Barge Overview

Sector Upper Mississippi River
Topics

• Overview
• Shipping Routes
  - American Waterway Highway
  - Trends (traffic, incidents, spills)
  - Loading and Unloading
• Vessel Types and Capacities
• Planning and Response Considerations
Shipping Routes
Barge Traffic Trends

All Petroleum Products Loaded to Barges in St. Louis Area

<table>
<thead>
<tr>
<th>2013 Barges</th>
<th>2014 Barges</th>
<th>2015 Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>1591</td>
<td>1750</td>
<td>1313</td>
</tr>
</tbody>
</table>

New Source Crude Oil Break Down

<table>
<thead>
<tr>
<th>2013 Barges</th>
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<th>2015 Projected</th>
</tr>
</thead>
<tbody>
<tr>
<td>58</td>
<td>150</td>
<td>194</td>
</tr>
</tbody>
</table>

*Figures Shown by Amount of 30,000 Barrel Barges*
Vessel Types and Capacities

Tank Barges

- Designed in accordance with Coast Guard Regulations found in Code of Federal Regulations (CFR) Part 46
- All tank barges carrying oil as a primary cargo are double hulled
- Required to have Vessel Response Plans in accordance with 33 CFR 155.1040 and 46 CFR 91.25-38
- Barges are inspected at regular intervals by the Coast Guard, including in-service and out of the water inspections
- The most common tank barges carry approximately 30,000 barrels of product
Planning & Response Considerations

• Overview of the growth in the St. Louis Area
• The “New” face of Crude
• Shipping Routes and Vessel Types