

5. Natural Gas Liquids Statistics

Natural Gas Liquids

Proved Reserves

U.S. natural gas liquids proved reserves increased 5.6 percent to 8,345 million barrels in 2000 (**Table 13**). Reserve additions replaced 148 percent of 2000 natural gas liquids production.

The reserves of six areas account for 83 percent of the Nation's natural gas liquids proved reserves.

Area	Percent of U.S. NGL Reserves
Texas	34
Gulf of Mexico Federal Offshore	13
Utah - Wyoming	11
New Mexico	11
Oklahoma	9
Louisiana	5
Area Total	83

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 839 million barrels in 2000, an increase of 86 percent from 1999 (452 million barrels). Areas with the largest *total discoveries* were:

- Texas (31 percent)
- Gulf of Mexico Federal Offshore (22 percent)
- Utah & Wyoming (16 percent)
- New Mexico (15 percent)
- Louisiana (7 percent)
- Oklahoma (7 percent).

New field discoveries in 2000 (92 million barrels) were 80 percent higher than in 1999. Areas with the largest *new field discoveries* were the Gulf of Mexico Federal Offshore (77 percent of 2000 new field discoveries) and Texas (18 percent).

New reservoir discoveries in old fields (102 million barrels) were 16 percent higher than they were in 1999. Areas with the largest *new reservoir discoveries in old fields* were the Gulf of Mexico Federal Offshore (36 percent of 2000 new reservoir discoveries in old fields), Texas (36 percent), and Louisiana (21 percent).

Extensions were 645 million barrels in 2000, more than twice the 1999 volume of extensions (313 million). Areas with the largest *extensions* were Texas (31 percent), Utah & Wyoming (20 percent), and New Mexico (19 percent).

Revisions and Adjustments

In 2000, there were 1,183 million barrels of *revision increases*, 724 million barrels of *revision decreases* and -83 million barrels of *adjustments*. This added a net volume of 376 million barrels of natural gas liquids proved reserves.

Sales and Acquisitions

There were 1,051 million barrels of *acquisitions*, and 906 million barrels of *sales* in 2000. The net of these transactions added 145 million barrels of natural gas liquids proved reserves.

Production

Natural gas liquids production was an estimated 921 million barrels in 2000, an increase of 3 percent from 1999. Alaska production increased 5 percent to 22 million barrels in 2000, while lower 48 States production increased 6 percent to 899 million barrels in 2000.

Six areas accounted for about 88 percent of the Nation's natural gas liquids production.

- Texas (34 percent)
- Gulf of Mexico Federal Offshore (22 percent)
- New Mexico (9 percent)
- Oklahoma (8 percent)
- Louisiana (8 percent)
- Utah-Wyoming (7 percent).

Table 13. Natural Gas Liquids Proved Reserves, Reserves Changes, and Production, Wet After Lease Separation, 2000 (Million Barrels of 42 U.S. Gallons)

