

IDLE AND ORPHAN OIL AND GAS WELLS: STATE AND PROVINCIAL REGULATORY STRATEGIES

**Supplemental Information on
Orphan Well Plugging and Site Restoration**



2024

ABOUT IOGCC

The Interstate Oil and Gas Compact Commission (IOGCC) is a multi-state government agency that champions the conservation and efficient recovery and storage of domestic oil and natural gas resources while protecting human health and safety and the environment. IOGCC provides member states and international affiliates with a clear and unified voice and serves as a primary authority on issues surrounding these vital resources.

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DISCLAIMER

The states and provinces provided the information for this report. The authors and editors have endeavored to summarize this information in an accurate and meaningful way.

Should you have a question about the contents of this report, feel free to contact IOGCC for assistance. Please note, however, that a question regarding information from a specific state or province may be referred to sources within the state or province.

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INTRODUCTION

This supplementary report updates information previously published by IOGCC in the 2021 report entitled *Idle and Orphan Oil and Gas Wells: State and Provincial Regulatory Strategies*. It includes data on orphan wells and orphan well plugging and site restoration activities and expenditures from 2018 through 2023, with a focus on activities since 2020.

IOGCC sent a survey requesting data for calendar years 2021 through 2023 to its member and associate member states and Canadian affiliates. Twenty-nine states and four Canadian provinces responded to the survey. The report compiles and summarizes data from the survey, compares it to data from previous surveys, and analyzes trends.

Please read this report in conjunction with the 2021 report. The 2021 report provides background information on applicable terminology, regulations, practices, and procedures.

SURVEY RESULTS

This section of the report summarizes and analyzes the information collected through the supplementary survey. The tables in the next section provide more detail on each state or province.

DOCUMENTED WELLS DRILLED AND NOT PLUGGED

The 29 states responding to the supplementary survey reported a total of 1,620,896 wells drilled and not plugged as of December 31, 2023—a slight increase from 2020. The four responding Canadian provinces reported a total of 344,938—a 7.4 percent decrease from 2020.

Table 1 shows the totals for 2020 and 2023 in each of the responding states and provinces. For 27 states and all four provinces, **Table 1** breaks the totals down among the following well types: oil and gas production, oil-and-gas-related injection, oil-and-gas-related monitoring, gas storage, and other.

DOCUMENTED ORPHAN WELLS

The 29 responding states reported a total of 141,959 documented orphan wells as of December 31, 2023. While the states continue to plug orphan wells as discussed later in this report, the number of orphan wells documented in the states increased by 54 percent since 2020. The four Canadian provinces reported 6,047 documented orphan wells as of December 31, 2023, a 27 percent increase since 2020.

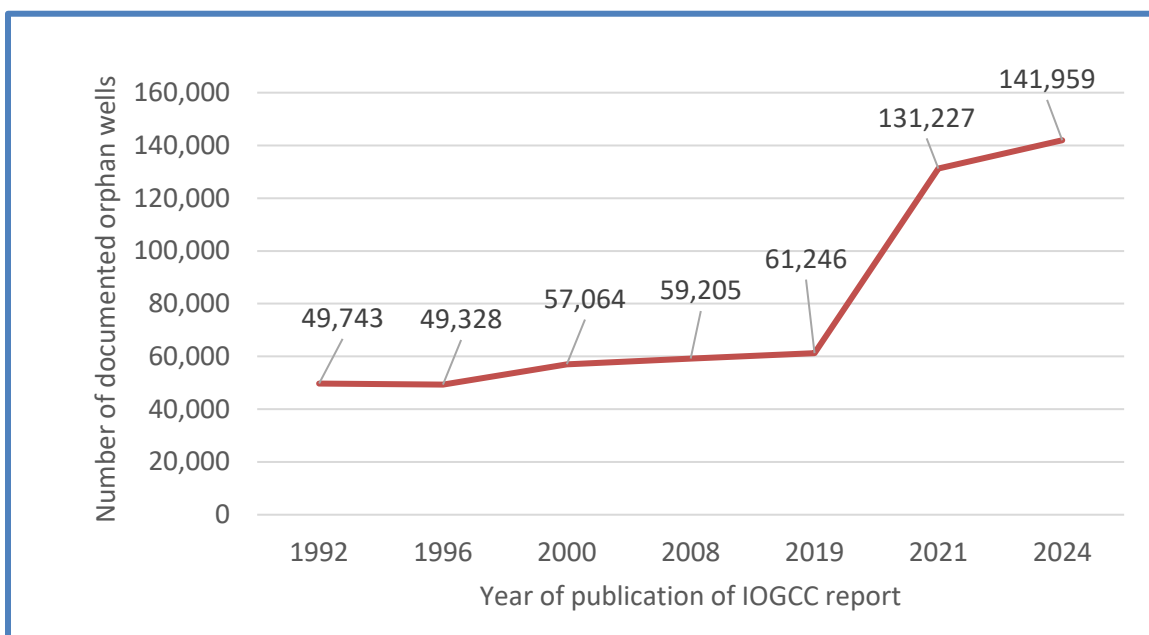
Changes in the numbers of documented orphan wells are attributable to several factors. Wells are removed from the inventory as they are plugged or are transferred to new operators. Wells are added to the inventory as states and provinces document orphan wells that were previously unknown or unverified and as some operators go out of business.

The biggest portion of the recent increases in state numbers reflects the efforts of the states to document their orphan wells. States have focused time and effort on refining their criteria for orphan status, verifying and updating information on operators and wells in their databases, and confirming

the existence, status, and location of wells using field inspection and drone surveillance. The result is a more complete inventory of documented orphan wells.

Figure 1 reflects the numbers of documented orphan wells in the states as published through the years in IOGCC reports on idle and orphan wells. Note that **Figure 1** does not include data from the Canadian provinces, which were not surveyed for this data before 2019.

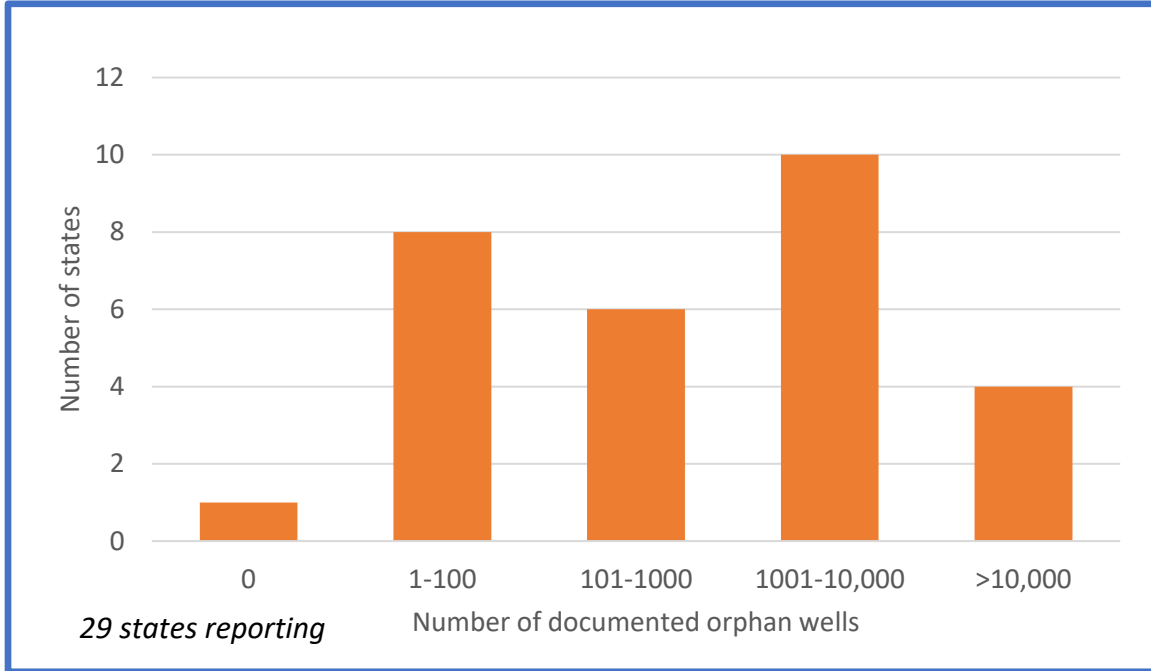
Figure 1. Trend in State Reports of Documented Orphan Wells



The number of documented orphan wells by state or province ranges from zero to 27,240 in the states and zero to 3,268 in the provinces. For the states, the ratio of documented orphan wells to total wells that have been drilled and not plugged ranges from zero to 83 percent, with an overall average of 8.8 percent. For the provinces, the ratio of documented orphan wells to total wells that have been drilled and not plugged ranges from zero to 5.2 percent, with an overall average of 1.8 percent.

Figure 2 summarizes the numbers of documented orphan wells in the states in 2023. See **Table 2** for a detailed breakdown.

