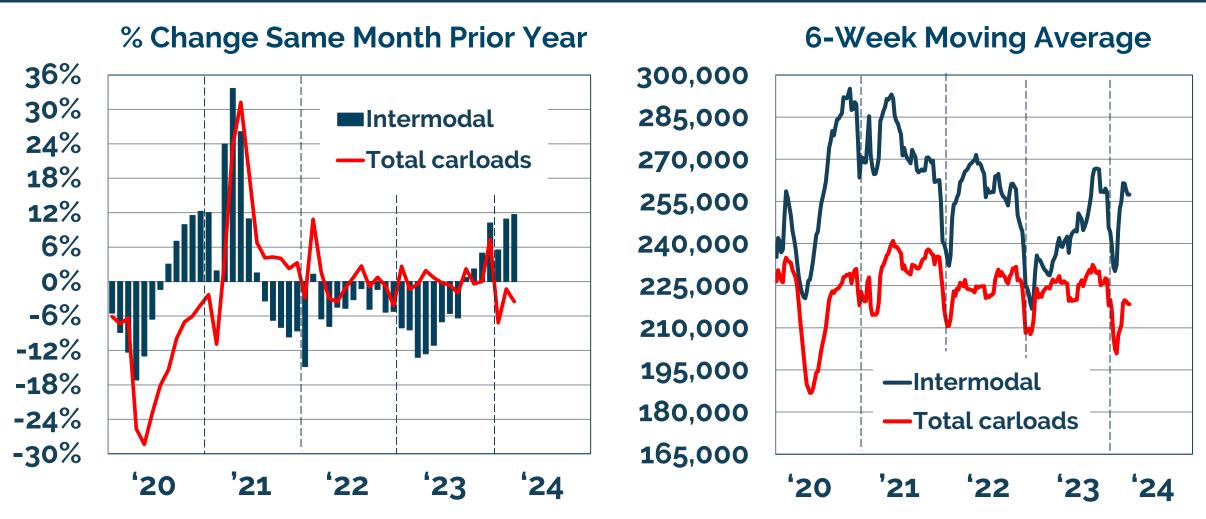


Railroad Update

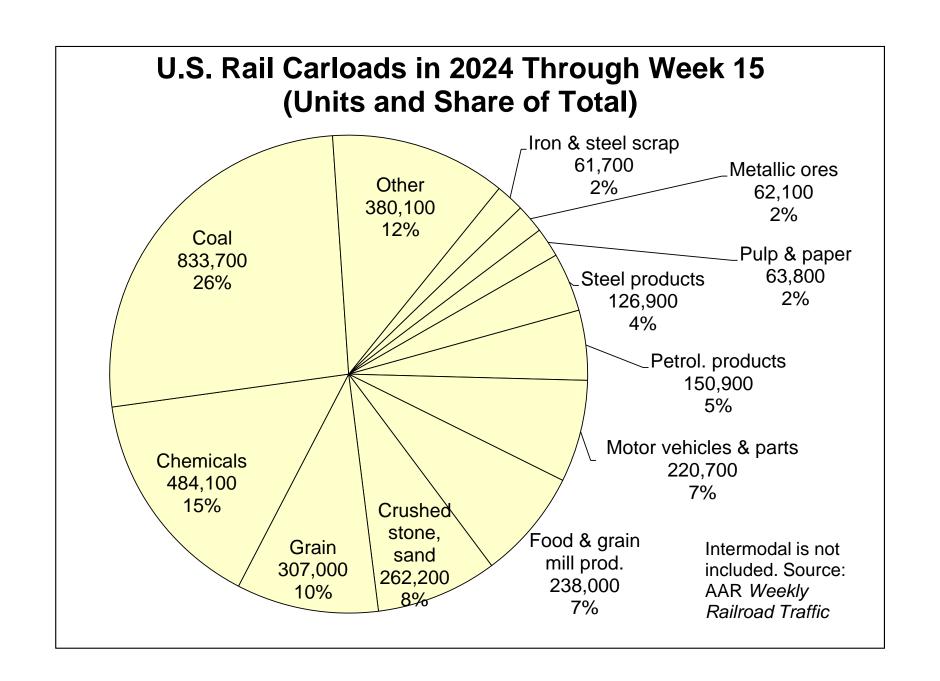
Rail Energy Transportation Advisory Committee