State and Subdivision	Published Proved Reserves 12/31/99	Changes in Reserves During 2000							New Reservoir Discoveries in Old Fields (+)	Estimated Production (-)	Proved Reserves 12/31/00
		Adjustments (+,-)	Revision Increases (+)	Revision Decreases (-)	Sales (-)	Acquisitions (+)	Extensions (+)	New Field Discoveries (+)			
Alaska	299	0	0	0	0	0	0	0	0	22	277
Lower 48 States	7,515	9	1,183	724	906	1,051	645	92	102	899	8,068
Alabama	107	39	7	1	11	16	8	0	0	15	150
Arkansas	5	0	1	0	1	1	0	0	0	1	5
California	98	-14	22	5	1	6	3	0	0	8	101
Coastal Region Onshore	31	-6	2	2	0	3	0	0	0	1	27
Los Angeles Basin Onshore	7	1	3	1	0	0	0	0	0	0	10
San Joaquin Basin Onshore	60	-9	17	2	1	3	3	0	0	7	64
State Offshore	0	0	0	0	0	0	0	0	0	0	0
Colorado	303	-31	55	11	29	45	8	0	0	24	316
Florida	16	-4	0	0	0	0	0	0	0	1	11
Kansas	358	-21	16	21	12	10	4	0	0	28	306
Kentucky	69	-24	12	2	14	16	0	0	1	2	56
Louisiana	457	-44	102	66	29	31	34	2	21	72	436
North	61	-3	16	9	2	3	4	0	0	9	61
South Onshore	364	-46	80	49	22	21	26	1	18	56	337
State Offshore	32	5	6	8	5	7	4	1	3	7	38
Michigan	48	-14	5	3	7	8	2	0	0	4	35
Mississippi	10	-1	2	1	2	1	1	0	0	2	8
Montana	8	-4	1	1	0	0	0	0	0	0	4
New Mexico	954	-192	122	60	45	74	125	1	1	84	896
East	255	14	63	34	35	54	57	1	1	43	333
West	699	-206	59	26	10	20	68	0	0	41	563
North Dakota	53	1	6	2	1	1	0	0	1	5	54
Oklahoma	749	-59	139	77	65	69	52	1	2	77	734
Texas	2,584	76	425	258	450	494	203	17	37	309	2,819
Texas RRC District 1	167	-113	7	3	8	6	2	2	0	5	55
Texas RRC District 2 Onshore	76	-3	18	18	10	13	6	1	2	13	72
Texas RRC District 3 Onshore	226	-17	34	26	11	20	21	5	4	47	209
Texas RRC District 4 Onshore	422	-2	48	52	69	55	41	4	14	55	406
Texas RRC District 5	32	3	5	4	1	9	9	0	0	4	49
Texas RRC District 6	223	35	47	20	14	23	15	0	1	27	283
Texas RRC District 7B	36	-8	9	2	4	8	0	1	0	6	34
Texas RRC District 7C	305	17	62	21	41	120	27	0	0	35	434
Texas RRC District 8	495	12	87	57	93	103	17	0	15	53	526
Texas RRC District 8A	223	48	39	9	184	117	0	0	0	17	217
Texas RRC District 9	158	-52	15	2	1	9	48	0	0	14	161
Texas RRC District 10	217	157	53	43	14	11	17	4	0	33	369
State Offshore	4	-1	1	1	0	0	0	0	1	0	4
Utah and Wyoming	615	203	77	49	114	146	130	0	1	62	947
West Virginia	73	30	24	14	32	29	0	0	1	6	105
Federal Offshore ^a	998	70	166	152	91	103	75	71	37	199	1,078
Pacific (California)	4	0	0	0	0	0	0	0	0	0	4
Gulf of Mexico (Louisiana) ^a	833	68	151	131	87	92	61	67	31	164	921
Gulf of Mexico (Texas)	161	2	15	21	4	11	14	4	6	35	153
Miscellaneous ^b	10	0	0	1	2	1	0	0	0	0	7
U.S. Total	7,906	-83	1,183	724	906	1,051	645	92	102	921	8,345

^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 2000 contained in the publications *Petroleum Supply Annual 2000*, DOE/EIA-0340(00) and *Natural Gas Annual 2000* DOE/EIA-0131(00).

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

Table 14. Natural Gas Plant Liquids Proved Reserves and Production, 2000
(Million Barrels of 42 U.S. Gallons)

State and Subdivision	2000 Reserves	2000 Production	State and Subdivision	2000 Reserves	2000 Production
Alaska	277	22	North Dakota	47	5
Lower 48 States	6,596	688	Oklahoma	639	69
Alabama	104	10	Texas	2,479	268
Arkansas	3	0	RRC District 1	49	4
California	100	8	RRC District 2 Onshore	59	11
Coastal Region Onshore	27	1	RRC District 3 Onshore	140	32
Los Angeles Basin Onshore	10	0	RRC District 4 Onshore	316	42
San Joaquin Basin Onshore	63	7	RRC District 5	24	4
State Offshore	0	0	RRC District 6	182	22
Colorado	288	21	RRC District 7B	34	6
Florida	11	1	RRC District 7C	291	33
Kansas	303	28	RRC District 8	479	51
Kentucky	56	2	RRC District 8A	222	17
Louisiana	241	41	RRC District 9	156	14
North	35	4	RRC District 10	191	32
South Onshore	178	32	State Offshore	1	0
State Offshore	28	5	Utah and Wyoming	858	55
Michigan	32	4	West Virginia	104	6
Mississippi	2	0	Federal Offshore ^a	515	93
Montana	3	0	Pacific (California)	1	0
New Mexico	804	77	Gulf of Mexico (Louisiana) ^a	487	88
East	302	38	Gulf of Mexico (Texas)	27	5
West	502	39	Miscellaneous ^b	7	0
			U.S. Total	6,873	710

^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 2000 contained in the publications *Petroleum Supply Annual 2000*, DOE/EIA-0340(2000) and *Natural Gas Annual 2000*, DOE/EIA-0131(2000).

