

# Class I Railroad Statistics

Association of American Railroads – Policy & Economics Department

## Class I Railroads

Class I Railroads are U.S. line haul freight railroads with operating revenue in excess of \$266.7 million. Two Canadian railroads, Canadian National Railway and Canadian Pacific Railway, have enough revenue that they would be Class I railroads if they were U.S. companies. Both companies also own railroads in the United States that, by themselves, qualify to be Class I railroads. Two Mexican railroads, Ferrocarril Mexicano and TFM, would also be Class I railroads if they were U.S. companies. The Class I railroads in 2002 are: The Burlington Northern and Santa Fe Railway, CSX Transportation, Grand Trunk Corporation, Kansas City Southern Railway, Norfolk Southern Combined Railroad Subsidiaries, Soo Line Railroad, and Union Pacific Railroad.

	2001	2002p
<b>Number of Railroads</b>	8	7

Note: Beginning in 2002, Canadian National's U.S. operations were consolidated into one entity – causing the decrease in the number of Class I railroads in the United States. In addition to two Class I railroads, other railroads (including the largest regional) were part of this consolidation.

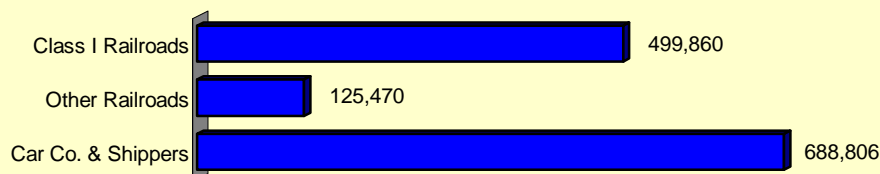
### Resources

Miles of Road Operated Less Trackage Rights	97,817	99,797
Miles of Road Operated	121,013	123,070
Locomotives in Service	19,745	20,506
Freight Cars in Service*	499,860	477,751

### Employment

Number of Employees	162,155	157,372
Average Wages	\$58,153	\$59,650
Average Total Compensation Including Benefits	\$80,785	\$84,960

### 2001 U.S. Freight Car Ownership\*



\* Canadian-owned railroads, including 2 Class I railroads, are excluded.

# Class I Railroad Statistics (continued)

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	2001	2002p
<b>Traffic</b>		
Carloads Originated (million)	27.21	27.90
Intermodal Units (million):		
Containers	6.28	6.76 <i>p</i>
Trailers	2.48	2.42 <i>p</i>
Total	8.77	9.19 <i>p</i>
Tons Originated (billion)	1.742	1.767
Ton-miles (trillion)	1.495	1.507
<b>Operating Statistics</b>		
Freight Revenue Per Ton-Mile	2.242¢	2.263¢
Average Tons Per Carload	64.0	63.3
Average Tons Per Train	3,005	3,030
Average Length of Haul (miles)	858.5	853.0
<b>Financial*</b>		
Freight Revenue (billion)	\$33.5	\$34.1
Operating Revenue (billion)	\$34.6	\$35.3
Operating Expense (billion)	\$29.2	\$29.6
Net Income (billion)	\$2.7	\$3.2
Operating Ratio	84.3%	83.8%
Return on Average Equity	7.96%	8.28%

*p* - preliminary    *n/a* - not yet available

## Notes

**Miles of Road** is the aggregate length of roadway, excluding yard tracks and sidings, and does not reflect the fact that a mile of road may include two, three, or more parallel tracks. Miles of road operated figures will be higher than mileage owned since more than one railroad can operate the same roadway by having trackage rights. Figures on page 1 include mileage owned in Canada. Excluding double-counting for trackage rights, Class I railroads operated in 2001 a total of 97,631 miles of the 143,361 mile network in the United States.

**Freight Cars in Service** for railroads includes railroad-owned cars plus cars with a railroad's mark. Freight cars owned by shippers and leasing companies that do not have a railroad mark (including a major leasing company owned by the railroads) are also used by the railroads. A new freight car typically costs between \$40,000 and \$100,000 depending on the type and features included. Class I railroads paid an average of \$43,685 for a new freight car in 2001.

