

Table 12. Net withdrawals from underground storage, by state, 2016-2018
(million cubic feet)

State	2018						
	September	August	July	June	May	April	March
Alabama	3,736	3,070	2,879	1,165	-3,590	-2,801	-2,192
Alaska ^a	-1,536	-1,795	-1,862	-1,749	-856	25	1,020
Arkansas	-522	-931	-793	-838	-917	-193	776
California	-12,150	290	8,376	-18,473	-29,083	-18,639	10,696
Colorado	-4,713	-5,997	-2,338	-6,154	-6,557	127	4,370
Illinois	-42,720	-34,744	-28,754	-29,674	-20,284	7,769	31,354
Indiana	-3,720	-4,155	-2,826	-3,023	-1,240	542	3,497
Iowa	-19,504	-15,538	-1,673	-1,593	-2,828	1,387	6,081
Kansas	-13,872	-13,675	-12,141	-12,300	-12,254	-1,471	9,818
Kentucky	-9,599	-4,460	-2,846	-5,514	-10,612	3,827	312
Louisiana	-20,246	-4,409	7,158	-17,984	-42,445	7,969	7,193
Maryland	-652	-2,598	-2,904	-3,246	-1,661	654	1,983
Michigan	-65,317	-74,298	-76,375	-75,997	-75,307	15,716	77,908
Minnesota	-279	-269	-221	-162	6	112	175
Mississippi	9,728	11,902	13,724	-1,213	-15,259	-3,445	-2,922
Missouri	-244	25	24	25	-345	321	98
Montana	-2,451	-4,466	-4,171	-4,023	-4,084	-591	4,348
Nebraska	-1,400	-839	-633	-887	-2,061	-472	1
New Mexico	-488	1,475	3,751	93	-818	-258	1,785
New York	-14,541	-9,405	-6,908	-8,007	-12,164	-952	14,822
Ohio	-22,743	-25,825	-25,872	-25,869	-26,345	4,379	27,353
Oklahoma	-10,303	-13,480	-5,348	-13,098	-17,878	-6,196	5,470
Oregon	-2,316	431	-1,178	-2,824	-2,644	29	-261
Pennsylvania	-54,224	-28,602	-39,628	-46,334	-50,138	858	60,784
Tennessee	2	-58	-82	-75	-96	-44	-30
Texas	-12,209	28,939	26,147	-22,403	-37,196	-28,408	-15,104
Utah	-5,992	-3,631	-4,035	-6,954	-8,576	-1,893	3,257
Virginia	-176	214	74	-77	-607	-627	1,485
Washington	-2,437	-2,448	1,854	-5,671	-4,561	-2,546	2,206
West Virginia	-22,336	-28,124	-29,175	-33,562	-28,088	-6,014	28,590
Wyoming	-675	-1,874	-612	-2,225	-4,377	-936	136
Regions							
East Region	-114,671	-94,340	-104,413	-117,095	-119,003	-1,702	135,016
South Central Region	-43,688	11,415	31,626	-66,671	-129,540	-34,545	3,039
Midwest Region	-141,382	-133,497	-112,753	-116,013	-110,705	29,630	119,395
Mountain Region	-15,718	-15,332	-8,038	-20,150	-26,473	-4,022	13,898
Pacific Region	-16,903	-1,727	9,052	-26,969	-36,288	-21,156	12,640
Total Lower 48 States	-332,362	-233,482	-184,526	-346,898	-422,008	-31,796	283,988
U.S. Total	-333,898	-235,277	-186,388	-348,648	-422,865	-31,771	285,008

