

GAS FACTS

2009 DATA

ENERGY RESERVES NATURAL GAS SUPPLY
END-USERS SALES TRANSPORTATION VOLUMES
DISTRIBUTION AND TRANSMISSION
FINANCE PERSONNEL DATA
UNDERGROUND STORAGE
ENERGY CONSUMPTION
REVENUES PRICES
HOUSING DATA
GLOSSARY
INDEX

PUBLISHED BY: THE AMERICAN GAS ASSOCIATION
400 N. CAPITOL STREET, N.W.
WASHINGTON, D.C. 20001

PREPARED BY: POLICY ANALYSIS GROUP

PAUL WILKINSON, VICE PRESIDENT, POLICY ANALYSIS
PAUL PIERSON, MANAGER, STATISTICAL SERVICES

GAS FACTS

2009 DATA

Unless otherwise noted, material presented in this volume is based on data collected from individual utilities by the Department of Statistics of the American Gas Association. It may be excerpted without charge, but credit to the source is requested.

COPYRIGHT © 2011
BY THE
AMERICAN GAS ASSOCIATION

Printed in the United States of America

CATALOG #F1012010

eGUS

The underlying data for many of the tables in *Gas Facts* can be accessed by **AGA members** via eGUS, the Web-based version of the Gas Utilities Statistics system. To access this online database system, visit the site at www.aga.org/eGUS, and when prompted, enter your AGA website username and password (obtained via the AGA main page at www.aga.org). The e-Gus User Manual and contact information are provided in the Help & FAQ section of the eGUS site.

For further information or assistance with the eGUS system, AGA members may contact Mr. Paul Pierson, Manager, Statistical Services at (202) 824-7133 or via e-mail at ppierson@aga.org.

AGA members and non-members may request specific queries of the database for a nominal fee. If you would like information regarding available data or query fees, please contact Mr. Paul Pierson, Manager, Statistical Services at (202) 824-7133 or via e-mail at ppierson@aga.org.

www.sepana.ir

CONTENTS

	PAGE
Introduction	viii
Section 1: 2009 in Review	1
Section 2: Natural Gas Reserves and Producing Gas Wells	3
Section 3: Natural Gas Imports, Exports and Supplementals	11
Section 4: Underground Gas Storage	15
Section 5: Distribution and Transmission Pipeline Miles.....	23
Section 6: Energy Consumption	33
Section 7: Revenues from Sales.....	53
Section 8: End Users	59
Section 9: Prices	69
Section 10: Appliance and Housing Data	77
Section 11: Income Accounts, Balance Sheets and Analytical Ratios	83
Section 12: Construction Expenditures	99
Section 13: Personnel Data	103
Appendix A: Glossary of Gas Industry Terms	107
Appendix B: Conversion Table	119
Index	121

LIST OF CHARTS

CHART NUMBER		PAGE
2-1.	Proved Reserves and Net Production of Natural Gas In the United States, 2000-2009.....	4
4-1.	Distribution of Underground Storage by Type of Pool.....	17
4-2.	Total Working Gas In Storage Comparison of Current Year To Prior 5-Year Average.....	19
5-1.	United States, Miles of Main by Material, 2009.....	29
5-2.	United States, Number of Services by Material, 2009.....	31
6-1.	Gas Utility Industry Sales, by Class of Service, 2000-2009.....	34
7-1.	Gas Utility Industry Sales Revenues, by Class of Service, 2000-2009.....	55
12-1.	Gas Utility Industry Construction Expenditures, 2009.....	100

INTRODUCTION

GENERAL

The American Gas Association assumed its present status as a gas utility industry trade association in 1918, after a merger of two predecessor organizations. Today it renders assistance to the gas utility industry and provides an advocacy platform for local distribution companies, so that the industry may serve its customers more efficiently. The Association recognizes the need for factual information regarding the gas industry for the use, not only of industry organizations, but also interested outside publics. Its statistical efforts are a vital part of this function, and the publication of *Gas Facts* is one result of these efforts.

This publication contains detailed statistics for 2009 and summary statistics for prior years for the gas utility industry which by definition, consists of the companies engaged in natural gas distribution and transmission. The publication also contains relevant data on the gas producing segment of the industry. Gas volumes are expressed in millions of cubic feet (at 14.73 psi and 60°F unless otherwise noted) and in British thermal units (Btu) to permit direct comparison with other energy data. A conversion table is included as Appendix B. Throughout the publication numbers may not add up to total due to independent rounding.

The user should be aware that a large transportation market has developed, which directly impacts gas utility sales quantities, revenues and number of customers. Although total pipeline throughput may remain the same, as transportation volumes to end-users increase, gas utility sales quantities to end-users will decrease.

Data presented in *Gas Facts*, broken down by company type, are not necessarily comparable from year to year. Acquisitions, mergers and corporate reorganizations continue to cause the number of companies in any given category to vary from year to year. Some of these changes are significant and can cause a dramatic shift in the data reported for a specific category from prior years.

In addition, data and resulting estimates are attributed to utility industry segments in *Gas Facts* as distribution, transmission or integrated, based not only on company operating revenues (see glossary) but also on how the company submitted information in the *Uniform Statistical Report* (USR). For example, if a company submits data under one corporate name, such as qualifying revenue, for distribution and transmission activities combined, then it is placed in the integrated category. However, if a large company submits data for its distribution companies separate from transmission companies, no effort is made to recombine the data to produce an integrated result. Distribution data in this case is attributed to the distribution segment and transmission data to the transmission segment.

SOURCES OF INFORMATION

Most of the information contained in this volume is developed from data forms contained in the *Uniform Statistical Report* and other sources such as the Energy Information Administration (EIA) and the Federal Energy Regulatory Commission (FERC). Tables presented in *Gas Facts* use data primarily from distribution companies submitting a *Uniform Statistical Report* (USR) and estimates for those companies not reporting based on recent historical experience.

Estimates of proved reserves of natural gas are taken from the U.S. Department of Energy report *U.S. Crude Oil, Natural Gas and Natural Gas Liquids Reserves*. Data for gas spaceheating customers were taken from the *AGA Residential Natural Gas Market Survey*. Changes in the quantity and format of data reported to AGA, the Energy Information Administration, the Federal Energy Regulatory Commission and others have influenced the quality and type of tables that can be constructed from the available sources. As a result, tables in this edition have been modified or eliminated compared with previous *Gas Facts* editions based on judgements regarding sample size and data quality.

ACKNOWLEDGEMENTS

Our thanks go to those companies participating in the *Uniform Statistical Report* data gathering effort. Their cooperation and support are the essential elements to making this publication a primary source of gas utility industry data. Also greatly appreciated is the cooperation of the public and governmental agencies credited in *Gas Facts* tables.

Key contributions to this publication have been made by the Manager, Statistical Services, Paul Pierson; Manager, Policy Analysis, Mariam Arnaout; Statistical Consultant, Kelly Hopkins; and Policy Analysis Senior Staff Associate, Lucy Castañeda-Land.

X

SECTION 1

2009 IN REVIEW

Highlights from the 2010 edition of *Gas Facts*

Supply

- Gas well completions in 2009 decreased 43.2 percent compared with 2008.
- Estimated working gas capacity in underground storage, as of June 2007, was 3,990 Bcf, with a total deliverability of 79,998 MMcf per day.
- The United States imported 3.8 trillion cubic feet of natural gas in 2009, primarily from Canada.

Delivery

- The U.S. natural gas industry had 2.39 million miles of pipeline — including distribution, services, transmission, and gathering lines — in place in 2009.

Sales

- Gas utility sales decreased 6.3 percent in 2009 to 8,050 trillion Btu.
- Residential sales decreased 3.4 percent from 2009 levels.
- Commercial sales decreased 5.4 percent.
- Industrial sales decreased 13.8 percent.
- Electric generation sales decreased 10.2 percent.

Prices

- The average retail natural gas price decreased 19.2 percent in 2009 compared to 2008.
- The average residential price decreased 13.2 percent.
- Average commercial prices decreased 17.4 percent.
- Average industrial prices decreased 44.8 percent.

