

GAS TRANSMISSION AND GATHERING PIPELINE SYSTEMS DATA FROM PHMSA

	DRAFT 2012 <small>(PHMSA date: 7/1/13) (1)</small>	2011 <small>(PHMSA date: 6/28/13) (2)</small>	2009 (2)	2006 (2)
TOTAL Miles of Transmission Pipelines	302,386	304,944	304,415	300,339
Miles of Onshore	297,091	299,631	298,837	293,720
Miles of Offshore	5,295	5,313	5,578	6,619
Miles of Transmission Lines in High Consequence Areas (HCA)	19,750	20,374	N/A	N/A
Onshore	19,745	20,428		
Offshore	5	9		
TOTAL Miles of Gathering Pipelines (regulated) (3)	16,657	20,155	20,535	20,763
Miles of Onshore Type A	7,294	8,574		
Miles of Onshore Type B	4,013	5,114	13,890	13,203
Miles of Offshore	5,351	6,466	6,645	7,560
Volume transported in M cubic feet by commodity (Transmission Pipelines)	113,108,550,401	64,398,875,746	N/A	N/A
Natural Gas	112,939,160,474	63,521,515,353		
Propane Gas	0	448,059,394		
Synthetic Gas	56,614	170,748		
Hydrogen Gas	45,740,123	4,370,024		
Landfill Gas	2,725,142	4,199,276		
Other Gas	120,868,048	420,560,950		
Miles of Steel Transmission Pipe Total	295,222	303,334	302,849	299,203
Coated Cathodically protected	287,459	293,932	295,759	289,077
Bare Cathodically protected	5,902	8,131	5,524	7,959
Coated not Cathodically protected	558	140	192	342
Bare not Cathodically protected	1,303	1,131	1,374	1,824
Miles of Steel Gathering Pipe Total	15,018	18,043	19,125	19,491
Coated Cathodically protected	13,759	15,892	17,521	17,994
Bare Cathodically protected	330	670	441	841
Coated not Cathodically protected	688	1,013	365	220
Bare not Cathodically protected	241	468	798	437
TOTAL Miles Steel pipe	310,240	321,377	321,974	318,694
TOTAL Miles of Non Steel Pipe	2,420	3,667	2,942	2,368
Sub total Transmission non steel pipes (miles)	1,330	1,545	1,532	1,096
Cast Iron	0	0	33.4 (combined)	40 (combined)
Wrought Iron	61	59		
Plastic	1,207	1,427	1,150	737
Composite	3	0	N/A	N/A
Other	59	60	382	359
Sub total Gathering non-steel pipes (miles)	1,090	2,121	1,410	1,271
Cast Iron	0	38	0	2
Wrought Iron	1	1		
Plastic	1,076	2,048	1,208	1,062
Composite	5	0	N/A	N/A
Other	8	35	202	207
Inspections and Repairs			N/A	N/A
Total miles inspected using all methods	59,212	50,002		
Total number of anomalies repaired in and out of HCA segment	39,973	33,120		
Total number of conditions repaired in an HCA segment	1,129	1,483		
Total mileage inspected using the following in line inspection (ILI) tools	49,836	43,971		
Corrosion or metal loss tools	23,697	21,267		
Dent or deformation tools	23,927	20,263		
Crack or long seam defect tools	1,495	1,153		
Any other internal inspection tools	717	1,288		
Repairs made based on ILI	39,147	32,141		
Total miles inspected by pressure testing	2,069	1,687		
Total repairs following pressure test failures	52	71		
Total miles inspected by Direct Assessment (DA)	4,793	3,273		
ECDA	2,163	2,000		
ICDA	1,757	893		
SSCDA	873	379		
Total anomalies identified by DA and repaired in and out of HCA	750	853		
ECDA	729	822		
ICDA	21	25		
SSCDA	0	6		
Total miles inspected by other methods	2,514	1,071		
Total anomalies identified by other methods and repaired in and out of HCA	24	55		
Miles of Transmission pipeline by decade installed	302,427	304,940	304,573	300,324
Pre-1940 or unknown	14,426	14,959	16,775	20,869
1940-1949	21,887	22,572	22,657	24,096
1950-1959	69,386	69,891	71,391	71,008
1960-1969	71,756	72,230	73,188	73,976
1970-1979	31,495	32,213	32,375	32,314
1980-1989	26,020	26,438	27,384	27,624
1990-1999	30,448	31,608	32,340	32,316
2000-2009	30,326	30,007	28,463	18,121
2010-2019	6,683	5,023	N/A	N/A
Miles of Gathering line by decade installed	16,671	20,156	20,378	20,898
Pre 1940 or unknown	1,785	3,054	1,604	1,850
1940-1949	311	381	432	552
1950-1959	940	867	1,347	1,708
1960-1969	1,527	1,890	2,528	2,890
1970-1979	2,172	2,656	2,926	3,466
1980-1989	2,624	3,363	3,607	4,200
1990-1999	3,060	3,118	3,458	4,086
2000-2009	3,283	4,105	4,475	2,147
2010-2019	970	721	N/A	N/A
Incidents and failures in HCA segments				
Incidents (4)	15	10	6	8
Failures	23	22	N/A	N/A

NOTES:

- (1) Downloaded 7/17/13 from <http://www.regulations.gov/#/docketDetail.D=PHMSA-2013-0119>
- (2) Annual report data downloaded from PHMSA for each year indicated above. Accessed 7/17 from this web page - <http://www.phmsa.dot.gov/portal/site/PHMSA/menuitem.ebdc7a8a7e39f2e55cf2031050248a0c/?vgnextoid=a872dfa122a1d110vgnVCM1000009ed07898RCRD&vgnnextchannel=3430fb649a2dc110vgnVCM1000009ed07898RCRD&vgnnextfmt=print>
- (3) PHMSA acknowledges over 10x the number of gathering lines as reported here exist onshore, though the majority remain unregulated. See briefing paper from 3/24/11 on Onshore Gas Gathering from the Technical Pipeline Safety Standards Committee, downloaded as "Briefing - TPSSC - Onshore Gas Gathering - March 2011" from this webpage on 7/18/13: <http://www.phmsa.dot.gov/portal/site/PHMSA/menuitem.ebdc7a8a7e39f2e55cf2031050248a0c/?vgnextoid=e875afe58ddcd210vgnVCM1000001ecb7898RCRD&vgnnextchannel=032d93df56c7110vgnVCM1000009ed07898RCRD&vgnnextfmt=print>
- (4) Data from incident reports by year indicated as "YES" occurring within an HCA. Accessed 7/17/13 from <http://www.phmsa.dot.gov/portal/site/PHMSA/menuitem.ebdc7a8a7e39f2e55cf2031050248a0c/?vgnextoid=fdd2dfa122a1d110vgnVCM1000009ed07898RCRD&vgnnextchannel=3430fb649a2dc110vgnVCM1000009ed07898RCRD&vgnnextfmt=print>