



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

2016 Annual Report on Oil and Gas Activities

**State Oil and Gas Council Meeting
April 12, 2017**

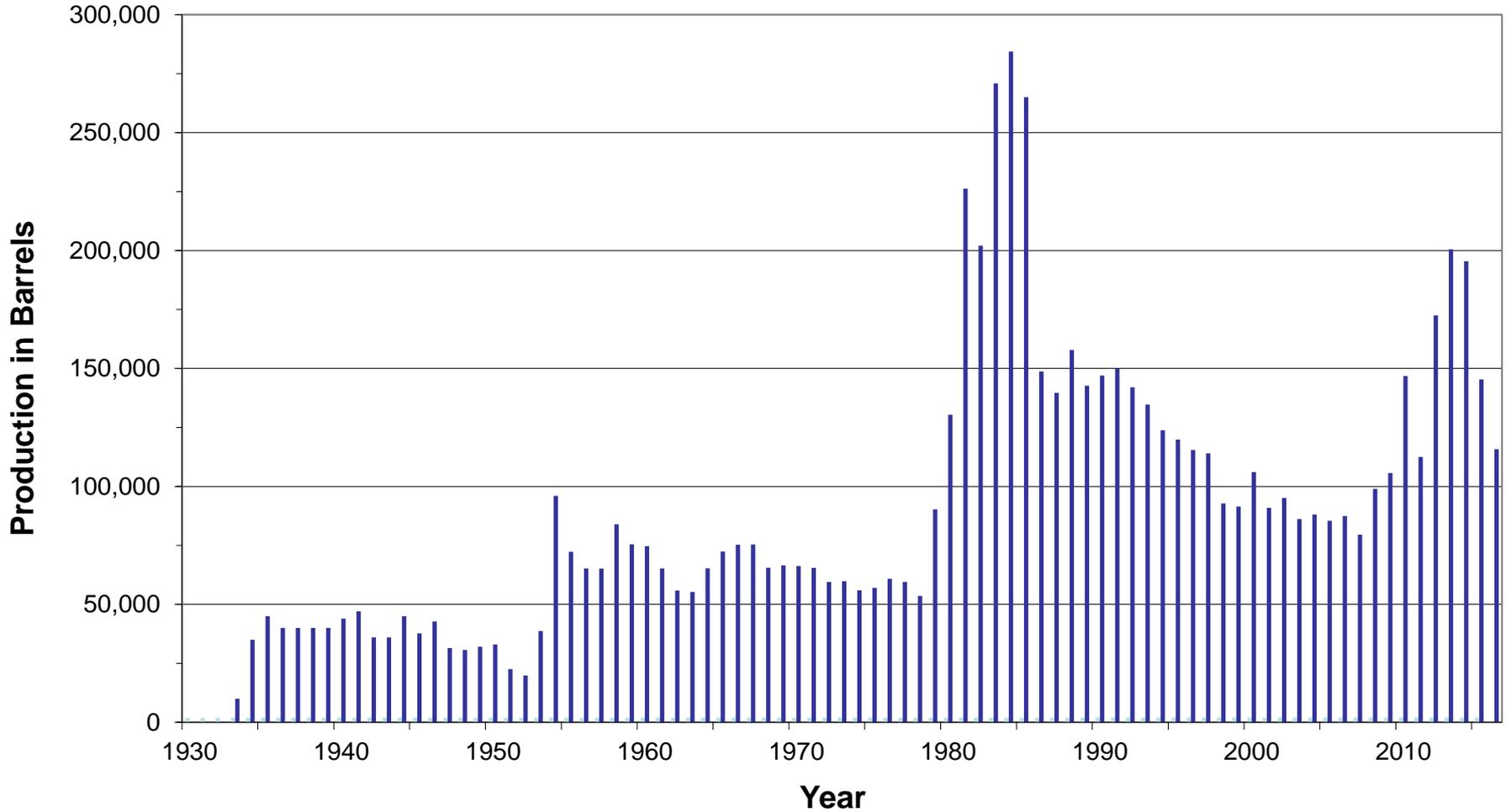
Oil Production in 2016

- **559** active producing oil wells in 2016
- **115,765** barrels of oil produced
- Valued at about **\$3.8 million**
- Price per barrel ranged **\$17.13 – \$43.14**
- Currently produced in **5** counties
- **23** companies operated in 2016
 - Currently **16** producing companies