**Carloads**, as reported here and in *Freight Commodity Statistics*, include intermodal traffic and will differ from the AAR's *Weekly Railroad Traffic* which segregates intermodal traffic from carloads and does not include Canadian-owned railroads in the U.S. totals.

# Class I Railroad Statistics (continued)

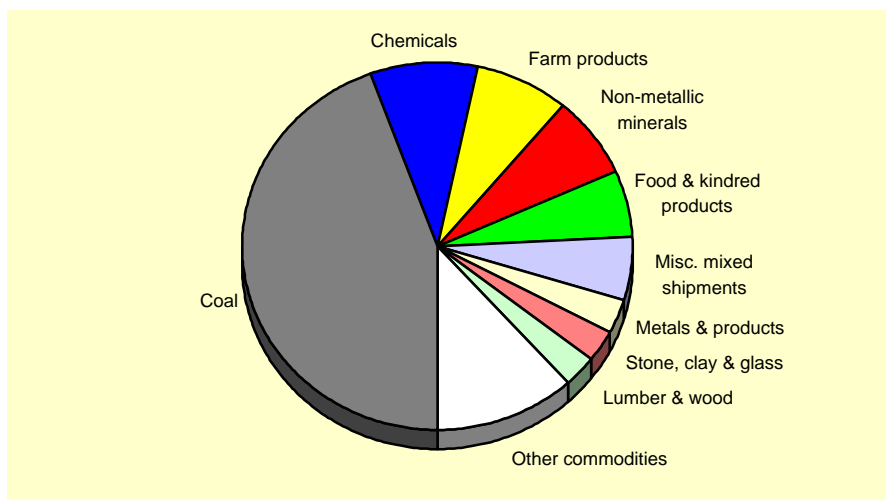
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## Type of Freight Carried for Year 2002

Commodity Group	Tons Originated		Gross Revenue	
	(000)	% of Total	(million)	% of Total
Coal	785,006	44.4 %	\$7,797	21.2 %
Chemicals & allied products	158,734	9.0	4,707	12.8
Farm products	137,717	7.8	2,711	7.4
Non-metallic minerals	125,643	7.1	967	2.6
Food & kindred products	102,230	5.8	2,657	7.2
Misc. mixed shipments*	97,228	5.5	4,900	13.3
Metals & products	55,905	3.2	1,350	3.7
Stone, clay & glass products	49,279	2.8	1,149	3.1
Lumber & wood products	47,533	2.7	1,628	4.4
Petroleum & coke	40,207	2.3	977	2.7
Waste & scrap materials	39,440	2.2	717	2.0
Pulp, paper & allied products	37,212	2.1	1,567	4.3
Motor vehicles & equipment	35,902	2.0	3,626	9.9
Metallic ores	31,376	1.8	285	0.8
All other commodities	23,258	1.3	1,704	4.6
<b>Total</b>	<b>1,766,671</b>	<b>100.0 %</b>	<b>\$36,742</b>	<b>100.0 %</b>

\* Miscellaneous mixed shipments (STCC 46) is mostly intermodal traffic. Some intermodal traffic is also included in commodity-specific categories.

