

Natural Gas Movements and Storage

Figure 7. Principal Interstate Natural Gas Flow Summary, 2002



Source: Energy Information Administration, Office of Oil and Gas, Natural Gas Division

Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
(Million Cubic Feet)

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
Alabama	Florida	0	685,261	-685,261
	Georgia	0	1,525,646	-1,525,646
	Gulf of Mexico	136,922	0	136,922
	Mississippi	2,917,346	0	2,917,346
	Tennessee	1,564	840,588	-839,025
	Total	3,055,832	3,051,496	4,336
Alaska	Japan	0	63,439	-63,439
	Total	0	63,439	-63,439
Arizona	California	0	1,035,642	-1,035,642
	Mexico	0	11,257	-11,257
	Nevada	0	39,426	-39,426
	New Mexico	1,335,254	0	1,335,254
	Total	1,335,254	1,086,324	248,930
Arkansas	Louisiana	1,440,784	122,340	1,318,444
	Mississippi	0	1,447,596	-1,447,596
	Missouri	2,939	382,570	-379,630
	Oklahoma	346,450	4,143	342,307
	Texas	230,647	2,503	228,145
	Total	2,020,820	1,959,151	61,669
California	Arizona	1,035,642	0	1,035,642
	Mexico	0	35,305	-35,305
	Nevada	259,753	19,189	240,564
	Oregon	659,944	0	659,944
	Total	1,955,339	54,494	1,900,844
Colorado	Kansas	1,969	123,728	-121,759
	Nebraska	275,942	305,805	-29,863
	New Mexico	0	600,869	-600,869
	Oklahoma	0	113,443	-113,443
	Utah	86,145	16,519	69,626
	Wyoming	694,616	319,372	375,244
	Total	1,058,671	1,479,735	-421,064
Connecticut	Massachusetts	2,383	0	2,383
	New York	399,070	100,889	298,181
	Rhode Island	0	122,662	-122,662
	Total	401,453	223,550	177,902
Delaware	Maryland	0	3,058	-3,058
	Pennsylvania	55,660	0	55,660
	Total	55,660	3,058	52,602
District of Columbia	Maryland	2,452	0	2,452
	Virginia	31,195	0	31,195
	Total	33,647	0	33,647
Florida	Alabama	685,261	0	685,261
	Georgia	13,890	0	13,890

See footnotes at end of table.

**Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
(Continued)
(Million Cubic Feet)**

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
	Total	699,152	0	699,152
Georgia				
	Alabama	1,525,646	0	1,525,646
	Florida	0	13,890	-13,890
	North Carolina	0	69	-69
	South Carolina	0	1,118,507	-1,118,507
	Tennessee	6,530	11,837	-5,307
	Trinidad	16,837	0	16,837
	Total	1,549,014	1,144,303	404,710
Gulf of Mexico				
	Alabama	0	136,922	-136,922
	Louisiana	0	3,377,417	-3,377,417
	Texas	0	1,049,737	-1,049,737
	Total	0	4,564,077	-4,564,077
Idaho				
	Canada	759,647	176	759,471
	Nevada	0	40,097	-40,097
	Oregon	0	89,938	-89,938
	Utah	168,298	0	168,298
	Washington	8,076	732,652	-724,575
	Total	936,021	862,862	73,160
Illinois				
	Indiana	7,986	1,350,397	-1,342,412
	Iowa	1,612,428	18,330	1,594,098
	Kentucky	256,562	0	256,562
	Missouri	651,322	0	651,322
	Wisconsin	34,928	178,873	-143,945
	Total	2,563,225	1,547,601	1,015,624
Indiana				
	Illinois	1,350,397	7,986	1,342,412
	Kentucky	616,289	8,908	607,381
	Michigan	139,056	742,181	-603,124
	Ohio	0	857,200	-857,200
	Total	2,105,742	1,616,275	489,468
Iowa				
	Illinois	18,330	1,612,428	-1,594,098
	Minnesota	1,200,418	228,433	971,985
	Missouri	201,467	0	201,467
	Nebraska	638,417	0	638,417
	South Dakota	333	0	333
	Total	2,058,965	1,840,861	218,104
Kansas				
	Colorado	123,728	1,969	121,759
	Missouri	0	513,968	-513,968
	Nebraska	80,412	673,382	-592,970
	Oklahoma	901,782	10,911	890,870
	Total	1,105,922	1,200,230	-94,309
Kentucky				
	Illinois	0	256,562	-256,562
	Indiana	8,908	616,289	-607,381
	Ohio	13,173	1,009,263	-996,090
	Tennessee	2,621,650	1,460	2,620,190
	West Virginia	0	642,014	-642,014
	Total	2,643,731	2,525,588	118,143