Figure 2. Documented Orphan Wells in States (2023)



In many cases, the states and provinces have a record of the last known operator of an orphan well. Twenty-seven states and four provinces reported on known operators of the documented orphan wells. Three-quarters of the orphan wells in the reporting states and essentially all the orphan wells in the provinces have known operators. Most of those operators have one to ten wells in their name.

Figure 3 summarizes the information reported by the states and provinces on known operators. See **Table 3** for details. Two states did not report this data, so the total number of documented orphan wells with known operators in **Table 3** does not match the total number of documented orphan wells in **Table 2**.

Figure 3. Documented Orphan Wells with Known Operators (2023)

| | States (27 reporting) | | Provinces (4 reporting) | |
|--|--------------------------|--------------|----------------------------|--------------|
| Documented orphan wells | 104,862 | | 6,047 | |
| With operator known | 80,817 | 77.1% | 6,045 | 99.9% |
| Known operators of orphan wells | 12,676 | | 260 | |
| With 1 well | 6,291 | 49.6% | 97 | 37% |
| With 2-10 wells | 5,010 | 39.5% | 108 | 42% |
| With 11-100 wells | 1,274 | 10.1% | 45 | 17% |
| With >100 wells | 101 | 0.8% | 10 | 4% |

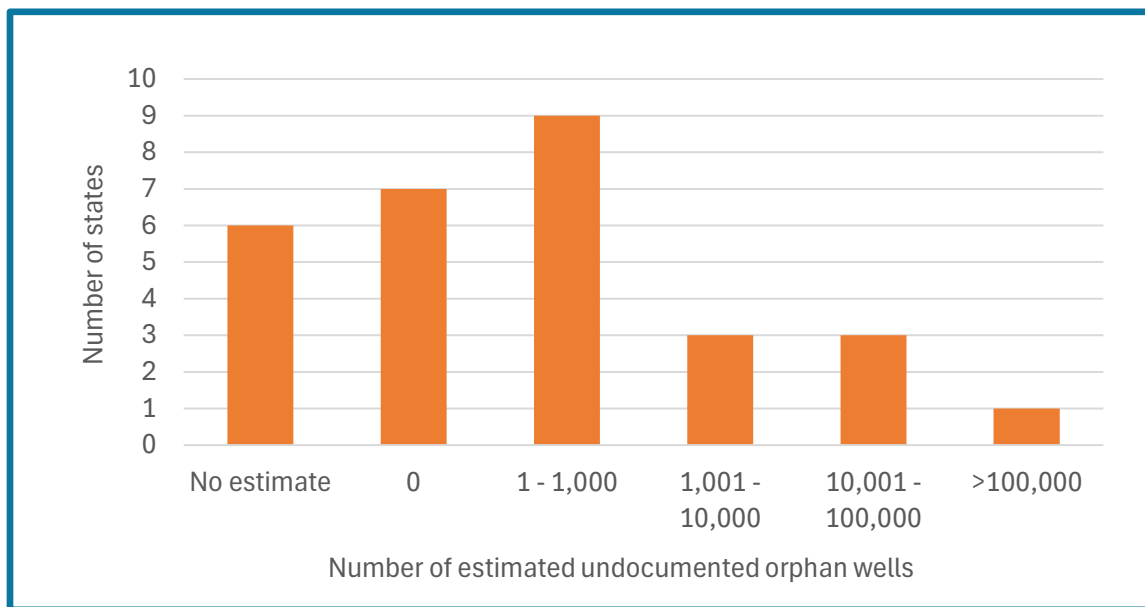
UNDOCUMENTED WELLS

The term “undocumented well” refers to a well that is entirely unknown to the regulatory agency or a well of which the agency has some evidence, but which requires further records research or field investigation for verification. For 2023, the total number of undocumented orphan wells estimated by the states is between 250,000 and 740,000.

Six states did not provide an estimate. Seven states and the four provinces reported no undocumented orphan wells. The remaining 16 states reported an estimate of 2 to 100,000 or more undocumented orphan wells.

Figure 4 summarizes the estimated numbers of undocumented wells reported by states. The detailed breakdown appears in **Table 2**.

Figure 4. Estimated Undocumented Orphan Wells in States (2023)



These estimates are by their nature imprecise. Some states reported a wide range in the estimated number and others were unable to provide any reliable estimate. States are working to better define the numbers, locations, and risks of undocumented orphan wells with assistance from the United States Department of Energy.

ORPHAN WELL PLUGGING AND SITE RESTORATION

The states accelerated their orphan well plugging operations in 2023 largely due to the availability of federal funds to supplement state funds. The federal funds came in the form of initial grants awarded by the United States Department of the Interior under the Infrastructure Investment and Jobs Act.

In the three-year period from 2021 through 2023, the states plugged 15,325 orphan wells, of which 7,240 were plugged with federal funds. The provinces plugged 3,291.

As of December 31, 2023, the states have plugged at least 96,988 orphan wells since the start of their orphan well plugging programs. This is conservative number, because not all states have precise records for early years. The provinces have plugged at least 9,514 wells since the start of their plugging programs. Refer to **Table 4A** for details.

Figure 5 shows the number of orphan wells plugged by the states in 2018 through 2023.

Figure 5. Orphan Wells Plugged by States (2018-2023)

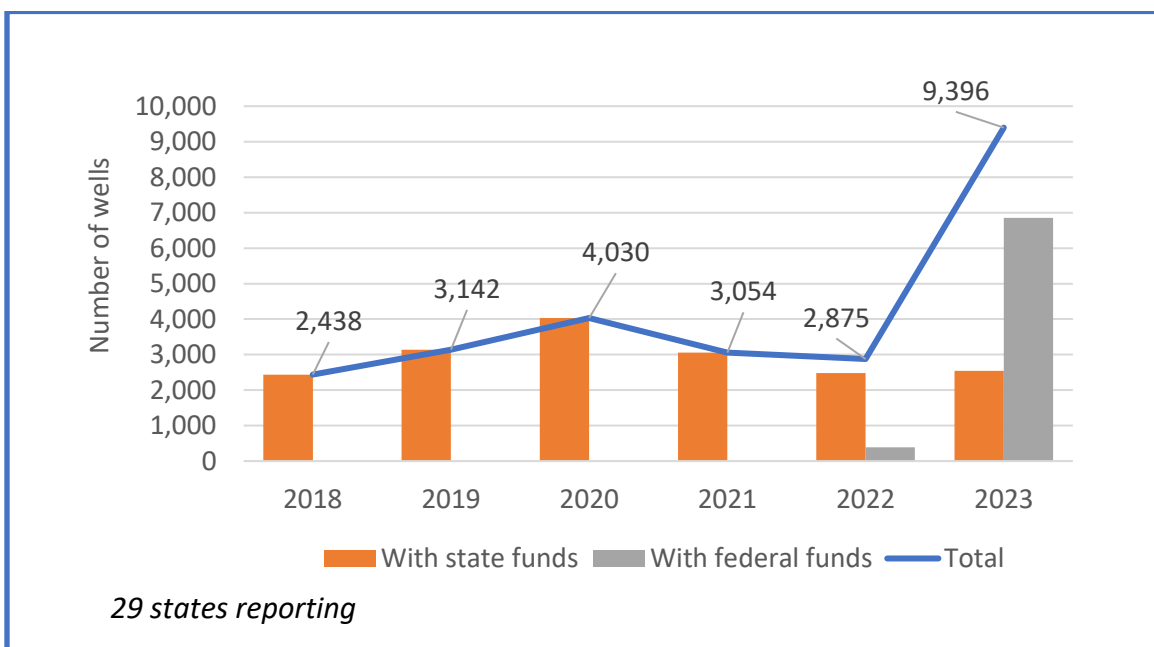
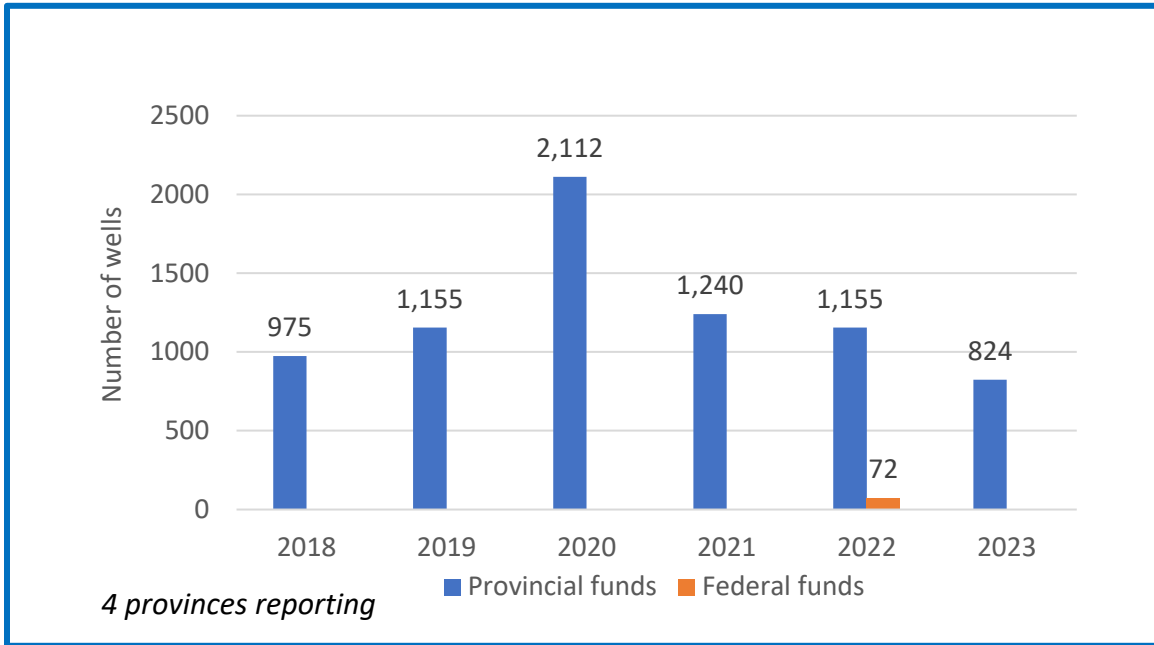


