

5. Natural Gas Liquids Statistics

Natural Gas Liquids

Proved Reserves

U.S. natural gas liquids proved reserves increased 5 percent to 7,906 million barrels in 1999 (Table 13). Reserve additions replaced 143 percent of 1999 natural gas liquids production.

The reserves of six areas account for 81 percent of the Nation's natural gas liquids proved reserves.

Area	Percent of U.S. NGL Reserves
Texas	33
Gulf of Mexico Federal Offshore	13
New Mexico	12
Oklahoma	9
Utah-Wyoming	8
Louisiana	6
Area Total	81

The volumes of natural gas liquids proved reserves and production shown in Table 13 are the sum of the natural gas plant liquid volumes listed in Table 14 and the lease condensate volumes listed in Table 15.

Discoveries

Total discoveries of natural gas liquids reserves were 452 million barrels in 1999, a decrease of 16 percent from 1998. Areas with the largest total discoveries were:

- Texas (31 percent)
- Gulf of Mexico Federal Offshore (23 percent)
- Louisiana (9 percent)
- Oklahoma (9 percent)
- Utah and Wyoming (9 percent)
- New Mexico (9 percent).

New field discoveries in 1999 (51 million barrels) were 23 percent lower than in 1998. Areas with the largest new field discoveries were the Gulf of Mexico Federal Offshore (67 percent of 1999 new field discoveries) and Colorado (16 percent).

New reservoir discoveries in old fields (88 million barrels) were the same as they were in 1998. Areas with the

largest new reservoir discoveries in old fields were the Gulf of Mexico Federal Offshore (49 percent of 1999 new reservoir discoveries in old fields), Louisiana (25 percent), and Texas (14 percent).

Extensions were 313 million barrels, a decrease of 18 percent from 1998 to 1999. Areas with the largest extensions were Texas (40 percent of 1999 extensions), Oklahoma (13 percent), and New Mexico (12 percent).

Production

Natural gas liquids production was an estimated 896 million barrels in 1999. Alaska production decreased 13 percent to 21 million barrels in 1999, while lower 48 States production increased 5 percent to 848 million barrels in 1999.

Six areas accounted for about 86 percent of the Nation's natural gas liquids production.

- Texas (33 percent)
- Gulf of Mexico Federal Offshore (19 percent)
- New Mexico (9 percent)
- Oklahoma (9 percent)
- Louisiana (9 percent)
- Utah-Wyoming (7 percent).

Natural Gas Plant Liquids

Proved Reserves

Natural gas plant liquids proved reserves increased 5 percent in 1999 to 6,503 million barrels (Table 14). Six areas accounted for about 79 percent of the Nation's natural gas plant liquids proved reserves:

Area	Percent of U.S. Gas Plant Liquids
Texas	35
New Mexico	14
Oklahoma	10
Utah-Wyoming	8
Gulf of Mexico Federal Offshore	7
Kansas	5
Area Total	79

Table 13. Natural Gas Liquids Proved Reserves, Reserves Changes, and Production, 1999
(Million Barrels of 42 U.S. Gallons)

