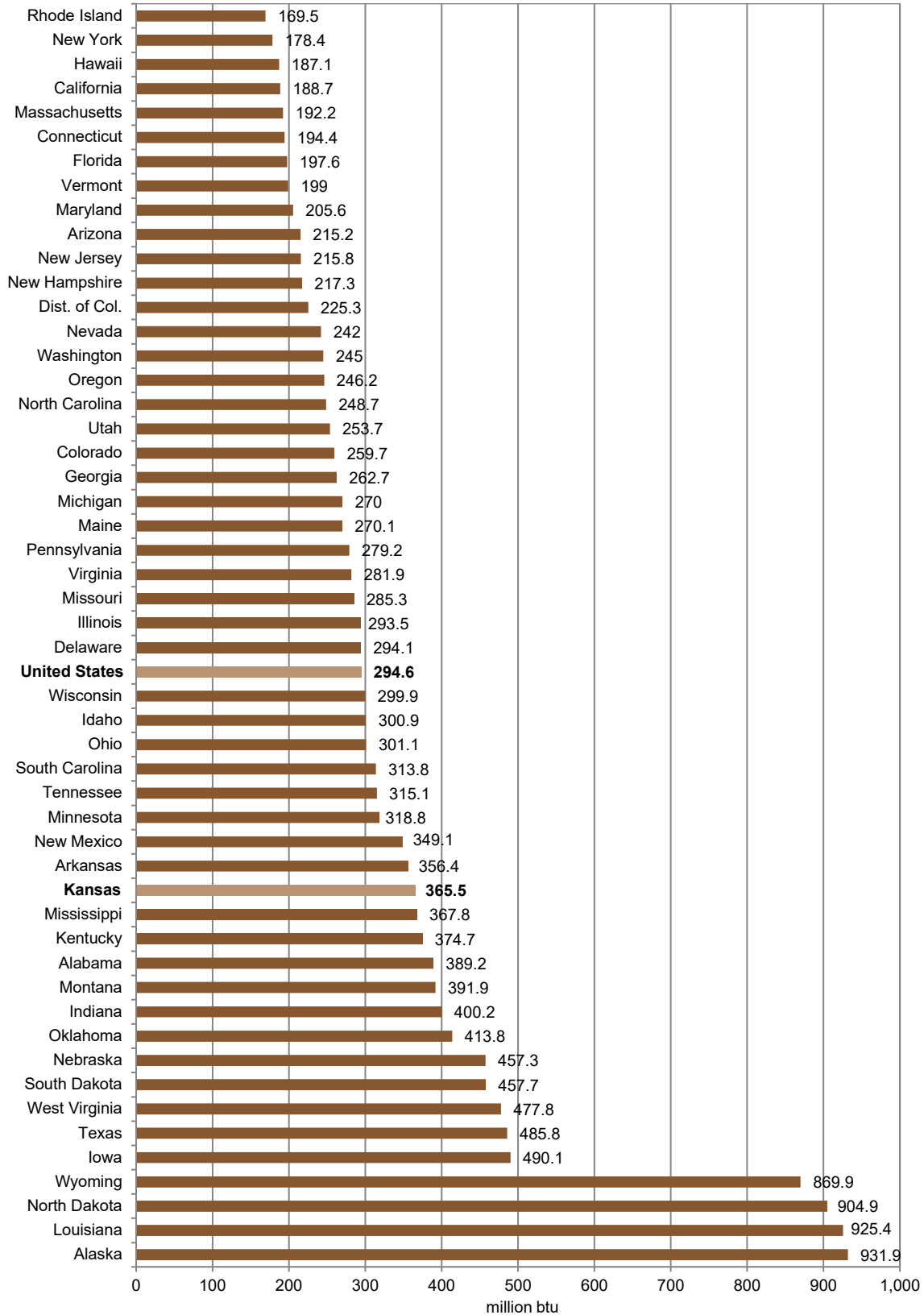




# ENERGY AND NATURAL RESOURCES

**Kansas Statistical Abstract 2022**  
Institute for Policy & Social Research  
[ipsr.ku.edu/ksdata/ksah/](https://ipsr.ku.edu/ksdata/ksah/)

## Per Capita Energy Consumption by State, 2021



Source: Institute for Policy & Social Research, The University of Kansas; data from the U.S. Department of Energy.

### Energy Prices and Expenditures, Ranked by State, 2021

Prices			Expenditures			Expenditures per Person		
Rank	State	Dollars per Million Btu	Rank	State	Million Dollars	Rank	State	Dollars
1	Hawaii	\$32.69	1	Texas	\$161,664	1	Alaska	\$8,711
2	California	28.43	2	California	150,204	2	Wyoming	8,656
3	Connecticut	25.85	3	Florida	66,763	3	North Dakota	7,938
4	Massachusetts	25.72	4	New York	59,525	4	Louisiana	7,839
5	District of Columbia	25.68	5	Pennsylvania	46,423	5	Texas	5,469
6	Rhode Island	25.66	6	Illinois	45,113	6	South Dakota	5,329
7	New Hampshire	25.65	7	Ohio	44,522	7	Iowa	5,245
8	Arizona	25.06	8	Georgia	38,650	8	Montana	5,086
9	Vermont	24.24	9	Michigan	36,782	9	Nebraska	4,923
10	Maryland	23.58	10	North Carolina	36,320	10	West Virginia	4,903
11	New York	22.52	11	Louisiana	36,273	11	Alabama	4,797
12	Florida	22.52	12	Virginia	32,132	12	Mississippi	4,622
13	New Jersey	21.80	13	Indiana	31,140	13	Indiana	4,570
14	Delaware	21.48	14	New Jersey	30,994	14	Kentucky	4,544
15	Oregon	21.40	15	Tennessee	27,981	15	Arkansas	4,496
16	New Mexico	21.38	16	Washington	25,940	16	Oklahoma	4,475
17	Nevada	21.11	17	Arizona	25,549	17	Hawaii	4,386
18	Maine	21.03	18	Massachusetts	25,412	18	Maine	4,380
19	North Carolina	20.98	19	Alabama	24,224	19	Vermont	4,349
20	Washington	20.92	20	Wisconsin	23,911	20	New Mexico	4,333
21	Colorado	20.61	21	Missouri	23,826	<b>21</b>	<b>Kansas</b>	<b>4,312</b>
22	Montana	20.51	22	Minnesota	22,680	22	New Hampshire	4,080
23	Missouri	20.46	23	South Carolina	21,009	23	Wisconsin	4,066
24	Alaska	20.42	24	Kentucky	20,478	24	Idaho	4,057
25	South Carolina	20.22	25	Colorado	20,474	25	South Carolina	4,045
26	Georgia	19.77	26	Maryland	19,827	26	Tennessee	4,016
27	Virginia	19.73	27	Oklahoma	17,859	27	Minnesota	3,971
28	Utah	19.68	28	Iowa	16,773	28	Delaware	3,869
29	West Virginia	19.60	29	Oregon	15,234	29	Missouri	3,862
30	Tennessee	19.57	30	Connecticut	13,730	30	California	3,837
31	Pennsylvania	19.49	31	Mississippi	13,633	31	Connecticut	3,789
32	Wisconsin	19.44	32	Arkansas	13,616	32	Ohio	3,784
33	Michigan	19.37	<b>33</b>	<b>Kansas</b>	<b>12,668</b>	33	Virginia	3,712
34	Idaho	19.29	34	Nevada	11,276	34	Michigan	3,664
35	Kentucky	19.24	35	Utah	11,114	35	Massachusetts	3,636
<b>36</b>	<b>Kansas</b>	<b>19.05</b>	36	Nebraska	9,666	36	Nevada	3,584
37	Mississippi	18.94	37	New Mexico	9,172	37	Georgia	3,583
38	South Dakota	18.85	38	West Virginia	8,754	38	Oregon	3,579
39	Minnesota	18.75	39	Idaho	7,725	39	Pennsylvania	3,568
40	Ohio	18.49	40	Alaska	6,395	40	Illinois	3,556
41	Arkansas	18.43	41	Hawaii	6,347	41	Colorado	3,523
42	Illinois	18.38	42	North Dakota	6,175	42	Arizona	3,517
43	Alabama	17.84	43	Maine	6,032	43	North Carolina	3,437
44	Nebraska	17.53	44	New Hampshire	5,660	44	Rhode Island	3,406
45	Oklahoma	17.51	45	Montana	5,626	45	Washington	3,351
46	Wyoming	17.32	46	Wyoming	5,016	46	New Jersey	3,344
47	Indiana	17.11	47	South Dakota	4,776	47	Utah	3,328
48	Texas	16.53	48	Delaware	3,888	48	Maryland	3,211
48	Iowa	16.41	49	Rhode Island	3,737	49	District of Columbia	3,118
50	North Dakota	15.68	50	Vermont	2,813	50	Florida	3,059
51	Louisiana	12.46	51	District of Columbia	2,086	51	New York	2,998
	<b>United States</b>	<b>\$19.99</b>		<b>United States</b>	<b>\$1,317,098</b>		<b>United States</b>	<b>\$3,967</b>

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS), <https://www.eia.gov/state/seds/> (accessed July 6, 2023).

U.S. expenditures include coal coke net imports that are not allocated to the States.