Figure 6 shows the number of orphan wells plugged by the provinces in 2018 through 2023.

Figure 6. Orphan Wells Plugged by Provinces (2018-2023)



The cost to plug an orphan well varies widely depending on well depth and condition, location, accessibility, and other factors. For the 25 states that reported expenditures for plugging of orphan wells from 2021 through 2023, the average expenditure per well ranged from \$3,664 to \$343,750 with an overall average of \$36,505. For the two provinces that reported expenditures for plugging of orphan wells during the same period, the average expenditure per well was C\$91,196. In both the states and the provinces, the average cost per well increased significantly between 2018 and 2023. See **Tables 4A, 4B, and 5** for details on plugging expenditures.

Figure 7 shows the average cost of plugging an orphan well for the 26 states that reported expenditures in 2018 through 2023.

Figure 7. Average Cost of Orphan Well Plugging by States (2018-2023)

| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|----------------------|----------|----------|----------|----------|----------|----------|
| Wells plugged | 2,438 | 3,142 | 4,030 | 3,054 | 2,875 | 9,396 |
| Cost per well | \$20,502 | \$24,861 | \$30,814 | \$25,129 | \$34,139 | \$41,139 |

The restoration required at orphan well sites varies widely depending on the age, condition, and location of the sites. The information gathered for this report does not support a determination of the

overall average expenditure for site restoration because of the differences among the states and provinces in how they define terms, conduct operations, and allocate costs.

Most states conduct basic site restoration as part of an orphan well plugging operation. For these states, the expenditures reported in **Table 4B and 5** combine plugging and basic site restoration. Other states and the provinces conduct and account for plugging and restoration separately. Some states conduct site restoration at some sites separately even if they conduct basic site restoration as part of orphan well plugging. See **Tables 6A, 6B, and 7** for details on the restoration activities that have been accounted for separately.

TOTAL WELLS PLUGGED

Responsible operators conduct most of the well plugging and site restoration in the states and provinces. **Figure 8** shows the total number of wells, including orphan wells, plugged in the states from 2018 to 2023. **Figure 9** shows the corresponding numbers for the Canadian provinces. See **Tables 8A and 8B** for a breakdown of plugging by well types.