State and Subdivision	Published Proved Reserves 12/31/98	Changes in Reserves During 1999						Estimated Production (-)	Proved Reserves 12/31/99
		Adjustments (+,-)	Revision Increases (+)	Revision Decreases (-)	Extensions (+)	New Field Discoveries (+)	New Reservoir Discoveries in Old Fields (+)		
Alaska	320	0	0	0	0	0	0	21	299
Lower 48 States	7,204	102	1,902	1,285	304	50	86	848	7,515
Alabama	81	31	9	2	0	0	0	12	107
Arkansas	5	-2	3	1	0	0	0	0	5
California	72	14	25	12	7	0	0	8	98
Coastal Region Onshore	9	7	11	2	7	0	0	1	31
Los Angeles Basin Onshore	5	1	2	1	0	0	0	0	7
San Joaquin Basin Onshore	58	6	12	9	0	0	0	7	60
State Offshore	0	0	0	0	0	0	0	0	0
Colorado	260	18	71	43	10	8	1	22	303
Florida	18	-1	0	0	0	0	0	1	16
Kansas	334	55	28	30	1	0	0	30	358
Kentucky	54	8	11	3	1	0	1	3	69
Louisiana	411	83	134	135	17	3	22	78	457
North	57	5	24	21	5	0	0	9	61
South Onshore	325	53	103	87	11	2	20	63	364
State Offshore	29	25	7	27	1	1	2	6	32
Michigan	51	-2	14	11	0	0	0	4	48
Mississippi	8	-1	4	1	1	0	0	1	10
Montana	5	3	1	1	0	0	0	0	8
New Mexico	929	-1	129	62	37	0	3	81	954
East	262	-26	85	35	10	0	0	41	255
West	667	25	44	27	27	0	3	40	699
North Dakota	48	7	6	4	0	0	0	4	53
Oklahoma	698	44	186	142	40	0	2	79	749
Texas	2,544	-137	794	464	126	4	12	295	2,584
RRC District 1	38	120	46	23	3	0	1	18	167
RRC District 2 Onshore	85	-13	24	15	5	1	1	12	76
RRC District 3 Onshore	246	-5	53	49	22	2	2	45	226
RRC District 4 Onshore	363	21	178	125	32	0	7	54	422
RRC District 5	35	-9	8	3	4	0	0	3	32
RRC District 6	276	-46	62	60	14	0	0	23	223
RRC District 7B	51	-7	15	17	0	0	0	6	36
RRC District 7C	282	37	63	54	7	1	1	32	305
RRC District 8	491	-38	119	47	21	0	0	51	495
RRC District 8A	226	-60	84	17	8	0	0	18	223
RRC District 9	93	8	81	10	0	0	0	14	158
RRC District 10	354	-146	61	43	10	0	0	19	217
State Offshore	4	1	0	1	0	0	0	0	4
Utah and Wyoming	675	-101	172	112	38	1	1	59	615
West Virginia	72	0	9	6	1	0	1	4	73
Federal Offshore ^a	931	82	304	254	25	34	43	167	998
Pacific (California)	12	-8	0	0	0	0	0	0	4
Gulf of Mexico (Louisiana) ^a	776	87	253	234	17	34	36	136	833
Gulf of Mexico (Texas)	143	3	51	20	8	0	7	31	161
Miscellaneous ^b	8	2	2	2	0	0	0	0	10
U.S. Total	7,524	99	2,048	1,321	313	51	88	896	7,906

^aIncludes Federal offshore Alabama.

^bIncludes Arizona, Illinois, Indiana, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, and Virginia.

Note: The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." They may differ from the official Energy Information Administration production data for natural gas and natural gas liquids for 1999 contained in the publications *Petroleum Supply Annual 1999*, DOE/EIA-0340(99) and *Natural Gas Annual 1999* DOE/EIA-0131(99).

Source: Energy Information Administration, Office of Oil and Gas.

Table 14. Natural Gas Plant Liquids Proved Reserves and Production, 1999
(Million Barrels of 42 U.S. Gallons)

State and Subdivision	1999 Reserves	1999 Production	State and Subdivision	1999 Reserves	1999 Production
Alaska	299	21	North Dakota	46	4
Lower 48 States	6,112	649	Oklahoma	667	70
Alabama	57	8	Texas	2,257	254
Arkansas	3	0	RRC District 1	161	17
California	97	8	RRC District 2 Onshore	64	10
Coastal Region Onshore	31	1	RRC District 3 Onshore	152	31
Los Angeles Basin Onshore	7	0	RRC District 4 Onshore	300	42
San Joaquin Basin Onshore	59	7	RRC District 5	24	2
State Offshore	0	0	RRC District 6	182	18
Colorado	277	19	RRC District 7B	34	5
Florida	16	1	RRC District 7C	291	30
Kansas	355	30	RRC District 8	479	49
Kentucky	69	3	RRC District 8A	222	18
Louisiana	281	45	RRC District 9	156	14
North	36	4	RRC District 10	191	18
South Onshore	222	37	State Offshore	1	0
State Offshore	23	4	Utah and Wyoming	531	45
Michigan	42	4	West Virginia	72	4
Mississippi	3	0	Federal Offshore ^a	427	80
Montana	8	0	Pacific (California)	0	0
New Mexico	896	74	Gulf of Mexico (Louisiana) ^a	403	75
East	230	37	Gulf of Mexico (Texas)	24	5
West	666	37	Miscellaneous ^b	8	0
			U.S. Total	6,503	697

^aIncludes Federal Offshore Alabama.

^bIncludes Arizona, Illinois, Indiana, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, and Virginia.