**Total Energy Consumption and Total Consumption per Capita  
Ranked by State, 2021**

Total Consumption			Total Consumption per Capita		
Rank	State	Trillion Btu	Rank	State	Million Btu
1	Texas	14,358.7	1	Alaska	931.9
2	California	7,387.9	2	Louisiana	925.4
3	Florida	4,313.2	3	North Dakota	904.9
4	Louisiana	4,282.1	4	Wyoming	869.9
5	Illinois	3,723.6	5	Iowa	490.1
6	Pennsylvania	3,633.6	6	Texas	485.8
7	New York	3,542.3	7	West Virginia	477.8
8	Ohio	3,542.0	8	South Dakota	457.7
9	Georgia	2,833.5	9	Nebraska	457.3
10	Indiana	2,726.8	10	Oklahoma	413.8
11	Michigan	2,710.2	11	Indiana	400.2
12	North Carolina	2,627.6	12	Montana	391.9
13	Virginia	2,440.4	13	Alabama	389.2
14	Tennessee	2,196.1	14	Kentucky	374.7
15	New Jersey	1,999.8	15	Mississippi	367.8
16	Alabama	1,965.2	<b>16</b>	<b>Kansas</b>	<b>365.5</b>
17	Washington	1,896.8	17	Arkansas	356.4
18	Minnesota	1,820.6	18	New Mexico	349.1
19	Wisconsin	1,763.2	19	Minnesota	318.8
20	Missouri	1,760.0	20	Tennessee	315.1
21	Kentucky	1,688.5	21	South Carolina	313.8
22	Oklahoma	1,651.7	22	Ohio	301.1
23	South Carolina	1,629.8	23	Idaho	300.9
24	Iowa	1,567.3	24	Wisconsin	299.9
25	Arizona	1,563.1	25	Delaware	294.1
26	Colorado	1,509.2	26	Illinois	293.5
27	Massachusetts	1,343.7	27	Missouri	285.3
28	Maryland	1,269.2	28	Virginia	281.9
29	Mississippi	1,085.0	29	Pennsylvania	279.2
30	Kansas	1,079.1	30	Maine	270.1
<b>31</b>	<b>Kansas</b>	<b>1,073.7</b>	31	Michigan	270.0
32	Oregon	1,047.8	32	Georgia	262.7
33	Nebraska	898.0	33	Colorado	259.7
34	West Virginia	853.1	34	Utah	253.7
35	Utah	847.2	35	North Carolina	248.7
36	Nevada	761.3	36	Oregon	246.2
37	New Mexico	739.0	37	Washington	245.0
38	Connecticut	704.4	38	Nevada	242.0
39	North Dakota	703.9	39	District of Columbia	225.3
40	Alaska	684.2	40	New Hampshire	217.3
41	Idaho	573.0	41	New Jersey	215.8
42	Wyoming	504.1	42	Arizona	215.2
43	Montana	433.5	43	Maryland	205.6
44	South Dakota	410.2	44	Vermont	199.0
45	Maine	372.0	45	Florida	197.6
46	New Hampshire	301.6	46	Connecticut	194.4
47	Delaware	295.5	47	Massachusetts	192.2
48	Hawaii	270.8	48	California	188.7
49	Rhode Island	186.0	49	Hawaii	187.1
50	District of Columbia	150.7	50	New York	178.4
51	Vermont	128.8	51	Rhode Island	169.5
	<b>United States</b>	<b>97,810.0</b>		<b>United States</b>	<b>294.6</b>

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS), <https://www.eia.gov/state/seds/> (accessed July 6, 2023).

U.S. includes coal coke net imports that are not allocated to the States.

**Motor Gasoline Consumption by State, 2021**

<b>State</b>	<b>Commercial</b>	<b>Industrial</b>	<b>Transportation</b>	<b>Total</b>
Alabama	1,142	869	74,260	76,272
Alaska	106	104	6,125	6,335
Arizona	1,875	1,759	66,146	69,780
Arkansas	553	741	34,755	36,050
California	10,604	6,030	302,881	319,514
Colorado	1,512	1,204	51,285	54,002
Connecticut	935	392	30,942	32,269
Delaware	245	133	11,235	11,614
District of Columbia	80	37	2,325	2,443
Florida	5,722	4,562	203,099	213,383
Georgia	2,523	1,306	107,972	111,800
Hawaii	331	267	9,160	9,757
Idaho	335	573	18,577	19,486
Illinois	2,672	2,074	94,136	98,882
Indiana	1,488	1,064	69,945	72,496
Iowa	579	830	34,985	36,394
<b>Kansas</b>	<b>609</b>	<b>936</b>	<b>28,512</b>	<b>30,057</b>
Kentucky	813	564	49,608	50,985
Louisiana	832	781	50,367	51,981
Maine	328	223	15,032	15,584
Maryland	1,792	575	55,771	58,138
Massachusetts	1,445	795	56,126	58,366
Michigan	2,134	1,568	100,040	103,742
Minnesota	1,039	1,268	54,534	56,840
Mississippi	484	380	39,782	40,646
Missouri	1,390	947	72,098	74,436
Montana	156	336	12,642	13,135
Nebraska	375	627	20,292	21,293
Nevada	884	448	26,841	28,173
New Hampshire	328	184	15,472	15,984
New Jersey	2,236	1,324	78,447	82,007
New Mexico	401	539	23,254	24,194
New York	3,146	2,859	118,176	124,180
North Carolina	2,452	1,303	109,146	112,901
North Dakota	104	340	9,345	9,789
Ohio	3,207	1,595	107,046	111,848
Oklahoma	900	907	43,243	45,050
Oregon	975	642	33,962	35,580
Pennsylvania	2,953	1,514	102,894	107,361
Rhode Island	213	125	7,929	8,266
South Carolina	1,313	616	63,732	65,661
South Dakota	134	258	11,356	11,748
Tennessee	1,413	1,167	77,252	79,832
Texas	5,187	3,784	323,151	332,122
Utah	443	430	28,090	28,963
Vermont	143	90	6,373	6,606
Virginia	2,352	759	90,826	93,937
Washington	1,614	999	57,814	60,428
West Virginia	378	263	18,374	19,015
Wisconsin	1,202	999	58,416	60,618
Wyoming	97	237	7,457	7,791
<b>United States</b>	<b>74,171</b>	<b>52,328</b>	<b>3,091,231</b>	<b>3,217,730</b>

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS), Table F3: Motor Gasoline Consumption, Price, and Expenditure Estimates, 2021, <https://www.eia.gov/state/seds/> (accessed April 17, 2023).

Consumption in thousands of barrels.

Data may not sum to totals due to rounding.

### Electricity Consumption by State, 2021

State	Residential	Commercial	Industrial	Transportation	Total
Alabama	31,585	21,844	32,156	0	85,585
Alaska	2,084	2,559	1,327	0	5,969
Arizona	37,130	29,990	14,089	11	81,220
Arkansas	18,918	11,517	18,228	-	48,663
California	90,284	108,762	47,583	621	247,250
Colorado	20,625	20,584	15,053	89	56,351
Connecticut	13,092	11,701	2,799	145	27,738
Delaware	5,170	4,196	2,113	0	11,480
District of Columbia	2,528	7,044	240	272	10,083
Florida	130,412	93,965	17,113	72	241,562
Georgia	58,685	45,777	32,759	143	137,364
Hawaii	2,825	2,785	3,327	0	8,936
Idaho	9,301	6,600	9,384	0	25,286
Illinois	46,813	46,923	41,498	455	135,689
Indiana	33,472	22,921	43,329	18	99,740
Iowa	14,652	12,135	26,106	0	52,893
<b>Kansas</b>	<b>13,769</b>	<b>15,356</b>	<b>11,366</b>	<b>0</b>	<b>40,492</b>
Kentucky	26,434	18,686	29,397	0	74,517
Louisiana	30,408	22,460	37,942	9	90,819
Maine	5,062	3,949	2,574	0	11,585
Maryland	27,965	27,437	3,480	422	59,304
Massachusetts	20,305	23,832	6,346	315	50,798
Michigan	35,868	36,861	27,081	3	99,813
Minnesota	23,246	22,093	21,227	23	66,589
Mississippi	18,570	13,676	15,769	0	48,015
Missouri	35,668	28,987	13,087	21	77,763
Montana	5,559	4,906	4,496	0	14,962
Nebraska	10,492	9,260	12,588	0	32,341
Nevada	14,373	12,294	12,360	5	39,032
New Hampshire	4,832	4,107	1,929	0	10,867
New Jersey	30,090	36,137	6,593	249	73,070
New Mexico	7,088	8,656	9,650	0	25,394
New York	52,157	69,920	16,891	2,455	141,424
North Carolina	60,915	47,715	27,049	14	135,693
North Dakota	4,888	6,808	11,166	0	22,863
Ohio	53,171	44,980	49,529	37	147,718
Oklahoma	23,746	19,999	20,780	0	64,525
Oregon	20,285	16,509	17,319	23	54,135
Pennsylvania	55,945	36,988	50,000	407	143,340
Rhode Island	3,132	3,605	644	18	7,398
South Carolina	31,386	21,114	27,292	0	79,792
South Dakota	5,044	4,792	3,206	0	13,041
Tennessee	42,840	34,863	21,917	0	99,621
Texas	155,075	147,843	132,530	180	435,628
Utah	10,950	12,207	9,472	49	32,678
Vermont	2,174	1,867	1,371	0	5,413
Virginia	46,634	58,724	19,712	175	125,245
Washington	38,021	28,637	21,436	104	88,199
West Virginia	11,051	7,156	14,571	0	32,778
Wisconsin	22,864	23,266	23,296	1	69,427
Wyoming	2,897	3,443	9,444	0	15,785
<b>United States</b>	<b>1,470,487</b>	<b>1,328,439</b>	<b>1,000,613</b>	<b>6,334</b>	<b>3,805,874</b>

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS),

Table F20: Electricity Consumption Estimates, 2021, <https://www.eia.gov/state/seds/> (accessed December 16, 2022).

Consumption in million kilowatt-hours.

Data may not sum to totals due to rounding.

Single dash (-) indicates physical unit value less than 0.5 kilowatt hours.

### Energy Consumption in Kansas, by Source, 2016-2021

Sector	2016r	2017r	2018r	2019r	2020r	2021
Petroleum	342.4	335.3	343.7	352.4	334.6	338.3
Coal	253.1	216.7	227.7	197.8	193.8	219.0
Natural Gas	276.4	279.1	321.8	320.0	301.4	292.2
Nuclear Electric Power	86.2	111.4	95.9	96.6	110.5	89.6
Biomass <sup>1</sup>	47.5	47.0	49.2	49.5	48.3	47.1
Wind	130.2	171.3	172.0	188.0	210.1	227.2
Geothermal	1.0	1.0	1.0	1.0	1.0	1.0
Hydro-electric Power	0.3	0.3	0.2	0.2	0.3	0.3
Photovoltaic and solar thermal	0.1	0.2	0.3	0.5	1.0	1.1
Net Interstate Flow of Electricity/Losses <sup>2</sup>	-44.7	-87.2	-76.0	-76.8	-131.6	-142.0
<b>Total</b>	<b>1,092.5</b>	<b>1,075.1</b>	<b>1,135.8</b>	<b>1,129.0</b>	<b>1,069.4</b>	<b>1,073.7</b>

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Systems (SEDS), <https://www.eia.gov/state/seds/> (accessed July 13, 2022).