Average Price for Missouri Oil

- Average price per barrel in 2016 - \$32.77
(↓~14%) (ranging from \$17.13 to \$48.14)
- Average price per barrel in 2015 - \$38.71
(↓~47%) (ranging from \$24.00 to \$53.30)
- Average price per barrel in 2014 - \$82.38
(↓~7%) (ranging from \$45.50 to \$98.20)
- Average price per barrel in 2013 - \$86.82
(↑~6%) (ranging from \$75.74 to \$91.32)
- Average price per barrel in 2012 - \$83.22
(↓~4%) (ranging from \$69.07 to \$94.22)

Historic Oil Production

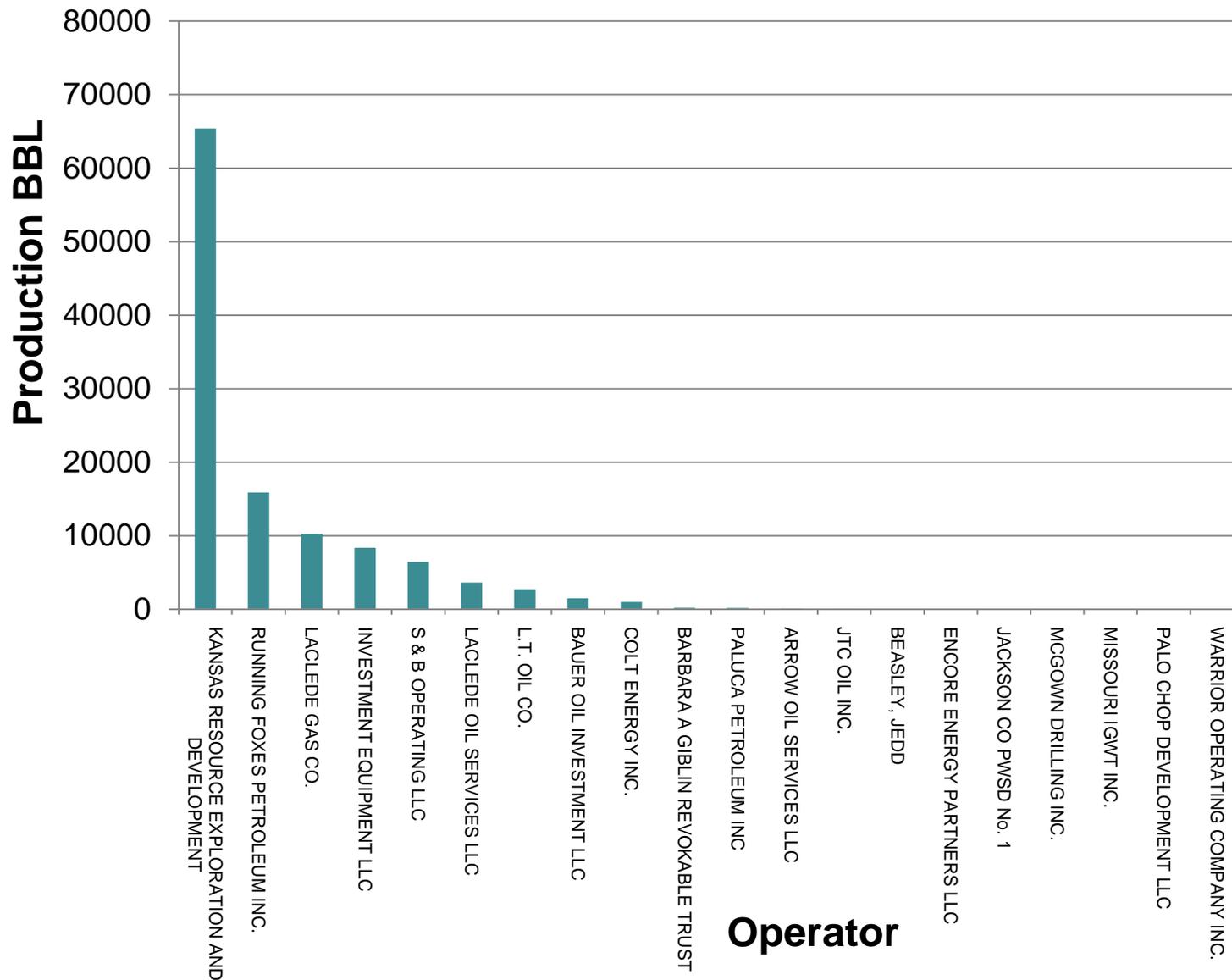


2016 Crude Oil Production by Operator

Operator	BBLs of Oil	Percent of Total Production
KANSAS RESOURCE EXPLORATION AND DEVELOPMENT	65,598	56.49
RUNNING FOXES PETROLEUM INC.	15,894	13.73
LACLEDE GAS CO.	10,297	8.9
INVESTMENT EQUIPMENT LLC	8,366	7.23
S & B OPERATING LLC	6,458	5.58
LACLEDE OIL SERVICES LLC	3,641	3.15
L.T. OIL CO.	2,725	2.35
BAUER OIL INVESTMENT LLC	1,497	1.29
COLT ENERGY INC.	1,001	0.87
BARBARA A GIBLIN REVOKABLE TRUST	201	0.17
PALUCA PETROLEUM	189	0.16
ARROW OIL SERVICES LLC	73	0.06
JTC OIL INC.	20	0.02
BEASLEY, JEDD	0	0
ENCORE ENERGY PARTNERS LLC	0	0
MISSOURI IGWT INC	0	0
PALO CHOP DEVELOPMENT	0	0
MC GOWN DRILLING INC.	0	0
WARRIOR OPERATING COMPANY INC.	0	0

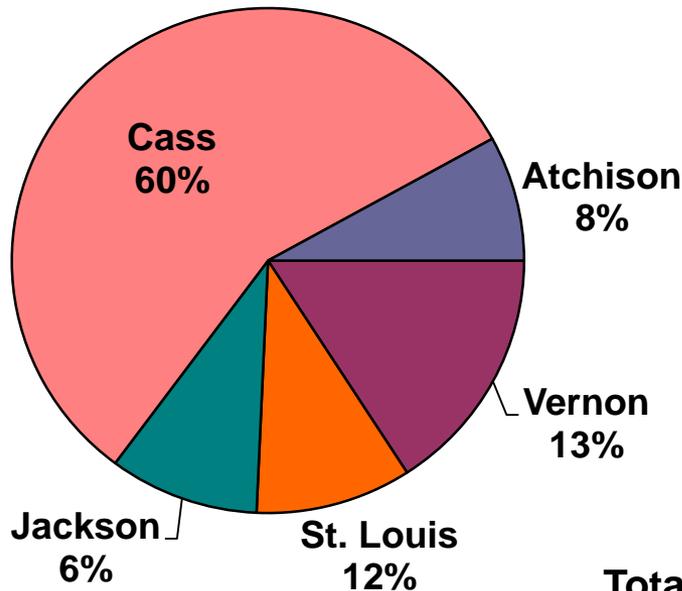
2016 Total Crude Oil Production – 115,765 bbls