TABLE 1-1
GAS UTILITY INDUSTRY SALES CUSTOMERS, SALES VOLUMES, REVENUES AND PRICES BY CLASS OF
SERVICE
2008 and 2009

	2008	2009	Percentage Change
END-USERS—TOTAL^a	65,487	65,147	- 0.5
Residential	60,654	60,344	- 0.5
Commercial	4,703	4,659	- 0.9
Industrial	128	142	+10.9
Other	2	2	-4.8
SALES—TOTAL^b	8,594	8,050	0.3
Residential	4,541	4,387	2.8
Commercial	2,009	1,901	3.4
Industrial	2,024	1,744	-13.8
Other	21	19	-13.1
REVENUES—TOTAL^c	102,641	77,675	-24.3
Residential	60,195	50,500	-16.2
Commercial	23,592	18,451	-21.8
Industrial	18,611	8,577	-53.9
Other	243	147	-40.0
PRICES—TOTAL^d	\$11.94	\$9.65	-19.2
Residential	13.26	11.51	-13.2
Commercial	11.75	9.71	-17.4
Industrial	9.37	5.17	-44.8
Other	11.39	7.89	-30.7

^aYearly averages (Thousands)

^bSales quantities (Trillion Btu)

^cRevenues (\$ Million)

^dPrices (\$/Million Btu)

SECTION 2

NATURAL GAS RESERVES AND PRODUCING GAS WELLS

U.S. NATURAL GAS RESERVES AS OF DECEMBER 31

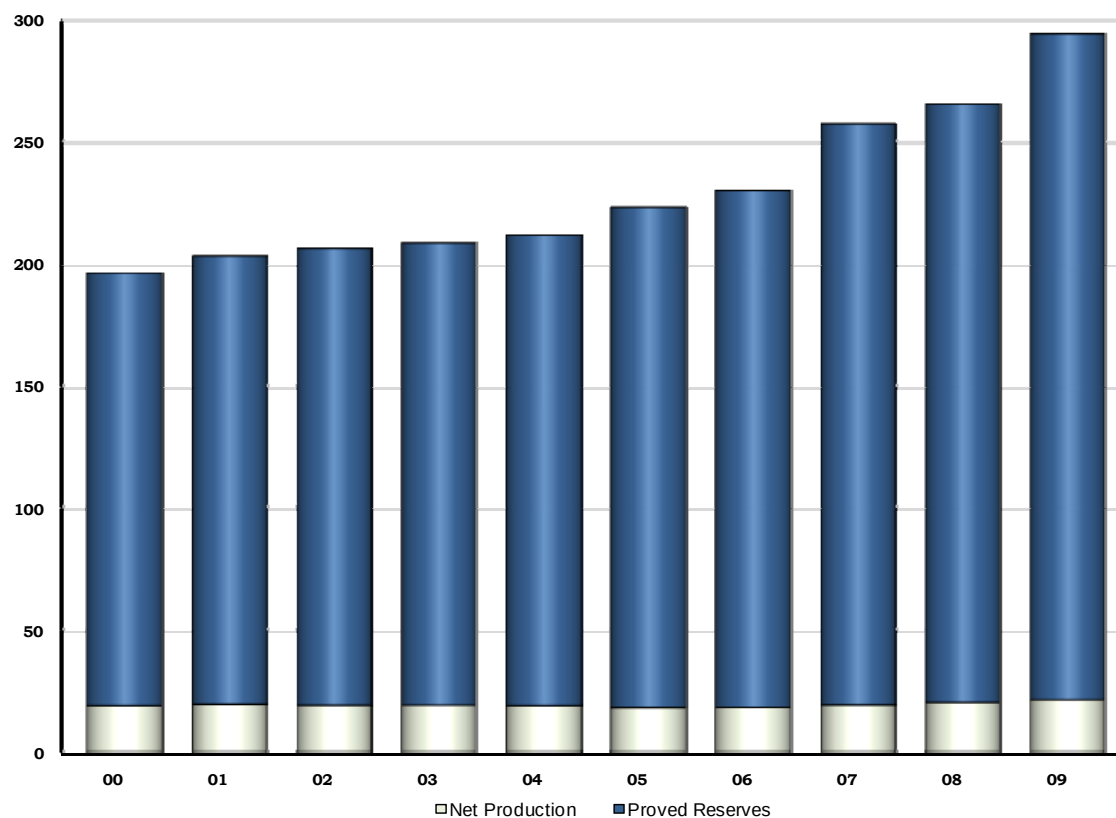
	<u>2009</u>	<u>% Change</u> <u>2009/2008</u>
Reserves (Billion Cubic Feet)		
Proved Reserves	272,509	+ 11.4
Discoveries	46,109	+ 51.8
Production	21,594	+ 5.2

U.S. NATURAL GAS WELLS

	<u>2009</u>	<u>% Change</u> <u>2009/2008</u>
Producing Wells	493,100	+ 3.4

NATURAL GAS RESERVES, PRODUCING GAS WELLS

Chart 2-1
**PROVED RECOVERABLE RESERVES & NET PRODUCTION
 OF NATURAL GAS IN THE UNITED STATES -- 2000-2009**
 (Trillion Cubic Feet)



Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 2010 Annual Report

NATURAL GAS RESERVES, PRODUCING GAS WELLS

TABLE 2-1
SUMMARY OF ANNUAL ESTIMATES OF PROVED RESERVES OF NATURAL GAS IN THE UNITED STATES
1982-2009
(Billion Cubic Feet)

Year	Net of Corrections and Adjustments (1)	Revision Increases (2)	Revision Decreases (3)	Changes in Reserves during Year				Production Dry (8)	Proved Reserves ^b 12/31 (9)	Net Change from Prior Year (10)
				Extensions to Old Reservoirs (4)	Discoveries in Old Fields (5)	New Field Discoveries (6)	Total Discoveries ^a (7)			
1982	2,378	19,795	19,340	8,349	3,419	2,687	14,455	17,506	201,512	(218)
1983	3,090	17,602	17,617	6,909	2,965	1,574	11,448	15,788	200,247	(1,265)
1984	(2,241)	17,841	14,712	8,299	2,686	2,536	13,521	17,193	197,463	(2,784)
1985	(1,708)	18,775	16,304	7,169	2,960	999	11,128	15,985	193,369	(4,094)
1986	1,320	21,269	17,697	6,065	1,771	1,099	8,935	15,610	191,586	(1,783)
1987	1,268	17,527	14,231	4,587	1,499	1,089	7,175	16,114	187,211	(4,375)
1988	2,193	23,367	38,427 ^c	6,803	1,909	1,638	10,350	16,670	168,024 ^c	(19,187) ^c
1989	3,013	26,673	23,643	6,339	2,243	1,450	10,032	16,983	167,116	(908)
1990	1,557	18,981	13,443	7,952	2,412	2,004	12,368	17,233	169,346	2,230
1991	2,960	19,890	15,474	5,090	1,604	848	7,542	17,202	167,062	(2,284)
1992	2,235	18,055	11,962	4,675	1,724	649	7,048	17,423	165,015	(2,047)
1993	972	17,597	12,248	6,103	1,866	899	8,868	17,789	162,415	(2,600)
1994	1,945	21,365	15,881	6,941	3,480	1,894	12,315	18,322	163,837	1,422
1995	580	20,465	12,731	6,843	2,452	1,666	10,961	17,966	165,146	1,309
1996	3,785	17,132	13,046	7,757	1,451	3,110	12,318	18,861	166,474	1,328
1997	(590)	21,658	16,756	10,585	2,681	2,382	15,648	19,211	167,223	749
1998	(1,635)	28,003	22,263	8,197	2,162	1,074	11,433	18,720	164,041	(3,182)
1999	982	42,167	31,663	7,043	2,196	1,568	10,807	18,928	167,041	3,365
2000	(891)	23,188	16,226	14,787	2,368	1,983	19,138	19,219	177,427	10,386
2001	(2,742)	18,358	20,676	16,380	2,800	3,578	22,758	19,779	183,460	6,033
2002	3,727	20,255	19,318	14,769	1,694	1,332	17,795	19,353	186,946	3,486
2003	2,841	19,912	21,550	16,454	1,610	1,222	19,286	19,425	189,044	2,098
2004	(114)	26,893	26,149	18,198	1,206	759	20,163	19,168	192,513	3,469
2005	1,887	22,353	19,654	21,050	1,208	942	23,200	18,458	204,385	11,872
2006	743	20,833	22,669	21,778	1,155	409	23,342	18,545	211,085	6,700
2007	1,147	32,174	16,713	21,707	1,188	796	29,091	19,466	237,726	26,641
2008	207	30,674	33,802	27,582	1,622	1,170	30,374	20,523	244,656	6,930
2009	5,098	31,416	33,035	42,139	2,598	1,372	46,109	21,594	272,509	27,853

^aCol 4 + Col 5 + Col 6 = Col 7

^bProved Reserves Prior Year = Col 9 + Col 1 + Col 2 - Col 3 + Col 7 - Col 8

^cAn unusually large revision decrease was made to North Slope dry natural gas reserves in 1988 because of lack of transportation to potential markets.

Note: "Old" means discovered in a prior year. "New" means discovered during the report year.