Consumption in trillion Btu.

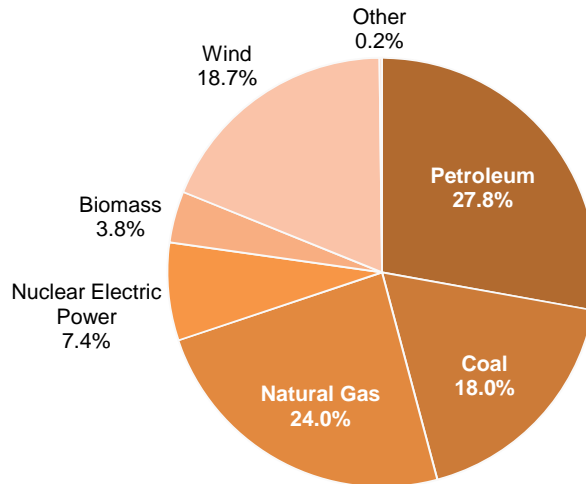
r - revised

<sup>1</sup> Includes wood and waste, fuel ethanol, and losses and co-products.

<sup>2</sup> A negative number indicates that more electricity went out of the state than came into the state.

Data may not sum to totals due to rounding.

### Energy Consumption in Kansas by Source, 2021



**Average Annual Natural Gas Prices in Kansas, 2016-2022**

<b>Customer</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020r</b>	<b>2021r</b>	<b>2022</b>
City Gate	\$4.02	\$4.51	\$4.21	\$3.68	\$3.42	\$11.27	\$7.57
Residential	9.85	10.95	10.18	9.24	9.37	11.11	-
Commercial	8.41	9.30	8.63	7.68	7.49	9.08	-
Industrial	3.69	4.16	4.38	3.93	3.38	5.22	-
Electric Utility	3.48	3.85	3.33	2.83	2.62	9.75	7.18

Source: U.S. Department of Energy, Energy Information Administration, [https://www.eia.gov/dnav/ng/ng\\_sum\\_lsum\\_dcu\\_SKS\\_a.htm](https://www.eia.gov/dnav/ng/ng_sum_lsum_dcu_SKS_a.htm) (accessed July 6, 2023).

City Gate is defined as a point or measuring station at which a distributing gas utility receives gas from a natural gas pipeline company or transmission system; see source for other customer definitions.

Dollars per thousand cubic feet.

r - revised

Single dash (-) indicates not available.

**Total Annual Natural Gas Production and Use in Kansas, 2016-2022**

<b>Consumer</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020r</b>	<b>2021r</b>	<b>2022</b>
Marketed Production	244,795	219,639	201,391	183,087	163,356	152,986	144,811
Use by All Consumers	233,473	237,781	268,842	269,994	262,979	260,690	-
Residential	54,060	54,445	67,134	68,123	62,313	60,146	-
Commercial	34,757	34,612	40,249	41,320	39,857	41,010	-
Industrial	124,071	127,653	132,495	131,590	135,733	135,514	144,338
Vehicle Fuel	186	483	683	729	771	920	866
Electric Power	20,399	20,589	28,281	28,232	24,305	23,099	29,566

Source: U.S. Department of Energy, Energy Information Administration, [https://www.eia.gov/dnav/ng/ng\\_sum\\_lsum\\_dcu\\_SKS\\_a.htm](https://www.eia.gov/dnav/ng/ng_sum_lsum_dcu_SKS_a.htm) (accessed July 6, 2023).

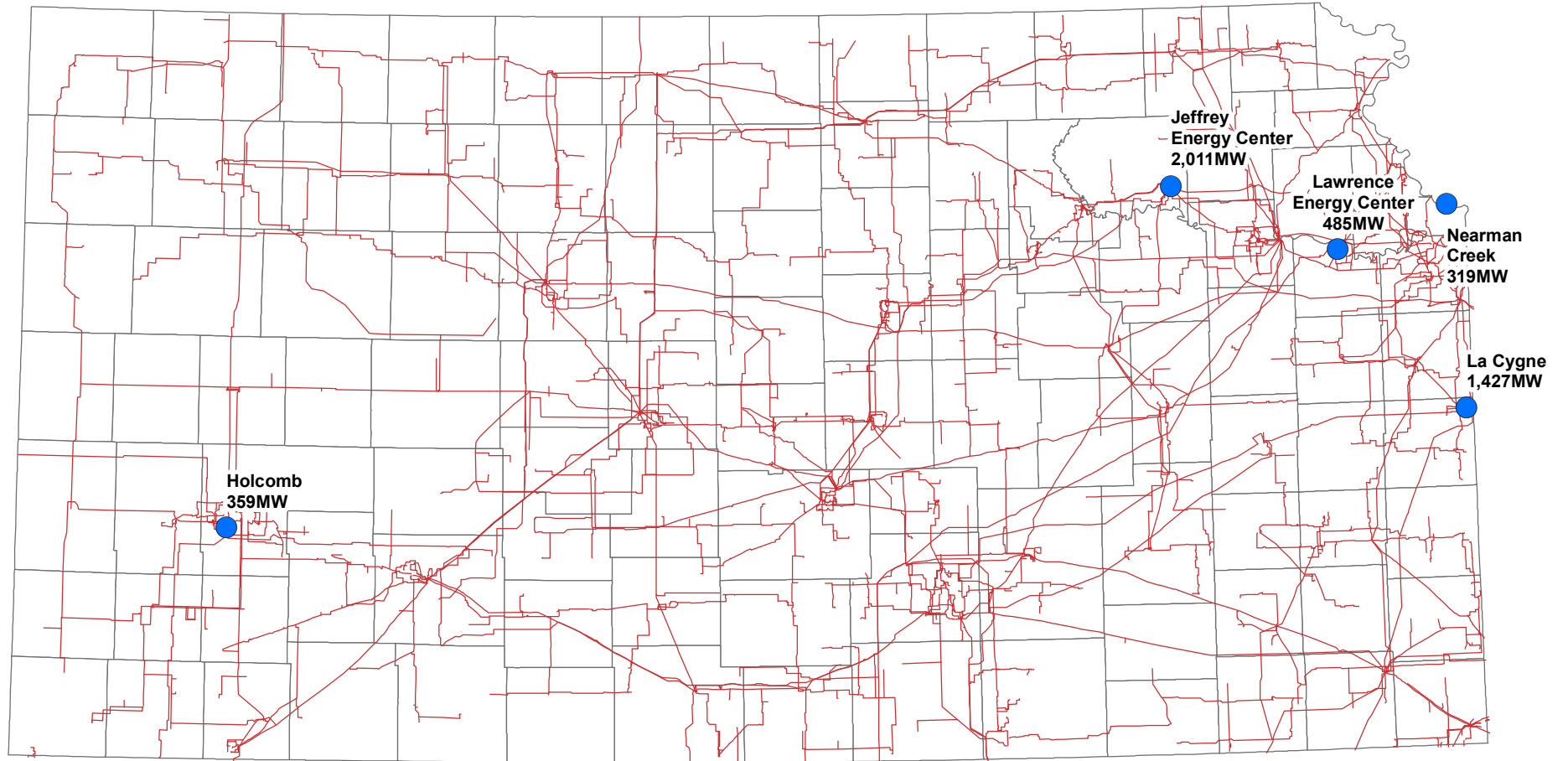
Numbers in million cubic feet.

r - revised

Single dash (-) indicates not available.



## Coal Plants and Electrical Transmission Lines in Kansas



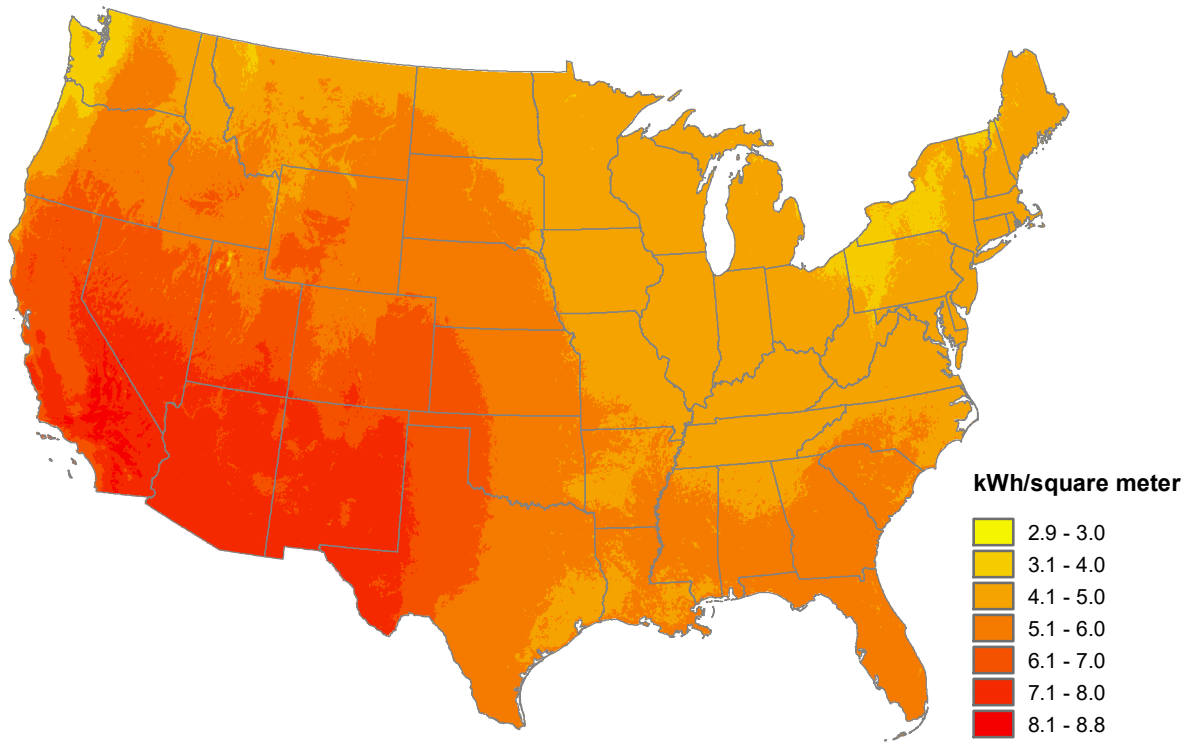
Source: Institute for Policy & Social Research, The University of Kansas; data from the U.S. Energy Information Administration and the Kansas Corporation Commission.