2016 Crude Oil Production by Operator



2016 Oil Producing Counties

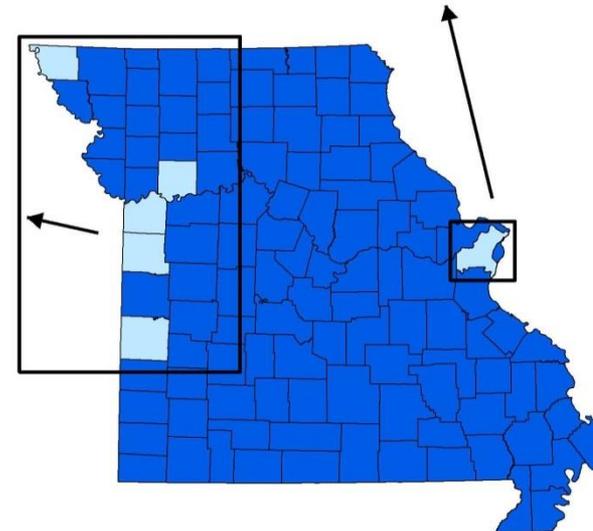
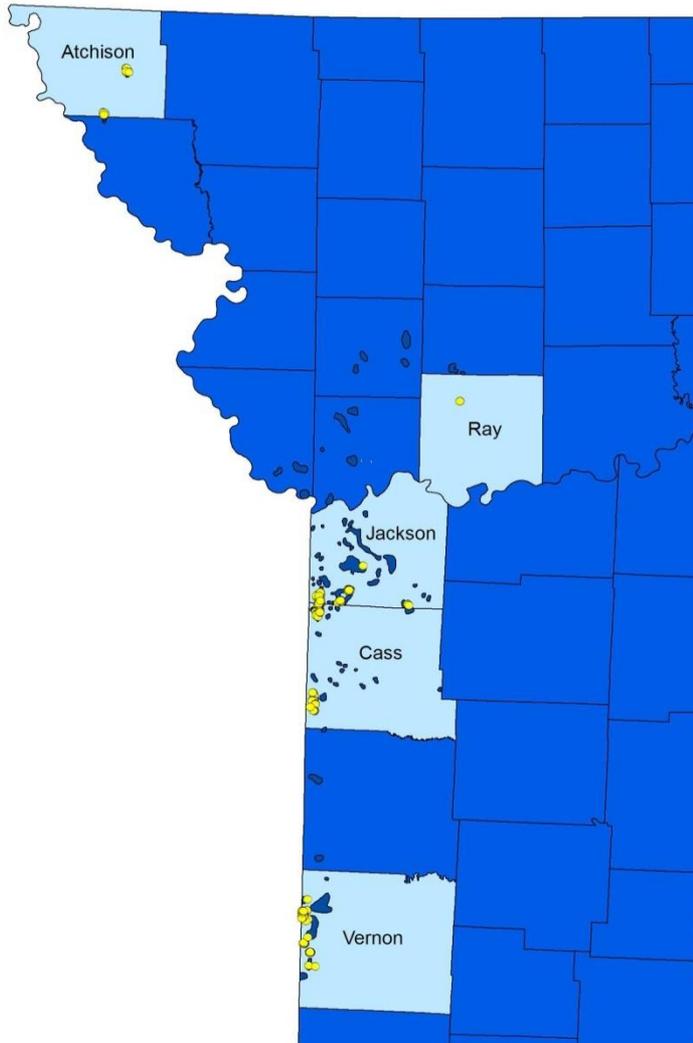
County	BBLs of Oil	Oil Production Value (\$)
Atchison	9,682	\$ 290,924
Cass	70,203	\$ 2,365,947
Clinton	0	0
Jackson	7,099	\$ 228,712
Ray	0	0
St. Louis	13,939	\$ 510,166
Vernon	14,840	\$ 439,896

