

**Table 4c. Average Annual Coal Transportation Costs from State to State by Railroad
(2021 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Alabama	Alabama	\$18.07	W	W	W	W	W	W	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	W	W	W	W	W	-	-
Colorado	Alabama	\$43.47	W	W	W	W	W	W	-	-	-	-	-	-	-
Colorado	Arizona	W	W	-	W	W	-	W	W	W	W	-	-	W	W
Colorado	Arkansas	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	California	-	W	W	-	-	-	-	-	-	-	-	-	-	-
Colorado	Colorado	\$17.83	\$10.56	\$11.14	\$13.26	\$12.70	\$12.22	\$12.00	\$10.40	\$10.74	\$7.91	W	W	W	W
Colorado	Florida	-	-	-	-	-	W	-	W	W	W	W	-	-	-
Colorado	Georgia	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	Illinois	-	-	W	W	W	W	-	-	-	-	W	W	W	-
Colorado	Indiana	-	W	W	-	-	-	W	-	-	-	-	-	-	-
Colorado	Iowa	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Colorado	Kentucky	W	W	W	W	W	W	W	W	-	W	-	-	-	-
Colorado	Maryland	-	-	-	-	-	-	W	W	W	W	W	W	-	-
Colorado	Michigan	W	W	W	\$38.66	W	W	W	-	-	-	-	-	W	W
Colorado	Mississippi	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Colorado	Nevada	W	W	W	-	-	-	W	W	W	-	-	W	W	W
Colorado	New Mexico	-	-	-	-	-	-	-	-	-	-	-	W	-	-
Colorado	New York	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Colorado	Ohio	-	-	-	-	-	-	-	-	W	W	W	W	W	W
Colorado	Oklahoma	-	W	-	W	W	-	-	-	-	-	-	-	-	W
Colorado	Tennessee	\$30.81	\$28.94	\$31.19	\$35.48	\$35.87	\$32.98	\$33.98	-	-	-	-	-	-	-
Colorado	Utah	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Colorado	Virginia	-	W	W	W	W	-	-	-	-	-	-	-	-	-
Colorado	Wisconsin	W	W	W	W	W	-	W	-	W	-	-	-	-	-
Illinois	Alabama	W	W	-	W	W	W	\$20.03	W	W	W	W	-	-	-
Illinois	Florida	W	W	-	W	W	\$43.86	\$36.20	\$33.25	\$32.82	\$28.64	\$28.85	\$29.18	\$20.25	\$21.64
Illinois	Georgia	W	-	W	\$46.71	\$43.99	\$31.72	\$30.01	\$37.02	\$37.11	\$37.39	\$34.65	W	W	W
Illinois	Illinois	W	W	W	W	\$13.73	W	-	-	-	-	-	-	-	-
Illinois	Indiana	\$14.08	\$15.77	\$16.22	\$16.86	\$17.66	\$17.56	\$15.97	\$16.57	\$18.04	\$14.93	\$12.57	W	W	W
Illinois	Iowa	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	Kentucky	-	-	-	W	W	W	-	-	-	-	W	-	-	W
Illinois	Maryland	-	-	-	-	-	W	-	-	-	-	-	-	-	-
Illinois	Michigan	W	W	W	W	W	W	W	-	-	-	-	-	-	-
Illinois	Minnesota	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	Mississippi	-	-	W	-	W	W	-	-	-	W	-	-	-	-
Illinois	Missouri	W	-	W	W	W	W	W	W	W	W	W	W	W	W
Illinois	North Carolina	-	-	-	-	W	\$48.83	\$50.08	W	W	W	W	-	-	-
Illinois	Ohio	W	-	-	-	W	-	-	-	-	-	-	-	-	-
Illinois	Pennsylvania	-	-	-	-	-	W	W	-	-	-	-	-	-	-
Illinois	South Carolina	-	-	W	W	W	W	W	W	W	W	W	W	W	W
Illinois	Tennessee	W	-	-	-	\$24.42	-	W	W	W	W	W	W	W	W
Illinois	West Virginia	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Illinois	Wisconsin	-	W	W	-	-	-	-	-	-	-	-	-	-	-
Indiana	Alabama	-	W	W	W	W	\$23.97	W	\$22.65	W	W	W	W	-	-