MW - megawatts

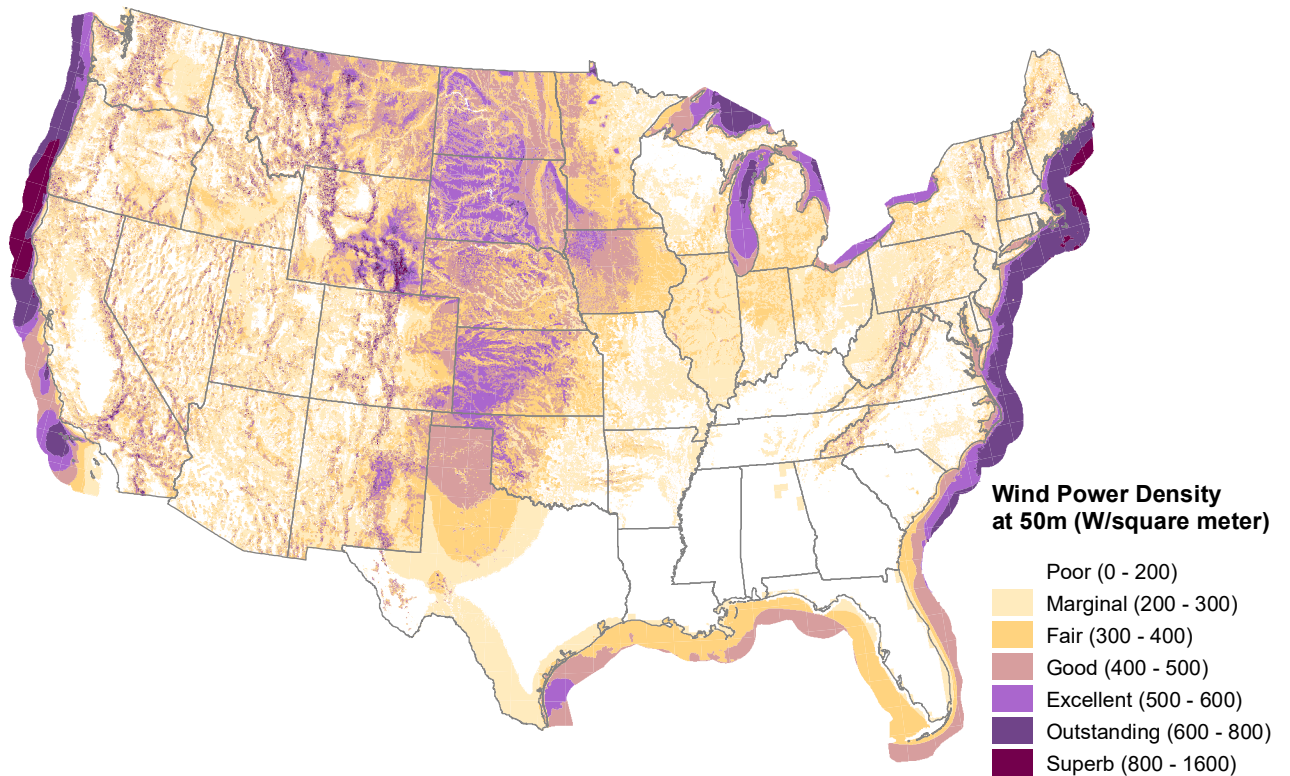
Coal Plants in Kansas (2022) — Electrical Transmission Lines (2017)

● existing

## Direct Normal Solar Resource in the Contiguous United States Annual Average, 1998-2016

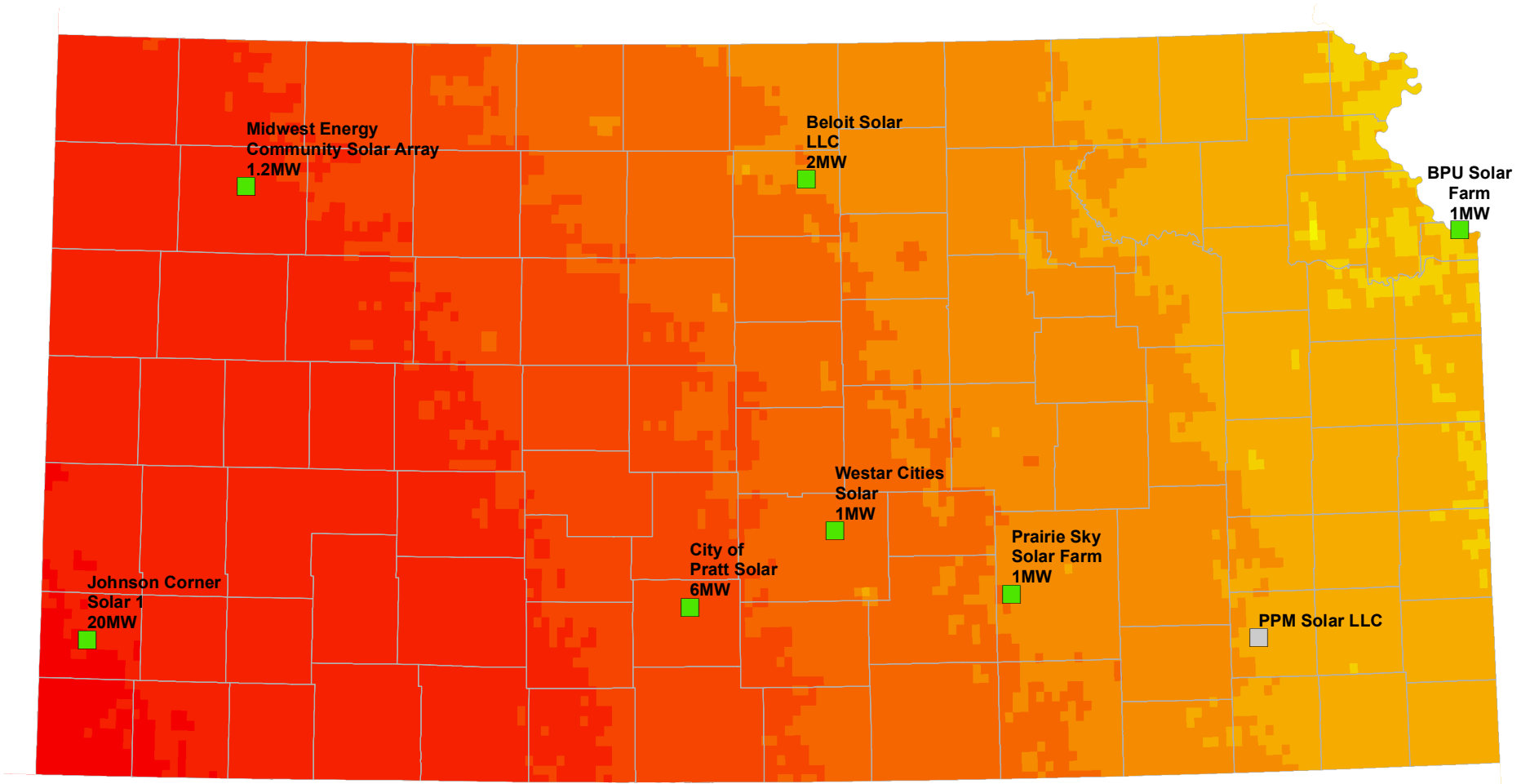


## Wind Resource Potential in the Contiguous United States, 2015



Source: Institute for Policy & Social Research, The University of Kansas; data from the National Renewable Energy Laboratory.

## Solar Farms and Direct Normal Solar Resource in Kansas



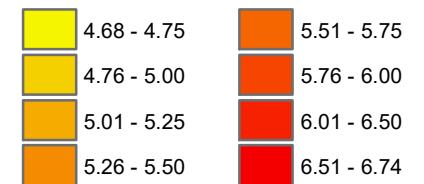
Source: Institute for Policy & Social Research, The University of Kansas; data from the National Renewable Energy Laboratory with solar farm data from the U.S. Energy Information Administration.

MW - megawatts

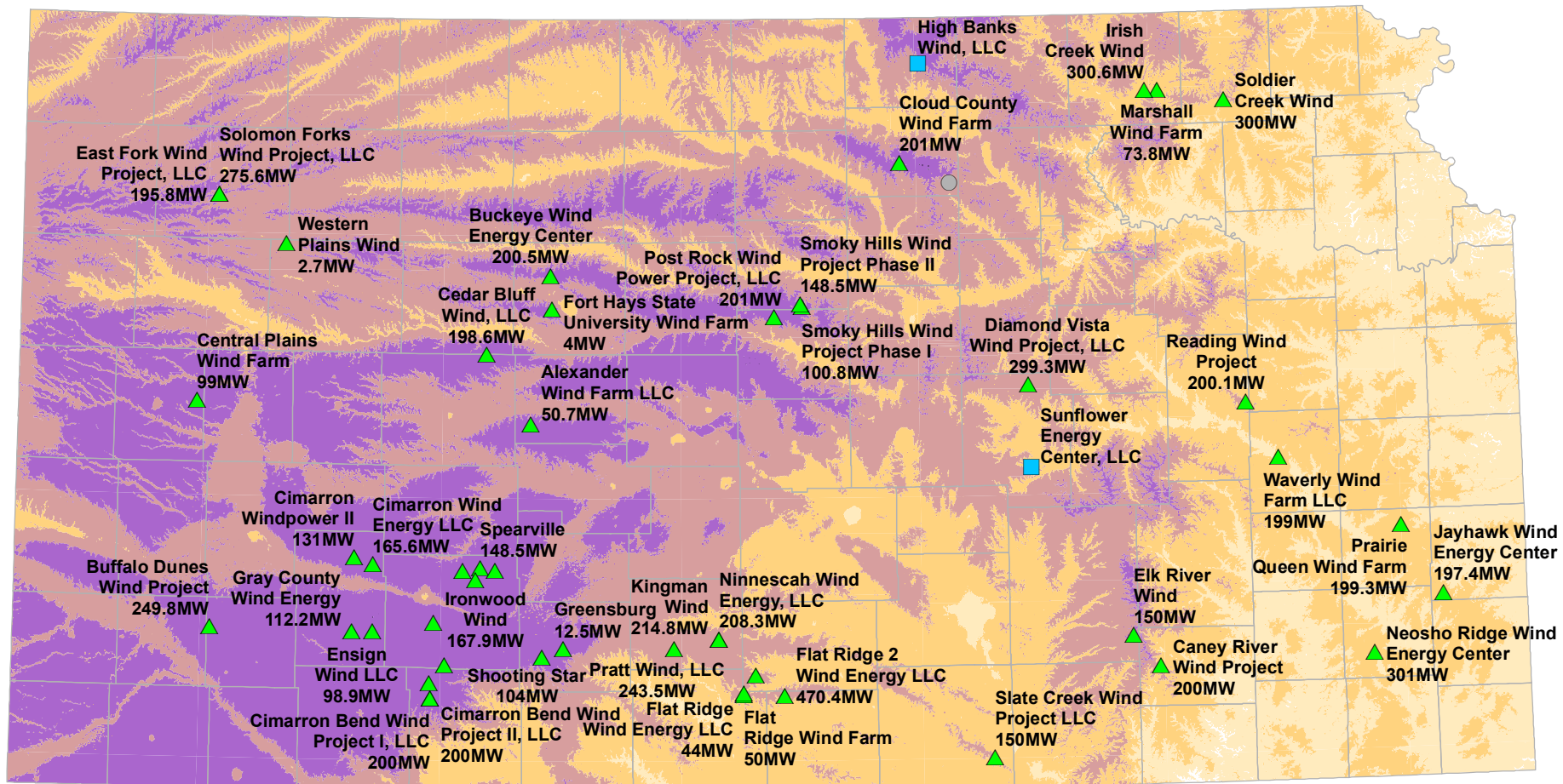
### Kansas Solar Farms (2022)