See footnotes at end of table.

Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
 (Continued)
 (Million Cubic Feet)

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
Louisiana	Algeria	23,858	0	23,858
	Arkansas	122,340	1,440,784	-1,318,444
	Brunei	2,401	0	2,401
	Gulf of Mexico	3,377,417	0	3,377,417
	Malaysia	2,423	0	2,423
	Mississippi	3,570	3,705,704	-3,702,134
	Nigeria	8,123	0	8,123
	Oman	3,013	0	3,013
	Qatar	35,081	0	35,081
	Texas	1,538,943	1,722	1,537,221
	Trinidad	27,230	0	27,230
	Total	5,144,401	5,148,210	-3,809
Maine	Canada	143,980	0	143,980
	New Hampshire	47,453	93,048	-45,595
	Total	191,433	93,048	98,385
Maryland	Delaware	3,058	0	3,058
	District of Columbia	0	2,452	-2,452
	Pennsylvania	73,283	638,219	-564,936
	Virginia	820,240	42,218	778,022
	Total	896,581	682,889	213,692
Massachusetts	Algeria	2,726	0	2,726
	Connecticut	0	2,383	-2,383
	New Hampshire	83,419	22,318	61,100
	New York	185,849	0	185,849
	Rhode Island	75,321	44,371	30,950
	Trinidad	107,037	0	107,037
	Total	454,351	69,072	385,279
Michigan	Canada	30,463	697,131	-666,668
	Indiana	742,181	139,056	603,124
	Ohio	138,678	19,072	119,605
	Wisconsin	712,825	111,265	601,560
	Total	1,624,147	966,525	657,622
Minnesota	Canada	951,739	71	951,669
	Iowa	228,433	1,200,418	-971,985
	North Dakota	448,736	9,880	438,856
	South Dakota	828,492	0	828,492
	Wisconsin	0	847,779	-847,779
	Total	2,457,399	2,058,147	399,253
Mississippi	Alabama	0	2,917,346	-2,917,346
	Arkansas	1,447,596	0	1,447,596
	Louisiana	3,705,704	3,572	3,702,132
	Tennessee	0	2,049,703	-2,049,703
	Total	5,153,300	4,970,621	182,679
Missouri	Arkansas	382,570	2,939	379,630
	Illinois	0	651,322	-651,322
	Iowa	0	201,467	-201,467
	Kansas	513,968	0	513,968
	Nebraska	205,472	0	205,472
	Oklahoma	15,910	0	15,910

See footnotes at end of table.

**Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
(Continued)
(Million Cubic Feet)**

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
	Total	1,117,920	855,728	262,192
Montana	Canada	787,652	20,882	766,770
	North Dakota	14,609	804,253	-789,644
	South Dakota	0	20,485	-20,485
	Wyoming	43,793	468	43,325
	Total	846,054	846,087	-34
Nebraska	Colorado	305,805	275,942	29,863
	Iowa	0	638,417	-638,417
	Kansas	673,382	80,412	592,970
	Missouri	0	205,472	-205,472
	South Dakota	0	12,154	-12,154
	Wyoming	389,454	0	389,454
	Total	1,368,641	1,212,397	156,244
Nevada	Arizona	39,426	0	39,426
	California	19,189	259,753	-240,564
	Idaho	40,097	0	40,097
	Utah	341,853	0	341,853
	Total	440,565	259,753	180,811
New Hampshire	Canada	49,640	0	49,640
	Maine	93,048	47,453	45,595
	Massachusetts	22,318	83,419	-61,100
	Total	165,007	130,872	34,135
New Jersey	New York	0	762,037	-762,037
	Pennsylvania	1,332,510	0	1,332,510
	Total	1,332,510	762,037	570,473
New Mexico	Arizona	0	1,335,254	-1,335,254
	Colorado	600,869	0	600,869
	Texas	3,185	528,568	-525,383
	Total	604,054	1,863,822	-1,259,768
New York	Canada	787,619	40	787,580
	Connecticut	100,889	399,070	-298,181
	Massachusetts	0	185,849	-185,849
	New Jersey	762,037	0	762,037
	Pennsylvania	259,670	104,523	155,147
	Total	1,910,215	689,482	1,220,734
North Carolina	Georgia	69	0	69
	South Carolina	937,957	0	937,957
	Virginia	4,986	681,690	-676,704
	Total	943,012	681,690	261,322
North Dakota	Canada	453,645	0	453,645
	Minnesota	9,880	448,736	-438,856
	Montana	804,253	14,609	789,644
	South Dakota	12,000	850,671	-838,671
	Total	1,279,778	1,314,016	-34,238

See footnotes at end of table.

**Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
(Continued)
(Million Cubic Feet)**

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
Ohio	Indiana	857,200	0	857,200
	Kentucky	1,009,263	13,173	996,090
	Michigan	19,072	138,678	-119,605
	Pennsylvania	0	560,176	-560,176
	West Virginia	213,209	687,075	-473,866
	Total	2,098,745	1,399,102	699,643
Oklahoma	Arkansas	4,143	346,450	-342,307
	Colorado	113,443	0	113,443
	Kansas	10,911	901,782	-890,870
	Missouri	0	15,910	-15,910
	Texas	485,572	310,298	175,274
	Total	614,069	1,574,439	-960,370
Oregon	California	0	659,944	-659,944
	Idaho	89,938	0	89,938
	Washington	796,061	0	796,061
	Total	885,998	659,944	226,054
Pennsylvania	Delaware	0	55,660	-55,660
	Maryland	638,219	73,283	564,936
	New Jersey	0	1,332,510	-1,332,510
	New York	104,523	259,670	-155,147
	Ohio	560,176	0	560,176
	West Virginia	924,921	9,077	915,843
	Total	2,227,840	1,730,202	497,638
Rhode Island	Connecticut	122,662	0	122,662
	Massachusetts	44,371	75,321	-30,950
	Total	167,032	75,321	91,712
South Carolina	Georgia	1,118,507	0	1,118,507
	North Carolina	0	937,957	-937,957
	Total	1,118,507	937,957	180,550
South Dakota	Iowa	0	333	-333
	Minnesota	0	828,492	-828,492
	Montana	20,485	0	20,485
	Nebraska	12,154	0	12,154
	North Dakota	850,671	12,000	838,671
	Wyoming	0	156	-156
	Total	883,309	840,980	42,329
Tennessee	Alabama	840,588	1,564	839,025
	Georgia	11,837	6,530	5,307
	Kentucky	1,460	2,621,650	-2,620,190
	Mississippi	2,049,703	0	2,049,703
	Virginia	10,230	0	10,230
	Total	2,913,818	2,629,744	284,074
Texas	Arkansas	2,503	230,647	-228,145
	Gulf of Mexico	1,049,737	0	1,049,737
	Louisiana	1,722	1,538,944	-1,537,222
	Mexico	7,699	216,919	-209,220
	New Mexico	528,568	3,185	525,383

See footnotes at end of table.