Source: U.S. Department of Energy, Energy Information Administration, *U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves*, 2010 Annual Report

NATURAL GAS RESERVES, PRODUCING GAS WELLS

TABLE 2-2
SUMMARY OF ANNUAL ESTIMATES OF ESTABLISHED RESERVES OF NATURAL GAS IN CANADA^a
1990-2009
(Billion Cubic Feet)

Year	Reserves Remaining at Beginning of Year	Changes Due to		Change during Year
		Net Production	Reserves Remaining at End of Year	
1990	b	3,835	96,200 ^C	b
1991	96,200 ^C	4,037	95,700 ^C	(500) ^C
1992	95,700 ^C	4,436	94,320 ^C	(1,380) ^C
1993	94,320 ^C	4,896	78,790 ^C	(15,530) ^C
1994	78,790 ^C	5,300	67,000 ^C	(11,790) ^C
1995	67,000 ^C	5,643	68,100 ^C	1,100 ^C
1996	68,100 ^C	5,835	68,550 ^C	450 ^C
1997	68,550 ^C	5,954	63,860 ^C	(4,690) ^C
1998	63,860 ^C	6,125	61,710 ^C	(2,150) ^C
1999	61,710 ^C	6,244	60,680 ^C	(1,030) ^C
2000	60,680 ^C	6,418	59,430 ^C	(1,250) ^C
2001	59,430 ^C	6,407	59,810 ^C	380 ^C
2002	59,810 ^C	6,363	58,770 ^C	(1,040) ^C
2003	58,770 ^C	6,038	56,290 ^C	(2,480) ^C
2004	56,290 ^C	6,152	56,260 ^C	(30) ^C
2005	56,260 ^C	6,196	57,650 ^C	1,390 ^C
2006	57,650 ^C	6,217	57,910 ^C	260 ^C
2007	57,910 ^C	6,175	57,700 ^C	(210) ^C
2008	57,700 ^C	5,822	61,950 ^C	4,250 ^C
2009	61,950 ^C	5,523	61,000 ^C	50 ^C

^aVolumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

^bNot available

^cRounded

Parentheses, (), denote a volume decrease (negative number).

Source: Canadian Gas Association

TABLE 2-3
ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS IN CANADA
BY PROVINCE^a
2009
(Billion Cubic Feet)

Province	Remaining Reserves December 31, 2008	Change During Year	Remaining Reserves - December 31, 2009		
			Total ^b	Net Non-Associated	Associated/ Dissolved
Canada	61,951	(946)	61,005	51,243	9,762
Total West Canada	60,753	(811)	59,942	50,180	9,762
Alberta	40,208	(2,346)	37,862	28,697	9,165
British Columbia	17,059	1,807	18,866	18,368	498
Mainland Territories	356	(3)	353	317	36
Saskatchewan	3,130	(269)	2,861	2,798	63
Total East Canada	1,198	(134)	1,064	1,064	0
Ontario	693	(7)	686	686	0
Other East Canada	4	0	4	4	0
East Coast Offshore	501	(124)	374	374	0

^aVolumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

^bUnderground storage not included.

Parentheses () denote a volume decrease (negative number).

Numbers may not add up to totals due to independent rounding.

Source: Canadian Association of Petroleum Producers

TABLE 2-4
CHANGES IN ESTIMATED ESTABLISHED REMAINING MARKETABLE RESERVES OF NATURAL GAS
IN CANADA BY PROVINCE DURING 2009^a
(Billion Cubic Feet)

Province	Remaining Reserves December 31, 2008	Gross Additions	Production ^b	Remaining Reserves December 31, 2009
Canada	61,951	4,578	5,523	61,005
Total West Canada	60,753	4,577	5,387	59,942
Alberta	40,208	1,861	4,207	37,862
British Columbia	17,059	2,796	989	18,866
Mainland Territories	356	2	5	353
Saskatchewan	3,130	(82)	186	2,861
Total East Canada	1,198	1	135	1,064
Ontario	693	1	8	686
Other East Canada	4	0	0	4
East Coast Offshore	501	0	127	374

^aVolumes are calculated at a pressure base of 14.65 psia and at a standard temperature of 60°F.

^bIncludes net change in underground storage.

Parentheses () denote a volume decrease (negative number).

Numbers may not add up to totals due to independent rounding.

Source: Canadian Association of Petroleum Producers

NATURAL GAS RESERVES, PRODUCING GAS WELLS

TABLE 2-5
NUMBER OF PRODUCING GAS WELLS BY STATE
1995-2009^{a,b}

Division and State	1995	2000	2005	2007	2008 ^R	2009
UNITED STATES	298,541	341,678	425,887	452,945	476,652	493,100
New England	0	0	0	0	0	0
Middle Atlantic	37,159	41,775	52,103	59,380	62,306	63,984
New Jersey	0	0	0	0	0	0
New York	6,134	5,775	5,449	6,680	6,675	6,628
Pennsylvania	31,025	36,000	46,654	52,700	55,631	57,356
East North Central	41,497	42,747	45,272	46,521^R	44,981	46,177
Illinois	372	280	316	43 ^R	45	51
Indiana	1,347	1,502	2,321	2,350	525	563
Michigan	5,258	7,068	8,900	9,712	9,995	10,600
Ohio	34,520	33,897	33,735	34,416	34,416	34,963
Wisconsin	0	0	0	0	0	0
West North Central	22,277	15,469	19,277	20,170	18,449	21,813
Iowa	0	0	0	0	0	0
Kansas	22,020	15,206	18,946	19,713	17,862	21,243
Minnesota	0	0	0	0	0	0
Missouri	15	0	0	0	0	0
Nebraska	87	98	114	186	322	285
North Dakota	99	94	148	200	194	196
South Dakota	56	71	69	71	71	89
South Atlantic	37,822	45,533	53,474	53,957	55,797	57,912
Delaware	0	0	0	0	0	0
District of Columbia	0	0	0	0	0	0
Florida	0	0	0	0	0	0
Georgia	0	0	0	0	0	0
Maryland	7	7	7	7	7	7
North Carolina	0	0	0	0	0	0
South Carolina	0	0	0	0	0	0
Virginia	1,671	3,051	4,132	5,735	6,426	7,303
West Virginia	36,144	42,475	49,335	48,215	49,364	50,602
East South Central	17,372	19,223	21,774	25,774	25,778	26,695
Alabama	3,526	4,359	5,523	6,591	6,860	6,913
Kentucky	13,311	13,487	14,175	16,563	16,290	17,152
Mississippi	535	997	1,676	2,315	2,343	2,320
Tennessee	0	380	400	305	285	310
West South Central	102,525	101,784	133,83^R	137,718	154,282	162,281
Arkansas	3,988	4,000	3,462 ^R	4,773	5,592	6,314
Louisiana	14,169	15,700	18,838	18,145	19,213	18,860
Oklahoma	29,733	21,507	36,704	38,364	41,921	43,600
Texas	54,635	60,577	74,827	76,436	87,556	93,507
Mountain	38,775	73,809	96,435	105,076^R	111,605	110,326
Arizona	7	9	6	7	6	6
Colorado	7,017	22,442	22,691	22,949	25,716	27,021
Idaho	0	0	0	0	0	0
Montana	2,918	3,321	5,751	6,925	7,095	7,031
Nevada	0	4	4	4	0	0
New Mexico	23,510	33,948	40,157	42,644	44,241	44,784
Utah	1,127	4,178	4,092	5,197	5,578	5,774
Wyoming	4,196	9,907	23,734	27,350 ^R	28,969	25,710
Pacific	1,114	1,338	1,598	1,797	1,927	1,928
Alaska	100	152	227	239	261	261
California	997	1,169	1,356	1,540	1,645	1,643
Hawaii	0	0	0	0	0	0
Oregon	17	17	15	18	21	24
Washington	0	0	0	0	0	0
Gulf of Mexico^b	n.a	n.a	2,123	2,552	1,527	1,984

^aData pertain only to dry gas and condensate wells. Data as of December 31.

^bBeginning in 2001, the number of Federal offshore Gulf of Mexico producing gas and gas condensate wells is reported separately. For previous years, the well counts for the Federal offshore Gulf of Mexico were included in the well counts for the States of Alabama, Louisiana and Texas.