- Proposed
- Operating (32.2 MW)

### kWh/square meter (1998-2016)



## Wind Farms and Wind Resource Potential in Kansas



Source: Institute for Policy & Social Research, The University of Kansas; data from the National Renewable Energy Laboratory with wind farm data from the U.S. Energy Information Administration.

MW - megawatts

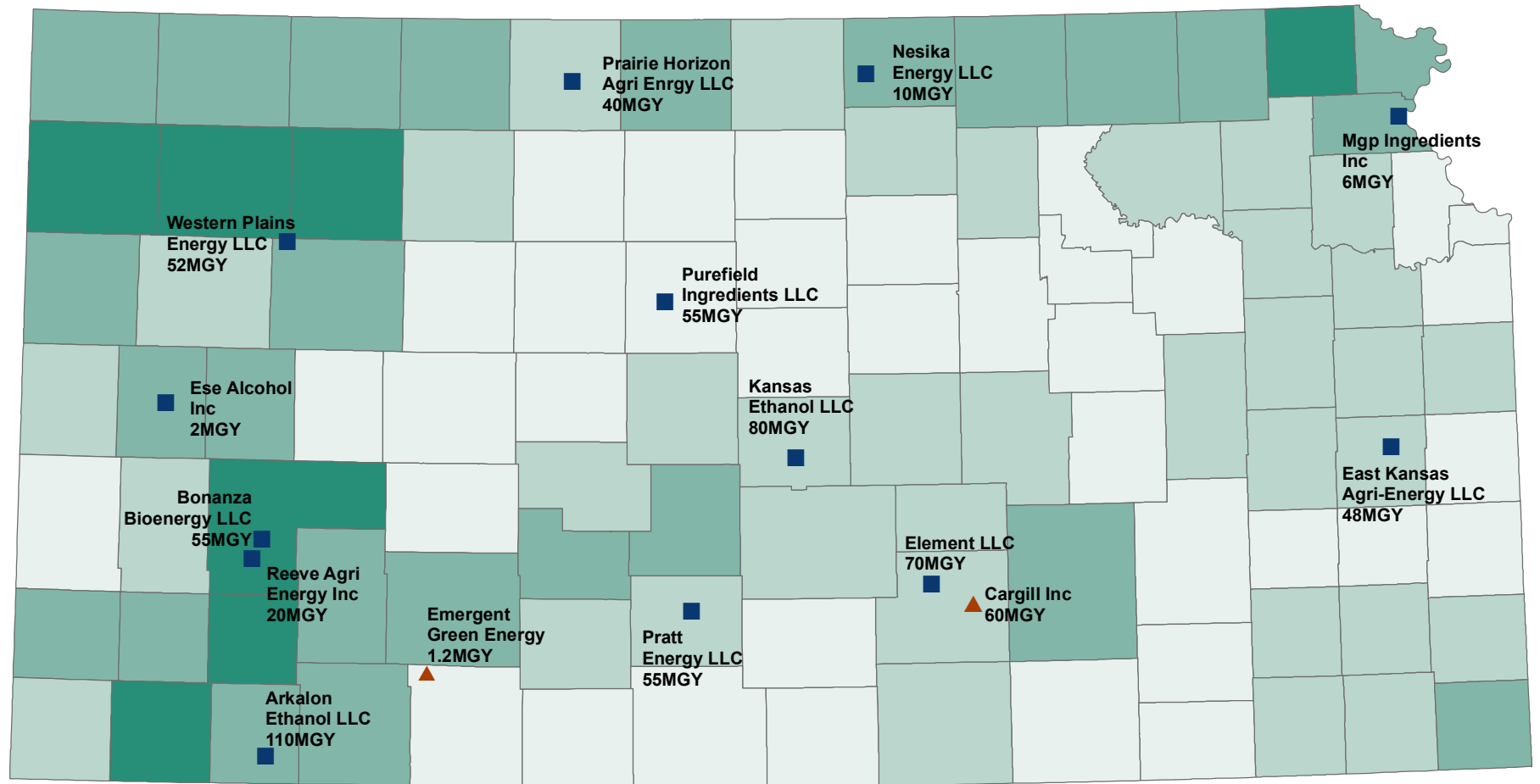
### Kansas Wind Farms (2022)

- ▲ Operating (8,261.3 MW)
- Under Construction
- Proposed

### Wind Power Density at 50m (W/sq. m; 2015)

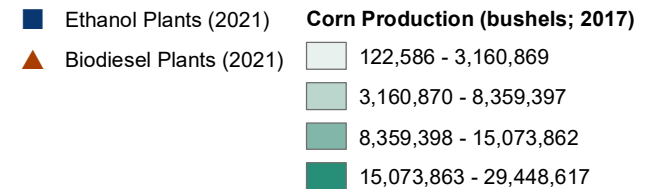
- Poor (0 - 200)
- Marginal (200 - 300)
- Fair (300 - 400)
- Good (400 - 500)
- Excellent (500 - 600)
- Outstanding (600 - 800)

## Ethanol and Biodiesel Plants and Corn Production in Kansas



Source: Institute for Policy & Social Research, The University of Kansas; data from the U.S. Department of Agriculture, 2017 Agricultural Census, U.S. Energy Information Administration.

MGY - millions of gallons per year of permitted capacity





**Nonfuel Raw Mineral Production and Value in Kansas, 2017-2019**

Mineral	2017		2018		2019	
	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
Cement, portland	2,300	\$242,000 e	2,300	\$279,000 e	2,170	\$255,000 e
Gemstones	-	2	-	2	-	2
Salt	2,500	220,000	2,940	236,000	3,190	267,000
Sand and gravel, construction	9,680	60,100	8,510	60,100	8,900	61,800
Stone:						
Crushed	15,600	133,000	14,900	127,000 r	14,400	120,000
Dimension	--	--	--	--	--	--
Combined values of cement (masonry), clay (common clay and fuller's earth), gypsum (crude), helium (crude and Grade-A), pumice and pumicite		--		--		--
<b>Total</b>		<b>\$655,000</b>		<b>\$701,000</b>		<b>\$704,000</b>

Source: U.S. Geological Survey, National Minerals Information Center, <https://www.usgs.gov/centers/national-minerals-information-center/statistical-summary> (accessed July 7, 2023).

Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

Quantity in thousand metric tons.

Data may not sum to totals due to rounding.

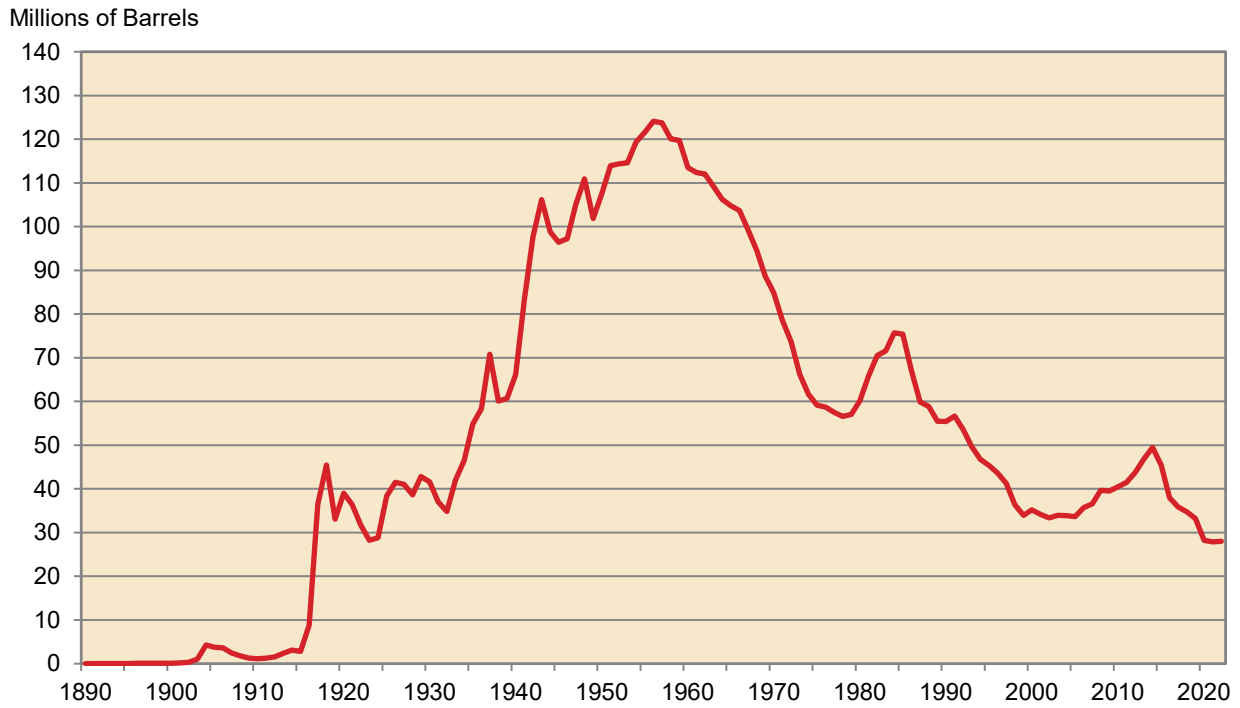
Single dash (-) indicates not available.