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2018			2017			
	February	January	Total	December	November	October	September
Alabama	885	7,522	3,570	2,448	-1,237	-3,630	-561
Alaska ^a	1,988	2,559	-3,585	1,309	1,622	-476	-1,624
Arkansas	616	951	-629	1,220	397	-251	-582
California	25,368	41,978	5,688	37,901	6,223	-4,453	-12,170
Colorado	9,346	9,686	-309	13,278	-4,315	-582	-6,013
Illinois	43,006	64,676	8,410	57,696	-333	-40,165	-41,306
Indiana	4,115	5,357	-69	4,827	-1,525	-2,472	-2,352
Iowa	9,545	19,932	329	20,539	6,240	-20,082	-19,446
Kansas	19,645	23,304	6,142	22,474	-872	-5,986	-5,422
Kentucky	8,578	23,235	15,130	15,659	3,170	-10,110	-8,402
Louisiana	16,429	95,750	26,198	57,784	-10,494	-13,491	-23,167
Maryland	2,961	4,492	-1,045	2,079	816	-533	-1,395
Michigan	107,038	161,641	47,361	121,334	39,265	-34,646	-52,348
Minnesota	290	238	248	298	-9	-232	-242
Mississippi	-12,144	37,691	21,817	29,161	-4,909	-11,495	-17,129
Missouri	-133	-15	248	864	-210	-217	-432
Montana	6,469	7,142	2,360	7,373	3,931	-812	-4,091
Nebraska	1,856	3,298	1,266	2,753	-232	-702	-1,206
New Mexico	3,846	4,077	11,752	4,715	1,939	235	241
New York	15,424	22,793	-3,120	15,467	5,738	-10,854	-13,746
Ohio	24,424	42,463	9,594	33,605	16,388	-3,490	-22,590
Oklahoma	31,221	37,977	23,004	27,244	3,272	-9,766	-4,340
Oregon	2,704	3,193	214	5,113	190	-705	-899
Pennsylvania	53,807	90,102	9,738	61,182	20,680	-31,295	-33,239
Tennessee	25	104	-45	68	5	-31	-42
Texas	36,004	106,822	65,344	84,716	-11,751	-30,361	-16,898
Utah	9,335	14,371	2,594	12,258	-177	-1,600	-4,342
Virginia	-193	-243	912	1,051	-144	-40	-761
Washington	6,762	2,896	1,133	4,053	-191	1,203	-3,610
West Virginia	33,907	58,248	-5,627	43,252	13,698	-11,598	-17,030
Wyoming	3,444	3,503	5,222	3,028	-1,194	1,188	-1,390
Regions							
East Region	130,329	217,855	10,452	156,637	57,175	-57,810	-88,761
South Central Region	92,655	310,017	145,446	225,046	-25,593	-74,980	-68,100
Midwest Region	172,464	275,168	71,612	221,285	46,603	-107,955	-124,569
Mountain Region	34,295	42,077	22,884	43,405	-48	-2,273	-16,801
Pacific Region	34,834	48,067	7,035	47,067	6,222	-3,956	-16,679
Total Lower 48 States	464,577	893,183	257,429	693,440	84,358	-246,975	-314,911
U.S. Total	466,564	895,742	253,844	694,748	85,980	-247,451	-316,535

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2017						
	August	July	June	May	April	March	February
Alabama	3,628	3,386	498	169	-1,292	1,420	-1,005
Alaska ^a	-2,476	-2,424	-2,108	-1,525	-1,076	1,572	1,409
Arkansas	-574	-647	-581	-595	-272	772	66
California	1,123	-6,826	-13,935	-23,446	-16,167	-17,258	4,300
Colorado	-2,922	-5,245	-5,660	-4,519	-1,374	1,199	4,859
Illinois	-34,888	-25,184	-32,389	-17,012	4,438	35,264	42,917
Indiana	-2,191	-2,486	-2,782	-1,664	-501	2,040	3,067
Iowa	-11,805	-1,696	-1,917	-1,579	1,288	5,165	8,052
Kansas	656	-2,088	-4,611	-14,016	-10,252	5,246	2,192
Kentucky	-1,317	5,583	1,693	-8,818	-12,511	5,772	7,787
Louisiana	3,696	1,075	-5,251	-19,393	-22,014	22,982	11,892
Maryland	-2,626	-2,873	-2,241	-3,128	-280	3,170	2,048
Michigan	-54,494	-38,760	-57,334	-55,198	-39,909	63,573	47,176
Minnesota	-244	-220	-190	-63	36	342	450
Mississippi	4,913	14,979	-476	-3,259	-8,395	6,585	1,802
Missouri	*	0	*	0	*	100	-20
Montana	-2,393	-3,558	-4,182	-4,160	-2,002	1,137	4,042
Nebraska	-564	-935	182	-1,017	-979	-287	1,408
New Mexico	2,883	1,623	68	-1,257	-1,704	-2,779	1,321
New York	-15,700	-8,367	-12,765	-7,272	-5,894	17,047	12,369
Ohio	-24,349	-26,059	-26,200	-18,721	-5,818	27,859	22,619
Oklahoma	1,626	1,039	-10,437	-13,581	-4,742	-5,893	3,193
Oregon	-702	-545	-1,472	-3,170	-336	-2,364	606
Pennsylvania	-47,206	-37,135	-46,732	-51,111	-33,170	70,898	54,306
Tennessee	11	8	-41	-32	-29	-5	14
Texas	19,068	18,244	-15,267	-37,200	-30,805	1,147	6,329
Utah	-1,449	-3,718	-5,162	-7,294	-2,628	-518	5,334
Virginia	-317	349	45	-513	-310	689	685
Washington	-2,225	329	-2,739	-5,577	-2,596	1,556	4,022
West Virginia	-24,959	-26,009	-26,523	-33,844	-30,240	27,775	29,958
Wyoming	172	-1,694	-2,290	-1,936	-632	234	1,737
Regions							
East Region	-115,156	-100,093	-114,416	-114,589	-75,713	147,438	121,986
South Central Region	33,012	35,989	-36,126	-87,874	-77,772	32,259	24,469
Midwest Region	-104,928	-62,755	-92,960	-84,366	-47,188	112,250	109,443
Mountain Region	-4,273	-13,527	-17,044	-20,183	-9,318	-1,014	18,701
Pacific Region	-1,804	-7,041	-18,145	-32,194	-19,099	-18,066	8,927
Total Lower 48 States	-193,148	-147,426	-278,691	-339,205	-229,091	272,867	283,526
U.S. Total	-195,625	-149,850	-280,799	-340,730	-230,167	274,439	284,935

