FOR BUSINESS & INDUSTRY

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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)

<table>
<thead>
<tr>
<th>Mode of Transportation</th>
<th>Tons of Cargo</th>
<th>Bushels of Cargo</th>
<th>Gallons of Cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Barge</td>
<td>1,500</td>
<td>52,500 bushels</td>
<td>453,600 gallons</td>
</tr>
<tr>
<td>One Rail Car</td>
<td>100</td>
<td>3,500 bushels</td>
<td>30,240 gallons</td>
</tr>
<tr>
<td>100-car Train Unit</td>
<td>10,000</td>
<td>350,000 bushels</td>
<td>3,024,000 gallons</td>
</tr>
<tr>
<td>Large Semi</td>
<td>26</td>
<td>910 bushels</td>
<td>7,865 gallons</td>
</tr>
</tbody>
</table>

Safety of Shipping Methods

<table>
<thead>
<tr>
<th>Mode of Transportation</th>
<th>Deaths Per Billion Ton-Miles</th>
<th>Injuries Per Billion Ton-Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>One Barge</td>
<td>0.01</td>
<td>0.09</td>
</tr>
<tr>
<td>Large Semi</td>
<td>0.84</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### Energy Efficiency of Shipping Methods

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

<table>
<thead>
<tr>
<th>Mode of Transportation</th>
<th>Number of Miles/Gallon Carrying One Ton of Cargo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Car</strong></td>
<td>514 miles/gallon</td>
</tr>
<tr>
<td><strong>Train</strong></td>
<td>202 miles/gallon</td>
</tr>
<tr>
<td><strong>Semi Truck</strong></td>
<td>59 miles/gallon</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Mode of Transportation</th>
<th>Hydrocarbons Emitted (lbs/ton-mile)</th>
<th>Carbon Monoxide Emitted (lbs/ton-mile)</th>
<th>Nitrous Oxide Emitted (lbs/ton-mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Car</strong></td>
<td>0.0009</td>
<td>0.0020</td>
<td>0.0053</td>
</tr>
</tbody>
</table>
### Mode of Transportation

<table>
<thead>
<tr>
<th>Hydrocarbons Emitted (lbs/ton-mile)</th>
<th>Carbon Monoxide Emitted (lbs/ton-mile)</th>
<th>Nitrous Oxide Emitted (lbs/ton-mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0046</td>
<td>0.0064</td>
<td>0.0183</td>
</tr>
<tr>
<td>0.0063</td>
<td>0.0190</td>
<td>0.1017</td>
</tr>
</tbody>
</table>

- **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