Figure 8. Total Wells Plugged in States

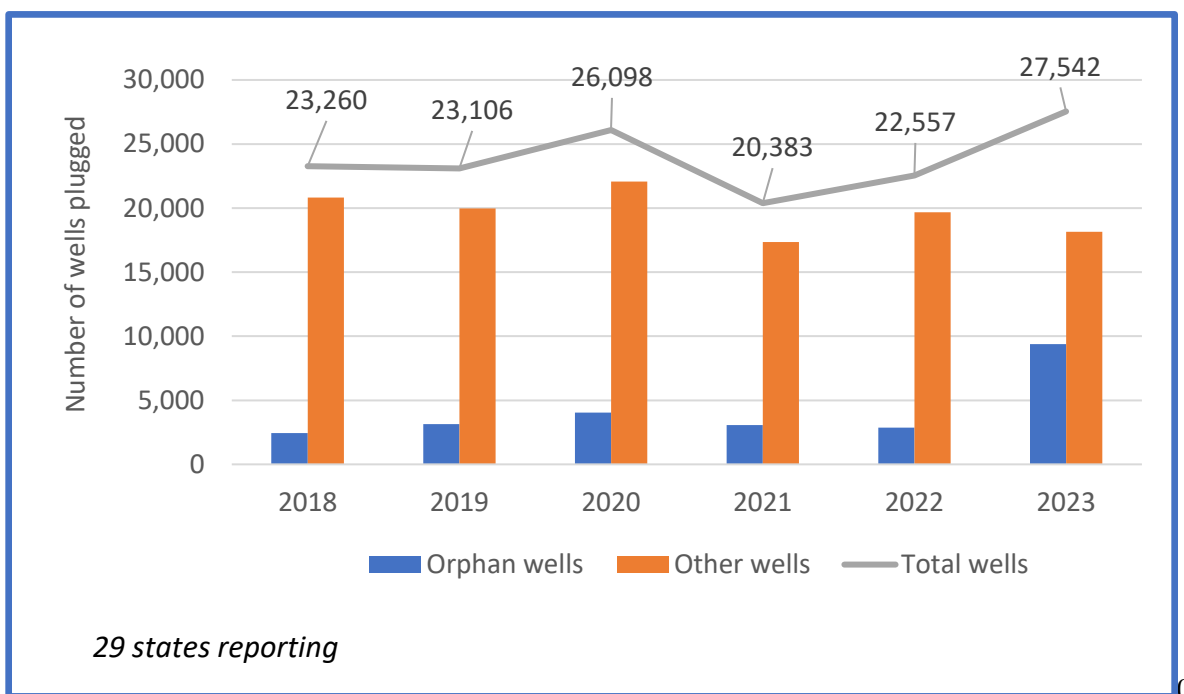


Figure 9. Total Wells Plugged in Provinces

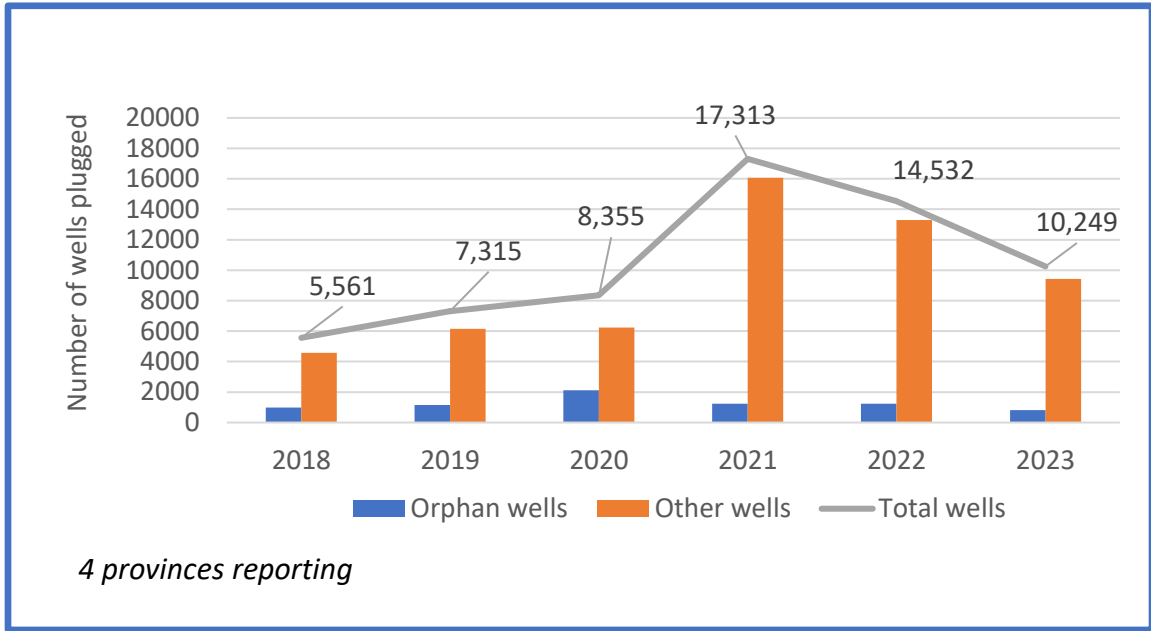
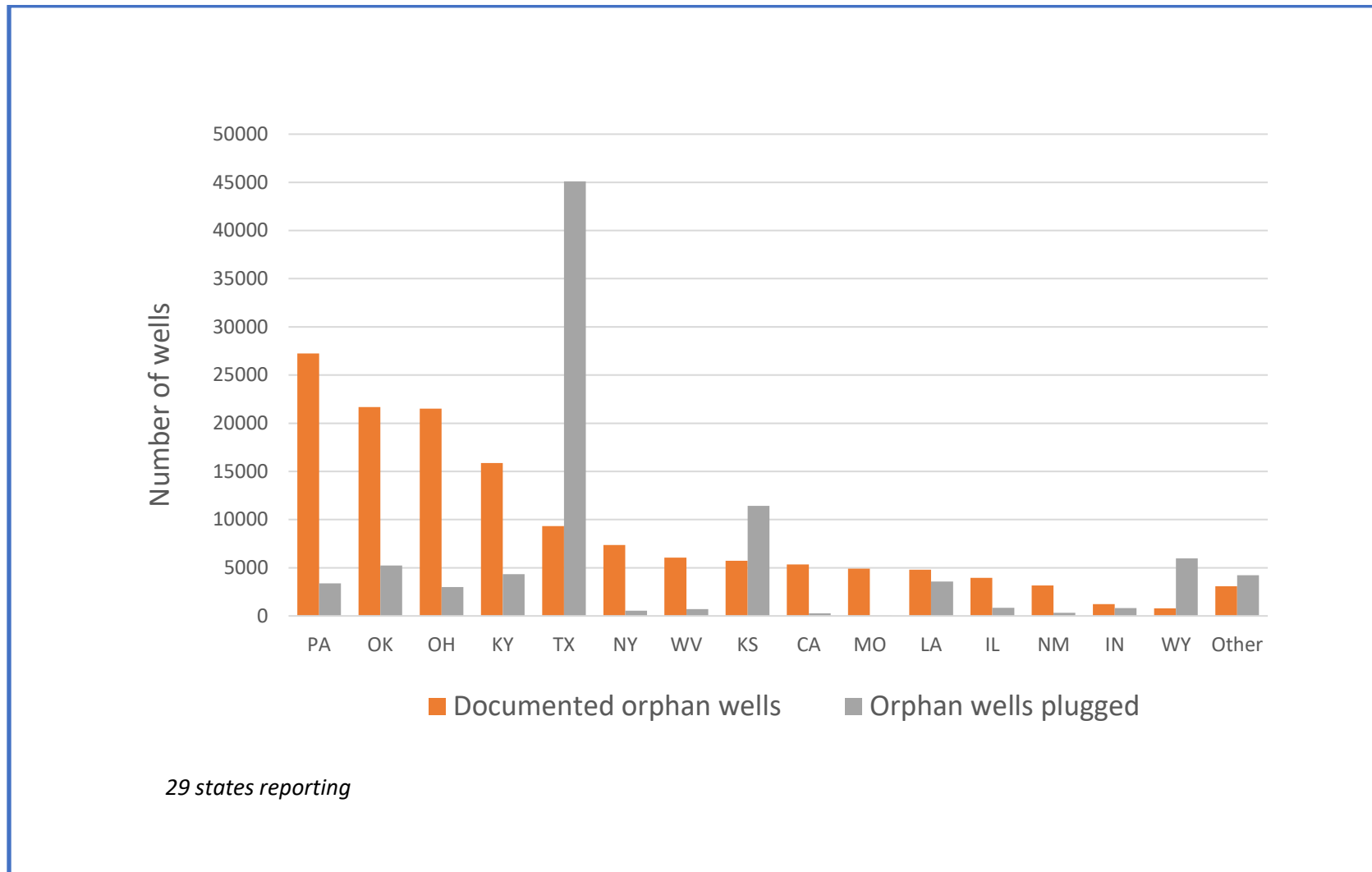


Figure 10 shows both the number of documented orphan wells in the states and the total number of orphan wells plugged by the states as of December 31, 2023.

Figure 10. Documented Orphan Wells and Orphan Wells Plugged in States



REFERENCES

1. Interstate Oil and Gas Compact Commission, 2021, *Idle and Orphan Oil and Gas Wells: State and Provincial Regulatory Strategies*.
2. Interstate Oil and Gas Compact Commission, 2023, *Idle and Orphan Oil and Gas Wells: State and Provincial Regulatory Strategies, Supplemental Information on State Prioritization Systems for Orphan Wells*.

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DATA TABLES

TABLE NOTES

1. Blank fields indicate that no data was reported or available.
2. Tables 1, 2, and 3 and the two columns on the far right of Table 6A show data as of December 31 of each year. Other data are for the calendar year.
3. Expenditures by Canadian provinces are shown in Canadian dollars.
4. In responding to the survey for this supplementary report, some states adjusted some data previously reported for 2018-2020. Those adjustments did not significantly affect the totals and are not highlighted in these tables. Anyone interested in identifying those adjustments may compare the tables in this supplementary report with the tables in IOGCC's 2021 report.
5. States use different terms and definitions for the wells and activities addressed in this report. To the extent feasible, they have applied IOGCC terminology in supplying data for this report. Please refer to the 2021 report for further discussion of IOGCC terminology.
6. See the Table of Contents on page 2 for a list of the tables.

Table 1. Documented Wells Drilled and Not Plugged (2020, 2023)

| State or Province | Oil and gas production | | Oil-and-gas-related injection | | Oil-and-gas-related monitoring | | Gas storage | | Other | | Total | |
|---------------------------|------------------------|----------------|-------------------------------|---------------|--------------------------------|--------------|-------------|------------|---------------|---------------|------------------|------------------|
| | 2020 | 2023 | 2020 | 2023 | 2020 | 2023 | 2020 | 2023 | 2020 | 2023 | 2020 | 2023 |
| Alabama | 6,754 | 6,564 | 245 | 241 | 0 | 0 | 14 | 14 | 18 | 20 | 7,031 | 6,839 |
| Alaska | 3,583 | 3,650 | 1,627 | 1,670 | 26 | 27 | 14 | 26 | 263 | 268 | 5,513 | 5,641 |
| Arkansas | 17,489 | 17,183 | 1,021 | 774 | | 2 | 11 | 10 | 0 | 0 | 18,521 | 17,969 |
| California | 58,493 | 70,395 | 13,807 | 25,988 | 3,584 | 4,425 | 323 | 295 | 0 | 429 | 76,207 | 101,532 |
| Colorado | 50,980 | 48,253 | 688 | 679 | 230 | 225 | 258 | 248 | 0 | 0 | 52,156 | 49,405 |
| Idaho | 10 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 12 | 17 |
| Illinois | | 24,011 | | 1,701 | | 406 | | 1,074 | | 391 | 44,165 | 27,583 |
| Indiana | 5,652 | 6,104 | 1,136 | 1,116 | 0 | 0 | 973 | 821 | 90 | 117 | 7,851 | 8,158 |
| Kansas | 95,332 | 92,646 | 18,305 | 18,087 | 10 | 10 | 883 | 832 | 0 | 8,170 | 114,530 | 119,745 |
| Kentucky | 57,818 | 57,785 | 2,715 | 2,685 | 0 | | 599 | 611 | 0 | | 61,132 | 61,081 |
| Louisiana | | | | | | | | | | | 59,093 | 59,753 |
| Michigan | 14,576 | 13,176 | 1,124 | 1,065 | 0 | 0 | 2,116 | 2,105 | 2,506 | 1,088 | 20,322 | 17,434 |
| Mississippi | 5,060 | 4,742 | 1,221 | 1,227 | 94 | 181 | 163 | 153 | 0 | 7 | 6,538 | 6,310 |
| Missouri | 2,707 | 2,713 | 435 | 423 | 49 | 41 | 65 | 72 | 327 | 2,649 | 3,583 | 5,898 |
| Montana | | 13,675 | | 1,219 | | 19 | | 246 | | 83 | 14,200 | 15,242 |
| Nebraska | 2,098 | 1,662 | 612 | 541 | 0 | 0 | 0 | 56 | 0 | | 2,710 | 2,259 |
| Nevada | 105 | 105 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 120 | 120 |
| New Mexico | 55,620 | 54,947 | 4,134 | 3,286 | 115 | 16 | 24 | 2 | 20 | 134 | 59,913 | 58,385 |
| New York | 16,080 | 16,189 | 853 | 952 | 136 | 133 | 850 | 838 | 4,715 | 4,459 | 22,634 | 22,571 |
| North Dakota | 19,574 | 21,126 | 1,343 | 1,335 | 8 | 31 | 0 | 0 | 0 | 88 | 20,925 | 22,580 |
| Ohio | 61,211 | 60,860 | 396 | 410 | 0 | 0 | 3,351 | 3,233 | 0 | 0 | 64,958 | 64,503 |
| Oklahoma | 215,312 | 133,698 | 11,119 | 10,397 | 0 | 130 | 311 | 296 | 0 | 70,891 | 226,742 | 215,412 |
| Pennsylvania | 130,946 | 139,591 | 2,328 | 2,275 | 239 | 245 | 1,415 | 1,448 | 3 | 1,871 | 134,931 | 145,430 |
| Tennessee | 5,012 | 4,850 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 176 | 5,012 | 5,035 |
| Texas | | | | | | | | | | | 440,749 | 435,731 |
| Utah | 13,865 | 14,116 | 1,997 | 1,967 | 15 | 3 | 64 | 65 | 379 | 77 | 16,320 | 16,228 |
| Virginia | 8,690 | 8,633 | 9 | 10 | 0 | 2 | 38 | 38 | 0 | 9 | 8,737 | 8,692 |
| West Virginia | | 63,966 | | 537 | | 93 | | 1,365 | | 8,673 | 74,596 | 74,634 |
| Wyoming | 44,659 | 42,117 | 4,162 | 4,169 | 413 | 368 | 49 | 55 | 0 | 0 | 49,283 | 46,709 |
| Totals - States | | | | | | | | | | | 1,618,484 | 1,620,896 |
| Alberta | 221,728 | 202,690 | 12,727 | 15,157 | 5,303 | 5,314 | 244 | 233 | 26,672 | 22,038 | 266,674 | 245,432 |
| British Columbia | 16,056 | 13,614 | 457 | 513 | 107 | 110 | 6 | 10 | 0 | 1,641 | 16,626 | 15,888 |
| Northwest Territories | 86 | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 19 |
| Saskatchewan | 80,481 | 73,916 | 8,619 | 9,456 | 0 | 0 | 110 | 119 | 90 | 108 | 89,300 | 83,599 |
| Totals - Provinces | 318,351 | 290,239 | 21,805 | 25,126 | 5,410 | 5,424 | 360 | 362 | 26,762 | 23,787 | 372,688 | 344,938 |