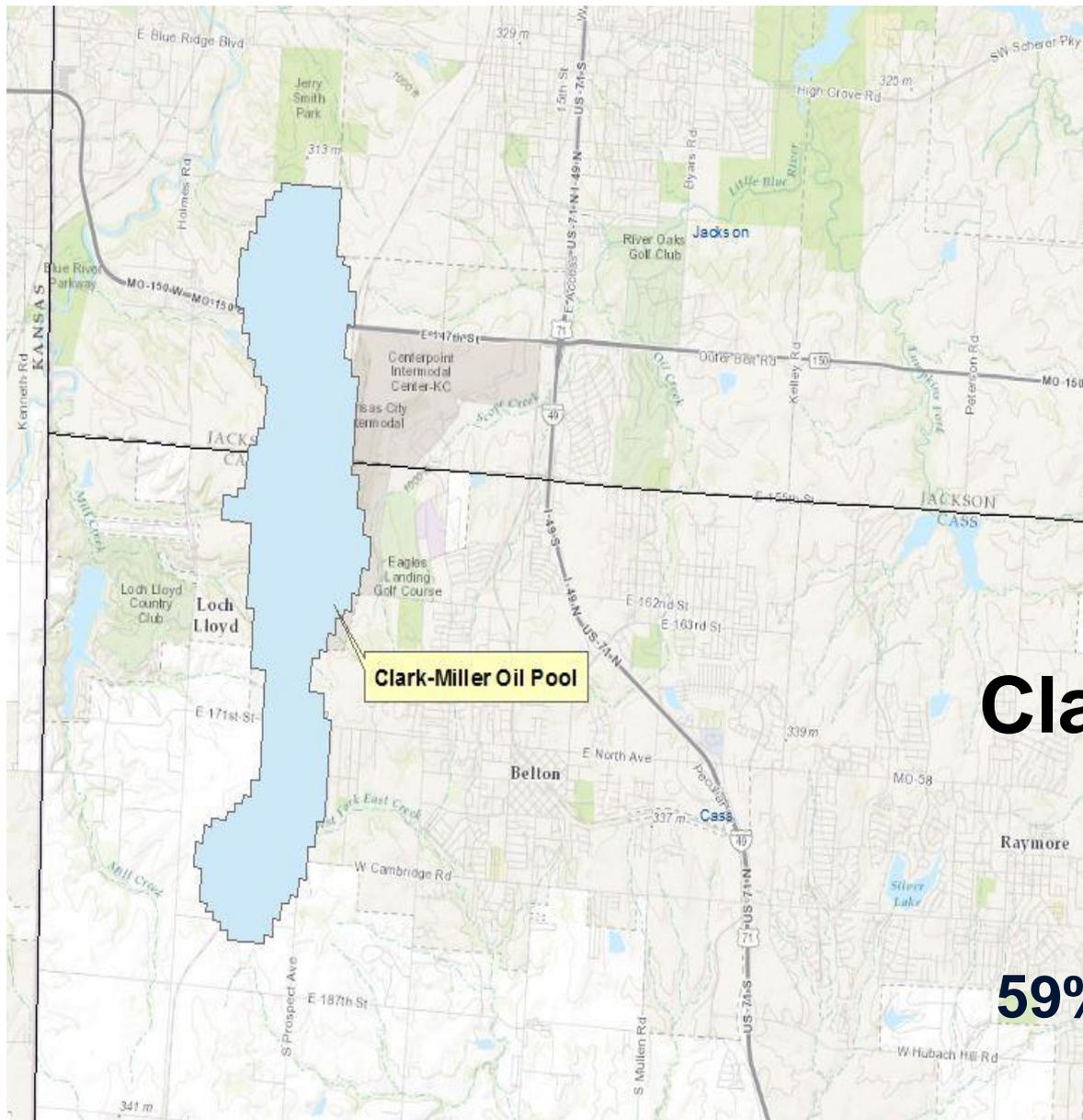


Total Production 115,765 bbls

Total Value \$3.84 Million

Oil Producing Counties and Known Fields





Cass Co.