**Table 12. Interstate Movements and Movements Across U.S. Borders of Natural Gas by State, 2002
(Continued)
(Million Cubic Feet)**

State	State or Country From/To	Volume		
		Receipts/ Imports From	Deliveries/ Exports To	Net ^a
	Oklahoma.....	310,298	485,572	-175,274
	Total	1,900,528	2,475,267	-574,739
Utah	Colorado	16,519	86,145	-69,626
	Idaho	0	168,298	-168,298
	Nevada.....	0	341,853	-341,853
	Wyoming.....	554,253	88,922	465,332
	Total	570,772	685,217	-114,445
Vermont	Canada	8,421	0	8,421
	Total	8,421	0	8,421
Virginia	District of Columbia.....	0	31,195	-31,195
	Maryland	42,218	820,240	-778,022
	North Carolina.....	681,690	4,986	676,704
	Tennessee	0	10,230	-10,230
	West Virginia.....	366,292	0	366,292
	Total	1,090,200	866,652	223,548
Washington	Canada	394,929	1,477	393,452
	Idaho	732,652	8,076	724,575
	Oregon	0	796,061	-796,061
	Total	1,127,581	805,614	321,966
West Virginia	Kentucky	642,014	0	642,014
	Ohio	687,075	213,209	473,866
	Pennsylvania.....	9,077	924,921	-915,843
	Virginia	0	366,292	-366,292
	Total	1,338,167	1,504,422	-166,255
Wisconsin	Illinois	178,873	34,928	143,945
	Michigan.....	111,265	712,825	-601,560
	Minnesota	847,779	0	847,779
	Total	1,137,917	747,753	390,164
Wyoming	Colorado	319,372	694,616	-375,244
	Montana	468	43,793	-43,325
	Nebraska.....	0	389,454	-389,454
	South Dakota	156	0	156
	Utah	88,922	554,253	-465,331
	Total	408,917	1,682,115	-1,273,198
Total Natural Gas Movements		67,999,635	64,442,166	3,557,469
Movements Across U.S. Borders		4,604,166	1,046,696	3,557,469
U.S. Interstate Movements		63,395,470	63,395,470	0

^a Positive numbers denote net receipts; negative numbers denote net deliveries.

Note: Totals may not equal sum of components due to independent rounding. Alliance Pipeline moves saturated natural gas from the Canadian border at Sherwood, ND to the Aux Sable processing plant in Illinois. EIA adjusted the Alliance import volumes to

remove volumes of natural gas liquids reported by Alliance. The import volumes of dry natural gas are comparable with other volumes of pipeline imports.

Source: : Energy Information Administration (EIA), Form EIA-176, "Annual Report of Natural and Supplemental Gas supply and Disposition"; Form EIA-895, "Monthly and Annual Quantity and Value of Natural Gas Production Report"; and the United States Minerals Management Service.

Figure 8. Interstate Movements of Natural Gas in the United States, 2002
(Million Cubic Feet)

Table 13. Additions to and Withdrawals from Gas Storage by State, 2002
(Million Cubic Feet)