^RRevised

n.a. – Not Available

Source: Energy Information Administration, *Natural Gas Annual 2010*, January 2011

TABLE 2-6
CRUDE OIL AND NATURAL GAS WELLS DRILLED
1981-2009

Year	Crude Oil	Natural Gas	Dry	TOTAL
1981	43,598	20,166	27,789	91,553
1982	39,199	18,979	26,219	84,397
1983	37,120	14,564	24,153	75,837
1984	42,605	17,127	25,681	85,413
1985 ^R	35,261	14,324	21,211	70,796
1986	19,097	8,615	12,678	40,291
1987	16,164	8,055	11,112	35,331
1988	13,636	8,555	10,041	32,232
1989	10,204	9,539	8,188	27,931
1990 ^R	12,827	11,245	8,234	32,306
1991	11,770	9,526	7,596	28,892
1992	8,757	8,209	6,118	23,084
1993	8,407	10,017	6,328	24,752
1994	6,721	9,538	5,307	21,566
1995 ^R	8,244	8,081	4,813	21,138
1996 ^R	8,832	9,025	4,889	22,746
1997 ^R	11,202	11,497	5,869	28,568
1998 ^R	7,675	11,640	4,760	24,075
1999 ^R	4,786	12,020	3,553	20,359
2000 ^R	8,093	17,044	4,132	29,269
2001 ^R	8,886	22,068	4,565	35,519
2002 ^R	6,764	17,340	3,727	27,831
2003 ^R	8,113	20,706	3,970	32,789
2004 ^R	8,765	24,184	4,060	37,009
2005 ^R	10,710	28,646	4,657	44,013
2006 ^R	13,267	32,885	5,180	51,332
2007 ^R	13,395	33,093	5,145	51,633
2008 ^R	16,953	33,517	5,706	56,176
2009	11,804	19,034	3,793	34,631

^RRevised

Source: U.S. Department of Energy, Energy Information Administration, *Monthly Energy Review*, November 2010

SECTION 3

NATURAL GAS IMPORTS, EXPORTS AND SUPPLEMENTALS

	<u>2009</u>	<u>% Change</u> <u>2009/2008</u>
Imports (Billion cubic feet)	3,751	- 5.8
Exports (Billion cubic feet)	1,072	6.2

SUPPLY

TABLE 3-1
EXPORTS OF NATURAL GAS FROM THE UNITED STATES – 1982-2009
(Million Cubic Feet)

Year	TOTAL	Canada	Mexico	Japan ^a	Other ^b
1982	51,727	162	1,707	49,858	0
1983	54,638	137	1,646	52,855	0
1984	54,753	128	1,786	52,840	0
1985	55,269	177	2,205	52,883	0
1986	61,271	9,203	1,896	50,172	0
1987	54,020	3,297	2,125	48,599	0
1988	73,638	19,738	2,327	51,573	0
1989	106,871	38,443	17,004	51,424	0
1990	85,565	17,359	15,659	52,546	0
1991	129,244	14,791	60,448	54,005	0
1992	216,282	67,777	95,973	52,532	0
1993	140,183	44,518	39,676	55,989	0
1994	161,738	52,556	46,500	62,682	0
1995	154,119	27,554	61,283	65,283	0
1996	153,393	51,905	33,840	67,648	0
1997	157,006	56,447	38,372	62,187	0
1998	159,007	39,891	53,165	65,951	0
1999	163,415	38,508	61,300	63,607	0
2000	243,716	72,586	105,520	65,610	0
2001	373,278	166,690	140,835	65,753	0
2002	516,233	189,313	263,481	63,439	0
2003	679,922	270,988	343,236	65,698	0
2004	854,138	394,585	397,453	62,099	0
2005	728,601	358,280	305,196	65,124	0
2006	723,958	341,065	322,128	60,765	0
2007	822,454	482,196	291,773	46,501	1,982
2008	1,005,724	590,480	365,396	49,796	53
2009	1,072,357	700,596	338,406	30,536	2,819

^aLNG exports from Alaska

^bIncludes all other LNG Exports

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, November 2010

TABLE 3-2
PIPELINE IMPORTS OF NATURAL GAS TO THE UNITED STATES – 1982-2009
(Million Cubic Feet)

Year	TOTAL	Canada	Mexico
1982	878,198	783,406	94,792
1983	787,283	711,923	75,360
1984	806,869	755,368	51,501
1985	926,054	926,054	0
1986	748,780	748,780	0
1987	992,532	992,532	0
1988	1,276,322	1,276,322	0
1989	1,339,357	1,339,357	0
1990	1,448,065	1,448,065	0
1991	1,709,716	1,709,716	0
1992	2,094,387	2,094,387	0
1993	2,268,429	2,266,751	1,678
1994	2,573,061	2,566,049	7,013
1995	2,823,130	2,816,408	6,722
1996	2,897,138	2,883,277	13,862
1997	2,916,394	2,899,152	17,243
1998	3,066,605	3,052,073	14,532
1999	3,422,075	3,367,545	54,530
2000	3,555,567	3,543,966	11,601
2001	3,738,814	3,728,537	10,276
2002	3,786,733	3,784,978	1,755
2003	3,437,230	3,437,230	0
2004	3,606,543	3,606,543	0
2005	3,709,774	3,700,454	9,320
2006	3,602,744	3,589,995	12,749
2007	3,836,770	3,782,708	54,062
2008	3,632,535	3,589,221	43,314
2009	3,299,403	3,271,107	28,296

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, November 2010

SUPPLY

TABLE 3-3
LNG IMPORTS AND EXPORTS
1982-2009
(Million Cubic Feet)

Year	IMPORTS					EXPORTS		TOTAL NET
	Algeria	Egypt	Nigeria	Trinidad	Othera	Japan	Mexico	
1982	55,136	0	0	0	0	49,858	0	5,279
1983	131,124	0	0	0	0	52,855	0	78,269
1984	36,191	0	0	0	0	52,840	0	-16,649
1985	23,659	0	0	0	0	52,883	0	-29,224
1986	1,669	0	0	0	1,669	50,172	0	-48,503
1987	0	0	0	0	0	48,599	0	-48,599
1988	17,490	0	0	0	0	51,573	0	-34,083
1989	42,163	0	0	0	0	51,424	0	-9,262
1990	84,193	0	0	0	0	52,546	0	31,647
1991	63,596	0	0	0	0	54,005	0	9,591
1992	43,116	0	0	0	0	52,532	0	-9,415
1993	81,685	0	0	0	0	55,989	0	25,697
1994	50,778	0	0	0	0	62,682	0	-11,904
1995	17,918	0	0	0	0	65,283	0	-47,364
1996	35,325	0	0	0	4,949	67,648	0	-27,374
1997	65,675	0	0	0	12,103	62,187	0	15,591
1998	68,567	0	0	0	16,885	65,951	33	19,469
1999	75,763	0	0	50,777	36,890	63,607	275	99,548
2000	46,947	0	12,654	98,949	67,485	65,610	418	160,008
2001	64,945	0	37,966	98,009	37,207	65,753	465	171,908
2002	26,584	0	8,123	151,104	42,919	63,439	403	164,888
2003	53,423	0	50,067	378,069	24,959	65,698	376	440,444
2004	120,343	0	11,818	462,100	57,754	62,099	368	589,548
2005	97,157	72,540	8,149	439,246	14,168	65,124	242	565,894
2006	17,449	119,528	57,292	389,268	0	60,765	173	522,599
2007	77,299	114,580	95,028	447,758	36,146	46,501	87	724,224
2008	0	54,839	12,049	264,218	20,592	49,796	53	301,848
2009	0	160,435	13,306	236,202	42,014	30,536	2,819	418,602

*Other includes imports from Australia, Brunei, Equatorial Guinea, Indonesia, Malaysia, Oman, Qatar and United Arab Emirates.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Monthly*, November 2010

SUPPLY

TABLE 3-4
SUPPLEMENTAL GAS SUPPLIES BY STATE
2009
(Million Cubic Feet)

Division and State	TOTAL	Synthetic Natural Gas	Propane- Air	Biomass Gas	Other ^a
UNITED STATES	65,160	55,934	739	508	7,979
New England	12	0	12	0	0
Connecticut	*	0	*	0	0
Maine	0	0	0	0	0
Massachusetts	10	0	10	0	0
New Hampshire	0	0	0	0	0
Rhode Island	0	0	0	0	0
Vermont	2	0	2	0	0
Middle Atlantic	566	0	112	0	454
New Jersey	454	0	0	0	454
New York	6	0	6	0	0
Pennsylvania	106	0	106	0	0
East North Central	542	0	86	456	0
Illinois	20	0	20	0	0
Indiana	*	0	*	0	0
Michigan	0	0	0	0	0
Ohio	522	0	66	456	0
Wisconsin	0	0	0	0	0
West North Central	53,573	53,495	78	0	0
Iowa	3	0	3	0	0
Kansas	0	0	0	0	0
Minnesota	47	0	47	0	0
Missouri	10	*	10	0	0
Nebraska	18	0	18	0	0
North Dakota	53,495	53,495	0	0	0
South Dakota	0	0	0	0	0
South Atlantic	471	0	419	52	*
Delaware	2	0	2	0	0
District of Columbia	0	0	0	0	0
Florida	0	0	0	0	0
Georgia	52	0	0	52	*
Maryland	170	0	170	0	0
North Carolina	0	0	0	0	0
South Carolina	0	0	0	0	0
Virginia	247	0	247	0	*
West Virginia	0	0	0	0	0
East South Central	18	0	18	0	0
Alabama	0	0	0	0	0
Kentucky	18	0	18	0	0
Mississippi	0	0	0	0	0
Tennessee	0	0	0	0	0
West South Central	0	0	0	0	0
Mountain	7,527	0	3	0	7,525
Arizona	0	0	0	0	0
Colorado	7,527	0	3	0	7,525
Idaho	0	0	0	0	0
Montana	0	0	0	0	0
Nevada	0	0	0	0	0
New Mexico	0	0	0	0	0
Utah	0	0	0	0	0
Wyoming	0	0	0	0	0
Pacific	2,447	2,438	9	0	0
Alaska	0	0	0	0	0
California	0	0	0	0	0
Hawaii	2,447	2,438	9	0	0
Oregon	0	0	0	0	0
Washington	0	0	0	0	0

^aIncludes coke oven gas, manufactured gas, biomass gas, and air injection for Btu stabilization

Numbers may not add up to totals due to independent rounding.

