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# 1995 National Oil and Gas Assessment Province Boundaries

Metadata also available as

## Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
- [Entity and Attribute Information](#)
- [Distribution Information](#)
- [Metadata Reference Information](#)

*Identification\_Information:*

*Citation:*

*Citation\_Information:*

*Originator:* United States Geological Survey (USGS)

*Publication\_Date:* 1996

*Title:* 1995 National Oil and Gas Assessment Province Boundaries

*Geospatial\_Data\_Presentation\_Form:* vector digital data

*Publication\_Information:*

*Publication\_Place:* Denver, Colorado

*Publisher:* USGS Central Energy Team

*Online\_Linkage:* [<http://energy.cr.usgs.gov/oilgas/noga/>](http://energy.cr.usgs.gov/oilgas/noga/)

*Description:*

*Abstract:*

The USGS Central Region Energy Team assesses oil and gas resources of the United States. The onshore and State water areas of the United States comprise 71 provinces. Within these provinces, hydrocarbon plays were defined and assessed. Each of these provinces is defined geologically, and most province boundaries are defined by major geologic changes. The province boundaries were drawn on the county lines that most closely followed the natural geologic boundaries.

*Purpose:*

These coverages illustrate the geologic boundaries of provinces as defined for the National Oil

and Gas Resource Assessment Project. Hydrocarbon plays are generally defined and assessed within provinces.

*Supplemental Information:*

Oil and gas provinces are listed here by number, with their geographic extent and name:

Number	West	East	North	South
Province Name				
1	-166.981709	-140.987511	71.439286	67.244643
Northern Alaska				
2	-173.226370	-140.990166	68.019992	58.497608
Central Alaska				
3	-172.721241	-129.990826	63.490419	52.197587
Southern Alaska				
4	-124.848972	-121.205451	49.002491	41.998336
Western Oregon - Washington				
5	-121.849172	-116.463262	49.001410	43.957414
Eastern Oregon - Washington				
6	-124.264404	-117.980760	43.528333	34.817571
Klamath - Sierra Nevada				
7	-124.482005	-120.867045	41.998457	36.601118
Northern Coastal				
8	-123.010427	-121.388918	38.826426	37.465070
Sonoma - Livermore Basin				
9	-122.888631	-120.667090	40.692238	37.535185
Sacramento Basin				
10	-121.388918	-118.585166	37.839069	34.890035
San Joaquin Basin				
11	-123.809866	-118.997695	39.082234	34.662940
Central Coastal				
12	-121.977489	-119.441884	36.405649	34.488464
Santa Maria Basin				
13	-120.582266	-117.374254	34.824276	33.841581
Ventura Basin				
14	-119.636306	-117.523145	34.174640	32.753503
Los Angeles Basin				
15	-117.754330	-115.904816	34.236044	32.527183
San Diego - Oceanside				
16	-116.669114	-114.745010	34.020593	32.634294
Salton Trough				
17	-117.243025	-111.045475	49.001147	41.993319
Idaho - Snake River Downwarp				
18	-122.290041	-114.131213	44.563954	32.717037
Western Great Basin				
19	-117.026219	-111.170427	43.022378	35.002085
Eastern Great Basin				
20	-111.486917	-105.878036	40.858687	38.146888
Uinta - Piceance Basin				

