APPENDIX 7

Rail Commodity Flow Tables

INBOUND RAIL COMMODITY FLOWS, 2024-2050

Source: USDOT/BTS Freight Analysis Framework ver. 5.7.1

Destination (State)	Commodity	Tonnage (thousands of tons)		Pct. Change	Value (millions of dollars)		Pct. Change
		2024	*2050*		*2024*	*2050*	
42-Pennsylvania	02-Cereal grains	479	753	57.3%	$98	$150	54.1%
42-Pennsylvania	03-Other ag prods.	133	122	-8.4%	$85	$89	4.6%
42-Pennsylvania	04-Animal feed	352	906	157.2%	$119	$209	76.6%
42-Pennsylvania	05-Meat/seafood	25	48	93.0%	$66	$108	64.5%
42-Pennsylvania	06-Milled grain prods.	128	466	265.4%	$87	$302	245.6%
42-Pennsylvania	07-Other foodstuffs	850	2,108	148.0%	$745	$1,138	52.8%
42-Pennsylvania	08-Alcoholic beverages	49	133	171.7%	$38	$91	136.6%
42-Pennsylvania	10-Building stone	0	0	87.2%	$0	$0	518.1%
42-Pennsylvania	11-Natural sands	488	850	74.1%	$13	$21	61.4%
42-Pennsylvania	12-Gravel	915	1,605	75.5%	$10	$18	84.4%
42-Pennsylvania	13-Nonmetallic minerals	270	285	5.3%	$36	$55	51.5%
42-Pennsylvania	14-Metallic ores	111	38	-65.8%	$12	$17	49.2%
42-Pennsylvania	15-Coal	15,241	1,942	-87.3%	$635	$79	-87.5%
42-Pennsylvania	16-Crude petroleum	2,585	2,030	-21.4%	$843	$638	-24.3%
42-Pennsylvania	17-Gasoline	893	2,249	151.8%	$357	$904	153.0%
42-Pennsylvania	18-Fuel oils	126	120	-5.0%	$80	$75	-5.5%
42-Pennsylvania	19-Natural gas and other fossil products	5,182	1,871	-63.9%	$2,523	$1,013	-59.8%
42-Pennsylvania	20-Basic chemicals	782	1,993	154.9%	$557	$1,040	86.5%
42-Pennsylvania	21-Pharmaceuticals	244	1,546	534.6%	$888	$904	1.8%
42-Pennsylvania	22-Fertilizers	181	730	303.3%	$50	$160	221.0%
42-Pennsylvania	23-Chemical prods.	151	385	155.4%	$174	$535	206.6%
42-Pennsylvania	24-Plastics/rubber	1,801	5,023	179.0%	$1,738	$4,887	181.2%
42-Pennsylvania	25-Logs	64	65	2.6%	$32	$30	-4.1%
42-Pennsylvania	26-Wood prods.	702	1,411	101.0%	$309	$591	91.3%
42-Pennsylvania	27-Newsprint/paper	1,110	2,529	127.9%	$646	$1,377	113.1%
42-Pennsylvania	28-Paper articles	68	109	59.7%	$41	$63	55.0%
42-Pennsylvania	29-Printed prods.	8	4	-52.2%	$6	$14	136.1%
42-Pennsylvania	30-Textiles/leather	34	99	187.9%	$325	$1,012	211.6%
42-Pennsylvania	31-Nonmetal min. prods.	774	812	4.9%	$92	$137	48.9%

INBOUND RAIL COMMODITY FLOWS, 2024-2050

Source: USDOT/BTS Freight Analysis Framework ver. 5.7.1

Destination (State)	Commodity	Tonnage (thousands of tons)		Pct. Change	Value (millions of dollars)		Pct. Change
		2024	*2050*		*2024*	*2050*	
42-Pennsylvania	32-Base metals	900	1,259	39.9%	$987	$1,707	73.0%
42-Pennsylvania	33-Articles-base metal	594	979	64.8%	$858	$1,461	70.3%
42-Pennsylvania	34-Machinery	111	232	110.3%	$908	$1,987	118.8%
42-Pennsylvania	35-Electronics	63	50	-19.9%	$697	$902	29.5%
42-Pennsylvania	36-Motorized vehicles	47	69	47.0%	$260	$485	86.4%
42-Pennsylvania	37-Transport equip.	48	62	28.2%	$146	$658	349.8%
42-Pennsylvania	38-Precision instruments	19	18	-5.7%	$84	$191	127.7%
42-Pennsylvania	39-Furniture	11	49	342.5%	$74	$138	85.0%
42-Pennsylvania	40-Misc. mfg. prods.	17	66	284.8%	$50	$210	318.7%
42-Pennsylvania	41-Waste/scrap	549	601	9.4%	$104	$90	-13.6%
42-Pennsylvania	43-Mixed freight	14	49	255.5%	$33	$196	498.1%