*Volume is less than 500,000 cubic feet.

Source: U.S. Department of Energy, Energy Information Administration, *Natural Gas Annual*, January 2011

SECTION 4

UNDERGROUND GAS STORAGE

	<u>2007</u>
Number of Sites	438
Est. Total Capacity (Billion cubic feet)	8,340
Est. Base Gas Capacity (Billion cubic feet)	4,350
Est. Working Gas Capacity (Billion cubic feet)	3,990
Maximum Deliverability (Billion cubic feet/day)	80

Source: American Gas Association, *2007 Survey of Underground Storage of Natural Gas in the United States and Canada*, January 2009

TABLE 4-1
**UNDERGROUND STORAGE SITES AND WORKING GAS CAPACITY
 IN THE UNITED STATES**

Year	Sites	States	Est. Working Gas Capacity (Billion Cubic Feet)	Maximum Deliverability (Million Cubic Feet/Day)
2007	438	30	3,990	79,998

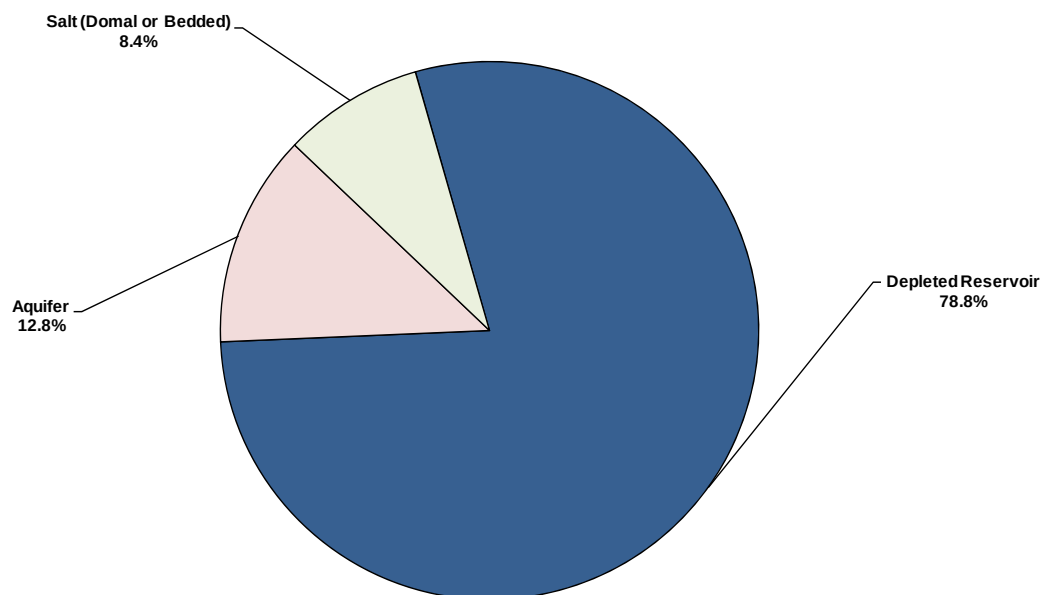
Source: American Gas Association, 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, January 2009

TABLE 4-2
**UNDERGROUND STORAGE BY RESERVOIR TYPE AND WORKING CAPACITY
 2007**

	Sites	States	Est. Working Gas Capacity (Billion Cubic Feet)	Est. Base Gas Capacity (Billion Cubic Feet)	Total Underground Storage Capacity (Billion Cubic Feet)
Depleted Reservoir	345	24	3,437	3,276	6,713
Aquifer	56	10	367	992	1,358
Salt (Domal or Bedded)	37	8	187	82	269
TOTAL	438	30	3,990	4,350	8,340

Source: American Gas Association, 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, January 2009

Chart 4-1
Distribution of Underground Storage by Reservoir Type



Source: American Gas Association, 2007 Survey of Underground Storage of Natural Gas in the United States and Canada, January 2009

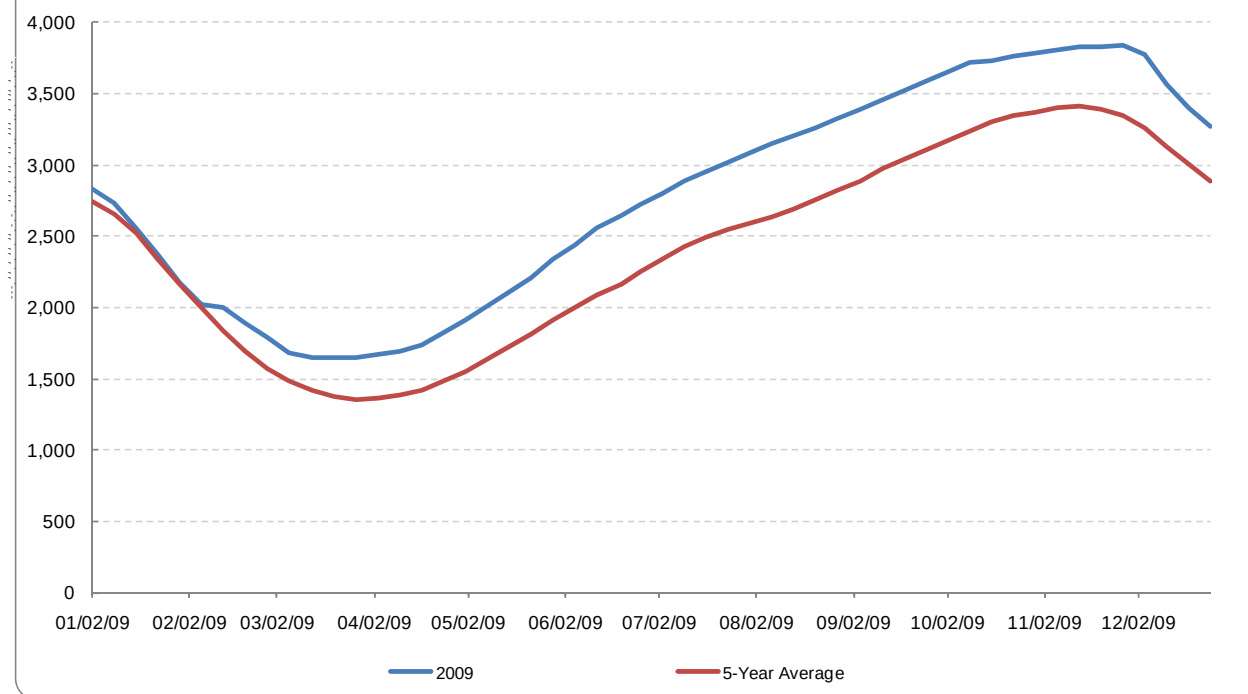
TABLE 4-3
DISTRIBUTION OF UNDERGROUND STORAGE BY RESERVOIR TYPE
IN THE UNITED STATES
2007

	Sites (%)	Working Gas (%)	Base Gas (%)
Depleted Reservoir	78.8	86.1	75.3
Aquifer	12.8	9.2	22.8
Salt (Domal or Bedded)	8.4	4.7	1.9
TOTAL	100	100	100

Numbers may not add up due to independent rounding.

Source: American Gas Association, *2007 Survey of Underground Storage of Natural Gas in the United States and Canada*, January 2009

Chart 4-2
Total Working Gas in Storage
Comparison of 2009 to Prior 5-Year Average



Source: U.S. Department of Energy, Energy Information Administration, *Weekly Natural Gas Storage Report*

UNDERGROUND STORAGE

TABLE 4-4
WORKING GAS STORAGE SURVEY WEEKLY DATA
2009

Date	Regions			TOTAL U.S.
	Producing ^a	East ^b	West ^c	
Jan 02	902	1,540	388	2,830
Jan 09	899	1,468	369	2,736
Jan 16	856	1,343	361	2,560
Jan 23	808	1,212	354	2,374
Jan 30	758	1,087	334	2,179
Feb 06	721	972	327	2,020
Feb 13	737	947	312	1,996
Feb 20	723	876	296	1,895
Feb 27	708	793	292	1,793
Mar 06	690	703	288	1,681
Mar 13	698	677	276	1,651
Mar 20	709	664	281	1,654
Mar 27	731	641	282	1,654
Apr 03	744	647	283	1,674
Apr 10	756	651	288	1,695
Apr 17	779	668	294	1,741
Apr 24	805	710	308	1,823
May 01	831	768	319	1,918
May 08	854	827	332	2,013
May 15	870	892	345	2,107
May 22	900	953	360	2,213
May 29	934	1,024	379	2,337
Jun 05	957	1,091	395	2,443
Jun 12	985	1,164	408	2,557
Jun 19	997	1,234	420	2,651
Jun 26	1,001	1,289	431	2,721
Jul 03	1,013	1,349	434	2,796
Jul 10	1,032	1,411	443	2,886
Jul 17	1,043	1,467	442	2,952
Jul 24	1,059	1,523	441	3,023
Jul 31	1,068	1,579	442	3,089
Aug 07	1,073	1,635	444	3,152
Aug 14	1,074	1,681	449	3,204
Aug 21	1,079	1,724	455	3,258
Aug 28	1,086	1,776	461	3,323
Sep 04	1,099	1,831	462	3,392
Sep 11	1,110	1,876	472	3,458
Sep 18	1,126	1,917	482	3,525
Sep 25	1,145	1,955	489	3,589
Oct 02	1,169	1,992	497	3,658
Oct 09	1,182	2,030	504	3,716
Oct 16	1,187	2,041	506	3,734
Oct 23	1,188	2,058	513	3,759
Oct 30	1,189	2,085	514	3,788
Nov 06	1,199	2,093	521	3,813
Nov 13	1,208	2,101	524	3,833
Nov 20	1,211	2,099	525	3,835
Nov 27	1,219	2,092	526	3,837
Dec 04	1,195	2,061	517	3,773
Dec 11	1,120	1,968	478	3,566
Dec 18	1,067	1,869	464	3,400
Dec 25	1,044	1,779	453	3,276