## 2002 Class I Railroad Tons Originated

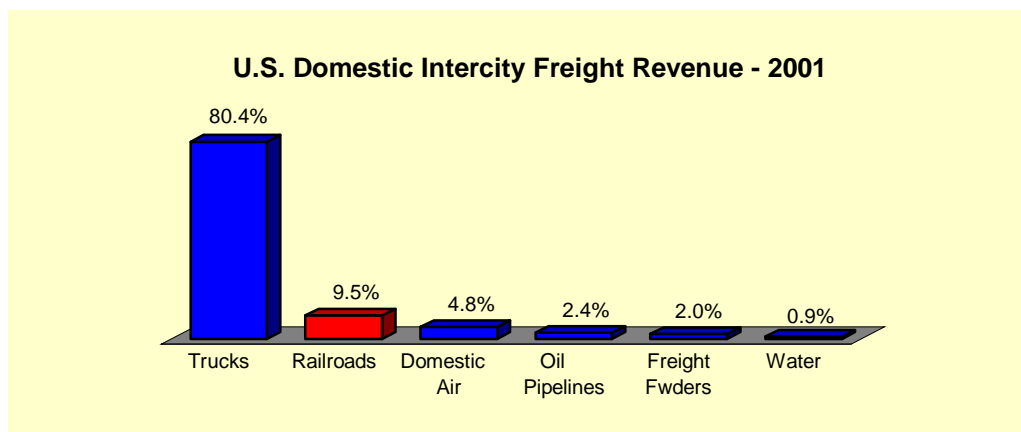


# U.S. Freight Railroad Statistics

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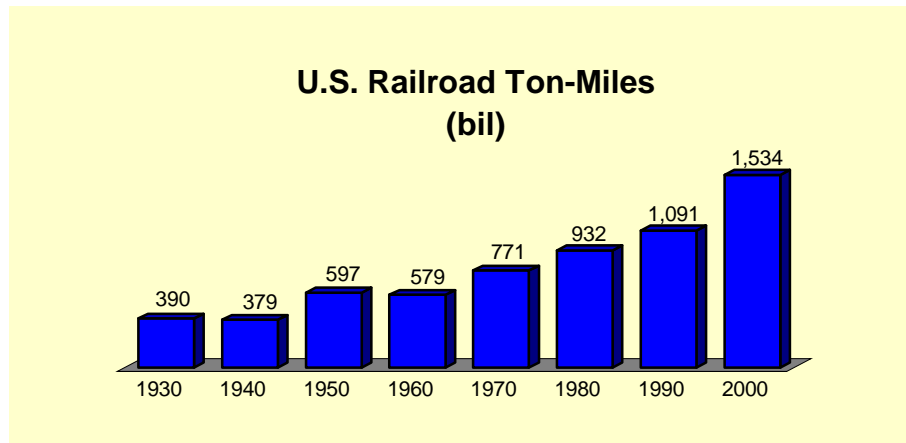
	2000	2001
<b>Number of Railroads</b>	560	571
<b>Operating Statistics</b>		
Miles of Road Operated Less Trackage Rights	144,785	143,361
Miles of Road Operated	170,512	171,430
Freight Cars in Service, U.S. Railroad Owned	692,602	625,330 *
Freight Cars in Service, All U.S. Owners	1,380,796	1,314,136 *
* U.S. owned only, excludes Canadian-owned railroads operating in the U.S.		
<b>Employment</b>		
Number of Employees	191,808	184,369
Average Wages	\$55,965	\$56,878
Average Compensation Including Benefits	\$76,582	\$77,831
<b>Traffic</b>		
Carloads Originated (million)	33.00	31.95
Tons Originated (billion)	2.14	2.12
Ton-miles (trillion)	1.53	1.56
Domestic Intercity Traffic:		
Railroad Share of Tonnage	25.3%	25.5%
Railroad Share of Ton-Miles	41.0%	41.7%
<b>Financial</b>		
Freight Revenue (billion)	\$36.5	\$36.6
Domestic Intercity Traffic:		
Railroad Share of Freight Revenue	9.5%	9.5%
All Domestic Traffic:		
Railroad Share of Freight Revenue	6.3%	6.3%

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# U.S. Freight Railroad Statistics (continued)

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## Notes

**Miles of Road** is the aggregate length of roadway, excluding yard tracks and sidings, and does not reflect the fact that a mile of road may include two, three, or more parallel tracks. Miles of road operated less trackage rights, which eliminates double-counting caused by more than one railroad operating the same track, is the measure of the rail network. Excluding trackage-rights, U.S. railroads operate 142,944 miles, including 142,633 in the United States. Canadian railroads operate an additional 728 miles in the U.S., making the U.S. network a total of 143,361 miles.

**Freight Cars in Service** for railroads excludes freight cars owned by leasing companies that do not have a railroad mark (including a major leasing company owned by the railroads) and shippers – all of which are used by the railroads.