OUTBOUND RAIL COMMODITY FLOWS, 2024-2050

Source: USDOT/BTS Freight Analysis Framework ver. 5.7.1

Origin (State)	Commodity	Tonnage (thousands of tons)		Pct. Change	Value (millions of dollars)		Pct. Change
		2024	*2050*		*2024*	*2050*	
42-Pennsylvania	02-Cereal grains	4	7	64.3%	$3	$14	408.5%
42-Pennsylvania	03-Other ag prods.	241	2,123	780.8%	$324	$1,612	397.2%
42-Pennsylvania	04-Animal feed	70	445	539.4%	$48	$93	94.6%
42-Pennsylvania	05-Meat/seafood	63	86	36.5%	$394	$520	32.1%
42-Pennsylvania	06-Milled grain prods.	14	117	722.1%	$83	$178	113.4%
42-Pennsylvania	07-Other foodstuffs	187	1,301	594.0%	$441	$875	98.3%
42-Pennsylvania	08-Alcoholic beverages	2	73	4193.9%	$10	$54	461.5%
42-Pennsylvania	10-Building stone	0	0	674.5%	$0	$0	701.7%
42-Pennsylvania	11-Natural sands	143	152	6.0%	$4	$3	-36.7%
42-Pennsylvania	12-Gravel	1,480	2,550	72.3%	$15	$25	66.2%
42-Pennsylvania	13-Nonmetallic minerals	74	1,125	1421.6%	$9	$29	244.5%
42-Pennsylvania	14-Metallic ores	2	1,697	70551.1%	$2	$274	17692.5%
42-Pennsylvania	15-Coal	17,342	10,930	-37.0%	$918	$578	-37.0%
42-Pennsylvania	16-Crude petroleum	70	132	90.0%	$56	$40	-29.2%
42-Pennsylvania	17-Gasoline	47	157	230.7%	$23	$74	229.0%
42-Pennsylvania	18-Fuel oils	243	1,101	353.7%	$183	$114	-37.9%
42-Pennsylvania	19-Natural gas and other fossil products	4,363	482	-89.0%	$1,934	$157	-91.9%
42-Pennsylvania	20-Basic chemicals	220	486	121.2%	$377	$325	-14.0%
42-Pennsylvania	21-Pharmaceuticals	77	1,518	1878.2%	$218	$564	158.7%
42-Pennsylvania	22-Fertilizers	12	28	128.4%	$10	$10	-1.8%
42-Pennsylvania	23-Chemical prods.	35	41	17.9%	$79	$95	20.4%
42-Pennsylvania	24-Plastics/rubber	1,272	3,731	193.3%	$1,128	$3,308	193.2%
42-Pennsylvania	25-Logs	65	62	-5.3%	$33	$28	-13.6%
42-Pennsylvania	26-Wood prods.	125	292	134.2%	$72	$227	216.5%
42-Pennsylvania	27-Newsprint/paper	241	283	17.4%	$231	$206	-10.6%
42-Pennsylvania	28-Paper articles	18	16	-11.5%	$14	$18	33.2%
42-Pennsylvania	29-Printed prods.	9	2	-78.8%	$6	$9	54.6%
42-Pennsylvania	30-Textiles/leather	31	62	100.2%	$366	$851	132.4%
42-Pennsylvania	31-Nonmetal min. prods.	268	353	31.8%	$27	$73	168.5%

OUTBOUND RAIL COMMODITY FLOWS, 2024-2050

Source: USDOT/BTS Freight Analysis Framework ver. 5.7.1

Origin (State)	Commodity	Tonnage (thousands of tons)		Pct. Change	Value (millions of dollars)		Pct. Change
		2024	*2050*		*2024*	*2050*	
42-Pennsylvania	32-Base metals	857	1,114	30.0%	$585	$763	30.4%
42-Pennsylvania	33-Articles-base metal	551	933	69.5%	$779	$1,307	67.8%
42-Pennsylvania	34-Machinery	52	51	-1.8%	$196	$507	158.9%
42-Pennsylvania	35-Electronics	62	19	-70.2%	$701	$634	-9.5%
42-Pennsylvania	36-Motorized vehicles	53	75	41.2%	$597	$1,076	80.2%
42-Pennsylvania	37-Transport equip.	33	54	63.2%	$82	$807	888.1%
42-Pennsylvania	38-Precision instruments	135	2	-98.6%	$913	$92	-89.9%
42-Pennsylvania	39-Furniture	6	7	14.1%	$47	$33	-30.1%
42-Pennsylvania	40-Misc. mfg. prods.	93	67	-27.9%	$206	$201	-2.1%
42-Pennsylvania	41-Waste/scrap	636	913	43.6%	$123	$170	38.8%
42-Pennsylvania	43-Mixed freight	26	56	120.5%	$174	$340	95.3%