20 Years After the Bellingham Tragedy

Are We Safer?

What Does The Data Tell Us
Miles of Gas Transmission Pipelines by Decade Installed as of 2018
Miles of Hazardous Liquid Pipelines By Decade Installed as of 2018
Gas Transmission Onshore Pipeline Significant Incident Rates per Decade part installed - 2005 - 2018 - Incidents per 1,000 Miles

- Unknown and Pre-1940
- 1940-49
- 1950-59
- 1960-69
- 1970-79
- 1980-89
- 1990-99
- 2000-09
- 2010-19
Cast Iron Pipe - Miles of Mains, and Number of Service Lines

<table>
<thead>
<tr>
<th>State</th>
<th>Main Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>NEW JERSEY</td>
<td>3,911</td>
</tr>
<tr>
<td>NEW YORK</td>
<td>3,175</td>
</tr>
<tr>
<td>MASSACHUSETTS</td>
<td>2,925</td>
</tr>
<tr>
<td>PENNSYLVANIA</td>
<td>2,532</td>
</tr>
<tr>
<td>MICHIGAN</td>
<td>2,389</td>
</tr>
<tr>
<td>CONNECTICUT</td>
<td>1,221</td>
</tr>
<tr>
<td>MARYLAND</td>
<td>1,164</td>
</tr>
<tr>
<td>ILLINOIS</td>
<td>1,152</td>
</tr>
</tbody>
</table>
Hazardous Liquid Pipeline Accident Heat Map
2010 - Present

Map created August 2019
Projection: Albers Equal Area, NAD 83

Accident Density
- Low
- Moderate
- High

Pipelines
U.S. Incidents With Deaths or Hospitalizations

![Graph showing the decline in U.S. incidents with deaths or hospitalizations from 1999 to 2018. The number of incidents has decreased significantly over the years.](chart_image)

- **1999**: 65 incidents
- **2000**: 60 incidents
- **2001**: 55 incidents
- **2002**: 50 incidents
- **2003**: 45 incidents
- **2004**: 40 incidents
- **2005**: 35 incidents
- **2006**: 30 incidents
- **2007**: 25 incidents
- **2008**: 20 incidents
- **2009**: 15 incidents
- **2010**: 10 incidents
- **2011**: 5 incidents
- **2012**: 0 incidents
- **2013**: 0 incidents
- **2014**: 0 incidents
- **2015**: 0 incidents
- **2016**: 0 incidents
- **2017**: 0 incidents
- **2018**: 0 incidents

Note: The data shows a sharp decline in incidents from 2000 to 2018, with no incidents reported from 2013 onwards.
Significant Incidents - All U.S. Regulated Pipelines
Significant Incidents - All U.S. Gas Distribution Pipelines
Significant Incidents - All Onshore U.S. Gas Transmission Pipelines
Significant Incidents - All Onshore U.S. Hazardous Liquid Pipelines

Graph showing the number of significant incidents from 1999 to 2018, with bars for each year and a trend line indicating an increase over time.
Significant Incidents - All Onshore U.S. Refined Product Pipelines
Significant Incidents - All Onshore U.S. Crude Oil Pipelines
Causes of Onshore Significant Incidents – Last 5 Years

Gas Transmission

Gas Distribution

Hazardous Liquids
With 2,776,743 miles of regulated pipelines in the country as of 2018, and an average of 32 pipeline failures causing deaths or hospitalizations each year over the past 10 years, the chance of dying or being hospitalized from a pipeline failures along any particular mile of pipeline is once every 868,023 years.

Feel Safer?