Missouri's Top Oil
Producing County

70,204 bbls

60% of the total oil
produced in Missouri

Clark-Miller Oil Pool

Missouri's Top
Oil Producing Pool

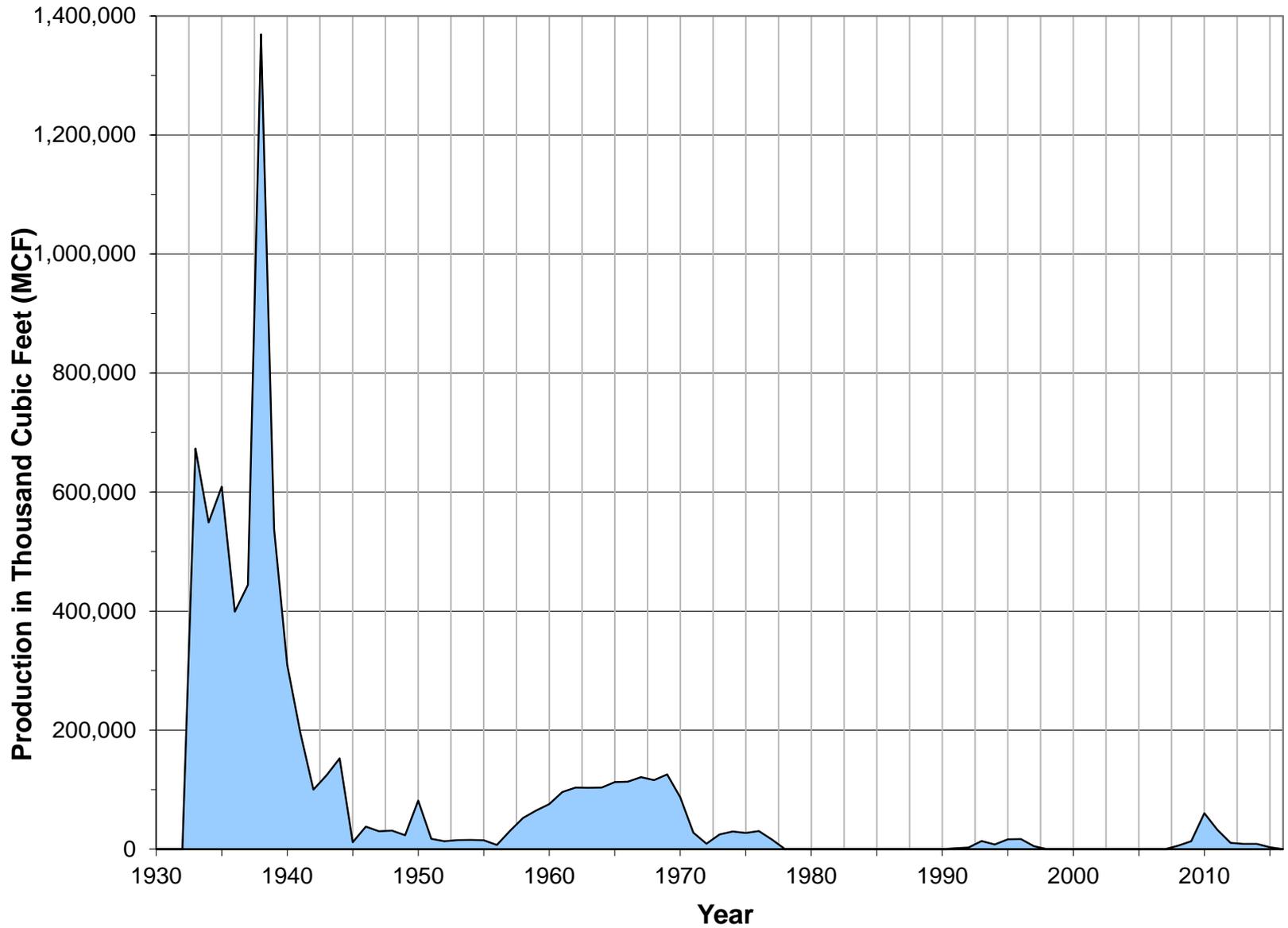
68,706 bbls

59% of total oil produced in
Missouri

Commercial Gas Production

- **14** active producing commercial gas wells in 2016
- More than **1,090 MCF** of gas produced
- Valued at over - **None Sold**
- Price per MCF averaged - **None Sold**
