

# Gas Pipeline (PHMSA reportable) Incident Data

## 12 Month Rolling Average through December 2018

	Rolling 12 Month	2017	2016	2015	3 Yr. Avg.
Number per 1000 Miles					
<b>KM Transmission and Regulated Gathering</b>	<b>0.38</b>	<b>0.52</b>	<b>0.37</b>	<b>0.45</b>	<b>0.45</b>
<b>Transmission and Regulated Gathering Industry Average (US)</b>	<b>NA</b>	<b>0.37</b>	<b>0.31</b>	<b>0.48</b>	<b>0.39</b>

An Incident means any of the following events:

- (1) An event that involves a release of gas from a pipeline, or of liquefied natural gas, liquefied petroleum gas, refrigerant gas, or gas from an LNG facility, and that results in one or more of the following consequences;
  - (i) A death, or personal injury necessitating in-patient hospitalization;
  - (ii) Estimated property damage of \$50,000 or more, including loss to the operator and others, or both, but excluding cost of gas lost;
  - (iii) Unintentional estimated gas loss of three million cubic feet or more;
- (2) An event that results in an emergency shutdown of an LNG facility.
- (3) An event that is significant in the judgment of the operator, even though it did not meet the criteria of paragraphs (1) or (2) of this definition.

# Gas Pipeline Incidents Onshore Ruptures Only<sup>(1)</sup>

	2017	2016	2015	3 Yr Avg.
	Number per 1000 Miles			
<b>KM Transmission and Regulated Gathering<sup>(2)</sup></b>	<b>0.040</b>	<b>0.020</b>	<b>0.040</b>	<b>0.033</b>
<b>Transmission and Regulated Gathering Industry Average (US)<sup>(3)</sup></b>	<b>0.023</b>	<b>0.035</b>	<b>0.070</b>	<b>0.043</b>

	Rolling 12 Month	
	Number per 1000 Miles*	
<b>KM Transmission and Regulated Gathering<sup>(4)</sup></b>	<b>0.00</b>	

- (1) Rupture defined as a break, burst, or failure that exposes a visible pipeline fracture surface.
- (2) 2015, 2016 & 2017 Kinder Morgan rupture rates calculated using most current pipeline mileage.
- (3) Industry rates exclude Kinder Morgan data.
- (4) Rolling 12 Month Kinder Morgan rupture rate calculated using most current pipeline mileage.