

FREIGHT RAILROADS BACKGROUND

Flexibilities from the [Staggers Rail Act of 1980](#) have led to reduced rates for shippers (after adjusting for inflation) and enhanced railroad maintenance and capital expenditures on track and rolling stock. Railroad productivity has increased substantially as more freight is moving over a smaller network with a smaller workforce.

In 2007, the railroad freight industry generated \$57 billion in revenue. The seven Class I railroad systems account for over 90 percent of the industry's total. The railroad industry equaled the 2006 record of 1.77 trillion revenue ton-miles (a unit of measurement that incorporates both weight and distance), but declined during the recession in 2008 by an estimated 1 percent, and the first 10 weeks of 2009 were down 15 percent from the same period in 2008.

Structure. In 2007, in addition to the 7 Class I freight railroad systems—systems with annual operating revenue of \$359.6 million or more—operating in the United States, there were 33 regional railroads (line-haul railroads operating at least 350 miles of road and/or earning revenue between \$40 million and the Class I threshold), and over 500 local railroads (line-haul railroads smaller than regional railroads).

	Class I RRs		Regional RRs		Local RRs	
	1990	2007	1990	2007	1990	2007
number	14	7	30	33	486	523
employment	209,708	167,216	11,578	7,805	14,257	11,791

Class I employment fell by 23 percent between 1990 and 2007, because retirees weren't being replaced – traffic levels were sustained without additional hires. Faced with growing traffic levels and an aging workforce, the railroad industry ended its decades-long goal of reducing the number of workers and added nearly 13,000 employees from the 154,652 in 2003 to 167,581 in 2006. With demand for rail service declining in late 2007, the employment level (annual average) was unchanged from 2006, and declined in 2008 by nearly 4,000 (preliminary).

Not only is the workforce aging, but recent changes in the Railroad Retirement Act reduced the age and time-in-service requirements for retirement. The data show that by 2013 over one third of the work force will be eligible to retire. The challenge facing the railroad industry is recruiting and retaining the needed employees to replace these large numbers, while at the same time meeting the forecasted demand for freight service.

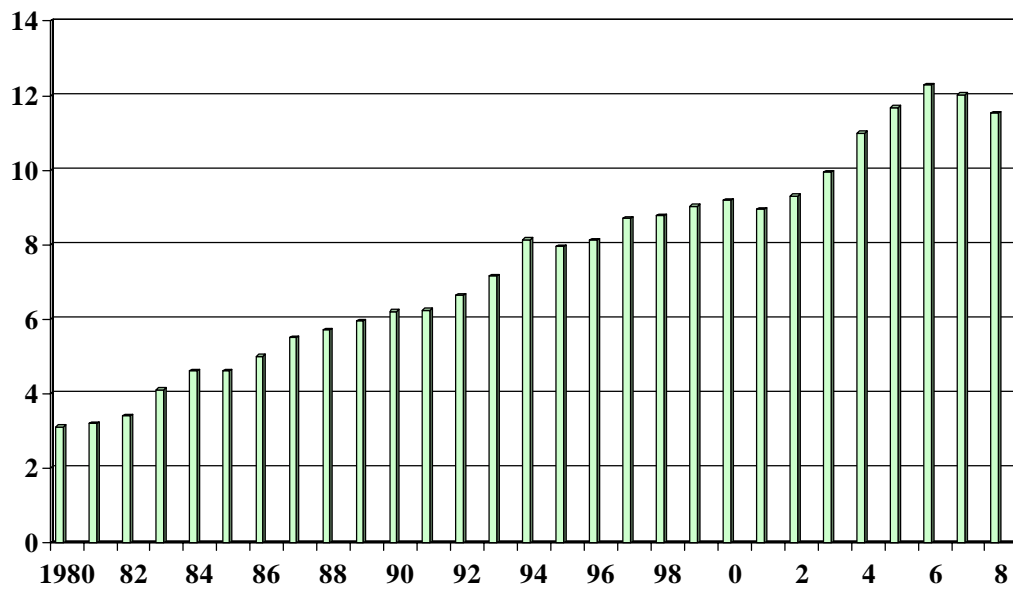
Regional railroad employment declined 33 percent, partly as a result of mergers, such as the Canadian National's acquisition of the Wisconsin Central. Local railroad employment declined by 17 percent due, in part, as with the Class I railroads, to mergers and consolidation of functions, such as purchasing.

Commodities. In 2007, the major rail-carried commodities (in terms of tonmiles) included coal (38 percent), intermodal traffic (trailers and containers on flat cars) (15 percent), farm products (predominantly grain and soybeans) (10 percent), and chemical products (10 percent). The fastest growing segment of rail traffic has been intermodal traffic, with the number of trailers and containers increasing substantially from an average of 3.4 million loadings in the early 1980's, when doublestack container trains were introduced, to 12.0 million in 2007. In 2008, intermodal units were down by more than 4 percent from 2007 and the first 10 weeks of 2009, there was a decline of more than 15 percent from

the same period in 2008. The highest traffic corridor for intermodal traffic is between California and Illinois reflecting the land portion of container shipments of goods moved from Asia to the U.S.