Table 2. Documented and Undocumented Orphan Wells (2018, 2020, 2023)

| State or Province | Documented orphan wells | | | Estimated undocumented orphan wells | |
|---------------------------|-------------------------|---------------|----------------|-------------------------------------|---------------------------|
| | 2018 | 2020 | 2023 | 2020 | 2023 |
| Alabama | 3 | 26 | 52 | 0 | 700 |
| Alaska | 14 | 14 | 43 | 0 | 4 |
| Arkansas | 484 | 418 | 443 | | |
| California | 16 | 2,777 | 5,333 | 17,986 | 0 |
| Colorado | 252 | 313 | 650 | 200 | 200 |
| Idaho | 0 | 0 | 0 | 0 | 0 |
| Illinois | 4,253 | 4,355 | 3,946 | | |
| Indiana | 1,028 | 1,459 | 1,238 | <100 | ~300 |
| Kansas | 5,709 | 5,632 | 5,713 | | 5,285 |
| Kentucky | 13,266 | 14,367 | 15,870 | 3,000 | 3,000 |
| Louisiana | 3,621 | 4,260 | 4,786 | | |
| Michigan | 98 | 154 | 388 | 0 | 0 |
| Mississippi | 21 | 11 | 24 | 6 | 1,000 |
| Missouri | 327 | 327 | 4,896 | 2,009 | 500 |
| Montana | 231 | 222 | 94 | | |
| Nebraska | 75 | 103 | 466 | 120 | 120 |
| Nevada | 6 | 6 | 7 | 0 | 0 |
| New Mexico | 374 | 3,375 | 3,158 | | |
| New York | 4,043 | 7,073 | 7,375 | 34,000 | 34,000 |
| North Dakota | 0 | 341 | 80 | 0 | 0 |
| Ohio | 910 | 972 | 21,508 | 36,342 to 66,400 | 34,500 to 65,100 |
| Oklahoma | 1,372 | 2,799 | 21,684 | 105,907 | 61,049 |
| Pennsylvania | 8,703 | 27,972 | 27,240 | 100,000 to 560,000 | 100,000 to 560,000 |
| Tennessee | | 446 | 775 | 54 | 81 |
| Texas | 6,989 | 6,514 | 9,313 | | |
| Utah | 33 | 41 | 34 | | 0 |
| Virginia | 10 | 9 | 11 | 0 | 0 |
| West Virginia | 6,302 | 6,309 | 6,042 | 9,000 | 9,000 |
| Wyoming | 3,083 | 1,907 | 790 | 0 | 2 |
| Totals - States | 61,223 | 92,202 | 141,959 | 310,000 to 800,000 | 250,000 to 740,000 |
| Alberta | 3,127 | 2,983 | 1,955 | 0 | 0 |
| British Columbia | 326 | 754 | 824 | 0 | 0 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 |
| Saskatchewan | 609 | 1,043 | 3,268 | 0 | 0 |
| Totals - Provinces | 4,062 | 4,780 | 6,047 | 0 | 0 |

Table 3. Operator Status of Documented Orphan Wells (2023)

| State or Province | Documented orphan wells | | Known operators | | | |
|---------------------------|-------------------------|------------------|-----------------|-----------------|-------------------|-----------------|
| | Operator known | Operator unknown | With 1 well | With 2-10 wells | With 11-100 wells | With ≥100 wells |
| Alabama | 52 | 0 | 1 | 2 | 2 | 0 |
| Alaska | 2 | 45 | 0 | 1 | 0 | 0 |
| Arkansas | 443 | 0 | 55 | 32 | 7 | 1 |
| California | 5,333 | 5 | 743 | 318 | 82 | 5 |
| Colorado | 629 | 32 | 60 | 24 | 6 | 2 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 3,946 | 244 | 130 | 171 | 75 | 6 |
| Indiana | 689 | 218 | 172 | 84 | 10 | 0 |
| Kansas | 5,713 | 0 | 392 | 334 | 87 | 8 |
| Kentucky | | | | | | |
| Louisiana | 4,771 | 15 | 730 | 408 | 72 | 5 |
| Michigan | 388 | 0 | 32 | 4 | 5 | 1 |
| Mississippi | 24 | 0 | 8 | 2 | 11 | 0 |
| Missouri | 4,888 | 8 | 730 | 458 | 54 | 7 |
| Montana | 93 | 1 | 16 | 3 | 3 | 0 |
| Nebraska | 466 | 120 | 3 | 5 | 2 | 2 |
| Nevada | 7 | 0 | 5 | 2 | 0 | 0 |
| New Mexico | 3,158 | 0 | 117 | 179 | 45 | 5 |
| New York | 3,295 | 4,193 | 279 | 146 | 47 | 4 |
| North Dakota | 114 | 0 | 3 | 4 | 1 | 0 |
| Ohio | | | | | | |
| Oklahoma | 14,912 | 6,772 | 1,192 | 1,366 | 287 | 10 |
| Pennsylvania | 19,529 | 7,711 | 836 | 683 | 273 | 31 |
| Tennessee | 856 | 0 | 68 | 101 | 21 | 0 |
| Texas | 9,313 | 0 | 456 | 500 | 152 | 12 |
| Utah | 32 | 2 | 10 | 10 | 0 | 0 |
| Virginia | 10 | 1 | 9 | 1 | 0 | 0 |
| West Virginia | 1,364 | 4,678 | 236 | 154 | 24 | 0 |
| Wyoming | 790 | 0 | 8 | 18 | 8 | 2 |
| Totals - States | 80,817 | 24,045 | 6,291 | 5,010 | 1,274 | 101 |
| Alberta | 1,955 | | 50 | 53 | 20 | 5 |
| British Columbia | 822 | 2 | 10 | 16 | 6 | 2 |
| Northwest | 0 | 0 | | | | |
| Saskatchewan | 3,268 | 0 | 37 | 39 | 19 | 3 |
| Totals - Provinces | 6,045 | 2 | 97 | 108 | 45 | 10 |