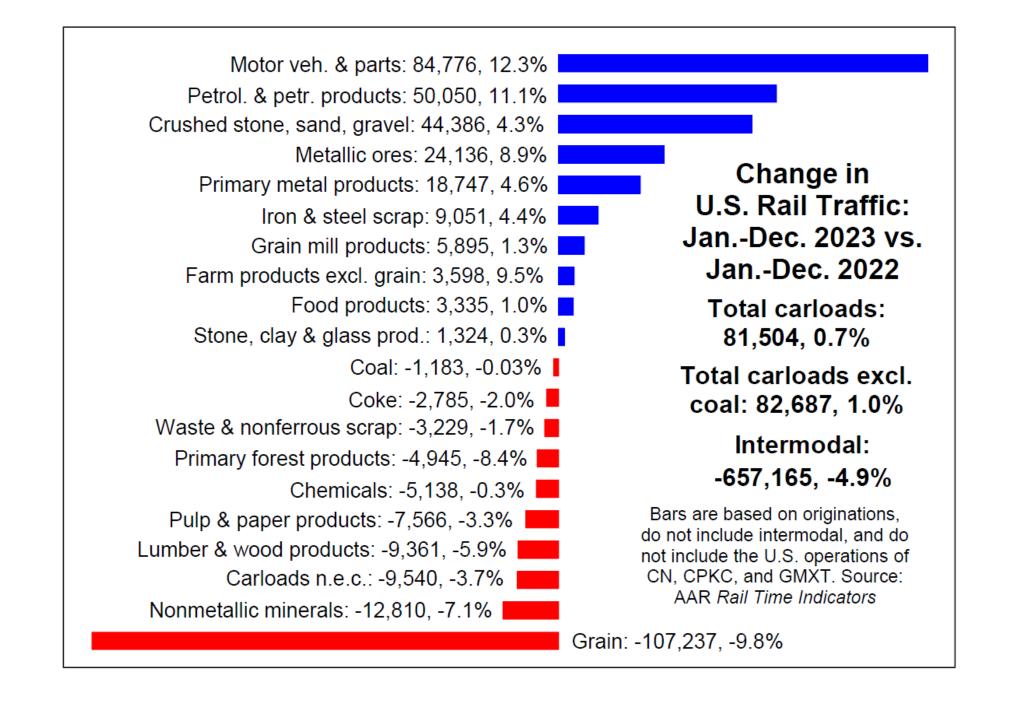
April 17, 2024

U.S. Rail Traffic: Jan. 2020-March 2024



Data are based on originations, are not seasonally adjusted, and don't include the U.S. operations of CN, CPKC, and GMXT. Source: AAR





Change in U.S. Rail Traffic: Jan.-March 2024 vs. Jan.-March 2023

Total carloads: -122,088, -4.2%

Total carloads excl. coal: -249, 0.0%

Intermodal: 272,238, 9.1%

Bars are based on originations, do not include intermodal, and do not include the U.S. operations of CN, CPKC, and GMXT. Source: AAR Rail Time Indicators

Coal: -121,839, -14.1%

Chemicals: 18,090, 4.5%

Petrol. & petr. products: 9,288, 7.7%

Motor veh. & parts: 6,384, 3.5%

Carloads n.e.c.: 3,293, 5.4%

Grain mill products: 1,388, 1.1%

Waste & nonferrous scrap: 1,299, 2.9%

Stone, clay & glass prod.: 935, 1.1%

Primary forest products: 820, 5.8%

Coke: 296, 0.9%

Lumber & wood products: 219, 0.6%

Primary metal products: 1, 0.0%

Iron & steel scrap: -305, -0.6%

Food products: -909, -1.1%

Farm products excl. grain: -921, -8.3%

Grain: -921, -0.3%

Pulp & paper products: -953, -1.7%

Metallic ores: -1,929, -3.5%

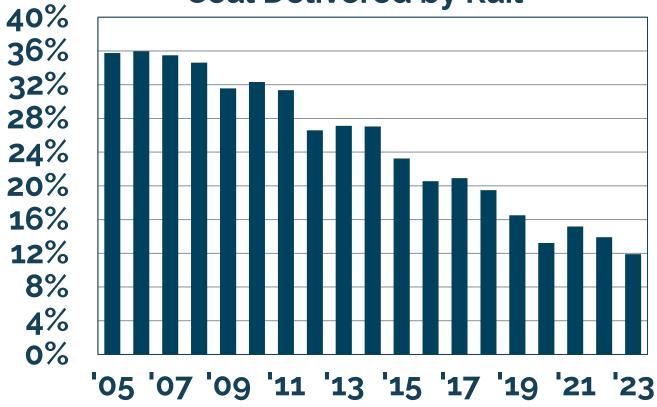
Nonmetallic minerals: -4,593, -11.9%

Crushed stone, sand, gravel: -31,731, -12.5%

Continued Decline for Coal

% Share U.S. Electricity Generation					
	2000	2010	2020	2023	
Coal	52%	45%	22%	16%	
Natural Gas	16%	24%	38%	43%	
Nuclear	20%	20%	19%	19%	
Renewables	2%	4%	13%	16%	
Hydro	7%	6%	6%	6%	
Other	3%	1%	1%	1%	
Source: Energy Information Administration					