Double dash (--) indicates withheld to avoid disclosing company proprietary data.

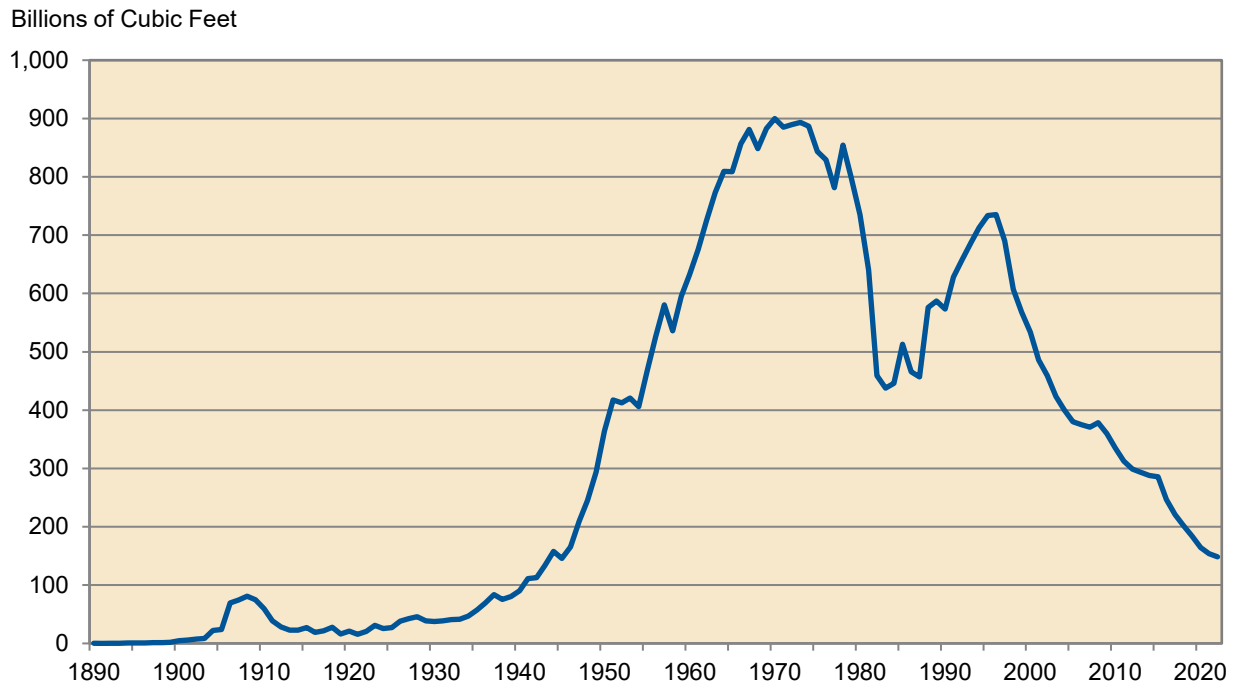
e - estimated

r - revised

## Kansas Oil Production, 1890-2022



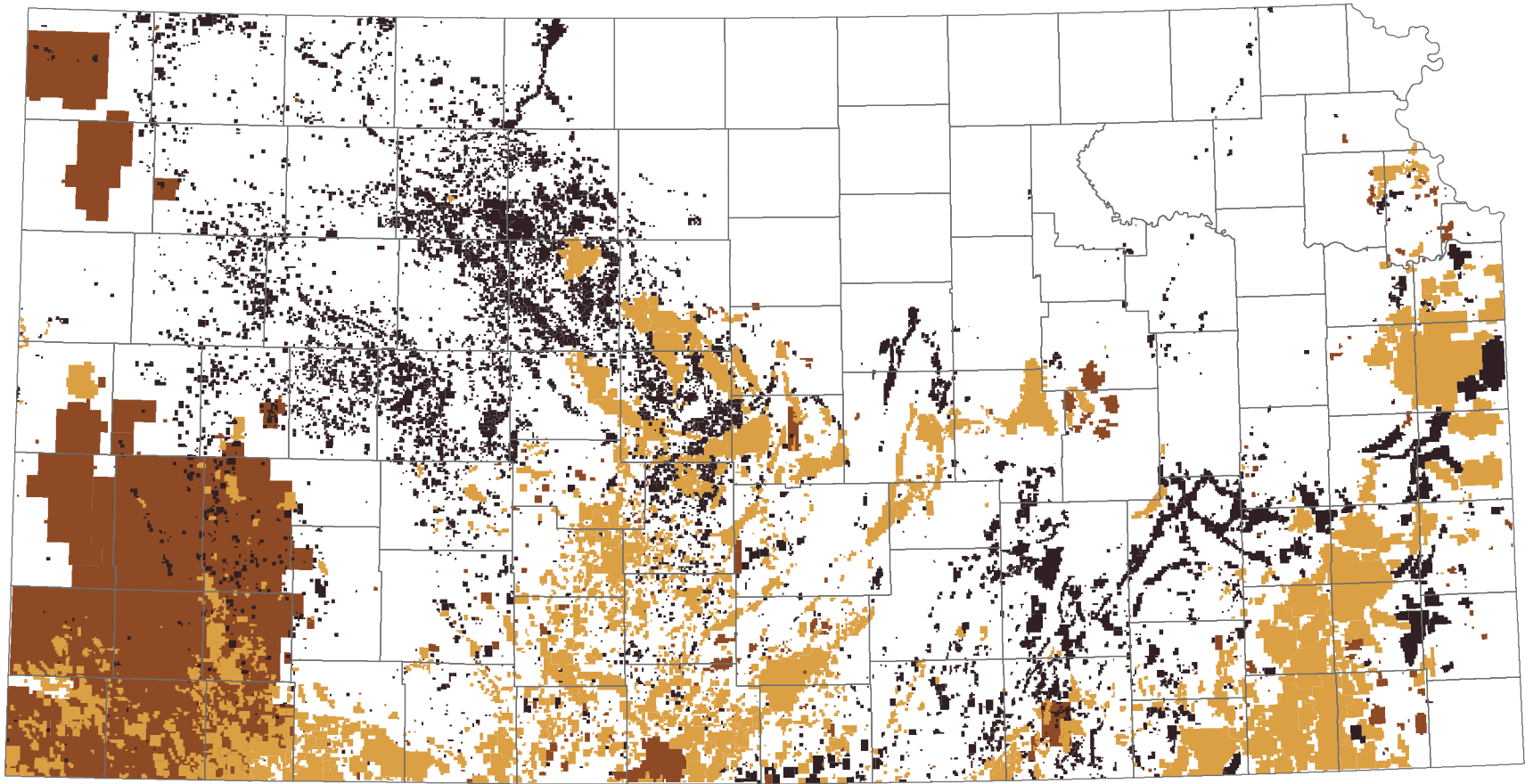
## Kansas Gas Production, 1890-2022



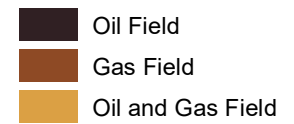
Source: Institute for Policy & Social Research, The University of Kansas; data from Kansas Geological Survey.



## Oil and Gas Fields in Kansas, 2023



Source: Institute for Policy & Social Research, The University of Kansas; data from Kansas Geological Survey.