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2017						2016
	January	Total	December	November	October	September	August
Alabama	-254	1,019	3,462	-2,161	-5,368	-597	2,250
Alaska ^a	2,213	-8,322	1,789	872	139	-1,321	-1,997
Arkansas	418	-1,666	739	-86	-152	-318	-564
California	50,395	39,603	43,736	1,937	-8,590	-3,383	4,248
Colorado	10,983	-4,606	11,693	-1,452	-7,324	-5,111	-3,745
Illinois	59,371	5,282	53,639	623	-37,807	-41,363	-33,535
Indiana	5,972	3,478	4,712	-1,533	-2,257	-2,199	-1,850
Iowa	15,571	6,414	22,217	5,150	-18,715	-18,041	-14,078
Kansas	18,823	8,377	21,467	876	-5,573	-8,157	-2,098
Kentucky	16,622	9,205	16,756	51	-4,545	-4,548	-128
Louisiana	22,579	39,572	42,587	-3,970	-51,370	-11,031	18,506
Maryland	3,915	2,916	2,604	893	133	-150	-1,397
Michigan	108,702	57,601	108,495	17,034	-27,683	-54,745	-36,754
Minnesota	321	38	44	14	-104	-197	-228
Mississippi	10,041	26,635	24,501	1,560	-24,918	-3,355	2,651
Missouri	163	-156	365	-210	-405	-290	*
Montana	7,075	-7,364	8,305	2,401	-782	-2,191	-3,465
Nebraska	2,844	785	2,171	721	-1,221	-1,132	-90
New Mexico	4,466	669	4,345	-1,195	-1,530	75	167
New York	20,857	19,233	20,132	4,697	-7,006	-12,209	-3,017
Ohio	36,350	17,390	41,276	14,460	-10,323	-22,602	-23,658
Oklahoma	35,389	11,957	30,817	-5,705	-11,783	-2,082	1,055
Oregon	4,500	1,381	5,032	406	-1,086	-266	-16
Pennsylvania	82,560	68,344	70,114	10,492	-16,859	-43,300	-18,752
Tennessee	31	-66	71	-14	-34	2	2
Texas	78,122	38,656	65,863	-17,919	-50,646	112	21,348
Utah	11,889	-1,208	12,286	-466	-1,542	-3,455	-2,871
Virginia	180	189	212	-211	-163	-185	-504
Washington	6,908	-2,216	3,465	448	-109	-3,266	-2,091
West Virginia	49,893	22,407	44,092	10,686	-7,057	-15,425	-22,388
Wyoming	8,000	-7,349	8,555	-3,105	-3,717	-1,656	-769
Regions							
East Region	193,754	130,479	178,429	41,017	-41,275	-93,871	-69,715
South Central Region	165,118	124,549	189,436	-27,405	-149,809	-25,428	43,149
Midwest Region	206,754	81,797	206,299	21,114	-91,550	-121,381	-86,571
Mountain Region	45,258	-19,074	47,355	-3,096	-16,117	-13,469	-10,773
Pacific Region	61,803	38,769	52,233	2,790	-9,785	-6,916	2,142
Total Lower 48 States	672,686	356,520	673,752	34,420	-308,536	-261,066	-121,769
U.S. Total	674,900	348,198	675,541	35,292	-308,397	-262,387	-123,765

See footnotes at end of table.