Indiana	Florida	-	-	W	\$39.19	\$40.28	\$39.57	\$33.90	\$28.52	\$27.82	\$25.77	\$26.52	\$28.52	\$22.07	\$32.08
Indiana	Georgia	W	W	W	\$41.74	W	W	\$34.93	W	\$37.70	W	W	W	W	W
Indiana	Indiana	\$4.80	\$4.44	\$5.80	\$7.29	\$7.87	\$7.55	\$7.32	\$6.97	\$6.86	\$6.39	\$6.61	\$6.18	\$6.24	\$6.47

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(2021 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Indiana	Iowa	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Indiana	Kentucky	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Indiana	Michigan	W	-	-	-	-	-	-	-	W	-	-	-	-	-
Indiana	Minnesota	-	W	W	-	-	-	-	-	-	-	-	-	-	-
Indiana	New York	-	-	W	W	W	W	W	-	-	W	-	-	-	-
Indiana	North Carolina	-	-	-	W	W	-	-	-	-	\$34.70	W	W	W	W
Indiana	South Carolina	W	-	-	-	-	-	-	-	-	-	W	W	-	-
Indiana	Tennessee	-	W	W	W	W	W	W	W	W	W	W	W	W	W
Indiana	Wisconsin	W	W	-	-	-	-	-	-	W	-	-	-	-	-
Kansas	Georgia	-	-	-	-	-	-	-	-	W	-	-	-	-	-
Kentucky	Alabama	W	W	W	W	W	W	\$16.55	W	-	-	-	-	-	-
Kentucky	Delaware	W	W	-	-	-	W	-	-	-	-	-	-	-	-
Kentucky	Florida	\$31.30	\$40.12	\$38.90	\$37.44	\$39.18	\$40.11	\$34.85	\$32.41	\$30.43	\$30.52	\$31.25	\$30.71	W	\$16.84
Kentucky	Georgia	\$30.79	\$28.49	\$33.65	\$22.42	\$24.30	\$26.03	\$21.65	\$34.59	W	W	W	W	-	W
Kentucky	Indiana	W	W	-	W	-	-	-	-	-	-	-	-	-	-
Kentucky	Kentucky	\$9.60	\$9.75	\$13.18	\$12.28	\$7.53	\$8.11	\$8.91	\$7.42	\$6.40	W	W	\$6.09	\$5.98	\$6.01
Kentucky	Maryland	\$29.43	\$29.25	\$30.39	\$28.18	W	W	W	W	W	-	-	-	-	-
Kentucky	Massachusetts	W	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	Michigan	\$18.27	\$20.41	\$18.42	\$22.91	\$20.68	\$19.98	\$20.94	\$18.43	W	-	-	-	-	-
Kentucky	Mississippi	W	W	W	W	W	W	W	W	W	-	-	-	-	-
Kentucky	Missouri	W	W	W	W	-	-	-	-	-	-	-	-	-	-
Kentucky	New Jersey	W	-	-	-	-	-	-	-	-	-	-	W	W	W
Kentucky	New York	W	W	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	North Carolina	\$27.75	\$26.96	\$28.48	\$29.83	\$29.49	\$31.59	\$32.63	\$29.20	\$25.58	\$28.81	\$31.93	\$25.71	\$21.34	W
Kentucky	Ohio	W	W	-	W	-	W	W	W	-	-	-	-	-	-
Kentucky	Pennsylvania	\$32.81	W	-	W	-	W	-	-	-	-	-	-	-	-
Kentucky	South Carolina	\$16.23	\$20.86	\$22.36	\$28.81	\$32.11	\$33.06	\$32.17	\$31.28	\$30.64	\$32.01	\$28.64	\$28.60	\$30.78	\$27.26
Kentucky	Tennessee	\$17.41	\$16.49	\$17.70	\$19.07	\$19.04	\$15.43	\$15.99	W	W	W	W	W	W	W
Kentucky	Virginia	\$23.65	\$22.41	\$24.23	\$24.38	\$24.40	\$23.57	\$21.43	\$20.25	\$23.35	\$23.86	\$23.29	\$20.74	W	W
Kentucky	West Virginia	-	-	\$18.19	\$13.07	\$16.19	W	W	-	W	W	W	W	-	-
Maryland	Maryland	-	W	-	-	-	-	-	-	-	-	-	-	-	-
Maryland	West Virginia	-	-	-	-	-	-	-	W	-	-	-	-	W	-
Missouri	Missouri	-	-	W	W	-	-	-	-	-	-	-	-	-	-
Montana	Alabama	-	-	-	-	-	-	-	-	-	W	-	-	-	-
Montana	Arizona	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Montana	Colorado	-	W	-	-	-	-	-	-	-	-	-	-	-	-
Montana	Illinois	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Montana	Indiana	W	W	W	-	-	-	-	-	-	-	-	-	-	-