**Oil and Natural Gas Wells, Production, and Yield in Kansas, 1970-2022**

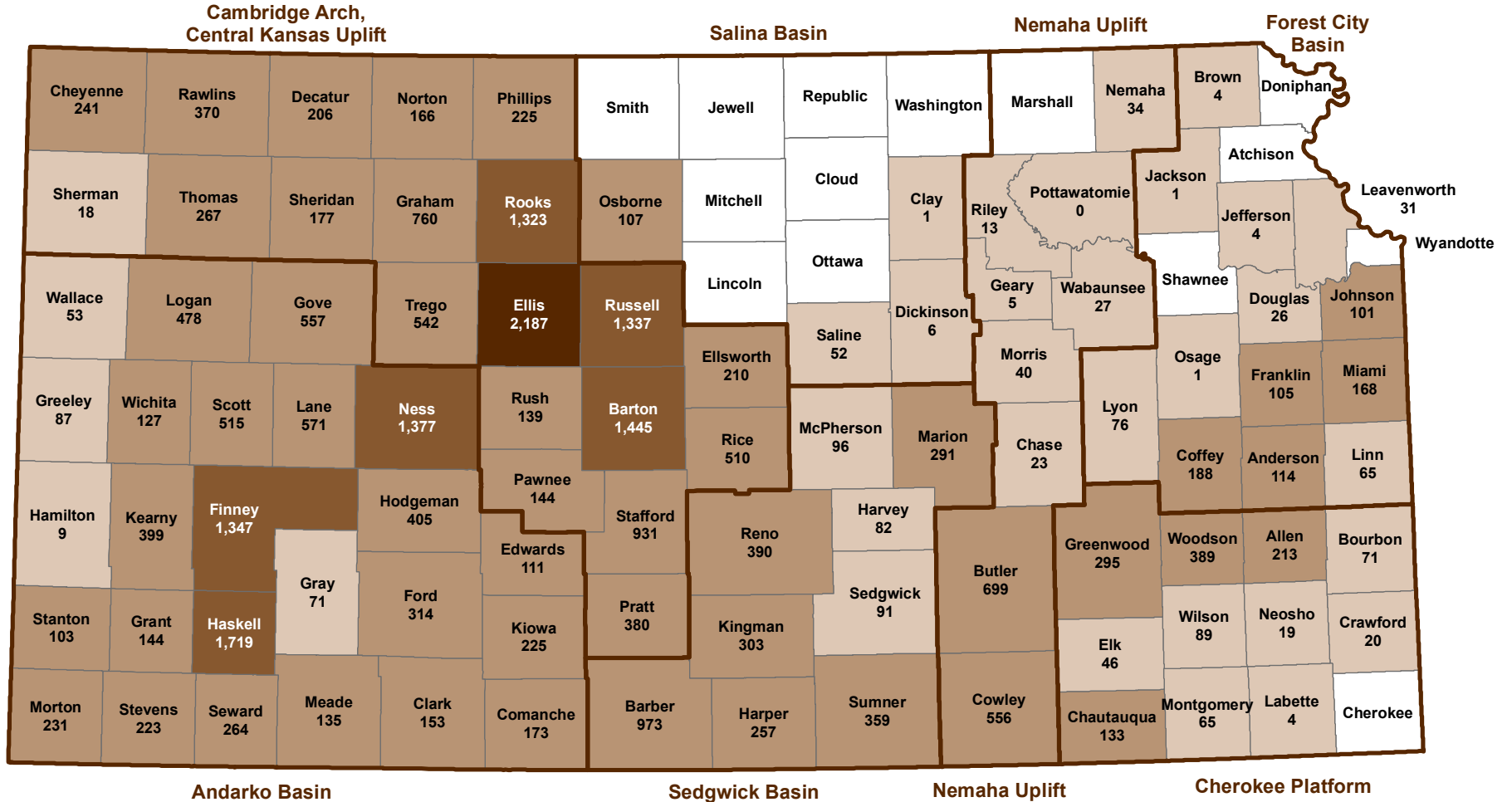
Year	Oil			Natural Gas		
	Wells	Production (barrels)	Average Yield per Well	Wells	Production (mcf)	Average Yield per Well
1970	32,464	85,093,294	2,621	6,745	901,017,449	133,583
1971	31,545	79,412,939	2,517	6,728	886,423,746	131,751
1972	37,752	73,636,921	1,951	6,957	892,081,114	128,228
1973	36,607	66,261,636	1,810	7,185	894,169,338	124,449
1974	36,330	61,700,571	1,698	7,446	894,144,918	120,084
1975	36,340	59,297,898	1,632	7,611	851,820,625	111,920
1976	36,672	58,747,208	1,602	8,098	834,233,705	103,017
1977	37,374	57,491,631	1,538	8,793	787,302,334	89,537
1978	38,321	56,569,006	1,476	9,586	866,684,579	90,411
1979	39,308	56,818,600	1,445	10,179	811,893,757	79,762
1980	41,593	59,871,228	1,439	10,601	693,342,142	65,403
1981	44,802	66,303,488	1,480	11,130	616,823,190	55,420
1982	46,983	70,029,767	1,491	11,405	436,266,789	38,252
1983	48,662	71,694,301	1,473	11,608	438,580,435	37,783
1984	49,941	75,344,118	1,509	11,929	495,818,336	41,564
1985	50,533	75,417,100	1,492	12,284	536,966,087	43,713
1986	49,288	66,838,840	1,356	12,258	475,760,300	38,812
1987	47,898	60,946,596	1,272	12,617	473,446,696	37,525
1988	47,307	58,959,446	1,246	12,974	598,381,354	46,122
1989	46,759	57,328,693	1,226	13,407	614,369,798	45,825
1990	48,187	57,185,549	1,187	13,890	592,739,286	42,674
1991	47,987	58,308,308	1,215	14,319	650,416,612	45,423
1992	47,129	54,718,001	1,161	14,429	659,023,841	45,674
1993	45,263	50,686,281	1,120	14,529	683,493,161	47,043
1994	43,867	48,393,239	1,103	15,062	729,131,362	48,409
1995	42,809	45,367,212	1,060	15,404	733,845,646	47,640
1996	48,988	43,625,594	891	16,572	735,034,582	44,354
1997	46,938	41,289,345	880	16,715	690,383,524	41,303
1998	44,336	36,378,559	821	16,767	606,699,695	36,184
1999	41,305	33,905,125	821	16,765	567,674,531	33,861
2000	42,044	35,174,434	837	17,097	533,658,257	31,214
2001	41,445	34,124,322	823	17,525	486,018,443	27,733
2002	41,283	33,379,679	809	17,883	458,920,155	25,662
2003	41,173	33,972,033	825	18,360	423,509,989	23,067
2004	41,920	33,878,472	808	19,145	400,593,044	20,924
2005	43,012	33,619,258	782	20,211	379,860,310	18,795
2006	43,924	35,669,001	812	22,553	375,433,250	16,647
2007	43,411	36,590,232	843	24,362	370,948,447	15,227
2008	45,128	39,658,170	879	25,613	378,718,724	14,786
2009	45,634	39,472,421	865	25,879	359,644,135	13,897
2010	46,109	40,469,726	878	25,319	334,365,998	13,206
2011	47,164	41,499,072	880	25,203	312,532,496	12,401
2012	49,480	43,750,558	884	24,866	299,051,000	12,027
2013	51,817	46,845,544	904	24,645	293,437,001	11,907
2014	53,628	49,504,847	923	24,764	288,090,641	11,633
2015	53,573	45,467,244	849	24,394	285,916,558	11,721
2016	52,889	37,943,896	717	23,478	246,716,821	10,508
2017	52,768	35,824,866	679	22,761	220,947,327	9,707
2018	52,300	34,715,223	664	22,046	202,175,916	9,171
2019	51,637	33,206,327	643	21,186	184,093,625	8,689
2020	49,497	28,261,450	571	20,402	153,846,970	7,541
2021	48,793	27,890,211	572	19,820	153,846,970	7,762
2022	49,294	28,003,136	568	19,709	148,701,961	7,545

Source: Kansas Geological Survey, <https://www.kgs.ku.edu/PRS/petro/state.html> (accessed July 7, 2023).

mcf - thousand cubic feet

Data revised annually.

# Oil Production in Kansas, by County, 2022

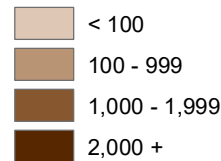


Source: Institute for Policy & Social Research, The University of Kansas; data from Kansas Geological Survey.

Production indicated only for counties reporting drilling activity.

Production in Thousands of Barrels

State: 28,003



**Oil Production and Producing Oil Wells in Kansas, by County, 2020-2022**

County	Oil Production (barrels)			Number of Producing Oil Wells		
	2020r	2021r	2022	2020r	2021r	2022
Allen	204,642	201,483	212,620	2,238	2,238	2,380
Anderson	120,497	112,378	114,242	1,881	1,846	1,750
Barber	546,747	611,543	973,488	1,304	1,235	1,220
Barton	1,386,391	1,386,604	1,444,742	1,872	1,837	1,841
Bourbon	52,617	59,012	70,613	632	700	744
Brown	6,046	4,405	4,211	9	9	8
Butler	684,680	689,732	699,124	1,208	1,189	1,194
Chase	26,094	23,133	22,658	69	66	57
Chautauqua	143,222	136,840	133,280	968	1,045	1,063
Cheyenne	278,586	258,215	240,688	110	111	121
Clark	139,208	163,191	152,755	97	104	105
Clay	2,672	1,086	1,145	7	3	6
Coffey	201,120	185,593	187,710	1,513	1,520	1,547
Comanche	155,281	160,698	173,400	199	196	202
Cowley	502,081	536,670	556,462	687	712	728
Crawford	18,494	22,862	20,124	596	617	632
Decatur	169,009	191,514	205,926	177	170	165
Dickinson	4,290	5,238	5,608	25	21	24
Douglas	26,881	24,300	26,000	349	341	389
Edwards	118,696	120,875	110,744	186	203	176
Elk	47,486	48,535	46,225	242	225	242
Ellis	2,192,396	2,223,135	2,187,152	2,538	2,509	2,547
Ellsworth	210,098	205,519	209,533	315	312	320
Finney	1,473,946	1,373,644	1,347,274	545	550	560
Ford	383,410	345,322	314,294	115	117	117
Franklin	104,470	102,608	105,418	2,056	1,973	2,042
Geary	6,414	5,301	5,079	9	1	9
Gove	519,798	480,883	557,185	428	421	422
Graham	719,989	745,932	759,834	921	859	861
Grant	227,631	180,731	144,230	56	55	57
Gray	91,799	84,420	71,129	68	71	71
Greeley	84,525	83,508	87,191	42	42	41
Greenwood	317,354	303,523	295,185	1,271	1,218	1,180
Hamilton	12,133	11,548	8,840	3	3	3
Harper	321,973	296,939	257,388	496	467	454
Harvey	86,595	84,950	82,218	111	114	118
Haskell	2,031,723	1,830,945	1,718,689	487	497	488
Hodgeman	425,697	410,880	404,623	264	253	260
Jackson	1,130	1,334	1,131	7	7	5
Jefferson	6,615	4,543	3,833	64	55	50
Johnson	107,717	108,954	101,285	1,008	1,000	1,016
Kearny	341,179	415,725	399,166	101	111	108
Kingman	310,520	304,432	302,846	548	513	517
Kiowa	229,682	224,136	225,037	236	251	241
Labette	4,339	3,134	4,262	81	92	75
Lane	541,742	576,096	570,569	386	389	389
Leavenworth	37,729	35,223	31,131	184	165	125
Linn	70,412	63,749	64,537	1,031	940	986
Logan	563,869	516,241	477,512	357	350	401
Lyon	59,550	64,893	76,353	85	95	90
McPherson	275,804	285,039	291,234	538	523	527
Marion	94,495	98,648	95,582	259	226	211
Meade	156,944	146,409	135,490	134	134	134
Miami	171,585	162,941	168,471	2,496	2,517	2,501
Montgomery	55,991	58,867	64,704	1,035	1,002	1,027