State	Underground Storage			LNG Storage			Net Change in Storage
	Injections	Withdrawals	Net	Additions	Withdrawals	Net	
Alabama.....	3,785	3,631	154	871	573	298	451
Alaska.....	0	0	0	319	319	0	0
Arkansas.....	3,210	3,608	-397	85	81	4	-393
California.....	124,641	141,664	-17,023	40	37	4	-17,019
Colorado.....	37,980	39,121	-1,141	0	0	0	-1,141
Connecticut.....	0	0	0	438	256	182	182
Delaware.....	0	0	0	127	170	-43	-43
Georgia.....	0	0	0	3,426	1,029	2,397	2,397
Idaho.....	0	0	0	239	281	-42	-42
Illinois.....	246,574	265,603	-19,029	69	352	-283	-19,312
Indiana.....	20,425	22,264	-1,840	417	2,103	-1,686	-3,526
Iowa.....	66,202	70,453	-4,251	943	1,687	-743	-4,994
Kansas.....	93,675	108,827	-15,153	0	0	0	-15,153
Kentucky.....	49,577	59,022	-9,445	0	0	0	-9,445
Louisiana.....	282,824	342,782	-59,958	0	0	0	-59,958
Maine.....	0	0	0	23	17	6	6
Maryland.....	15,445	14,387	1,058	3,814	3,912	-98	960
Massachusetts.....	0	0	0	5,682	4,914	768	768
Michigan.....	312,348	412,237	-99,889	0	0	0	-99,889
Minnesota.....	1,218	1,121	98	1,142	1,302	-160	-63
Mississippi.....	72,418	75,551	-3,133	0	0	0	-3,133
Missouri.....	2,977	2,563	414	0	0	0	414
Montana.....	39,809	33,876	5,933	0	0	0	5,933
Nebraska.....	5,735	6,719	-984	187	217	-31	-1,015
Nevada.....	0	0	0	181	174	6	6
New Hampshire.....	0	0	0	29	0	29	29
New Jersey.....	0	0	0	6,373	4,778	1,596	1,596
New Mexico.....	12,032	19,847	-7,815	0	0	0	-7,815
New York.....	64,381	67,191	-2,810	713	822	-110	-2,920
North Carolina.....	0	0	0	4,026	4,860	-834	-834
Ohio.....	174,175	202,508	-28,333	0	0	0	-28,333
Oklahoma.....	110,539	146,841	-36,302	0	0	0	-36,302
Oregon.....	16,746	13,894	2,852	594	664	-70	2,782
Pennsylvania.....	318,381	375,219	-56,838	862	1,820	-958	-57,797
Rhode Island.....	0	0	0	0	301	-301	-301
South Carolina.....	0	0	0	605	488	117	117
Tennessee.....	63	194	-131	1,849	2,234	-385	-516
Texas.....	363,682	437,493	-73,811	0	0	0	-73,811
Utah.....	42,159	40,042	2,118	0	0	0	2,118
Virginia.....	3,012	2,980	32	7,692	8,235	-543	-511
Washington.....	25,378	25,016	362	1,094	1,076	18	380
West Virginia.....	140,907	184,205	-43,298	0	0	0	-43,298
Wisconsin.....	0	0	0	102	94	8	8
Wyoming.....	19,547	18,806	741	0	0	0	741
Total.....	2,669,844	3,137,666	-467,822	41,939	42,796	-857	-468,679

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

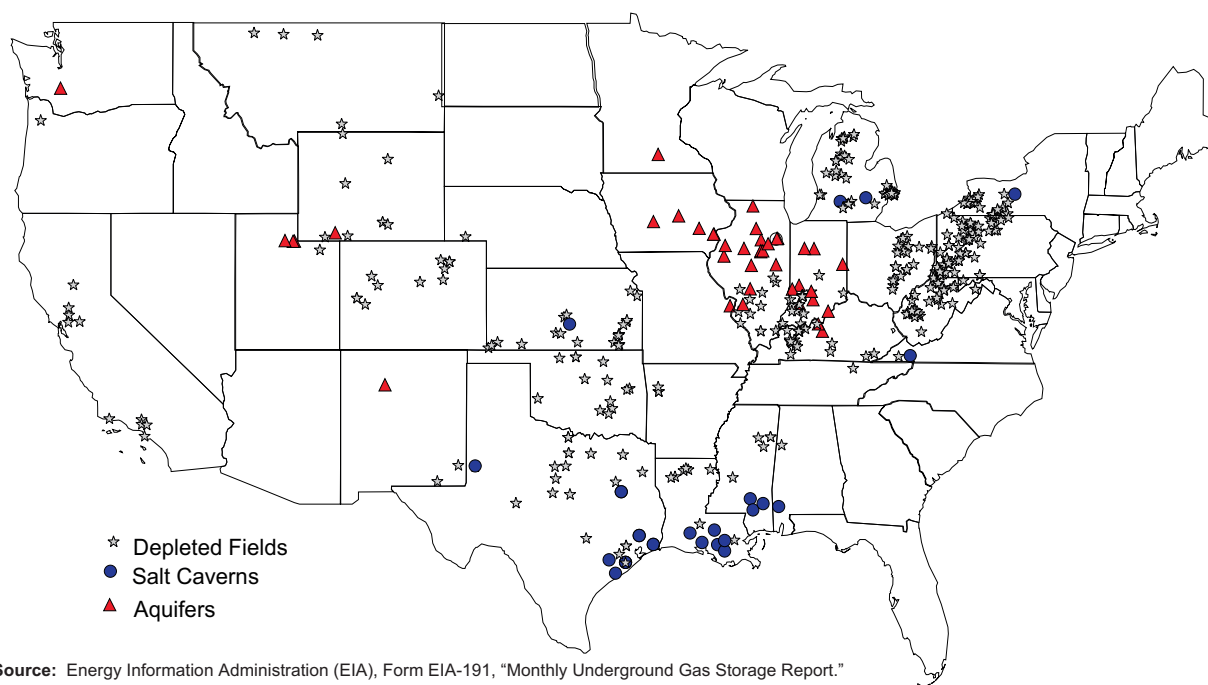
Table 14. Underground Natural Gas Storage Capacity by State, as of December 31, 2002
(Capacity in Billion Cubic Feet)