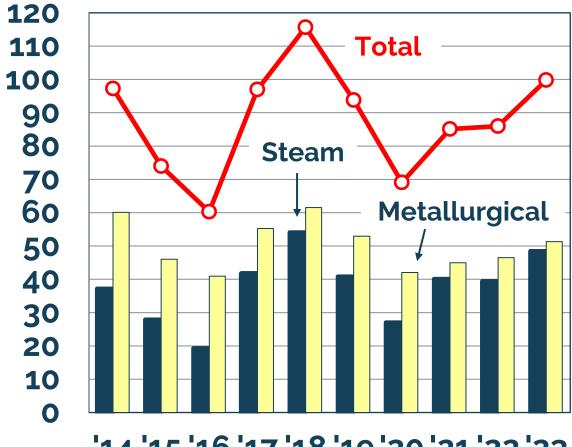
Share of U.S. Electricity Generated by Coal Delivered by Rail



Figures are estimates based on AAR analysis of EIA data.

U.S. Coal Exports

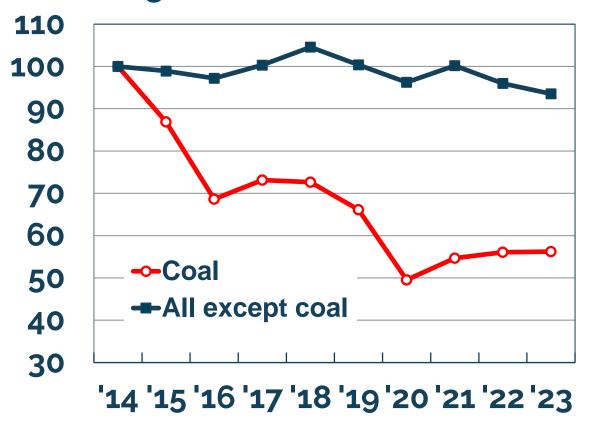
(millions of tons)



'14 '15 '16 '17 '18 '19 '20 '21 '22 '23

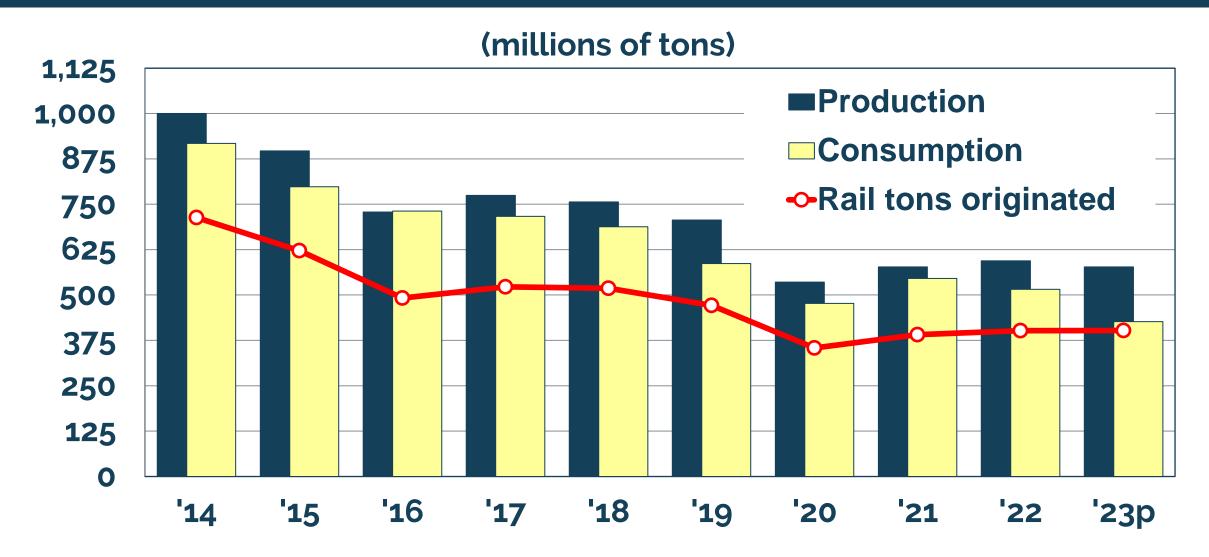
Source: Energy Information Administration