- **0%** in Vernon County, **0%** in Clinton
- **1** active companies – Giving to homeowners
- **0** inactive companies

Historic Commercial Gas Production



Missouri's Private Gas Wells

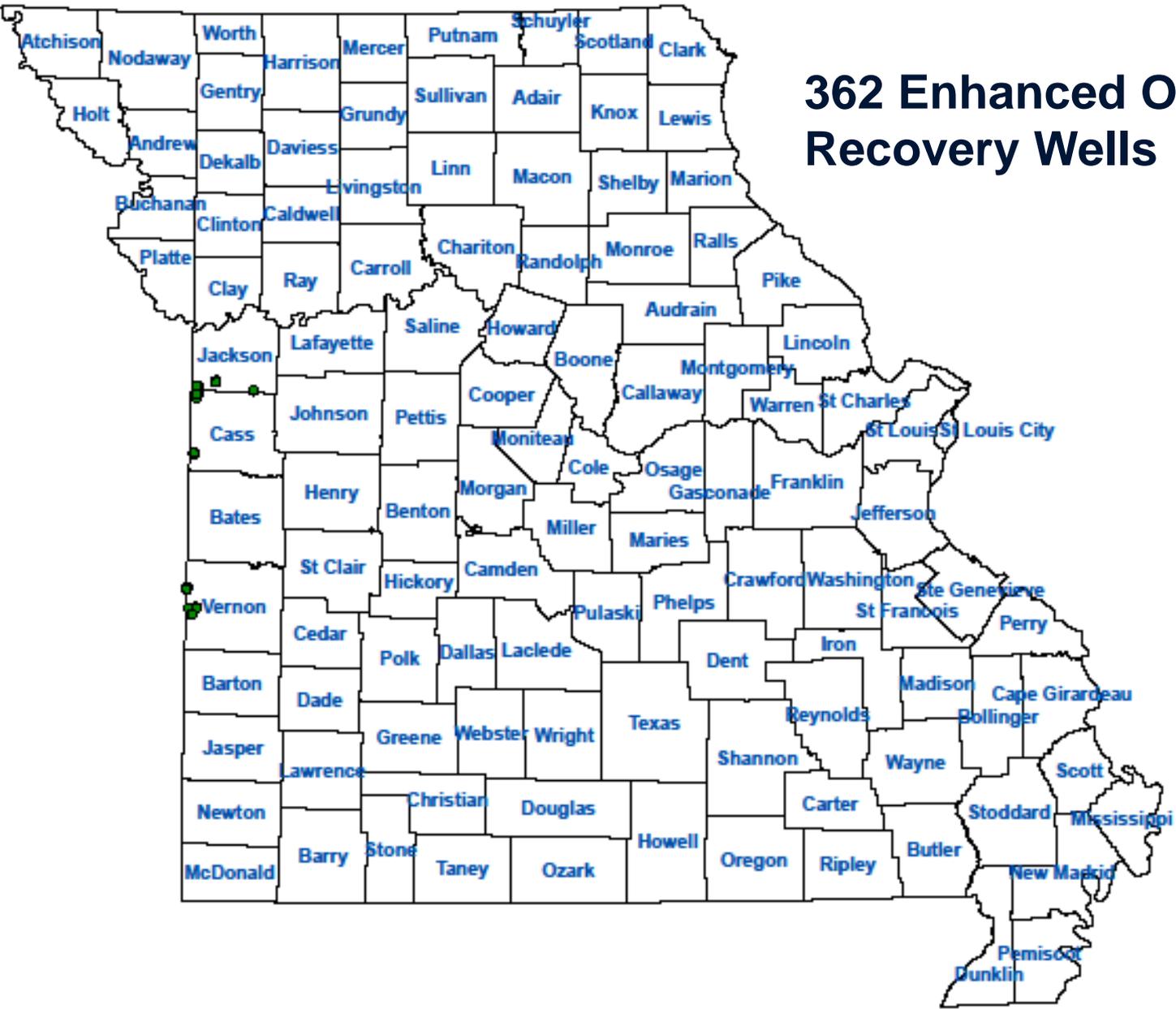
- **462** private gas wells
- **57** are active
 - **39** are in Cass County
- Six (**6**) counties have Active private gas wells
 - Cass, Caldwell, Clay, Clinton, Jackson and Platte
- Production reporting is exempted