State	Salt Caverns		Aquifers		Depleted Fields		Total		
	Number of Active Fields	Capacity	Number of Active Fields	Capacity	Number of Active Fields	Capacity	Number of Active Fields	Capacity	Percent of U.S. Capacity
Alabama	1	7	0	0	1	2	2	9	0.10
Arkansas	0	0	0	0	2	22	2	22	0.27
California	0	0	0	0	10	479	10	479	5.84
Colorado	0	0	0	0	9	101	9	101	1.23
Illinois	0	0	17	791	13	155	30	945	11.52
Indiana	0	0	8	55	16	56	24	111	1.35
Iowa	0	0	4	273	0	0	4	273	3.33
Kansas	1	1	0	0	18	298	19	299	3.65
Kentucky	0	0	2	9	23	212	25	221	2.69
Louisiana	6	57	0	0	8	530	14	587	7.15
Maryland	0	0	0	0	1	62	1	62	0.76
Michigan	2	4	0	0	43	1,031	45	1,034	12.60
Minnesota	0	0	1	7	0	0	1	7	0.09
Mississippi	3	42	0	0	4	103	7	145	1.76
Missouri	0	0	1	32	0	0	1	32	0.39
Montana	0	0	0	0	5	374	5	374	4.56
Nebraska	0	0	0	0	1	39	1	39	0.48
New Mexico	0	0	1	5	2	85	3	90	1.09
New York	1	2	0	0	22	188	23	190	2.32
Ohio	0	0	0	0	24	574	24	574	6.99
Oklahoma	0	0	0	0	12	390	12	390	4.75
Oregon	0	0	0	0	5	24	5	24	0.29
Pennsylvania	0	0	0	0	57	714	57	714	8.70
Tennessee	0	0	0	0	1	1	1	1	0.02
Texas	14	112	0	0	21	587	35	699	8.52
Utah	0	0	2	12	1	118	3	129	1.58
Virginia	1	1	0	0	1	4	2	5	0.06
Washington	0	0	1	40	0	0	1	40	0.48
West Virginia	0	0	0	0	33	494	33	494	6.03
Wyoming	0	0	1	10	7	105	8	115	1.40
Total	29	226	38	1,234	340	6,747	407	8,207	100.00

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration (EIA), Form EIA-191, "Monthly Underground Gas Storage Report."

Figure 9. Locations of Existing Natural Gas Underground Storage Fields in the United States



Source: Energy Information Administration (EIA), Form EIA-191, "Monthly Underground Gas Storage Report."