21	-113.649780	-107.510884	39.813148	36.997904
Paradox Basin				
22	-109.046796	-105.938386	38.147267	34.958969
San Juan Basin				
23	-107.238721	-105.129717	38.458219	33.968975
Albuquerque - Santa Fe Rift				
24	-114.046837	-109.045115	37.004262	32.983724
Northern Arizona				
25	-114.816588	-107.296347	36.194069	31.332172
Southern Arizona - Southwestern New Mexico				
26	-109.047510	-105.290124	35.348334	31.783504
South-Central New Mexico				
27	-116.050004	-110.483111	49.001389	44.358218
Montana Thrust Belt				
28	-113.009896	-106.086331	49.001131	45.217609
North-Central Montana				
29	-112.761060	-108.645329	46.220520	44.474067
Southwest Montana				
31	-107.968435	-96.554510	49.000695	43.678515
Williston Basin				
32	-102.139320	-96.436589	45.938790	42.479636
Sioux Arch				
33	-108.258628	-104.052588	46.043630	42.430845
Powder River Basin				
34	-110.172393	-107.110736	45.220432	43.459537
Big Horn Basin				
35	-110.053640	-106.074743	44.009154	42.430489
Wind River Basin				
36	-111.876689	-110.300975	43.751432	40.548434
Wyoming Thrust Belt				
37	-111.056890	-105.271434	45.003902	39.918673
Southwestern Wyoming				
38	-106.873222	-105.328183	41.002723	38.693088
Park Basins				
39	-106.195437	-101.984461	43.856786	37.734704
Denver Basin				
40	-104.062072	-102.044427	39.047081	37.642935
Las Animas Arch				
41	-105.796897	-103.001966	38.265189	35.389473
Raton Basin - Sierra Grande Uplift				
42	-105.722199	-103.637025	35.871016	34.346719
Pedernal Uplift				
43	-104.129725	-99.997506	37.000783	33.824598
Palo Duro Basin				
44	-106.645643	-99.754172	34.779519	29.258340
Permian Basin				

45	-100.236192	-96.295057	35.030387	29.551695
Bend Arch - Fort Worth Basin				
46	-103.795727	-100.699143	30.600109	28.971546
Marathon Thrust Belt				
47	-100.797075	-88.758389	31.517595	25.837377
Western Gulf				
48	-97.278291	-93.594971	33.962002	30.695426
East Texas Basin				
49	-94.485877	-84.857922	34.567830	29.503400
Louisiana-Mississippi Salt Basins				
50	-85.278542	-79.981794	30.829781	24.396309
Florida Peninsula				
51	-97.239212	-86.223574	49.384357	43.499649
Superior				
52	-96.639710	-90.140058	44.713805	40.375437
Iowa Shelf				
53	-102.084966	-97.922219	42.999416	37.470143
Cambridge Arch - Central Kansas Uplift				
54	-100.268027	-95.919868	42.998713	38.608816
Salina Basin				
55	-97.675879	-95.709974	41.393474	34.854475
Nemaha Uplift				
56	-96.357283	-92.664418	41.506895	38.026144
Forest City Basin				
57	-94.618655	-89.421057	40.613641	35.867410
Ozark Uplift				
58	-103.087280	-97.460490	39.135500	34.594220
Anadarko Basin				
59	-99.012596	-96.819477	38.610095	36.997684
Sedgwick Basin				
60	-97.354011	-93.497285	38.220331	34.856785
Cherokee Platform				
61	-98.826330	-96.406937	34.855753	33.716941
Southern Oklahoma				
62	-96.932639	-91.197622	36.307451	33.615765
Arkoma Basin				
63	-91.273321	-82.122974	47.463627	40.916449
Michigan Basin				
64	-91.584684	-85.684740	42.508303	33.985686
Illinois Basin				
65	-90.451644	-86.451121	34.995634	32.307438
Black Warrior Basin				
66	-88.247985	-82.616147	41.959407	34.550790
Cincinnati Arch				
67	-87.870505	-73.573344	44.403305	32.307292
Appalachian Basin				

68	-87.019157	-72.367723	45.016661	32.660119
Blue Ridge Thrust Belt				
69	-86.921376	-76.035765	39.721506	32.307577
Piedmont				
70	-85.141929	-71.476875	41.310383	30.355644
Atlantic Coastal Plain				
71	-75.859994	-73.191309	45.015848	42.824940
Adirondack Uplift				
72	-73.727779	-66.885082	47.459682	40.950919
New England				

*Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1996

*Currentness\_Reference:* publication date

*Status:*

*Progress:* Complete

*Maintenance\_and\_Update\_Frequency:* As needed

*Spatial\_Domain:*

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*East\_Bounding\_Coordinate:* -66.885082