Originated Units (2014 = 100)

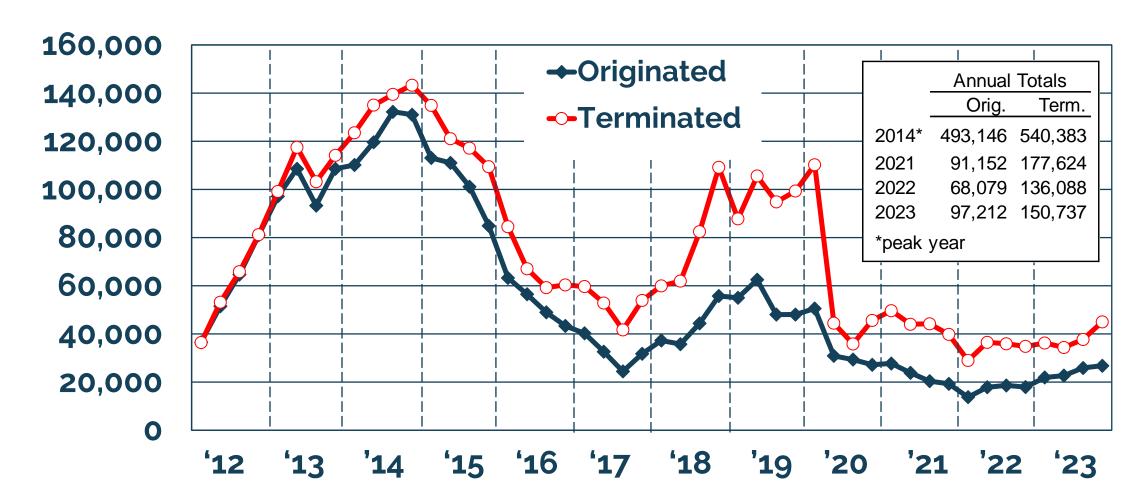


Data are for Class I railroads. Source: AAR Freight Commodity Statistics

U.S. Production, Consumption, and Rail Originations of Coal

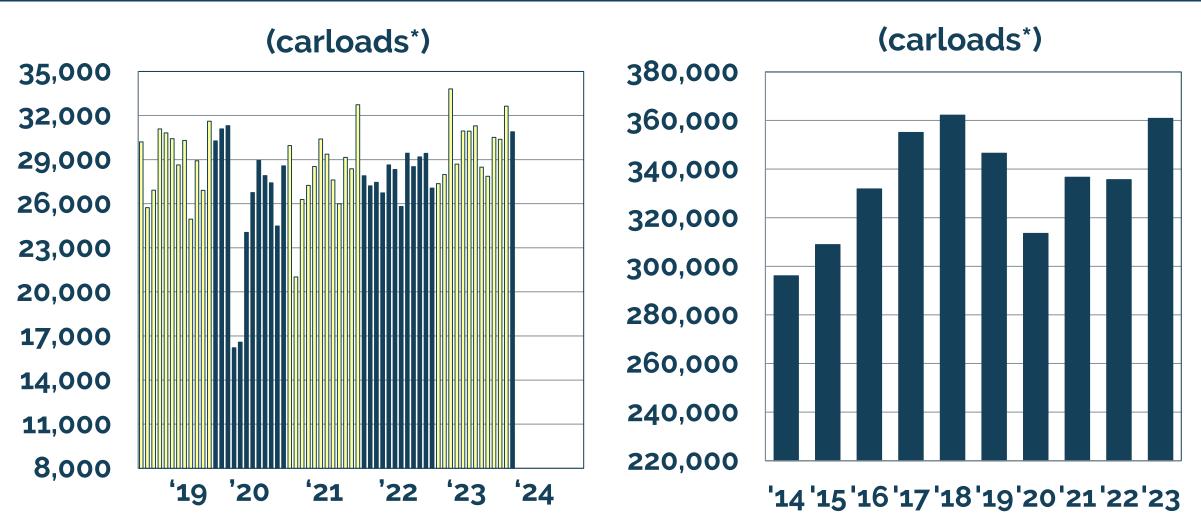


U.S. Rail Carloads of Crude Oil by Quarter



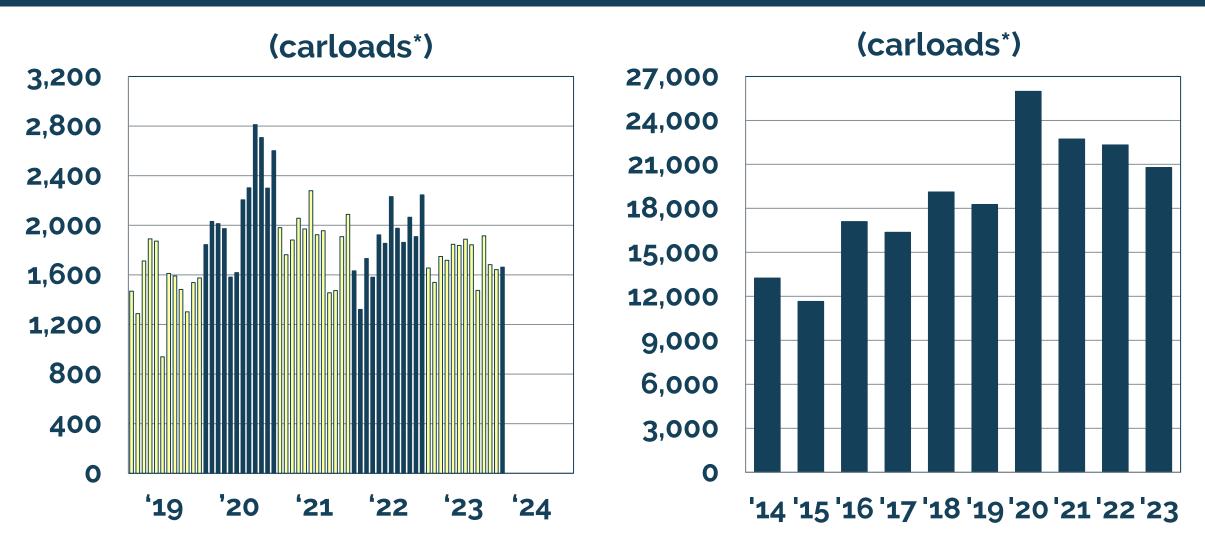