Table 4A. Orphan Well Plugging with State or Provincial Funds—Number of Wells

| State or Province | Orphan wells plugged | | | | | | Plugged since start of program |
|---------------------------|----------------------|--------------|--------------|--------------|--------------|--------------|--------------------------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2023 |
| Alabama | 0 | 0 | 0 | 10 | 0 | 1 | 11 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Arkansas | 25 | 25 | 1 | 23 | 5 | 13 | 794 |
| California | 29 | 60 | 43 | 0 | 25 | 33 | 272 |
| Colorado | 14 | 33 | 57 | 87 | 38 | 44 | >600 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 9 | 20 | 23 | 13 | 0 | 0 | 831 |
| Indiana | 5 | 15 | 7 | 6 | 15 | 8 | ~829 |
| Kansas | 168 | 137 | 161 | 342 | 281 | 93 | 11,434 |
| Kentucky | 9 | 66 | 298 | 116 | 85 | 15 | 4,328 |
| Louisiana | 219 | 1 | 135 | 110 | 144 | 20 | 3,566 |
| Michigan | 6 | 5 | 2 | 4 | 5 | 0 | 395 |
| Mississippi | 5 | 11 | 0 | 0 | 0 | 0 | 460 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Montana | 11 | 1 | 2 | 6 | 1 | 0 | 449 |
| Nebraska | 16 | 21 | 13 | 15 | 6 | 0 | 299 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 60 | 36 | 49 | 42 | 51 | 6 | 333 |
| New York | 45 | 95 | 68 | 9 | 17 | 31 | 554 |
| North Dakota | 3 | 0 | 282 | 0 | 0 | 3 | 368 |
| Ohio | 51 | 92 | 150 | 144 | 176 | 304 | 2,990 |
| Oklahoma | 58 | 127 | 112 | 80 | 260 | 165 | 5,240 |
| Pennsylvania | 6 | 9 | 18 | 9 | 22 | 24 | 3,384 |
| Tennessee | 33 | 77 | 66 | 3 | 24 | 23 | 700 |
| Texas | 1,332 | 1,779 | 1,473 | 1,329 | 1,215 | 1,744 | 45,090 |
| Utah | 1 | 1 | 2 | 15 | 0 | 0 | 132 |
| Virginia | 0 | 0 | 1 | 0 | 0 | 0 | 14 |
| West Virginia | 0 | 2 | 1 | 2 | 13 | 18 | 704 |
| Wyoming | 333 | 529 | 1,066 | 689 | 101 | 2 | 5,970 |
| Totals - States | 2,438 | 3,142 | 4,030 | 3,054 | 2,484 | 2,547 | 89,748 |
| Alberta | 799 | 982 | 1,922 | 1,150 | 1,062 | 683 | 7,995 |
| British Columbia | 84 | 29 | 105 | 47 | 16 | 58 | 646 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saskatchewan | 92 | 144 | 85 | 43 | 77 | 83 | 873 |
| Totals - Provinces | 975 | 1,155 | 2,112 | 1,240 | 1,155 | 824 | 9,514 |

Table 4B. Orphan Well Plugging with State or Provincial Funds—Expenditures

| State or Province | Expenditures for plugging | | | | | | Includes restoration (Yes or No) | |
|-------------------------|---------------------------|----------------------|----------------------|----------------------|-----------------------|----------------------|----------------------------------|-----------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2018-2020 | 2021-2023 |
| Alabama | \$0 | \$0 | \$0 | \$560,000 | \$0 | \$2,179,000 | Yes | Yes |
| Alaska | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Arkansas | \$227,825 | \$56,521 | \$420,434 | \$77,649 | \$395,944 | \$438,150 | Yes | |
| California | \$5,896,686 | \$9,981,893 | \$14,072,753 | \$0 | \$1,291,418 | \$1,702,994 | Yes | No |
| Colorado | \$309,658 | \$2,213,728 | \$1,968,306 | \$4,655,040 | \$2,373,963 | \$3,551,293 | Yes | Yes |
| Idaho | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Illinois | \$447,000 | \$721,537 | \$750,914 | \$769,141 | \$0 | \$0 | Yes | Yes |
| Indiana | \$45,399 | \$187,960 | \$90,432 | \$97,735 | \$328,169 | \$332,360 | Yes | Yes |
| Kansas | \$773,762 | \$755,943 | \$556,246 | \$2,305,922 | \$1,980,824 | \$1,224,275 | Yes | Yes |
| Kentucky | \$33,000 | \$298,000 | \$1,291,000 | \$968,997 | \$421,875 | \$462,711 | Yes | Yes |
| Louisiana | \$6,400,000 | \$4,638,918 | \$5,939,013 | \$7,314,239 | \$15,505,018 | \$14,279,916 | Yes | Yes |
| Michigan | \$585,756 | \$795,199 | \$678,862 | \$819,349 | \$859,318 | \$121,677 | Yes | Yes |
| Mississippi | \$168,000 | \$497,635 | \$0 | \$0 | \$0 | \$3,000,000 | Yes | |
| Missouri | \$0 | \$0 | \$0 | \$0 | \$0 | \$5,200 | | No |
| Montana | \$387,000 | \$416,625 | \$264,667 | \$534,782 | \$74,891 | \$0 | Yes | Yes |
| Nebraska | \$170,000 | \$320,000 | \$270,000 | \$475,000 | \$240,000 | \$0 | Yes | Yes |
| Nevada | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| New Mexico | \$1,356,099 | \$1,022,249 | \$2,154,826 | \$2,578,152 | \$4,587,955 | \$971,262 | Yes | No |
| New York | \$1,400,000 | \$4,190,000 | \$2,850,000 | \$1,948,036 | \$1,641,167 | \$1,196,647 | Yes | Yes |
| North Dakota | \$224,334 | \$0 | \$37,797,531 | \$0 | \$0 | \$178,810 | Yes | |
| Ohio | \$3,000,000 | \$8,867,580 | \$14,035,390 | \$11,163,841 | \$17,799,412 | \$34,398,253 | Yes | Yes |
| Oklahoma | \$1,293,466 | \$1,640,774 | \$1,495,135 | \$1,631,460 | \$4,873,436 | \$3,119,913 | No | No |
| Pennsylvania | \$474,111 | \$1,446,580 | \$1,499,741 | \$530,039 | \$1,600,239 | \$1,059,902 | Yes | Yes |
| Tennessee | Unknown | \$213,505 | \$131,000 | \$8,925 | \$94,348 | \$79,902 | Yes | Yes |
| Texas | \$24,502,884 | \$36,381,395 | \$31,126,662 | \$34,390,520 | \$33,953,578 | \$53,040,253 | No | No |
| Utah | \$88,244 | \$65,546 | \$102,704 | \$862,184 | \$0 | \$0 | | Yes |
| Virginia | \$0 | \$0 | \$111,854 | \$0 | \$0 | \$0 | Yes | |
| West Virginia | \$0 | \$236,804 | \$185,829 | \$260,100 | \$1,214,189 | \$2,488,769 | | Yes |
| Wyoming | \$2,200,000 | \$3,165,531 | \$6,386,223 | \$4,791,625 | \$545,900 | \$54,310 | Yes | Yes |
| Totals - States | \$49,983,244 | \$78,113,923 | \$124,179,522 | \$76,742,736 | \$89,781,644 | \$123,885,597 | | |
| Alberta | C\$45,800,000 | C\$46,200,000 | C\$63,700,000 | C\$79,705,717 | C\$124,355,622 | C\$68,065,822 | No | No |
| British Columbia | C\$8,500,000 | C\$7,000,000 | C\$18,500,000 | C\$8,700,000 | C\$1,800,000 | C\$2,500,000 | No | No |
| Northwest Territories | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | | |
| Saskatchewan | | | | | | | No | No |
| Totals-Provinces | C\$54,300,000 | C\$53,200,000 | C\$82,200,000 | C\$88,405,717 | C\$126,155,622 | C\$70,565,822 | | |

Table 5. Orphan Well Plugging with Federal Funds

| State or Province | Orphaned wells plugged | | Expenditures for plugging | | Includes restoration (Yes or No) |
|---------------------------|------------------------|--------------|---------------------------|----------------------|----------------------------------|
| | 2022 | 2023 | 2022 | 2023 | |
| Alabama | 0 | 0 | \$0 | \$0 | |
| Alaska | 0 | 0 | \$0 | | No |
| Arkansas | 0 | 56 | \$0 | \$817,937 | Yes |
| California | 0 | 4 | \$0 | \$670,546 | No |
| Colorado | 5 | 69 | \$326,748 | \$7,503,805 | Yes |
| Idaho | 0 | 0 | \$0 | \$0 | |
| Illinois | 91 | 323 | \$2,000,000 | \$15,500,000 | Yes |
| Indiana | 0 | 239 | \$0 | \$15,559,833 | Yes |
| Kansas | 0 | 1,914 | \$0 | \$20,118,735 | Yes |
| Kentucky | 193 | 442 | \$3,427,710 | \$16,221,257 | Yes |
| Louisiana | 0 | 684 | \$0 | \$37,500,000 | Yes |
| Michigan | 0 | 197 | \$0 | \$12,477,500 | Yes |
| Mississippi | 0 | 16 | \$0 | \$2,500,000 | Yes |
| Missouri | 0 | 0 | \$0 | \$0 | No |
| Montana | 0 | 137 | \$0 | \$10,367,828 | Yes |
| Nebraska | 27 | 251 | \$566,000 | \$7,150,000 | Yes |
| Nevada | 0 | 0 | \$0 | \$0 | |
| New Mexico | 4 | 133 | \$663,806 | \$19,078,911 | |
| New York | 0 | 10 | \$0 | \$5,857,264 | Yes |
| North Dakota | 0 | 73 | \$0 | \$4,543,897 | No |
| Ohio | 0 | 19 | \$0 | \$6,068,687 | Yes |
| Oklahoma | 0 | 593 | \$0 | \$12,952,561 | No |
| Pennsylvania | 0 | 124 | \$0 | \$11,563,105 | Yes |
| Tennessee | | | | | |
| Texas | 71 | 663 | \$1,386,039 | \$22,825,995 | No |
| Utah | 0 | 0 | \$0 | \$0 | Yes |
| Virginia | 0 | 0 | \$0 | \$0 | |
| West Virginia | 0 | 199 | \$0 | \$23,006,631 | Yes |
| Wyoming | 0 | 703 | \$0 | \$8,374,109 | Yes |
| Totals - States | 391 | 6,849 | \$8,370,303 | \$260,658,601 | |
| Alberta | | | | | |
| British Columbia | 72 | 0 | C\$15,000,000 | \$0 | No |
| Northwest Territories | 0 | 0 | \$0 | \$0 | |
| Saskatchewan | | | | | |
| Totals - Provinces | 72 | 0 | C\$15,000,000 | \$0 | |