INTERMODAL GROWTH:

TOFC/COFC LOADINGS IN MILLIONS OF UNITS



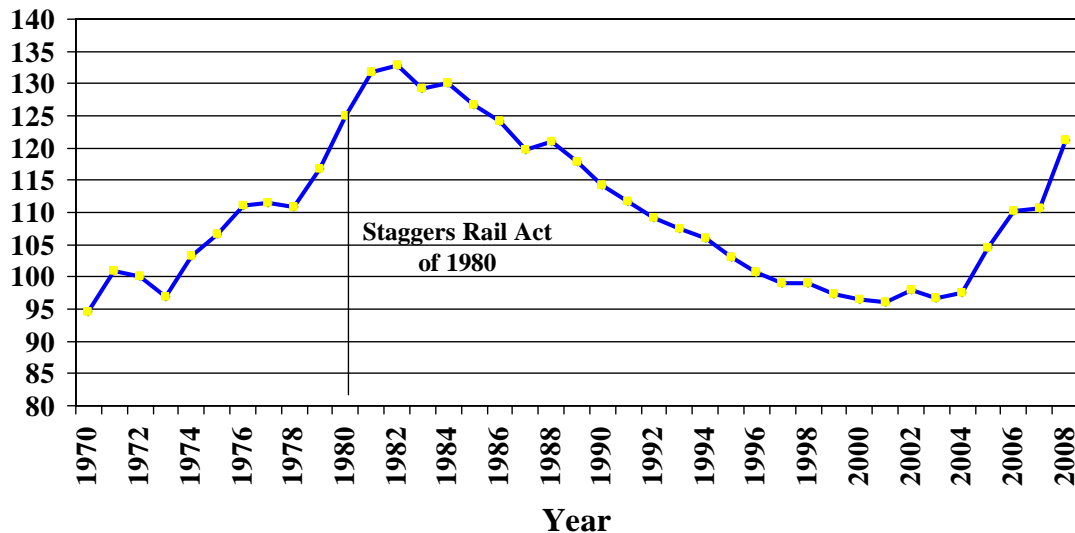
Association of American Railroads "Railroad Facts"
(2008 preliminary from AAR "Weekly Railroad Traffic, 2008 Annual Summary")

With the opening of the Powder River Basin in Wyoming in the late 1970s, U.S. coal shipments have grown dramatically as the railroads delivered low sulfur coal to help electric utilities achieve Clean Air Standards. The largest rail coal movements are from the Powder River Basin to generating plants in Illinois, Missouri, and Texas.

Rates. Freight rates adjusted for inflation were relatively flat overall (increased an average of 0.3 percent a year between 1990 and 2007). The period of declining rates ended in 2000. Through late 2007, due to increased demand and little excess capacity, freight rates began to move higher. Much of the increase in 2008 was due to the run-up in fuel prices. Since the passage of the Staggers Act of 1980, freight rates adjusted for inflation declined 0.3 percent a year, compared to an average increase of 2.9 percent per year in the 5 years prior to 1980.

Railroad Rates After Inflation

1972=100



Sources: U.S. Dept. of Labor, Bureau of Labor Statistics, Producer Price Index of Line-Haul Operating Railroads; U.S. Dept. of Commerce, Bureau of Economic Analysis, Implicit Price Deflator for Gross Domestic Product

Between 1990 and 2007, the Class I freight railroads have

averaged 7.7 percent return on their net investment, up from the 2 percent average in the 1970s.

Productivity. The railroads are responsible for maintaining their track, rights of way, and fleet of railcars and locomotives. Over the years, through mergers and rationalization of their plant, numerous low density or redundant lines have been abandoned or sold to smaller railroads. Since 1980, the Class I railroads have increased their traffic (ton-miles) by 93 percent (through 2007) while their network (miles of road owned) declined by 43 percent. This has increased traffic density by concentrating traffic over a smaller network. However, sustained increases in traffic seen since the turn of the decade have reversed the trends of the 80s and 90s; because of increased density, the railroads are now expanding capacity in their highest density corridors by double-tracking major routes.

Between 1981 (a few months after the Staggers Rail Act partially deregulated rail rates and services) and 2007, the railroads spent \$459 billion on capital and maintenance of their track and equipment. Capital expenditures have more than doubled, from \$3.6 billion in 1990 to \$9.2 billion in 2007 while the price level of railroad purchases of inputs rose only 85 percent. Capital expenditures on roadway and structures also more than tripled from \$2.6 billion in 1990 to \$6.9 billion in 2007, as railroads increased the percentage of rail weighing 130 pounds per yard or more from 50 percent of mileage in 1990 to 69 percent in 2007 to accommodate heavier loadings, such as increased coal shipments.

In terms of the capacity of railroad equipment, the industry reported that at the end of 2007 total horsepower of the railroad-owned locomotive fleet increased by 69 percent since the end of 1990 enabling the railroads to haul heavier trains, particularly trains moving coal out of the Powder River Basin, and high speed long distance intermodal trains. Of the 1,385,709 freight cars in

service at the end of 2007, the majority were owned by car companies and shippers (805,074) followed by Class I railroads (460,172) and non-Class I railroads (120,463).

Between 1990 and 2007, freight railroads made major strides in improving productivity; revenue ton-miles per employee has more than doubled, from 4.8 to 10.6 million, as traffic increased and employment dropped. Less labor has been needed in the last several years, because of smaller crew sizes and the need for fewer interchanges between railroads due to mergers. In addition, technology and elimination of duplicative administrative jobs have reduced the amount of labor needed. More traffic, as measured by revenue ton-miles, has resulted from more frequent and heavier traffic moving longer distances. For example, increased coal shipments from Wyoming are moving further east to electric utility plants.

Freight railroads are also making more efficient use of fuel. Between 1990 and 2007, ton-miles per gallon of fuel consumed rose from 332 to 436. To make their operations more fuel efficient, the railroads have been moving longer distances between interchanges, rebuilding equipment and buying more fuel-efficient locomotives, using innovative equipment (for example, aluminum freight cars and double-stack cars), and reducing locomotive idling time.