Data are for Class I railroads only. Source: AAR Freight Commodity Statistics

U.S. Ethanol Shipments by Rail



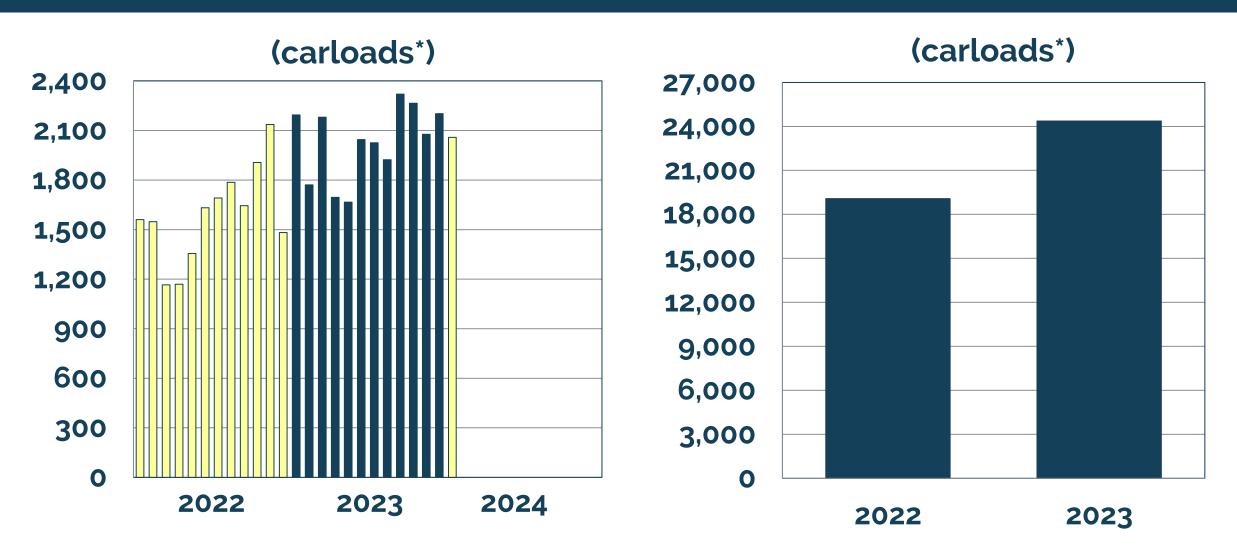
^{*}Assumes 715 barrels (30,030 gallons) per carload. Figures in these charts might differ from figures from different rail traffic sources. Source: Energy Information Administration