Table 6A. Orphan Well Site Restoration with State or Provincial Funds–Number of Sites

| State or Province | Sites restored separately from plugging | | | | | | Number of plugged orphan wells needing restoration | |
|---------------------------|---|--------------|------------|------------|--------------|--------------|--|---------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2020 | 2023 |
| Alabama | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 |
| Alaska | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Arkansas | 0 | 0 | 1 | | | 3 | 0 | 0 |
| California | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Colorado | 47 | 53 | 55 | 30 | 77 | 85 | 454 | |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 0 | 0 | 0 | | | | | |
| Indiana | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 8 |
| Kansas | 37 | | | | | 47 | | |
| Kentucky | 0 | 0 | 0 | | | | 0 | |
| Louisiana | 0 | 0 | 0 | 0 | 0 | 0 | Unknown | Unknown |
| Michigan | 6 | 0 | 0 | 2 | 0 | 0 | 1 | 186 |
| Mississippi | 0 | 0 | 8 | 0 | 1 | 0 | 1 | 0 |
| Missouri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Montana | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 55 |
| Nebraska | 7 | 8 | 5 | 5 | 2 | 0 | | 0 |
| Nevada | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| New Mexico | 0 | 0 | 0 | 0 | 0 | 0 | 227 | 326 |
| New York | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| North Dakota | 0 | 6 | 186 | | | 5 | 156 | 60 |
| Ohio | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Oklahoma | 608 | 712 | 539 | 548 | 695 | 1,173 | | |
| Pennsylvania | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tennessee | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Texas | 132 | 257 | 125 | 269 | 260 | 240 | 0 | 0 |
| Utah | 1 | 1 | 2 | 5 | 0 | 0 | 5 | 0 |
| Virginia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| West Virginia | 4 | 0 | 0 | 0 | 0 | 0 | Unknown | Unknown |
| Wyoming | 0 | 0 | 0 | 0 | 0 | 0 | | 310 |
| Totals-States | 842 | 1,037 | 921 | 859 | 1,037 | 1,557 | 856 | 946 |
| Alberta | 85 | 146 | 267 | 252 | 351 | 494 | 4,889 | 8,954 |
| British Columbia | 15 | 31 | 61 | 30 | 21 | 34 | 396 | 612 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Saskatchewan | 36 | 33 | 111 | 45 | 23 | 71 | 577 | 3,268 |
| Totals - Provinces | 136 | 210 | 439 | 327 | 395 | 599 | 5,862 | 12,834 |

Table 6B. Orphan Well Site Restoration with State or Provincial Funds–Expenditures

| State or Province | Expenditures for restoration, if not included in plugging expenditures | | | | | |
|---------------------------|--|----------------------|----------------------|----------------------|----------------------|----------------------|
| | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| Alabama | \$0 | \$0 | \$0 | \$0 | \$0 | \$140,000 |
| Alaska | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Arkansas | \$0 | \$0 | \$8,641 | | | \$303,872 |
| California | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Colorado | \$352,970 | \$1,748,567 | \$1,686,069 | \$593,755 | \$617,665 | \$535,346 |
| Idaho | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Illinois | \$0 | \$0 | \$0 | | | |
| Indiana | \$0 | \$0 | \$0 | \$0 | \$19,230 | \$0 |
| Kansas | \$26,730 | | | \$40,266 | \$22,302 | \$579,628 |
| Kentucky | \$0 | \$0 | \$0 | | | |
| Louisiana | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Michigan | \$83,697 | \$0 | \$0 | \$48,590 | \$0 | \$0 |
| Mississippi | \$0 | \$0 | \$43,037 | \$0 | \$36,075 | \$0 |
| Missouri | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Montana | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Nebraska | \$98,000 | \$18,000 | \$6,000 | \$15,000 | \$12,000 | \$0 |
| Nevada | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| New Mexico | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| New York | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| North Dakota | \$0 | \$203,055 | \$28,870,850 | | | \$1,338,826 |
| Ohio | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Oklahoma | \$4,300,000 | \$6,441,406 | \$5,558,005 | \$5,457,522 | \$7,046,653 | \$11,735,689 |
| Pennsylvania | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Tennessee | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Texas | \$761,020 | \$2,520,379 | \$2,273,584 | \$13,186,480 | \$11,916,484 | \$10,663,291 |
| Utah | \$16,772 | \$13,452 | \$24,462 | \$133,923 | \$0 | \$0 |
| Virginia | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| West Virginia | \$79,607 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Wyoming | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Totals-States | \$5,718,796 | \$10,944,859 | \$38,470,648 | \$19,475,536 | \$19,670,409 | \$25,296,652 |
| Alberta | C\$22,900,000 | C\$26,900,000 | C\$47,800,000 | C\$49,155,327 | C\$48,783,883 | C\$70,856,178 |
| British Columbia | C\$500,000 | C\$6,500,000 | C\$12,500,000 | C\$8,800,000 | C\$13,200,000 | C\$21,000,000 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 | 0 |
| Saskatchewan | | | | | | |
| Totals - Provinces | C\$23,400,000 | C\$33,400,000 | C\$60,300,000 | C\$57,955,327 | C\$61,983,883 | C\$91,856,178 |

Table 7. Orphan Well Site Restoration with Federal Funds

| State or Province | Sites restored separately from plugging | | Expenditures for restoration, if not included in plugging expenditures | |
|---------------------------|---|------------|--|---------------------|
| | 2022 | 2023 | 2022 | 2023 |
| Alabama | 0 | 0 | \$0 | \$0 |
| Alaska | 0 | 0 | \$0 | \$0 |
| Arkansas | 0 | 0 | \$0 | \$0 |
| California | 0 | 0 | \$0 | \$0 |
| Colorado | 83 | 126 | \$1,143,653 | \$4,912,908 |
| Idaho | 0 | 0 | \$0 | \$0 |
| Illinois | | | | |
| Indiana | 0 | 0 | \$0 | \$0 |
| Kansas | 0 | 0 | \$0 | \$0 |
| Kentucky | | | | |
| Louisiana | 0 | 0 | \$0 | \$0 |
| Michigan | 0 | 0 | \$0 | \$0 |
| Mississippi | 0 | 25 | \$0 | \$2,500,000 |
| Missouri | 0 | 0 | \$0 | \$0 |
| Montana | 0 | 0 | \$0 | \$0 |
| Nebraska | 27 | 251 | \$32,700 | \$78,400 |
| Nevada | | | | |
| New Mexico | 0 | 3 | \$0 | \$1,783,600 |
| New York | 0 | 0 | \$0 | \$0 |
| North Dakota | 0 | 54 | \$0 | \$11,084,917 |
| Ohio | 0 | 0 | \$0 | \$0 |
| Oklahoma | | | | |
| Pennsylvania | 0 | 0 | \$0 | \$0 |
| Tennessee | | | | |
| Texas | 0 | 0 | \$0 | \$0 |
| Utah | 0 | 0 | \$0 | \$0 |
| Virginia | 0 | 0 | \$0 | \$0 |
| West Virginia | 0 | 0 | \$0 | \$0 |
| Wyoming | 0 | 0 | \$0 | \$1,591,480 |
| Totals - States | 110 | 459 | \$1,176,353 | \$21,951,305 |
| Alberta | | | | |
| British Columbia | 20 | 0 | C\$10,000,000 | \$0 |
| Northwest Territories | 0 | 0 | \$0 | \$0 |
| Saskatchewan | | | | |
| Totals - Provinces | 20 | 0 | C\$10,000,000 | 0 |