Montana	Michigan	\$19.31	\$15.11	\$16.35	\$32.15	\$35.60	\$32.44	\$31.07	\$29.76	\$26.67	\$24.02	\$25.49	W	W	W
Montana	Minnesota	\$16.51	\$18.63	\$18.88	\$21.40	\$19.99	\$19.36	\$20.65	\$20.40	W	W	\$24.12	W	\$19.07	\$20.16
Montana	Missouri	-	-	-	-	-	W	-	-	-	-	-	-	-	-
Montana	Montana	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Montana	New York	\$49.56	W	-	-	-	-	-	-	-	-	-	-	-	-
Montana	North Dakota	W	W	W	W	W	W	W	W	W	W	-	-	-	-
Montana	Ohio	\$58.26	\$50.03	\$41.39	W	W	-	-	-	-	-	-	W	-	-
Montana	Oklahoma	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Montana	Oregon	-	W	W	W	-	-	-	-	-	-	-	-	-	-
Montana	Pennsylvania	W	W	W	W	-	-	-	-	-	-	-	-	-	-
Montana	South Dakota	-	-	-	-	W	W	W	-	-	-	-	-	-	-
Montana	Texas	-	-	W	-	-	-	-	-	-	-	-	-	-	-
Montana	Washington	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Montana	Wisconsin	-	W	W	\$36.43	W	W	W	W	-	-	-	-	-	-
New Mexico	Arizona	\$9.38	\$12.30	\$11.68	\$11.23	\$10.07	\$10.76	\$11.19	\$10.40	\$8.90	\$9.24	\$8.13	\$8.34	\$8.12	\$8.04
New Mexico	New Mexico	-	-	-	-	-	-	-	-	W	W	W	W	W	-

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(2021 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
North Dakota	North Dakota	W	W	W	W	W	W	\$5.53	\$6.58	\$6.43	\$6.14	\$6.36	\$5.87	\$5.53	\$6.19
Ohio	Delaware	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Ohio	Maryland	-	-	W	\$29.63	\$32.06	W	W	W	W	\$32.90	W	-	-	-
Ohio	Michigan	W	W	W	\$11.88	W	-	-	-	-	-	-	-	-	-
Ohio	New Jersey	-	-	-	-	W	W	-	-	-	-	-	-	-	W
Ohio	New York	W	-	W	W	W	-	-	-	-	-	-	-	-	-
Ohio	North Carolina	-	W	-	-	-	-	-	-	-	-	-	-	-	-
Ohio	Ohio	-	W	W	W	W	W	W	W	W	-	-	-	-	-
Ohio	Pennsylvania	\$23.32	W	W	\$29.29	\$33.49	W	\$26.65	W	W	-	-	-	-	-
Ohio	West Virginia	-	-	-	W	W	-	W	-	-	-	-	-	-	-
Ohio	Wisconsin	-	-	-	-	W	-	-	-	-	-	-	-	-	-
Oklahoma	Kansas	-	-	-	W	-	-	-	-	-	-	-	-	-	-
Oklahoma	Missouri	-	-	-	W	W	W	-	-	-	-	-	-	-	-
Pennsylvania	Alabama	-	-	-	-	-	-	-	-	W	-	-	-	-	-
Pennsylvania	Delaware	W	-	W	-	-	W	W	W	W	W	W	W	-	-
Pennsylvania	Florida	-	W	W	W	-	-	W	W	W	W	-	-	-	W
Pennsylvania	Georgia	-	W	-	W	-	-	W	W	W	W	W	W	W	W
Pennsylvania	Indiana	\$24.70	\$19.35	\$21.01	W	W	W	\$24.53	W	W	W	W	W	W	-
Pennsylvania	Maine	-	-	-	-	W	-	-	-	-	-	-	-	-	-
Pennsylvania	Maryland	\$26.13	\$25.47	\$25.94	\$29.76	\$27.25	\$23.54	\$20.97	\$24.44	\$24.69	\$23.53	\$22.68	\$21.90	\$26.10	\$21.57
Pennsylvania	Massachusetts	-	-	-	-	W	W	-	-	-	-	-	-	-	-
Pennsylvania	Michigan	W	W	W	W	W	\$20.48	\$16.47	\$15.65	\$14.96	\$10.86	W	\$10.60	W	W
Pennsylvania	New Hampshire	W	W	W	W	W	W	W	W	W	-	-	-	-	-
Pennsylvania	New Jersey	W	W	W	W	W	\$29.06	\$30.84	W	W	W	W	W	W	-
Pennsylvania	New York	\$27.23	\$30.04	\$31.25	\$30.68	W	W	W	W	W	W	W	-	-	-
Pennsylvania	North Carolina	-	\$31.10	-	W	\$37.85	\$38.49	\$40.12	\$36.75	\$34.87	\$34.44	\$35.11	\$18.61	\$15.74	\$23.80