U.S. Biodiesel Shipments by Rail



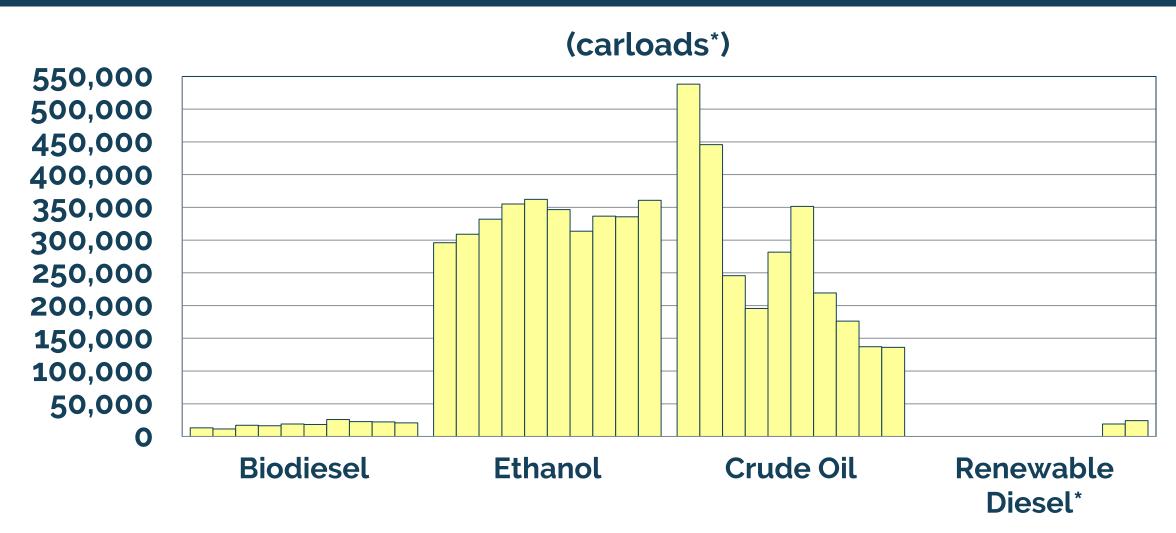
^{*}Assumes 715 barrels (30,030 gallons) per carload. Source: Energy Information Administration

U.S. Renewable Diesel Shipments by Rail



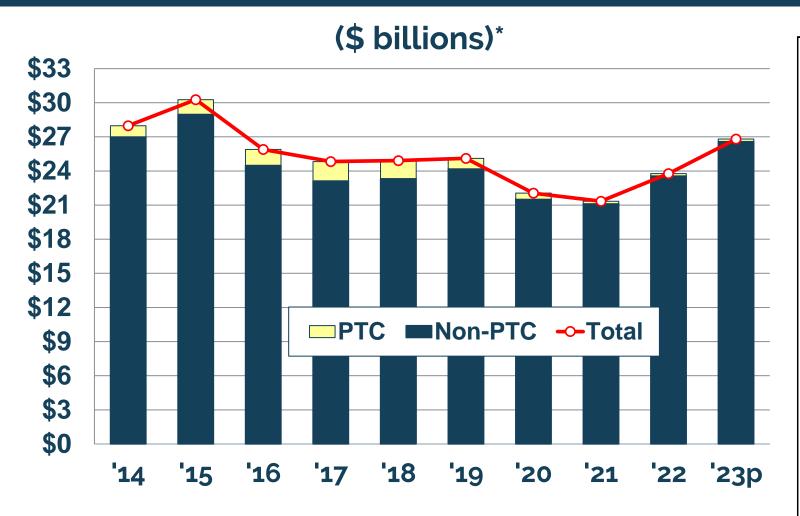
^{*}Assumes 715 barrels (30,030 gallons) per carload. Source: Energy Information Administration

U.S. Shipments of Energy Products by Rail: 2014-2023



^{*}Assumes 715 barrels (30,030 gallons) per carload. Figures in these charts might differ from figures from different rail traffic sources. Source: Energy Information Administration