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

Table 15. Lease Condensate Proved Reserves and Production, 2000
(Million Barrels of 42 U.S. Gallons)

State and Subdivision	2000 Reserves	2000 Production	State and Subdivision	2000 Reserves	2000 Production
Alaska	0	0	North Dakota	7	0
Lower 48 States	1,472	208	Oklahoma	96	8
Alabama	46	5	Texas	340	40
Arkansas	2	0	RRC District 1	6	1
California	0	0	RRC District 2 Onshore	13	2
Coastal Region Onshore	0	0	RRC District 3 Onshore	69	15
Los Angeles Basin Onshore	0	0	RRC District 4 Onshore	90	13
San Joaquin Basin Onshore	0	0	RRC District 5	11	1
State Offshore	0	0	RRC District 6	51	4
Colorado	28	3	RRC District 7B	2	0
Florida	0	0	RRC District 7C	39	1
Kansas	3	0	RRC District 8	25	2
Kentucky	0	0	RRC District 8A	1	0
Louisiana	195	31	RRC District 9	3	0
North	26	5	RRC District 10	27	1
South Onshore	159	25	State Offshore	3	0
State Offshore	10	1	Utah and Wyoming	89	7
Michigan	3	0	West Virginia	1	0
Mississippi	6	1	Federal Offshore ^a	564	106
Montana	0	0	Pacific (California)	4	0
New Mexico	92	7	Gulf of Mexico (Louisiana) ^a	433	76
East	31	5	Gulf of Mexico (Texas)	127	30
West	61	2	Miscellaneous ^b	0	0
			U.S. Total	1,472	208

^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" 2000.

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

Natural Gas Plant Liquids

Proved Reserves

Natural gas plant liquids proved reserves increased in 2000 to 6,873 million barrels, a 6 percent increase from 1999's level (6,503 million barrels) (Table 14). Six areas accounted for about 80 percent of the Nation's natural gas plant liquids proved reserves:

Area	Percent of U.S. Gas Plant Liquids
Texas	36
Utah-Wyoming	12
New Mexico	12
Oklahoma	9
Gulf of Mexico Federal Offshore	7
Kansas	4
Area Total	80

Production

Natural gas plant liquids production increased 2 percent in 2000—from 697 million barrels in 1999 to 710 million barrels of production (Table 14). The top six areas for proved reserves of natural gas plant liquids accounted for about 84 percent of the Nation's natural gas plant liquids production:

- Texas (38 percent)
- Gulf of Mexico Federal Offshore (13 percent)
- New Mexico (11 percent)
- Oklahoma (10 percent)
- Utah and Wyoming (8 percent)
- Kansas (4 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 1,472 million barrels in 2000 (Table 15). This was 5 percent more than the volume reported in 1999 (1,403 million barrels). The reserves of five areas account for about 87 percent of the Nation's lease condensate proved reserves.

Area	Percent of U.S. Condensate Reserves
Gulf of Mexico Federal Offshore	38
Texas	23
Louisiana	13
Oklahoma	7
Utah-Wyoming	6
Area Total	87

Production

Production of lease condensate was 208 million barrels in 2000, an increase of 5 percent from 1999's production. The production of five areas account for about 93 percent of the Nation's lease condensate production.

- Gulf of Mexico Federal Offshore (51 percent)
- Texas (19 percent)
- Louisiana (15 percent)
- Oklahoma (4 percent)
- New Mexico (3 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 2000. Proved reserves of 498 million barrels of lease condensate, an increase of 19 percent from 1999, were reported in nonproducing reservoirs in 2000 (Appendix D, Table D10). About 52 percent of the nonproducing lease condensate reserves were located in the Gulf of Mexico Federal Offshore.