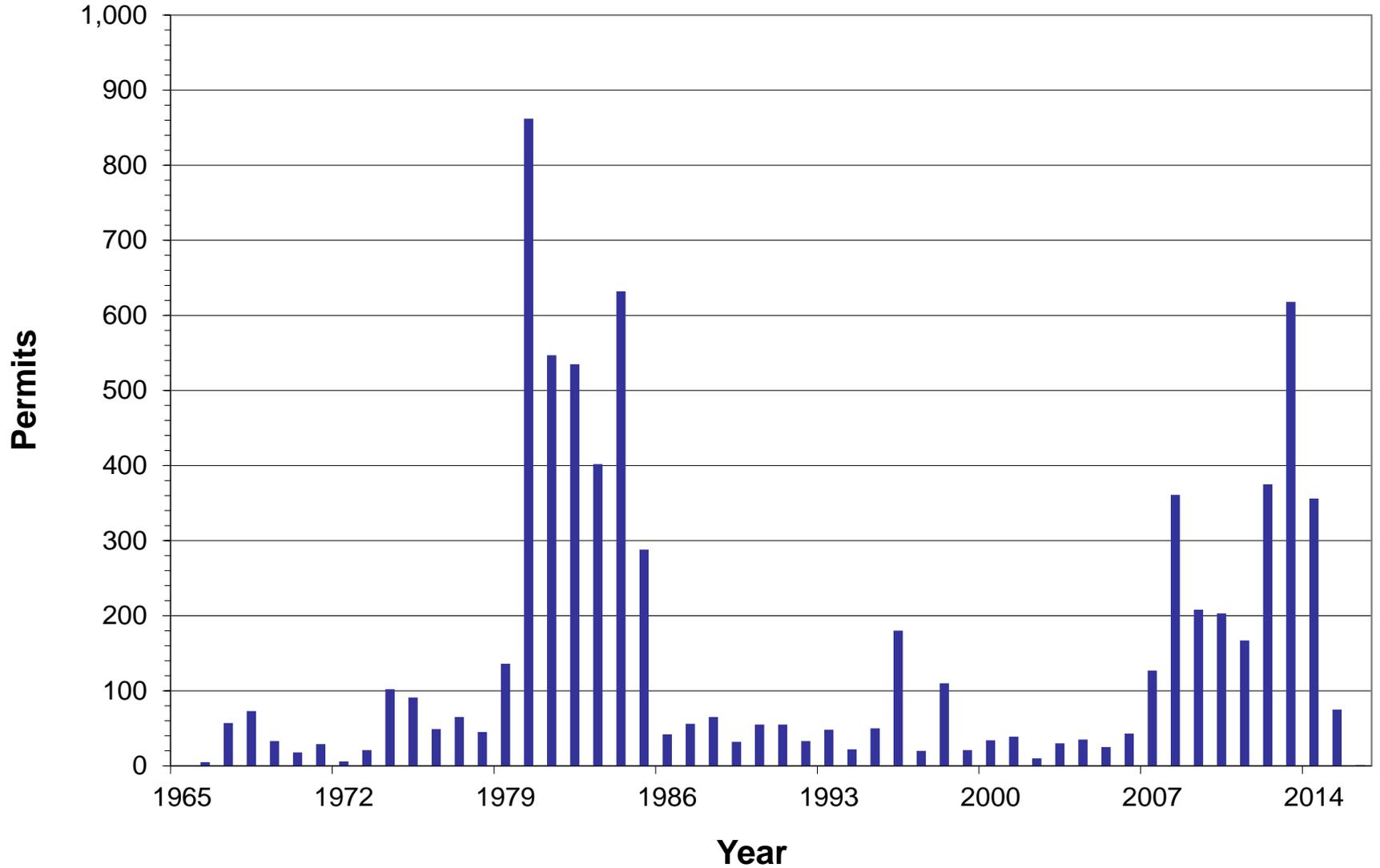
Class II Injection Wells

- Wells that inject fluids in connection with oil/gas production
 - Disposal of produced salt water
 - Injection of fluids for enhance recovery
- Missouri has Active **372** Class II wells
 - (**488** active wells in 2015)
 - Saline Water Disposal – **10**
 - Enhanced Oil Recovery – **362**
 - Abandoned Class II wells – **63**

362 Enhanced Oil Recovery Wells



Historic Permitting



2016 Well Permits by Type

Well Type	Total	Active	Under Construction	Shut-in	Temporarily Abandoned	Plugged	Cancelled
Oil Production	0	0	0	0	0	0	0
Injection EOR	0	0	0	0	0	0	0
Injection SWD	0	0	0	0	0	0	0
Stratigraphic Test	0	0	0	0	0	0	0
Observation	0	0	0	0	0	0	0
Private Gas	1	1	0	0	0	0	0
Commercial Gas	0	0	0	0	0	0	0
Area Permits	0	0	0	0	0	0	0
Total	1	1	0	0	0	0	0

Wells Plugged

(oil/gas/injection/stratigraphic test)

2011	Wells Plugged	34
2012	Wells Plugged	44
2013	Wells Plugged	348
2014	Wells Plugged	354
2015	Wells Plugged	139
2016	Wells Plugged	129

2016 Mechanical Integrity Tests and Lease Visits

- MITs were performed on **26** wells
- Well Inspections performed **233**
- MGS staff witnessed **0** (0%) of all MITs conducted
- **51** lease visits were performed
- Prepped and plugged **0** abandoned wells with Oil and Gas remedial funds
- Responded to more than **1,090** oil/gas phone calls and inquiries

2016 Enforcement Actions

