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## Shipping Comparisons

### Cargo Capacity of Different Transportation Modes

Comparison of the cargo capacities of a barge, rail car, train, and semi truck (adapted from Iowa Department of Transportation)

Mode of Transportation	Tons of Cargo	Bushels of Cargo	Gallons of Cargo
 One Barge	1,500 tons	52,500 bushels	453,600 gallons
 One Rail Car	100 tons	3,500 bushels	30,240 gallons

Mode of Transportation	Tons of Cargo	Bushels of Cargo	Gallons of Cargo
One Rail Car			
 100-car Train Unit	10,000 tons	350,000 bushels	3,024,000 gallons
 Large Semi	26 tons	910 bushels	7,865 gallons

## Safety of Shipping Methods

Mode of Transportation	Deaths Per Billion Ton-Miles	Injuries Per Billion Ton-Miles
	0.01	0.09
	0.84	N/A
	1.15	21.77

Comparison of the safety records of car, train, and semi truck per billion ton-miles (adapted from Haulk)

## Energy Efficiency of Shipping Methods

Number of miles one ton can be carried per gallon of fuel  
(Adapted from U.S. DOT Maritime Administration)

Mode of Transportation	Number of Miles/Gallon Carrying One Ton of Cargo
	514 miles/gallon
	202 miles/gallon
	59 miles/gallon

## Environmental Quality of Shipping Methods

Comparison of the emissions of different gases into the atmosphere from different shipping methods  
(Source: C. Jake Haulk Ph.D. - Inland Waterways as Vital National Infrastructure: Refuting "Corporate Welfare" Attacks)

Mode of Transportation	Hydrocarbons Emitted (lbs/ton-mile)	Carbon Monoxide Emitted (lbs/ton-mile)	Nitrous Oxide Emitted (lbs/ton-mile)
	0.0009	0.0020	0.0053
	0.0046	0.0064	0.0183

Mode of Transportation	Hydrocarbons Emitted (lbs/ton-mile)	Carbon Monoxide Emitted (lbs/ton-mile)	Nitrous Oxide Emitted (lbs/ton-mile)
	0.0063	0.0190	0.1017

- **Barge Cargo Capacity**

- Carries 1,500 tons of cargo
- Carries 52,500 bushels of cargo
- Carries 453,600 gallons of cargo

- **Barge Energy Efficiency**

- Gets 514 miles/gallon carrying one ton

- **Barge Safety Record**

- 0.01 Deaths Per Billion Ton/Miles
- 0.09 Injuries Per Billion Ton/Miles

- **Barge Environmental Quality**

- Hydrocarbons: 0.0009 lbs/ton-mile
- Carbon Monoxide: 0.0020 lbs/ton-mile
- Nitrous Oxide: 0.0052 lbs/ton-mile

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