^aIncludes Texas, Oklahoma, Kansas, New Mexico, Louisiana, Arkansas and Mississippi.

^bIncludes all states east of the Mississippi River—except Mississippi and Alabama—and Iowa, Nebraska and Missouri.

^cIncludes all states west of the Mississippi River—except Iowa, Nebraska, and Missouri—and Producing Region states.

Source: U.S. Department of Energy, Energy Information Administration, *Weekly Natural Gas Storage Report*

TABLE 4-5
CANADIAN UNDERGROUND NATURAL GAS STORAGE STATISTICS
2007

	TOTAL CANADA	Alberta	British Columbia	Ontario	Quebec	Saskatchewan
Number of Facilities						
Depleted Reservoir	44	5	1	32	2	4
Salt Cavern	8	1	0	0	0	7
TOTAL	52	6	1	32	2	11
Working Gas Capacity (Bcf)						
Depleted Reservoir	565.8	233.5	48.0	244.1	5.0	35.2
Salt Cavern	17.9	3.7	0.0	0.0	0.0	14.3
TOTAL	583.8	237.1	48.0	244.1	5.0	49.5
Maximum Deliverability (Bcf/d)						
Depleted Reservoir	4.6*	3.6	0.7	n.a.	0.1	0.2
Salt Cavern	1.1	0.6	0.0	0.0	0.0	0.5
TOTAL	5.7*	4.2	0.7	n.a.	0.1	0.7

*Does Not Include Ontario

n.a. – Not Available

Source: American Gas Association, 2007 *Survey of Underground Storage of Natural Gas in the United States and Canada*, January 2009

UNDERGROUND STORAGE

SECTION 5

DISTRIBUTION AND TRANSMISSION

MILES OF PIPELINE

	<u>2009</u>	<u>% Change</u> <u>2009/2008</u>
MILES OF PIPELINE (Thousands)	2,392.6	+ 0.0
Gathering	19.7	- 1.5
Transmission	297.2	- 0.6
Distribution	1,209.5	+ 0.3
Services	866.2	- 0.0

Source: Tables in the section are compiled from U.S. Department of Transportation data

TABLE 5-1
GAS INDUSTRY MILES OF PIPELINE AND MAIN BY TYPE
1990-2009^a
 (Thousands)

Year	TOTAL ^a	Gathering	Transmission Pipeline	Distribution Main
1990	1,189.2	32.4	292.2	864.6
1991	1,208.2	32.7	294.1	891.4
1992	1,216.1	32.6	291.5	892.0
1993	1,277.2	32.1	293.3	951.8
1994	1,288.4	31.3	301.5	955.6
1995	1,277.6	30.9	296.9	949.8
1996	1,323.6	29.6	292.2	1,001.8
1997	1,331.8	34.7	294.0	1,003.1
1998	1,351.2	29.0	300.1	1,022.1
1999	1,340.3	31.8	301.0	1,007.5
2000	1,369.3	27.1	296.6	1,045.6
2001	1,373.5	20.1	287.1	1,066.3
2002	1,411.4	22.3	309.5	1,079.6
2003	1,424.2	22.3	304.0	1,097.9
2004	1,462.3	23.7	298.9	1,139.8
2005	1,437.5	23.3	296.4	1,117.8
2006	1,534.3	19.9	300.4	1,214.0
2007	1,520.2	19.1	300.0	1,201.1
2008	1,525.0	20.0	299.0	1,206.0
2009	1,526.4	19.7	297.2	1,209.5
Steel	865.3	18.4	295.7	551.2
Plastic	622.9	1.2	1.1	620.6
Other	38.2	0.1	0.4	37.7

^a Excludes service pipe and underground storage.

Numbers may not add up to totals due to independent rounding.

DISTRIBUTION AND TRANSMISSION

TABLE 5-2
GAS INDUSTRY MILES OF MAIN BY STATE
1995-2009

Division and State	1995	2000	2005	2008	2009
UNITED STATES	949,802	1,045,641	1,117,784	1,205,980	1,209,499
New England	30,492	32,281	35,768	34,874	34,057
Connecticut	6,774	7,084	7,465	7,591	7,631
Maine	381	452	602	656	204
Massachusetts	18,625	19,650	20,792	21,027	21,067
New Hampshire	1,402	1,609	3,066	1,830	1,360
Rhode Island	2,932	3,024	3,095	3,124	3,129
Vermont	378	462	748	646	666
Middle Atlantic	112,611	117,877	125,092	127,440	127,865
New Jersey	28,505	30,486	32,301	33,086	33,247
New York	42,946	44,681	46,444	47,331	47,484
Pennsylvania	41,160	42,710	46,348	47,023	47,134
East North Central	198,377	221,379	226,084	248,584	249,599
Illinois	52,098	52,801	45,647	60,744	60,734
Indiana	32,537	34,988	38,003	39,586	39,562
Michigan	45,188	50,434	54,054	55,096	55,777
Ohio	43,122	50,897	54,775	56,207	56,480
Wisconsin	25,432	32,259	33,605	36,951	37,046
West North Central	93,054	103,804	111,339	114,524	93,323
Iowa	15,325	16,679	20,343	17,401	17,564
Kansas	18,830	20,570	18,435	21,937	29,381
Minnesota	21,113	24,986	28,039	29,269	26,683
Missouri	21,572	23,781	25,721	26,422	12,307
Nebraska	10,252	10,861	11,930	12,226	2,944
North Dakota	1,620	2,461	2,723	2,898	4,444
South Dakota	4,342	4,466	4,149	4,371	
					182,617
South Atlantic	105,932	124,090	137,647	163,802	2,781
Delaware	1,795	2,144	2,422	2,773	1,189
District of Columbia	1,194	1,202	1,188	1,192	24,583
Florida	5,445	7,202	22,479	25,017	42,880
Georgia	32,870	37,113	39,583	42,414	18,950
Maryland	10,480	12,116	13,531	14,179	14,182
North Carolina	17,272	21,426	11,602	27,906	27,541
South Carolina	13,292	15,978	18,010	19,884	20,132
Virginia	14,514	17,435	19,242	20,127	20,265
West Virginia	9,070	9,474	9,590	10,309	10,114
East South Central	72,948	83,517	88,192	96,746	96,458
Alabama	21,794	23,811	26,964	29,177	29,212
Kentucky	13,855	14,848	15,779	16,628	16,605
Mississippi	11,951	13,581	14,124	15,360	15,365
Tennessee	25,348	31,277	31,325	35,581	35,276
West South Central	143,422	148,195	163,086	161,401	165,745
Arkansas	16,048	16,374	18,980	19,558	19,633
Louisiana	22,646	24,185	24,425	25,278	24,772
Oklahoma	22,403	21,520	23,992	24,352	24,578
Texas	82,325	86,116	95,690	92,212	96,762
Mountain	76,035	91,457	105,467	116,158	116,795
Arizona	15,716	17,838	21,488	23,680	23,887
Colorado	21,634	25,566	31,561	33,754	34,266
Idaho	4,881	5,986	7,033	7,737	7,875
Montana	5,092	5,645	6,494	7,156	6,683
Nevada	5,166	8,837	8,476	9,548	9,647
New Mexico	10,674	11,612	12,513	13,594	13,271
Utah	9,233	12,250	14,204	15,968	16,338
Wyoming	3,639	3,723	3,697	4,721	4,828
Pacific	116,931	123,041	125,108	142,452	143,040
Alaska	2,027	2,550	2,732	2,929	2,888
California	87,573	90,164	99,052	102,443	102,660
Hawaii	613	597	609	610	613
Oregon	11,301	11,906	14,199	15,006	15,276
Washington	15,417	17,824	8,516	21,464	21,603

Data not adjusted to common diameter equivalent. Mileage shown is as of end of year.