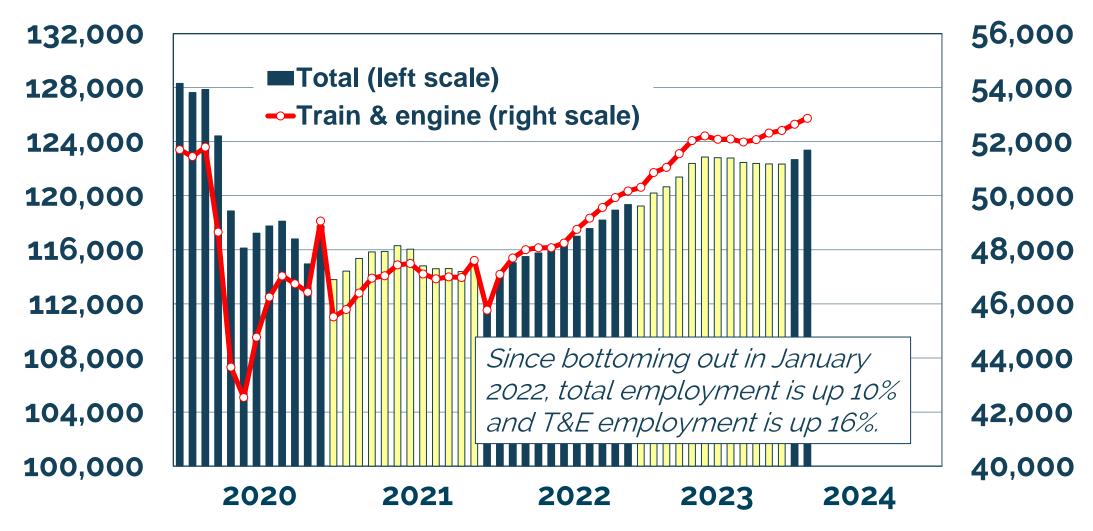
Freight Railroads Continue to Reinvest Massive Amounts Back Into Their Networks*



*Class I railroad capital spending + maintenance expenses on infrastructure and equipment. p = preliminary Source: AAR

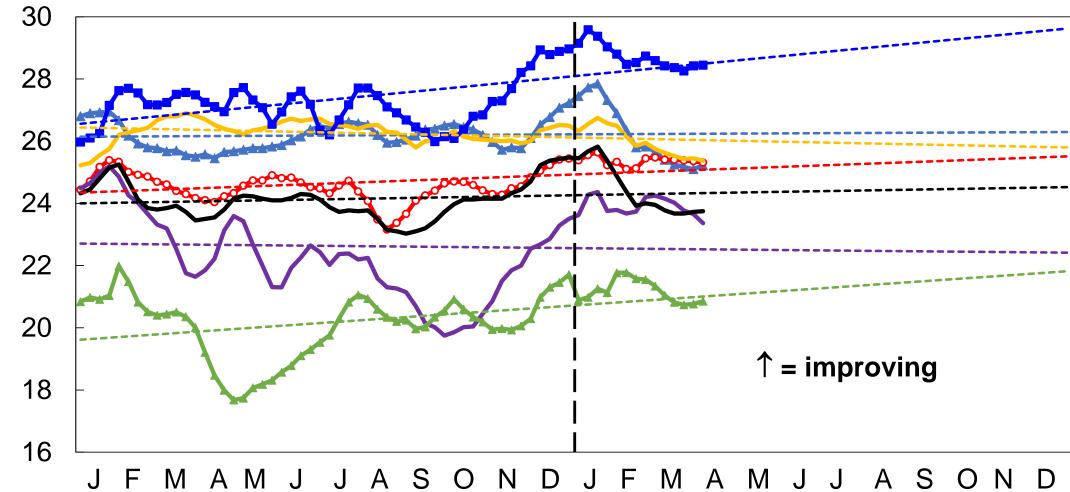
Capital Spending as % of Revenue*					
Avg. all manufacturing	3.0%				
Petroleum & coal products	2.3%				
Food	2.3%				
Machinery	2.6%				
Motor vehicles & parts	2.8%				
Fabricated metal products	3.2%				
Primary metal products	3.2%				
Wood producs	3.4%				
Plastics & rubber products	3.8%				
Chemicals	3.8%				
Paper	4.3%				
Nonmetallic minerals	4.4%				
Computer & electr. products	5.0%				
Class I Railroads	18.4%				
*Avg. 2012-2021 Source: Census Bureau, AAR					