• Compliance Assistance Letters	40
• Letters of Warning	19
– Cases started at LOW	2
• Notice of Violations	7
• Total Cases	57
– Resolved cases	43
– Resolved at CA letter	21
• Some cases resolved in 2016 were from previous year	

Missouri Total Open Wells

		Number of wells
Total Open Wells		6,125
	Post-Law Wells	1,441
	Pre-Law Well	4,684
Abandoned wells		4,940
	Post-Law Commercial	387
	Post-Law Private Gas	7
	Pre-Law Commercial	4,149
	Pre-Law Private Gas	397
80.7% of all open wells are abandoned		
91.8% of all abandoned wells are commercial wells		
		As of 2-9-2017

Oil and Gas Remedial Fund
Balance on 02/1/17

\$8,921

Total Bonding Held as of 02/1/17

\$1,465,397

Comparison of 2014, 2015 and 2016

	2014	2015	2016
Active Oil Wells	601	523	559
Oil Production in bbl	195,481	147,359	115,765
Average Price/bbl	\$82.38	\$38.71	\$32.77
Total Oil Value*	\$16,500,000	\$5,790,433	\$3,835,648
Active Gas Wells	7	7	14
Gas production in MCF	8,777	3,175	1090
Average Price/MCF	\$4.13	\$2.63	\$0
Total Gas Value*	\$36,249	\$8,350	\$0
Permits	359	75	1
Wells Inspected	41	231	233
MITs Performed	20	126	26
MITs Witnesses	12	43	0
Leases Inspected	9	21	51
Phone Inquiries	1,229	1,276	1,090

* Total commodity value based on price at which commodity was sold, not the average commodity price



MISSOURI
DEPARTMENT OF
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Questions?

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