DISTRIBUTION AND TRANSMISSION

TABLE 5-3
GAS INDUSTRY MILES OF PIPELINE AND MAIN BY STATE AND TYPE OF MAIN
2009^{a,b}

Division and State	TOTAL	Field and Gathering	Transmission	Distribution
UNITED STATES	1,526,436	19,722	297,215	1,209,499
New England	36,518	0	2,461	34,057
Connecticut	8,218	0	587	7,631
Maine	590	0	386	204
Massachusetts	22,179	0	1,112	21,067
New Hampshire	1,570	0	210	1,360
Rhode Island	3,224	0	95	3,129
Vermont	737	0	71	666
Middle Atlantic	144,450	1,014	15,571	127,865
New Jersey	34,702	0	1,455	33,247
New York	52,526	487	4,555	47,484
Pennsylvania	57,222	527	9,561	47,134
East North Central	287,449	1,589	36,261	249,599
Illinois	70,190	1	9,455	60,734
Indiana	45,074	12	5,500	39,562
Michigan	62,876	438	6,661	55,777
Ohio	67,744	1,138	10,126	56,480
Wisconsin	41,565	0	4,519	37,046
West North Central	121,273	2	27,948	93,323
Iowa	25,904	0	8,340	17,564
Kansas	34,915	0	5,534	29,381
Minnesota	31,020	0	4,337	26,683
Missouri	18,310	0	6,003	12,307
Nebraska	5,072	2	2,126	2,944
North Dakota	6,052	0	1,608	4,444
South Dakota				
	217,592	690	34,285	182,617
South Atlantic	3,081	0	300	2,781
Delaware	1,209	0	20	1,189
District of Columbia	29,620	0	5,037	24,583
Florida	42,880	0	0	42,880
Georgia	33,313	136	14,227	18,950
Maryland	15,130	0	948	14,182
North Carolina	31,527	0	3,986	27,541
South Carolina	22,864	0	2,732	20,132
Virginia	23,334	5	3,064	20,265
West Virginia	14,634	549	3,971	10,114
East South Central	127,153	1,223	29,472	96,458
Alabama	36,510	658	6,640	29,212
Kentucky	24,450	550	7,295	16,605
Mississippi	26,031	15	10,651	15,365
Tennessee	40,162	0	4,886	35,276
West South Central	275,513	13,545	96,223	165,745
Arkansas	27,985	652	7,700	19,633
Louisiana	58,585	4,655	29,158	24,772
Oklahoma	37,841	1,043	12,220	24,578
Texas	151,102	7,195	47,145	96,762
Mountain	155,937	1,251	37,891	116,795
Arizona	30,694	0	6,807	23,887
Colorado	42,757	640	7,851	34,266
Idaho	9,410	0	1,535	7,875
Montana	10,522	0	3,839	6,683
Nevada	11,366	0	1,719	9,647
New Mexico	20,090	450	6,369	13,271
Utah	19,437	5	3,094	16,338
Wyoming	11,661	156	6,677	4,828
Pacific	160,551	408	17,103	143,040
Alaska	3,796	93	815	2,888
California	114,918	315	11,943	102,660
Hawaii	635	0	22	613
Oregon	17,656	0	2,380	15,276
Washington	23,546	0	1,943	21,603

^a Includes field and gathering, transmission and distribution main but excludes service pipe and underground storage.

^b Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

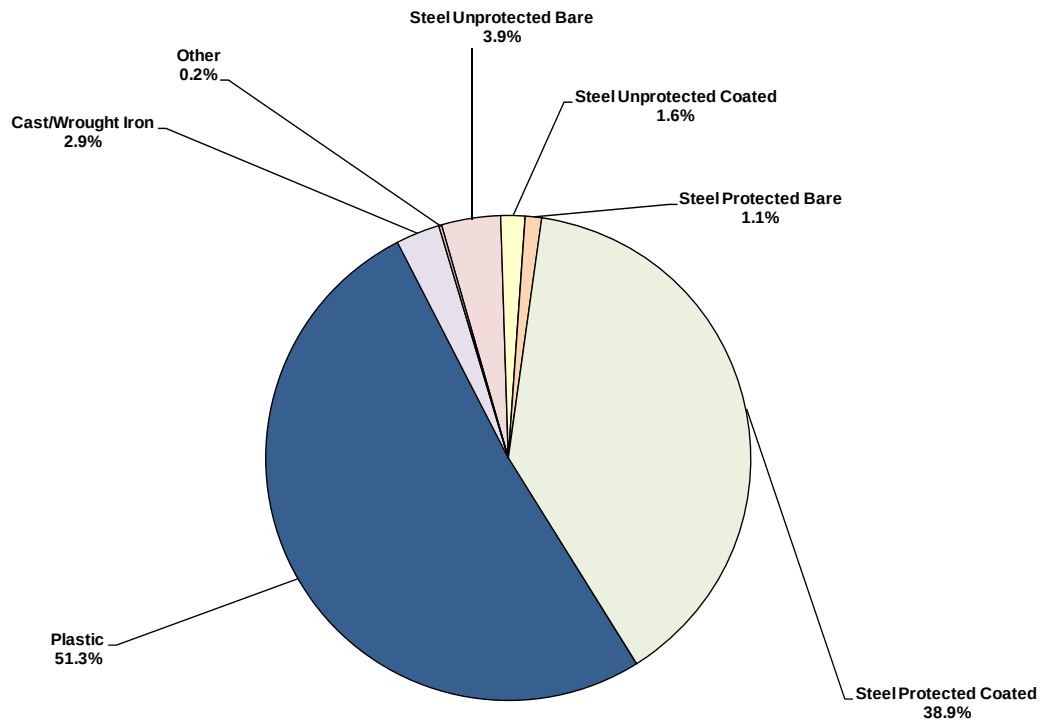
DISTRIBUTION AND TRANSMISSION

TABLE 5-4
MILES OF MAIN BY MATERIAL BY STATE
2009

Division and States	Steel Unprotected		Steel Cathodically Protected		Plastic	Cast Wrought Iron	Ductile Iron	Copper	Other	Total Miles of Main All Material
	Bare	Coated	Bare	Coated						
UNITED STATES	47,743	19,528	13,149	470,824	620,638	35,431	818	35	1,365	1,209,499
New England	2,565	1,651	189	10,303	12,661	6,660	31	0	0	34,057
Connecticut	214	63	0	3,243	2,533	1,566	12	0	0	7,631
Maine	0	1	0	33	171	0	0	0	0	204
Massachusetts	1,915	1,318	189	5,635	7,944	4,066	2	0	0	21,067
New Hampshire	13	18	0	650	536	143	0	0	0	1,360
Rhode Island	423	251	0	551	1,002	885	17	0	0	3,129
Vermont	0	0	0	191	475	0	0	0	0	666
Middle Atlantic	17,410	3,658	853	37,742	54,625	13,284	257	4	36	127,865
New Jersey	2,001	849	6	10,633	14,421	5,302	30	2	3	33,247
New York	7,230	1,444	433	13,855	19,735	4,738	32	0	18	47,484
Pennsylvania	8,179	1,365	414	13,254	20,469	3,244	195	2	15	47,134
East North Central	9,921	4,638	1,179	111,692	114,935	6,359	328	8	538	249,599
Illinois	175	37	191	39,447	18,659	1,927	298	0	0	60,734
Indiana	926	177	11	17,317	20,761	351	18	0	0	39,562
Michigan	674	1,840	664	20,954	28,412	3,207	4	2	20	55,777
Ohio	8,146	2,584	310	20,920	23,174	874	8	3	461	56,480
Wisconsin	0	0	3	13,054	23,929	0	0	3	57	37,046
West North Central	848	427	2,319	35,836	51,955	1,929	11	1	1	93,323
Iowa	85	146	112	7,759	9,442	22	0	0	0	17,564
Kansas	583	276	25	7,020	21,395	84	0	0	0	29,381
Minnesota	10	0	1,224	11,923	12,302	1,222	0	1	0	26,683
Missouri	160	3	916	6,229	4,409	578	10	0	1	12,307
Nebraska	0	0	9	1,161	1,775	0	0	0	0	2,944
North Dakota	10	2	33	1,744	2,632	23	1	0	0	4,444
South Dakota										
	5,832	2,016	3,524	65,474	102,240	3,182	141	16	197	182,617
South Atlantic	27	28	6	624	1,988	107	0	0	0	2,781
Delaware	30	79	0	305	345	430	0	0	0	1,189
District of Columbia	1,315	621	46	9,939	12,339	312	0	0	10	24,583
Florida	299	139	123	16,997	25,193	127	0	0	4	42,880
Georgia	529	1	2,970	6,218	8,934	141	5	0	156	18,950
Maryland	395	228	1	5,193	6,917	1,446	2	0	0	14,182
North Carolina	0	0	0	10,605	16,936	0	0	0	0	27,541
South Carolina	0	0	10	8,305	11,817	0	0	0	0	20,132
Virginia	435	619	50	5,841	12,565	605	134	16	1	20,265
West Virginia	2,802	301	318	1,447	5,206	14	0	0	26	10,114
East South Central	1,211	620	995	42,155	49,489	1,901	41	6	48	96,458
Alabama	348	534	341	12,538	13,855	1,549	7	0	46	29,212
Kentucky	768	79	116	7,638	7,883	111	0	6	2	16,605
Mississippi	0	6	449	8,049	6,802	57	3	0	0	15,365
Tennessee	95	1	89	13,930	20,949	184	31	0	0	35,276
West South Central	6,205	458	2,991	69,670	84,215	1,832	0	0	377	165,745
Arkansas	731	84	685	7,203	10,640	199	0	0	92	19,633
Louisiana	9	36	926	13,875	9,246	610	0	0	74	24,772
Oklahoma	1,138	21	562	9,059	13,755	0	0	0	44	24,578
Texas	4,327	317	818	39,533	50,574	1,023	0	0	167	96,762
Mountain	251	665	911	37,646	77,068	95	7	0	153	116,795
Arizona	0	0	557	7,067	16,264	0	0	0	0	23,887
Colorado	196	642	86	12,259	20,847	89	0	0	148	34,266
Idaho	0	0	0	2,840	5,035	0	0	0	0	7,875
Montana	12	0	2	2,301	4,367	0	0	0	0	6,683
Nevada	0	1	0	1,361	8,285	0	0	0	0	9,647
New Mexico	0	15	193	5,594	7,469	0	0	0	0	13,271
Utah	0	6	0	3,789	12,529	6	7	0	0	16,338
Wyoming	43	1	73	2,435	2,272	0	0	0	5	4,828
Pacific	3,500	5,395	188	60,306	73,450	189	2	0	15	143,040
Alaska	8	0	1	571	2,307	0	2	0	0	2,888
California	3,271	5,377	154	42,947	50,748	150	0	0	15	102,660
Hawaii	137	0	0	164	312	0	0	0	0	613
Oregon	28	0	4	7,945	7,300	0	0	0	0	15,276
Washington	56	18	29	8,679	12,783	39	0	0	0	21,603