**Carloads** shown here uses the Surface Transportation Board's *Freight Commodity Statistics* and the AAR's *Profiles of U.S. Railroads* survey as sources, and will not match the total carloads reported in *Railroads and States* which uses the Carload Waybill Sample as a source.

**Railroad Market Share** is based on data from the Eno Transportation Foundation's *Transportation in America*.

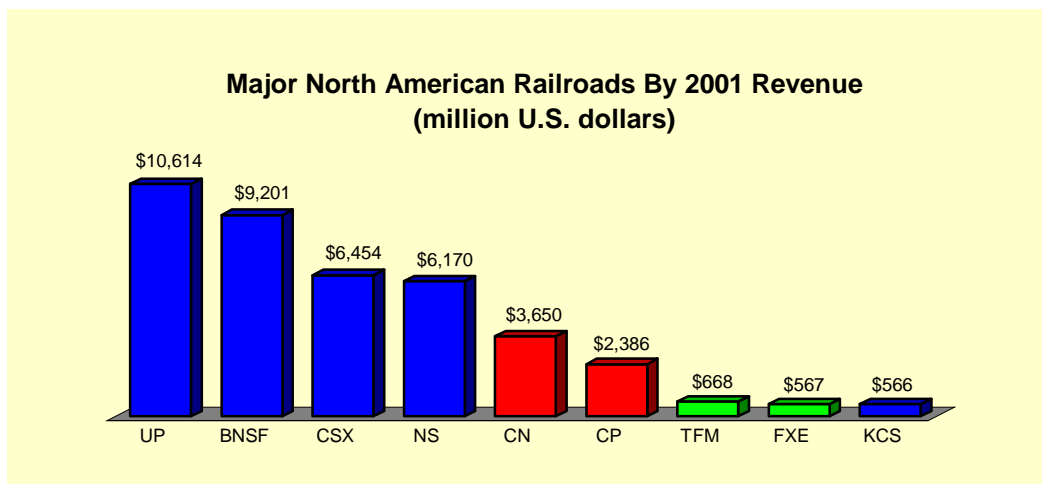
# North American Freight Railroad Statistics

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## North American Railroads

With the exception of freight cars, statistics include all U.S. railroads, the two largest Canadian railroads, and the two largest Mexican railroads. Freight car figures include all railroads and all owners. The tons and carloads originated may contain some double-counting on freight that was re-billed as it crossed the U.S.-Mexican border.

	2000	2001
<b>Resources</b>		
Miles of Road Operated Less Trackage Rights	172,992	170,161
Miles of Road Operated	201,658	202,285
Freight Cars in Service, Railroad Owned	844,459	809,111
Freight Cars in Service, All Owners	1,573,527	1,538,673
<b>Employment</b>		
Number of Employees	236,234	225,061
<b>Traffic</b>		
Carloads Originated (million)	37.84	37.01
Tons Originated (billion)	2.40	2.37
Ton-miles (trillion)	1.76	1.78
<b>Financial</b>		
Freight Revenue (billion)	\$42.1	\$42.0



# North American Freight Railroad Statistics (continued)

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## Major North American Freight Railroads

BNSF	The Burlington Northern and Santa Fe Railway
CN	Canadian National Railway
CP	Canadian Pacific Railway
CSX	CSX Transportation
FXE	Ferrocarril Mexicano (a subsidiary of Grupo Ferrovial Mexicano)
KCS	Kansas City Southern Railway
NS	Norfolk Southern
TFM	TFM (a subsidiary of Grupo Transportación Ferroviaria Mexicana)
UP	Union Pacific Railroad

## Freight Cars in Service in North America January 1, 2002

	Total All Owners	Railroads		Car Companies & Shippers
		Class I*	Other	
Canada	190,722	142,545	14,944	33,233
Mexico	33,815	18,434	7,858	7,523
United States	1,314,136	499,860	125,470	688,806
<b>Total</b>	<b>1,538,673</b>	<b>660,839</b>	<b>148,272</b>	<b>729,562</b>

\* For Canada and Mexico, "Class I" railroads exceed the revenue threshold and would be Class I railroads if they were U.S. railroads. Canadian-owned U.S. railroads are included in the Canadian figures.