Table 12. Net withdrawals from underground storage, by state, 2016-2018

(million cubic feet) – continued

State	2016						
	July	June	May	April	March	February	January
Alabama	3,115	1,486	-1,536	-3,383	-323	-713	4,787
Alaska ^a	-1,976	-1,468	-1,957	-1,441	-451	-459	-50
Arkansas	-517	-724	-801	-444	438	328	434
California	769	-7,766	-16,700	-17,261	-4,805	7,203	40,217
Colorado	-4,892	-5,512	-5,498	1,334	3,688	2,412	9,800
Illinois	-28,440	-32,072	-26,284	4,551	26,092	50,274	69,604
Indiana	-1,850	-2,226	-2,905	527	1,694	5,259	6,106
Iowa	-1,925	-2,856	-2,349	2,150	4,762	10,674	19,427
Kansas	-7,378	-4,701	-13,272	-7,171	-4,070	11,913	26,541
Kentucky	-2,707	-2,776	-8,262	-16,117	2,150	9,656	19,675
Louisiana	16,049	-2,585	-11,540	-20,296	-14,011	21,175	56,058
Maryland	-1,133	-3,022	-1,671	716	-342	2,294	3,991
Michigan	-35,799	-52,688	-65,480	-13,874	30,025	80,654	108,415
Minnesota	-205	-174	-76	7	515	127	315
Mississippi	7,130	1,758	-7,184	-6,394	-12,187	6,944	36,129
Missouri	0	0	0	0	119	-168	433
Montana	-3,260	-4,908	-5,202	-3,943	-770	2,057	4,394
Nebraska	-151	-16	-1,099	-630	-103	549	1,788
New Mexico	659	-391	-1,615	-1,170	-1,658	1,413	1,568
New York	-3,467	-6,284	-11,257	-1,560	2,483	14,571	22,150
Ohio	-25,774	-26,258	-21,537	-5,040	17,603	32,160	47,082
Oklahoma	-3,398	-3,069	-15,348	-9,402	-5,923	10,070	26,725
Oregon	-887	-511	-2,228	-1,027	-362	481	1,845
Pennsylvania	-21,094	-36,463	-32,012	-5,601	11,919	62,426	87,473
Tennessee	3	-38	-27	-17	-32	-6	25
Texas	18,530	7,624	-29,546	-38,115	-19,445	24,128	56,721
Utah	-2,671	-4,887	-7,374	-814	-1,928	3,685	8,830
Virginia	73	-46	-242	-508	135	17	1,612
Washington	-788	-1,834	-4,392	-2,918	1,935	5,854	1,480
West Virginia	-29,308	-25,938	-27,301	-14,249	11,571	35,666	62,059
Wyoming	-1,773	-3,980	-3,858	-2,386	-139	2,448	3,031
Regions							
East Region	-80,704	-98,011	-94,019	-26,242	43,370	147,134	224,367
South Central Region	33,529	-212	-79,227	-85,205	-55,521	73,846	207,396
Midwest Region	-70,923	-92,831	-105,382	-22,774	65,327	156,470	224,000
Mountain Region	-12,088	-19,694	-24,646	-7,610	-910	12,562	29,411
Pacific Region	-906	-10,112	-23,319	-21,206	-3,232	13,538	43,542
Total Lower 48 States	-131,091	-220,859	-326,593	-163,038	49,034	403,550	728,716
U.S. Total	-133,067	-222,328	-328,551	-164,479	48,583	403,091	728,666

^a Alaska data are not included in the regions' totals or the lower 48 states total.^{*} Volume is less than 500 Mcf.

Notes: This table contains total net withdrawals for each of the states with natural gas storage facilities. Positive numbers indicate the volume of withdrawals in excess of injections. Negative values indicate the volume of injections in excess of withdrawals. EIA publishes weekly estimates of working gas in underground storage by geographical region; in November 2015, region breakouts were revised from three regions to five. See Explanatory Note 5 in Appendix A for a list of the new regions shown in this table and the states included in each.

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