Miles of Main by Material and Diameter are available by Company to AGA Members companies through the eGus Data System. (www.aga.org/eGus).

Chart 5 - 1
2009 U.S. Miles of Main By Material



DISTRIBUTION AND TRANSMISSION

TABLE 5-5
NUMBER OF SERVICES BY MATERIAL BY STATE
2009

Division and States	Steel Unprotected		Steel Cathodically Protected		Plastic	Cast Wrought Iron	Ductile Iron	Copper	Other	Total Miles of Main All Material
	Bare	Coated	Bare	Coated						
UNITED STATES	3,591,958	1,624,669	406,390	14,979,463	42,573,620	14,040	360	1,083,560	1,063,299	65,337,359
New England	331,806	91,841	0	272,298	1,108,953	2,238	0	13,725	123,234	1,944,095
Connecticut	67,053	10,698	0	66,077	256,686	36	0	1,381	7,544	409,475
Maine	0	0	0	2	3,167	0	0	0	0	3,169
Massachusetts	207,260	66,838	0	175,219	669,488	1,914	0	11,878	112,735	1,245,332
New Hampshire	7,377	1,959	0	14,602	40,192	120	0	289	1,550	66,089
Rhode Island	50,116	12,346	0	11,260	112,313	168	0	177	1,405	187,785
Vermont	0	0	0	5,138	27,107	0	0	0	0	32,245
Middle Atlantic	1,089,927	296,290	16,164	1,002,865	5,433,381	3,367	0	288,827	17,177	8,147,998
New Jersey	338,435	13,975	221	406,783	1,437,395	0	0	68,914	0	2,265,723
New York	392,645	173,560	13,169	319,957	2,022,624	3,364	0	195,188	10,223	3,130,730
Pennsylvania	358,847	108,755	2,774	276,125	1,973,362	3	0	24,725	6,954	2,751,545
East North Central	937,594	102,851	44,606	2,994,816	8,703,658	152	348	515,161	725,707	14,024,893
Illinois	18,137	1,010	13,260	855,128	1,980,469	101	348	91,273	707,195	3,666,921
Indiana	4,083	26,648	2,163	491,833	1,437,918	0	0	487	292	1,963,424
Michigan	51,305	9,087	19,097	727,620	2,067,670	14	0	320,458	12,427	3,207,678
Ohio	864,069	66,106	10,086	606,477	1,960,750	37	0	79,361	5,498	3,592,384
Wisconsin	0	0	0	313,758	1,256,851	0	0	23,582	295	1,594,486
West North Central	36,900	40,361	9,895	990,716	3,508,018	552	0	113,657	63,975	4,764,074
Iowa	1,727	11,471	5,956	291,910	584,754	544	0	414	26,335	923,111
Kansas	11,758	9,980	327	145,663	1,255,455	0	0	21,612	3,831	1,448,626
Minnesota	15,722	17,425	311	231,629	1,164,823	0	0	75,801	84	1,505,795
Missouri	6,958	231	1,262	229,379	267,782	8	0	15,735	31,710	553,065
Nebraska	0	0	80	43,353	99,765	0	0	4	0	143,202
North Dakota	735	1,254	1,959	48,782	135,439	0	0	91	2,015	190,275
South Dakota										
South Atlantic	413,191	73,589	51,721	1,637,260	6,338,035	638	12	100,226	14,099	8,628,771
Delaware	1,199	15,763	0	17,568	122,926	1	0	5,542	1,035	164,034
District of Columbia	7,387	197	0	19,526	83,699	0	0	11,785	0	122,594
Florida	41,000	15,618	13,450	208,276	548,209	0	0	224	5,375	832,152
Georgia	43,761	9,000	11,915	438,260	1,499,795	12	0	38	61	2,002,842
Maryland	115,893	6,532	19,241	75,419	679,357	0	0	315	171	896,928
North Carolina	101,480	686	2	162,218	667,478	0	0	53,492	0	985,356
South Carolina	0	0	0	283,819	1,024,374	0	0	0	232	1,308,425
Virginia	61	0	2,512	189,251	539,292	0	0	0	0	731,116
West Virginia	22,457	24,489	16	175,246	911,849	625	12	28,756	7,217	1,170,667
East South Central	78,191	7,032	122,532	1,208,085	2,266,228	6,393	0	13,039	5,519	3,707,019
Alabama	54,880	2,921	108,346	262,201	608,064	2,026	0	1,179	4,508	1,044,125
Kentucky	21,024	1,652	8,159	261,438	525,686	4,065	0	9,076	1,010	832,110
Mississippi	0	279	3,846	294,657	285,778	2	0	189	1	584,752
Tennessee	2,287	2,180	2,181	389,789	846,700	300	0	2,595	0	1,246,032
West South Central	635,667	111,693	78,048	2,580,801	4,215,568	700	0	8,888	102,698	7,734,063
Arkansas	19,038	28,923	18,464	232,808	375,333	0	0	0	896	675,462
Louisiana	6,015	51,066	22,654	607,741	395,487	614	0	2,204	937	1,086,718
Oklahoma	37,304	1,869	20,760	453,703	715,898	0	0	1	1,065	1,230,600
Texas	573,310	29,835	16,170	1,286,549	2,728,850	86	0	6,683	99,800	4,741,283
Mountain	23,279	446	80,350	1,388,436	4,199,672	0	0	2	559	5,692,744
Arizona	0	0	13,956	203,228	1,028,482	0	0	0	0	1,245,666
Colorado	19,929	0	1,795	521,548	953,967	0	0	0	0	1,497,239
Idaho	0	0	0	100,065	292,037	0	0	0	207	392,309
Montana	636	64	8	115,180	173,417	0	0	0	0	289,305
Nevada	0	0	19	42,325	680,123	0	0	2	352	722,821
New Mexico	0	382	63,893	182,830	358,319	0	0	0	0	605,424
Utah	14	0	0	145,423	623,282	0	0	0	0	768,719
Wyoming	2,700	0	679	77,837	90,045	0	0	0	0	171,261
Pacific	45,403	900,566	3,074	2,904,186	6,800,107	0	0	30,035	10,331	10,693,702
Alaska	37	0	155	14,530	97,886	0	0	2,098	0	114,706
California	17,271	900,190	834	2,318,413	5,306,178	0	0	27,849	1,340	8,572,075
Hawaii	8,259	0	0	5,939	18,888	0	0	46	2,860	35,992
Oregon	386	0	115	236,925	493,926	0	0	0	5,531	736,883
Washington	19,450	376	1,970	328,379	883,229	0	0	42	600	1,234,046

Number of Services by Material and Diameter are available by Company to AGA Members companies through the eGus Data System. (www.aga.org/eGus).

Chart 5 - 2
2009 U.S. Number of Services By Material