**Oil Production and Producing Oil Wells in Kansas, by County, 2020-2022**

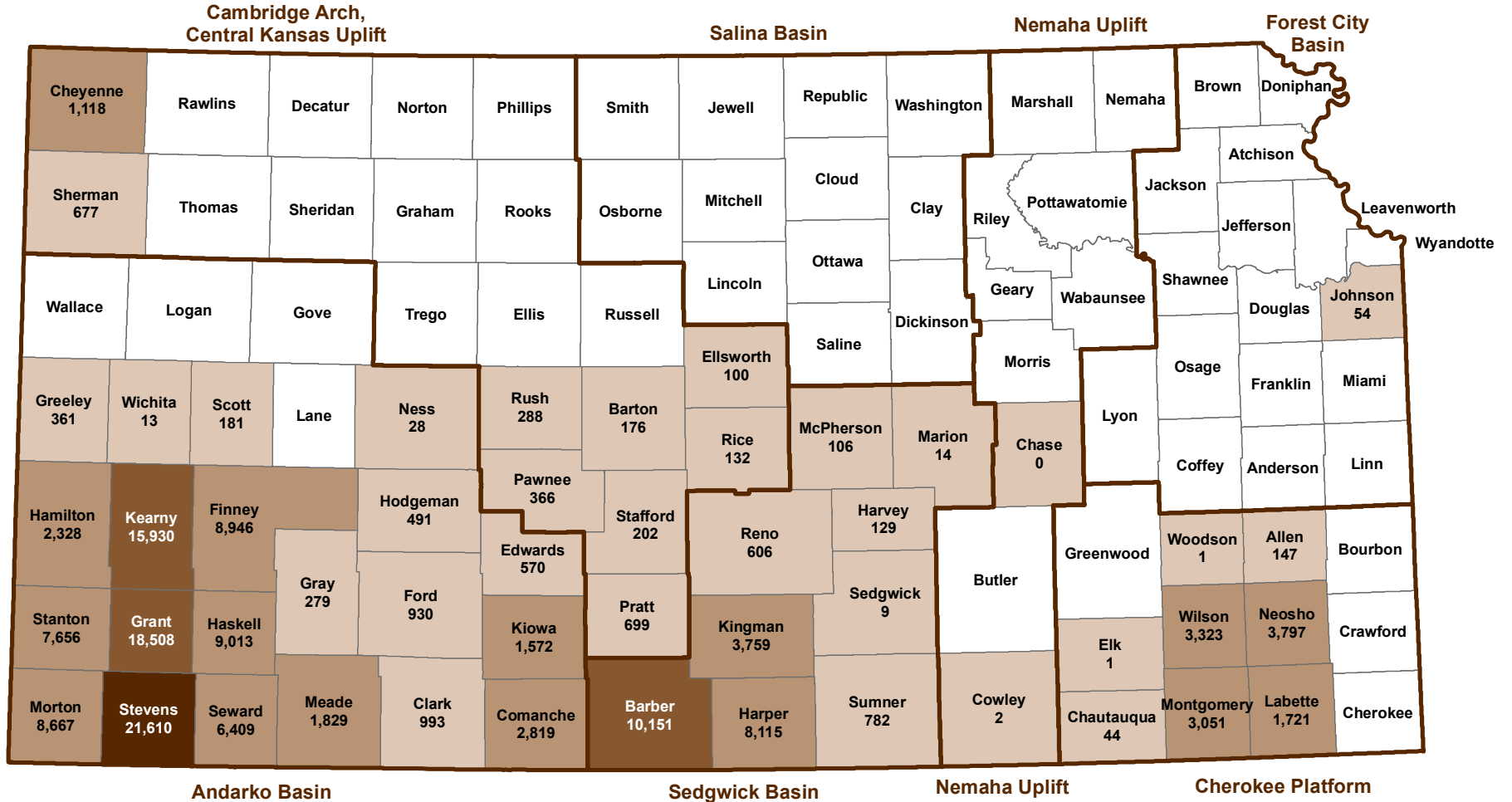
County	Oil Production (barrels)			Number of Producing Oil Wells		
	2020r	2021r	2022	2020r	2021r	2022
Morris	38,815	38,668	39,730	84	80	73
Morton	264,326	248,629	230,658	119	117	113
Nemaha	35,159	38,328	33,788	22	23	22
Neosho	25,425	20,931	18,997	668	653	660
Ness	1,196,316	1,178,745	1,376,580	1,082	1,113	1,141
Norton	148,269	156,811	166,348	154	154	151
Osage	1,275	1,324	941	4	4	4
Osborne	108,777	111,588	106,645	127	129	129
Pawnee	176,325	167,579	144,227	155	156	153
Phillips	205,270	214,908	224,613	319	311	306
Pottawatomie	-	-	313	-	-	1
Pratt	334,316	446,164	380,221	437	441	455
Rawlins	297,510	330,388	370,117	234	225	227
Reno	414,089	398,511	390,355	355	351	352
Rice	500,073	522,543	509,855	870	868	859
Riley	12,022	12,239	13,234	31	28	29
Rooks	1,351,266	1,359,413	1,323,402	1,581	1,592	1,562
Rush	155,530	143,540	138,993	208	197	183
Russell	1,315,124	1,335,030	1,336,992	1,916	1,866	1,840
Saline	48,076	50,274	52,399	93	104	99
Scott	435,915	462,354	514,785	298	288	349
Sedgwick	98,374	94,739	91,175	114	112	110
Seward	275,331	283,938	263,902	190	179	188
Sheridan	172,041	172,711	176,815	129	135	139
Sherman	34,274	23,627	18,216	12	13	10
Stafford	910,712	916,108	930,834	1,125	1,118	1,136
Stanton	108,782	114,667	103,259	92	83	80
Stevens	229,860	220,849	223,497	108	100	113
Sumner	311,160	317,611	358,508	469	450	463
Thomas	563,903	353,461	266,749	180	173	167
Trego	647,531	655,915	542,131	648	651	665
Wabaunsee	22,891	21,757	26,929	32	29	27
Wallace	87,070	66,099	53,369	36	35	35
Wichita	158,519	149,054	126,703	76	74	69
Wilson	77,121	72,261	88,535	1,091	851	1,025
Woodson	424,755	405,399	389,160	3,794	3,870	3,812
<b>Total</b>	<b>28,260,196</b>	<b>27,890,222</b>	<b>28,003,145</b>	<b>49,497</b>	<b>48,793</b>	<b>49,294</b>

Source: Kansas Geological Survey, Oil and Gas Production in Kansas, Statewide Production Data, <https://www.kgs.ku.edu/PRS/petro/state.html> (accessed July 7, 2023).

Only counties reporting drilling activity listed.

r - revised

# Gas Production in Kansas, by County, 2022

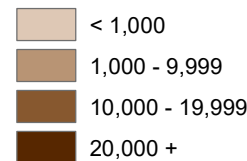


Source: Institute for Policy & Social Research, The University of Kansas; data from Kansas Geological Survey.

Production indicated only for counties reporting drilling activity.

Production in Million Cubic Feet

State: 148,701



**Gas Production and Producing Gas Wells in Kansas, by County, 2020-2022**

County	Gas Production (thousands cubic feet)			Number of Producing Gas Wells		
	2020r	2021r	2022	2020r	2021r	2022
Allen	131,597	139,287	147,088	83	83	83
Barber	10,237,306	9,978,524	10,151,458	1,363	1,309	1,308
Barton	167,059	164,579	176,073	19	17	19
Chase	29,961	18,949	260	81	50	27
Chautauqua	58,868	46,235	44,185	34	17	16
Cheyenne	1,418,309	1,254,972	1,118,347	539	538	563
Clark	978,557	1,024,584	992,716	151	155	144
Comanche	2,265,673	2,644,010	2,818,729	308	292	314
Cowley	2,508	2,906	2,474	1	1	1
Edwards	576,865	512,381	569,631	111	96	105
Elk	-	1,332	615	-	1	1
Ellsworth	73,067	79,590	100,239	15	13	13
Finney	9,906,377	9,268,830	8,946,417	1,137	1,086	1,071
Ford	984,846	874,995	930,156	51	54	60
Grant	20,550,728	19,541,986	18,507,948	1,752	1,759	1,762
Gray	357,746	250,982	278,553	19	23	19
Greeley	239,205	317,391	361,482	72	62	65
Hamilton	2,357,831	2,357,516	2,327,641	260	263	270
Harper	9,430,623	8,151,943	8,114,815	579	563	558
Harvey	134,371	130,010	128,545	25	23	24
Haskell	10,659,438	9,820,034	9,012,930	1,160	1,140	1,139
Hodgeman	596,951	513,351	490,763	19	19	19
Johnson	48,228	49,796	54,026	35	35	35
Kearny	17,412,477	16,423,199	15,930,040	1,652	1,625	1,628
Kingman	3,715,934	3,744,181	3,759,492	611	592	615
Kiowa	1,667,203	1,577,495	1,572,389	157	141	156
Labette	1,812,798	1,687,058	1,720,631	502	489	500
McPherson	22,585	21,615	13,795	6	6	5
Marion	112,069	106,454	106,141	167	140	135
Meade	2,021,170	1,904,971	1,828,536	263	261	265
Montgomery	3,781,603	3,225,824	3,051,085	1,133	950	924
Morton	10,016,998	9,290,296	8,667,454	1,089	1,064	1,050
Neosho	4,567,086	4,098,382	3,796,519	1,048	1,015	1,005
Ness	18,633	23,285	28,342	2	2	2
Pawnee	406,870	372,259	366,101	79	75	71
Pratt	417,536	624,185	699,217	181	166	171
Reno	692,076	639,507	605,935	118	116	121
Rice	107,701	104,218	131,570	24	26	36
Rush	320,636	317,281	287,561	68	65	64
Scott	67,945	82,683	180,737	10	10	9
Sedgwick	16,390	11,115	9,021	4	4	3
Seward	7,436,106	6,845,379	6,408,635	934	901	880
Sherman	705,576	690,172	676,880	235	235	236
Stafford	153,710	178,756	201,949	53	55	56
Stanton	8,520,337	7,907,094	7,656,448	807	801	801
Stevens	24,305,615	22,807,084	21,610,317	2,084	2,059	2,058
Sumner	636,479	510,384	781,811	48	40	43
Wichita	37,411	23,661	12,569	4	4	2
Wilson	4,052,783	3,485,509	3,322,921	1,306	1,378	1,256
Woodson	608	740	774	1	1	1
<b>Total</b>	<b>164,232,449</b>	<b>153,846,970</b>	<b>148,701,961</b>	<b>20,400</b>	<b>19,820</b>	<b>19,709</b>

Source: Kansas Geological Survey, Oil and Gas Production in Kansas, Statewide Production Data, <https://www.kgs.ku.edu/PRS/petro/state.html> (accessed July 7, 2023).

Only counties reporting drilling activity listed.

r - revised

Single dash (-) indicates not reported.