*North\_Bounding\_Coordinate:* 71.439286

*South\_Bounding\_Coordinate:* 24.396309

*Keywords:*

*Theme:*

*Theme\_Keyword\_Thesaurus:* none

*Theme\_Keyword:* National Oil and Gas Assessment

*Theme\_Keyword:* Energy Resources

*Theme\_Keyword:* Oil

*Theme\_Keyword:* Natural Gas

*Theme\_Keyword:* Resource Assessment

*Theme\_Keyword:* Earth Science

*Theme\_Keyword:* Natural Resources

*Theme\_Keyword:* U.S. Geological Survey

*Theme\_Keyword:* USGS

*Theme\_Keyword:* Geology

*Theme\_Keyword:* Province Boundary

*Theme\_Keyword:* Sedimentary Basin

*Place:*

*Place\_Keyword\_Thesaurus:* none

*Place\_Keyword:* United States

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*Place\_Keyword\_Thesaurus:* USGS Energy Resource Regions (NOGA-95)

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*Place\_Keyword:* Pacific Coast

*Place\_Keyword:* Colorado Plateau and Basin and Range  
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*Point\_of\_Contact:*  
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*Contact\_Organization\_Primary:*  
*Contact\_Organization:* U.S. Geological Survey, Central Region Energy Team  
*Contact\_Person:* Christopher J. Schenk  
*Contact\_Position:* National Oil and Gas Assessment Project Chief  
*Contact\_Address:*  
*Address\_Type:* mailing and physical address  
*Address:*  
U.S. Geological Survey Box 25046, MS 939  
*City:* Denver

*State\_or\_Province:* Colorado  
*Postal\_Code:* 80225-0046  
*Country:* USA  
*Contact\_Voice\_Telephone:* (303) 236-5796  
*Contact\_Electronic\_Mail\_Address:* schenk@usgs.gov  
*Native\_Data\_Set\_Environment:* ARC/INFO

*Data\_Quality\_Information:*

*Logical\_Consistency\_Report:*

Province boundaries match U.S. Census Bureau 1990 TIGER 100,000-scale county boundaries.

*Completeness\_Report:*

The oil and gas resources of the United States were evaluated on the basis of interpretation of the geology of its petroleum provinces. The United States was divided into eight regions, which encompass 71 provinces.

*Lineage:*

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* U.S. Dept. of Commerce, Bureau of Census

*Publication\_Date:* 1993

*Title:* TIGER/line Precensus Files, 1990

*Edition:* 1.1

*Source\_Scale\_Denominator:* 100,000

*Type\_of\_Source\_Media:* online

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1990

*Source\_Currentness\_Reference:* publication date

*Source\_Citation\_Abbreviation:* none

*Source\_Contribution:* State and County Boundaries

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* U.S. Geological Survey

*Originator:* Gautier, D.L. (ed.)

*Originator:* Dolton, G.L. (ed.)

*Originator:* Takahashi, K.I. (ed.)

*Originator:* Varnes, K.L. (ed.)

*Publication\_Date:* 1996

*Title:*

1995 National Assessment of United States Oil and Gas Resources--Results, Methodology, and Supporting Data

*Edition:* Release 2



*Series\_Information:*

*Series\_Name:* U.S. Geological Survey Digital Data Series

*Issue\_Identification:* DDS-30

*Type\_of\_Source\_Media:* CD-ROM

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1996

*Source\_Currentness\_Reference:* Publication Date

*Source\_Citation\_Abbreviation:* USGS DDS-30, Release 2

*Source\_Contribution:* U.S. National Oil and Gas Assessment

*Source\_Information:*

*Source\_Citation:*

*Citation\_Information:*

*Originator:* U.S. Geological Survey

*Originator:* Beeman, W.R. (compiler)

*Originator:* Obuch, R.C. (compiler)

*Originator:* Brewton, J.D. (compiler)

*Publication\_Date:* 1996

*Title:*

Digital Map Data, Text, and Graphical Images in Support of the 1995 National Assessment of United States Oil and Gas Resources

*Series\_Information:*

*Series\_Name:* U.S. Geological Survey Digital Data Series

*Issue\_Identification:* DDS-35

*Type\_of\_Source\_Media:* CD-ROM

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1996

*Source\_Currentness\_Reference:* Publication Date

*Source\_Citation\_Abbreviation:* USGS DDS-35

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digital map data in support of the 1995 U.S. National Oil and Gas Assessment

*Source\_Information:*

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*Citation\_Information:*

*Originator:* U.S. Geological Survey

*Originator:* Charpentier, R.R. (compiler)

*Originator:* Klett, T.R. (compiler)