Note: The production estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves," and Form EIA-64A, "Annual Report of the Origin of Natural Gas Liquids Production." They may differ from the official Energy Information Administration production data for natural gas plant liquids for 1999 contained in the publications *Petroleum Supply Annual 1999*, DOE/EIA-0340(99) and *Natural Gas Annual 1999*, DOE/EIA-0131(99).

Source: Energy Information Administration, Office of Oil and Gas.

Table 15. Lease Condensate Proved Reserves and Production, 1999
(Million Barrels of 42 U.S. Gallons)

State and Subdivision	1999 Reserves	1999 Production	State and Subdivision	1999 Reserves	1999 Production
Alaska	0	0	North Dakota	7	0
Lower 48 States	1,403	199	Oklahoma	82	9
Alabama	50	4	Texas	327	41
Arkansas	2	0	RRC District 1	6	1
California	1	0	RRC District 2 Onshore	12	2
Coastal Region Onshore	0	0	RRC District 3 Onshore	74	14
Los Angeles Basin Onshore	0	0	RRC District 4 Onshore	122	12
San Joaquin Basin Onshore	1	0	RRC District 5	8	1
State Offshore	0	0	RRC District 6	41	5
Colorado	26	3	RRC District 7B	2	1
Florida	0	0	RRC District 7C	14	2
Kansas	3	0	RRC District 8	16	2
Kentucky	0	0	RRC District 8A	1	0
Louisiana	176	33	RRC District 9	2	0
North	25	5	RRC District 10	26	1
South Onshore	142	26	State Offshore	3	0
State Offshore	9	2	Utah and Wyoming	84	14
Michigan	6	0	West Virginia	1	0
Mississippi	7	1	Federal Offshore ^a	571	87
Montana	0	0	Pacific (California)	4	0
New Mexico	58	7	Gulf of Mexico (Louisiana) ^a	430	61
East	25	4	Gulf of Mexico (Texas)	137	26
West	33	3	Miscellaneous ^b	2	0
			U.S. Total	1,403	199

^aIncludes Federal Offshore Alabama.

^bIncludes Arizona, Illinois, Indiana, Maryland, Missouri, Nebraska, Nevada, New York, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, and Virginia.

Note: The estimates in this table are based on data reported on Form EIA-23, "Annual Survey of Domestic Oil and Gas Reserves" 1999.

Source: Energy Information Administration, Office of Oil and Gas.

Production

Natural gas plant liquids production increased 6 percent in 1999—from 655 million barrels in 1998 to 697 million barrels of production (**Table 14**). The top six areas for proved reserves of natural gas plant liquids accounted for about 80 percent of the Nation's natural gas plant liquids production:

- Texas (36 percent)
- New Mexico (11 percent)
- Gulf of Mexico Federal Offshore (11 percent)
- Oklahoma (10 percent)
- Utah and Wyoming (6 percent)
- Louisiana (6 percent).

Natural gas processing plants are usually located in the same general area where the natural gas is produced. Table E4 in Appendix E lists the volumes of natural gas produced and processed in the same State, and the volumes of liquids extracted.

Lease Condensate

Proved Reserves

Proved reserves of lease condensate in the United States were 1,403 million barrels in 1999 (**Table 15**). This was 5 percent more than the volume reported in 1998. The reserves of five areas account for about 88 percent of the Nation's lease condensate proved reserves.

Area	Percent of U.S. Condensate Reserves
Gulf of Mexico Federal Offshore	40
Texas	23
Louisiana	13
Oklahoma	6
Utah-Wyoming	6
Area Total	88

Production

Production of lease condensate was 199 million barrels, an increase of 12 percent in 1999. The production of five areas account for about 93 percent of the Nation's lease condensate production.

- Gulf of Mexico Federal Offshore (44 percent)
- Texas (21 percent)
- Louisiana (17 percent)
- Utah-Wyoming (7 percent)
- Oklahoma (5 percent).

Reserves in Nonproducing Reservoirs

Like crude oil and natural gas, not all lease condensate proved reserves were contained in reservoirs that were producing during 1999. Proved reserves of 418 million barrels of lease condensate, a decrease of 21 percent from 1998, were reported in nonproducing reservoirs in 1999 (**Appendix D, Table D10**). About 55 percent of the nonproducing lease condensate reserves were located in the Gulf of Mexico Federal Offshore.