table 4c. Real Average Annual Coal Transportation Costs from State to State by Railroad
(2014 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014
Wyoming	Tennessee	25.78	22.97	24.18	27.93	30.49	26.19	24.82
Wyoming	Texas	15.22	15.64	21.66	21.97	20.77	23.80	24.46
Wyoming	Washington	W	W	W	W	W	W	W
Wyoming	West Virginia	-	W	W	-	W	-	-
Wyoming	Wisconsin	20.66	21.08	21.46	26.77	25.82	26.07	24.98
Wyoming	Wyoming	6.92	5.66	5.59	5.76	5.90	5.93	6.29

Source: U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

W = Withheld to avoid disclosure of individual company data.

Notes: Rates are based on a weighted average of the difference between the commodity cost and total delivered cost of coal shipments to plants in the electric power sector. In addition, the rates are based on the primary transport mode selected by a plant's owner or operator so may include other secondary or tertiary modes. Values are presented in 2014 dollars and were converted using the Implicit Price Deflators for Gross Domestic Product, as published by the U.S. Bureau of Economic Analysis. For the composition of coal basins, refer to the definition of "coal-producing regions" in EIA's glossary at www.eia.gov/tools/glossary.