*Originator:* Obuch, R.C. (compiler)

*Originator:* Brewton, J.D. (compiler)

*Publication\_Date:* 1996

*Title:*

Tabular Data, Text, and Graphical Images in Support of the 1995 National Assessment of United States Oil and Gas Resources

*Series\_Information:*

*Series\_Name:* U.S. Geological Survey Digital Data Series

*Issue\_Identification:* DDS-36

*Type\_of\_Source\_Media:* CD-ROM

*Source\_Time\_Period\_of\_Content:*

*Time\_Period\_Information:*

*Single\_Date/Time:*

*Calendar\_Date:* 1996

*Source\_Currentness\_Reference:* Publication Date

*Source\_Citation\_Abbreviation:* USGS DDS-36

*Source\_Contribution:*

digital tabular data in support of the 1995 U.S. National Oil and Gas Assessment

*Process\_Step:*

*Process\_Description:*

We ran lins2cov.aml on the .lin files (from USGS DDS-35) to create the province coverages. The lins2cov.aml takes files from the NOGA 95 Spatial Data Disk (DDS-35), and reformats into Arc/Info Generate format (ASCII) files. They are then imported into ArcInfo coverages using the GENERATE command, subsequently they are cleaned to remove any potential overlap of polygons (using .000001 weed and fuzzy tolerances). Region/province numbers and names are appended to the file using lookup information acquired from tables on the NOGA 95 Tabular Information Disk (DDS-36). The individual province coverages were merged to create one national coverage.

*Process\_Date:* 20010400

*Source\_Used\_Citation\_Abbreviation:* USGS DDS-30, Release 2

*Source\_Used\_Citation\_Abbreviation:* USGS DDS-35

*Source\_Used\_Citation\_Abbreviation:* USGS DDS-36

*Spatial\_Data\_Organization\_Information:*

*Direct\_Spatial\_Reference\_Method:* Vector

*Point\_and\_Vector\_Object\_Information:*

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Complete chain

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* GT-polygon composed of chains

*SDTS\_Terms\_Description:*

*SDTS\_Point\_and\_Vector\_Object\_Type:* Point

*Spatial\_Reference\_Information:*

*Horizontal\_Coordinate\_System\_Definition:*

*Geographic:*

*Geographic\_Coordinate\_Units:* Decimal degrees

*Geodetic\_Model:*

*Horizontal\_Datum\_Name:* North American Datum of 1983

*Ellipsoid\_Name:* Geodetic Reference System 80

*Semi-major\_Axis:* 6378137.00

*Denominator\_of\_Flattening\_Ratio:* 298.257222

*Entity\_and\_Attribute\_Information:*

*Detailed\_Description:*

*Entity\_Type:*

*Entity\_Type\_Label:* Province boundaries

*Entity\_Type\_Definition:*

Polygon Attribute Table. Pr\_natlg is a national file. For each province, "provincenum" is replaced with the actual province number in either a file, pr"provincenum"\*.pat, or a table, pr"provincenum"\*.dbf.

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*Attribute\_Definition:* Area of polygon

*Attribute\_Definition\_Source:* Software computed

*Attribute\_Domain\_Values:*

*Unrepresentable\_Domain:* Stored as a floating-point value

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*Attribute\_Definition:* Perimeter of polygon

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*Attribute\_Definition\_Source:* U.S. Geological Survey Energy Resource Regions

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*Attribute\_Definition\_Source:* U.S. Geological Survey Energy Resource Provinces

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*Contact\_Organization\_Primary*:

*Contact\_Organization*: U.S. Geological Survey, Central Energy Team

*Contact\_Person*: Christopher J. Schenk

*Contact\_Position*: National Oil and Gas Assessment Project Chief

*Contact\_Address*:

*Address\_Type*: mailing and physical address

*Address*: U.S. Geological Survey MS939, BOX 25046

*City*: Denver

*State\_or\_Province*: Colorado

*Postal\_Code*: 80225

*Country*: USA

*Contact\_Voice\_Telephone*: (303) 236-5796

*Contact\_Electronic\_Mail\_Address*: schenk@usgs.gov

*Distribution\_Liability*:

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*Contact\_Position:* GIS Coordinator

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