Freight Railroads Continue to Invest in Human Capital



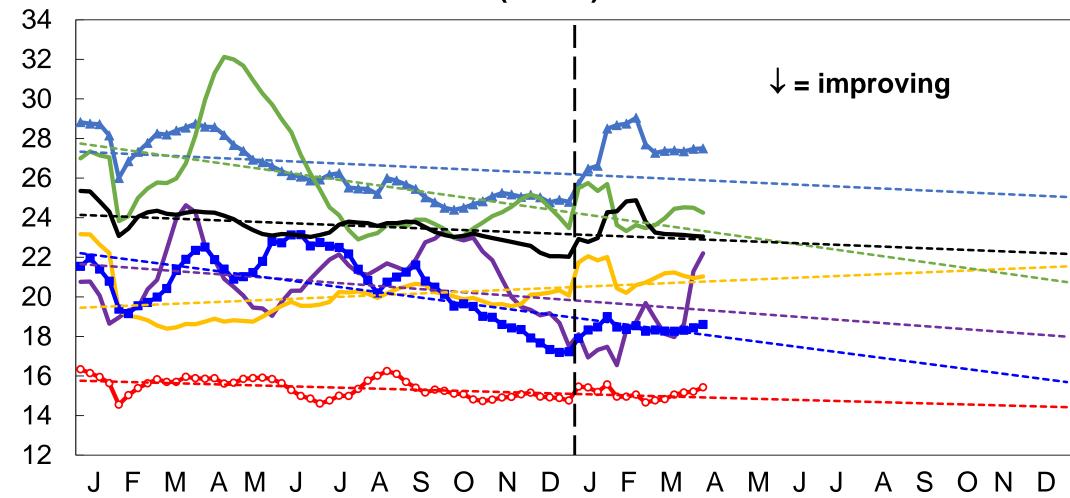
Source: STB





Each line is a Class I railroad. Dashed lines are trend lines. Absolute values are not comparable across railroads due to operational and other differences in the respective rail systems. Source: STB





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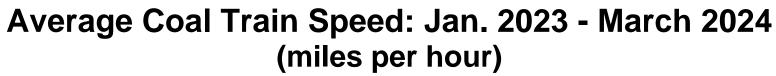


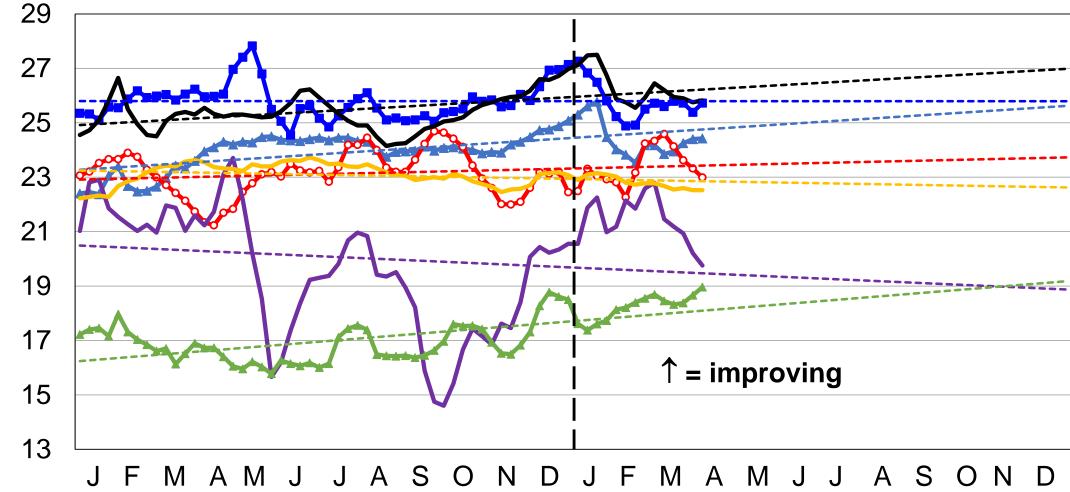




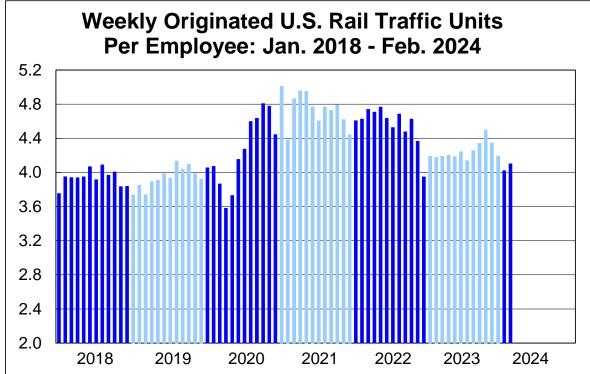








Each line is a Class I railroad. Dashed lines are trend lines. Absolute values are not comparable across railroads due to operational and other differences in the respective rail systems. Source: STB



*Traffic is based on weekly average total carloads + intermodal units for each month. Data are for BNSF, CSX, NS, and UP combined; CN and CPKC and non-Class I railroads are not included for data availability reasons. Data are not seasonally adjusted. Source: AAR, STB

Weekly Originated U.S. Rail Traffic Units Per Train & Engine Employee: Jan. 2018 - Feb. 2024 Traffic based on weekly average originated total carloads + intermodal units. Data are for BNSF, CSX, NS, and UP combined; CN, CPKC, and non-Class I railroads are not included.

Data are not seasonally adjusted. Source: AAR, STB