Pennsylvania	Ohio	\$17.04	\$13.88	\$13.26	\$13.83	\$15.59	\$19.39	\$18.11	W	-	-	-	-	-	-
Pennsylvania	Pennsylvania	\$14.89	\$15.96	\$18.43	\$18.21	\$18.96	\$15.17	\$16.86	\$15.56	\$10.16	\$10.07	\$11.37	\$11.69	\$11.76	\$10.70
Pennsylvania	South Carolina	\$16.47	W	W	W	-	-	-	-	W	-	-	-	-	-
Pennsylvania	Virginia	-	W	W	-	W	W	W	W	W	W	W	W	W	W
Pennsylvania	West Virginia	W	W	W	W	W	W	W	W	W	W	W	W	W	-
Pennsylvania	Wisconsin	-	W	W	W	W	W	W	W	W	W	W	W	W	W
Tennessee	Alabama	-	W	-	-	-	-	W	-	-	-	-	-	-	-
Tennessee	Florida	-	-	-	-	-	-	-	-	-	W	-	-	-	-
Tennessee	Georgia	\$30.60	\$30.32	\$31.42	W	-	-	-	-	-	-	-	-	-	-
Tennessee	New Jersey	-	-	-	-	-	-	-	-	W	-	-	-	-	-
Tennessee	North Carolina	W	W	-	-	-	-	-	W	W	-	-	-	-	-
Tennessee	Tennessee	-	W	W	W	-	-	W	W	W	W	-	W	-	-
Tennessee	Virginia	-	-	W	-	-	-	-	-	-	-	-	-	-	-
Texas	Texas	-	-	-	-	-	W	W	-	-	W	W	W	W	W
Utah	Alabama	W	W	W	W	W	-	-	-	-	-	-	-	-	-
Utah	California	\$36.97	\$40.67	\$45.79	\$44.49	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	W	W	-	W	W	W	W
Utah	Pennsylvania	-	-	-	-	-	-	-	-	W	-	-	-	-	-
Utah	Tennessee	W	W	W	-	W	W	-	-	-	-	-	-	-	W
Utah	Utah	-	-	-	W	W	W	W	W	W	W	W	W	W	W
Utah	Wisconsin	W	W	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	Alabama	W	W	W	-	-	-	W	-	-	-	-	-	-	-
Virginia	Florida	W	W	\$34.18	W	W	-	W	W	-	-	-	-	-	-
Virginia	Georgia	\$32.21	\$30.51	\$33.35	\$34.75	\$36.68	W	W	W	W	W	W	-	-	-

**Table 4c. Average Annual Coal Transportation Costs from State to State by Railroad
(2021 dollars per ton)**

Origin State	Destination State	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Wyoming	New York	-	-	-	-	-	W	W	W	-	-	-	-	-	-
Wyoming	North Dakota	W	W	W	W	W	W	W	W	W	W	-	-	-	-
Wyoming	Ohio	\$34.03	\$31.56	\$38.06	\$43.08	\$48.44	W	\$51.57	W	W	W	W	W	W	W
Wyoming	Oklahoma	\$16.12	\$22.39	\$20.91	\$19.16	\$22.74	\$25.11	\$25.34	\$24.32	\$22.60	\$22.72	\$22.04	\$20.36	\$18.15	\$19.13
Wyoming	Oregon	W	W	W	W	W	W	W	W	W	W	W	W	W	-
Wyoming	South Dakota	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Wyoming	Tennessee	\$29.64	\$26.26	\$27.71	\$32.16	\$35.09	\$30.10	\$28.47	W	W	W	W	W	W	W
Wyoming	Texas	\$17.50	\$18.00	\$24.94	\$25.29	\$23.90	\$27.36	\$28.05	\$25.61	\$24.14	\$24.00	\$23.90	\$22.91	\$20.70	\$22.14
Wyoming	Washington	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Wyoming	West Virginia	-	W	W	-	W	-	-	-	-	-	-	-	-	-
Wyoming	Wisconsin	\$23.76	\$24.26	\$24.71	\$30.82	\$29.71	\$29.97	\$28.65	\$28.91	\$27.32	\$27.89	\$29.38	\$28.46	\$23.10	\$24.36
Wyoming	Wyoming	\$5.60	\$5.96	\$6.44	\$6.62	\$6.78	\$6.81	\$7.21	\$7.00	\$6.92	\$6.93	\$7.10	\$7.11	\$6.69	\$6.84

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 nominal dollars. For the composition of coal basins, refer to the definition of "coal-producing regions" in EIA's glossary at www.eia.gov/tools/glossary.