Table 8A. Total Wells Plugged, Including Orphan Wells (2018-2020)

| State or Province | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells |
|-------------------------|--------------|-------------------|-----------------|--------------|---------------|--------------|-------------------|-----------------|--------------|---------------|--------------|-------------------|-----------------|--------------|---------------|
| | 2018 | | | | | 2019 | | | | | 2020 | | | | |
| | | | | | | | | | | | | | | | |
| Alabama | 13 | 124 | 2 | 8 | 147 | 22 | 113 | 6 | 9 | 150 | 36 | 153 | 24 | 7 | 220 |
| Alaska | 41 | 5 | 2 | 0 | 48 | 89 | 12 | 7 | 4 | 112 | 30 | 1 | 12 | 8 | 51 |
| Arkansas | 74 | 110 | 13 | 0 | 197 | 62 | 114 | 8 | 0 | 184 | 33 | 166 | 9 | 0 | 208 |
| California | 749 | 64 | 304 | 229 | 1,346 | 1,046 | 21 | 752 | 108 | 1,927 | 1,227 | 25 | 850 | 52 | 2,154 |
| Colorado | 925 | 1,188 | 11 | 58 | 2,182 | 1,208 | 1,311 | 19 | 34 | 2,572 | 787 | 841 | 29 | 71 | 1,728 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 423 | 5 | 54 | 0 | 482 | | | | | 553 | | | | | 413 |
| Indiana | 56 | 8 | 12 | 22 | 98 | 122 | 24 | 25 | 49 | 220 | 70 | 13 | 24 | 14 | 121 |
| Kansas | 1,234 | 409 | 244 | 370 | 2,257 | 1,328 | 335 | 256 | 384 | 2,303 | 1,140 | 356 | 266 | 198 | 1,960 |
| Kentucky | 166 | 30 | 18 | 52 | 266 | | | | | 319 | | | | | 557 |
| Louisiana | 437 | 305 | 55 | 266 | 1,063 | 342 | 362 | 73 | 160 | 937 | 261 | 315 | 67 | 147 | 790 |
| Michigan | 70 | 145 | 18 | 0 | 233 | 63 | 253 | 3 | 0 | 319 | 43 | 156 | 3 | 0 | 202 |
| Mississippi | 61 | 19 | 16 | 38 | 134 | 49 | 24 | 18 | 13 | 104 | 29 | 11 | 19 | 13 | 72 |
| Missouri | 7 | 5 | 15 | 37 | 64 | 2 | 0 | 3 | 4 | 9 | 4 | 4 | 2 | 0 | 10 |
| Montana | 24 | 42 | 7 | 0 | 73 | 31 | 43 | 8 | 0 | 82 | 25 | 152 | 10 | 8 | 195 |
| Nebraska | 48 | 0 | 11 | 0 | 59 | 52 | 0 | 8 | 0 | 60 | 55 | 0 | 11 | 0 | 66 |
| Nevada | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 |
| New Mexico | 480 | 160 | 59 | 0 | 699 | 474 | 259 | 84 | 9 | 826 | 184 | 117 | 21 | 0 | 322 |
| New York | 89 | 27 | 8 | 24 | 148 | 121 | 51 | 36 | 15 | 223 | 105 | 11 | 38 | 28 | 182 |
| North Dakota | 130 | 7 | 19 | 0 | 156 | 127 | 6 | 14 | 0 | 147 | 141 | 0 | 34 | 7 | 182 |
| Ohio | 105 | 211 | 2 | 0 | 318 | 106 | 211 | 3 | 0 | 320 | 103 | 207 | 1 | 0 | 311 |
| Oklahoma | 545 | 554 | 95 | 1,607 | 2,801 | 618 | 484 | 120 | 2,466 | 3,688 | 397 | 323 | 23 | 2,289 | 3,032 |
| Pennsylvania | 134 | 329 | 8 | 53 | 524 | 141 | 335 | 1 | 66 | 543 | 134 | 262 | 2 | 32 | 430 |
| Tennessee | 22 | 46 | 0 | 60 | 128 | 29 | 79 | 0 | 66 | 174 | 27 | 65 | 0 | 48 | 140 |
| Texas | | | | | 7,566 | | | | | 5,046 | | | | | 10,860 |
| Utah | 58 | 82 | 23 | 14 | 177 | 28 | 127 | 15 | 25 | 195 | 45 | 102 | 10 | 78 | 235 |
| Virginia | 0 | 85 | 0 | 0 | 85 | 0 | 98 | 1 | 0 | 99 | 0 | 76 | 0 | 0 | 76 |
| West Virginia | | | | | 171 | | | | | 220 | | | | | 152 |
| Wyoming | 203 | 1,549 | 81 | 4 | 1,837 | 267 | 1,435 | 63 | 0 | 1,765 | 148 | 1,234 | 46 | 0 | 1,428 |
| Totals - States | 6,095 | 5,509 | 1,077 | 2,842 | 23,260 | 6,329 | 5,697 | 1,523 | 3,419 | 23,106 | 5,025 | 4,590 | 1,501 | 3,000 | 26,098 |
| Alberta | 1,574 | 1,969 | 140 | 0 | 3,683 | 1,643 | 2,815 | 220 | 0 | 4,678 | 1,667 | 3,498 | 292 | 45 | 5,457 |
| British Columbia | 51 | 207 | 19 | 95 | 372 | 63 | 393 | 19 | 65 | 540 | 53 | 538 | 14 | 114 | 722 |
| Northwest Territories | 4 | 0 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 | 3 |
| Saskatchewan | 434 | 981 | 80 | 7 | 1,502 | 1,131 | 816 | 138 | 11 | 2,096 | 771 | 1,278 | 111 | 13 | 2,173 |
| Totals-Provinces | 2,063 | 3,157 | 239 | 102 | 5,561 | 2,838 | 4,024 | 377 | 76 | 7,315 | 2,494 | 5,314 | 417 | 172 | 8,355 |

Table 8B. Total Wells Plugged, Including Orphan Wells (2021–2023)

| State or Province | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells | Oil wells | Natural gas wells | Injection wells | Other wells | Total wells |
|---------------------------|--------------|-------------------|-----------------|--------------|---------------|--------------|-------------------|-----------------|--------------|---------------|--------------|-------------------|-----------------|--------------|---------------|
| | 2021 | | | | | 2022 | | | | | 2023 | | | | |
| Alabama | 7 | 130 | 5 | 4 | 146 | 23 | 83 | 5 | 6 | 117 | 11 | 97 | 6 | 5 | 119 |
| Alaska | 28 | 11 | 1 | 13 | 53 | 40 | 9 | 5 | 17 | 71 | 47 | 4 | 9 | 0 | 60 |
| Arkansas | 54 | 84 | | | | 61 | 52 | | | | 118 | 67 | 2 | 0 | 187 |
| California | 696 | 30 | 568 | 152 | 1,446 | 989 | 18 | 634 | 109 | 1,750 | 627 | 16 | 375 | 87 | 1,105 |
| Colorado | 733 | 691 | 12 | 54 | 1,490 | 707 | 817 | 13 | 30 | 1,597 | 716 | 918 | 3 | 22 | 1,659 |
| Idaho | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Illinois | 331 | 15 | 54 | 78 | 478 | 434 | 18 | 82 | 48 | 583 | 620 | 64 | 129 | 25 | 839 |
| Indiana | 62 | 8 | 24 | 36 | 130 | 94 | 4 | 15 | 30 | 143 | 187 | 94 | 42 | 91 | 414 |
| Kansas | 1,298 | 308 | 307 | 467 | 2,380 | 1,269 | 243 | 378 | 494 | 2,384 | 2,302 | 514 | 776 | 557 | 4,149 |
| Kentucky | 267 | 79 | 39 | 119 | 504 | 373 | 89 | 46 | 118 | 626 | 321 | 60 | 40 | 208 | 629 |
| Louisiana | 289 | 173 | 83 | 103 | 648 | 382 | 284 | 108 | 143 | 917 | 564 | 608 | 162 | 193 | 1,527 |
| Michigan | 62 | 139 | 12 | 137 | 350 | 56 | 147 | 17 | 106 | 326 | 67 | 111 | 14 | 99 | 291 |
| Mississippi | 28 | 36 | 13 | 11 | 88 | 85 | 36 | 31 | 19 | 171 | 78 | 45 | 26 | 19 | 168 |
| Missouri | 2 | 0 | 1 | 0 | 3 | 0 | 0 | 29 | 2 | 32 | 4 | 6 | 12 | 0 | 22 |
| Montana | 62 | 39 | 5 | 12 | 118 | 46 | 21 | 7 | 7 | 81 | 106 | 112 | 20 | 17 | 255 |
| Nebraska | 85 | 5 | 10 | 55 | 155 | 91 | 8 | 5 | 60 | 164 | 142 | 110 | 10 | 55 | 317 |
| Nevada | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 |
| New Mexico | 366 | 251 | 65 | 5 | 687 | 400 | 400 | 66 | 1 | 867 | 353 | 194 | 35 | 1 | 583 |
| New York | 98 | 21 | 21 | 33 | 173 | 85 | 9 | 19 | 6 | 119 | 127 | 46 | 15 | 14 | 202 |
| North Dakota | | | | | | | | | | | 226 | 1 | 54 | 7 | 288 |
| Ohio | 95 | 70 | 0 | 212 | 377 | 83 | 71 | 2 | 175 | 331 | 96 | 87 | 0 | 297 | 480 |
| Oklahoma | 534 | 368 | 97 | 204 | 1,203 | 779 | 407 | 153 | 175 | 1,514 | 1,175 | 511 | 329 | 290 | 2,305 |
| Pennsylvania | 119 | 297 | 3 | 54 | 473 | 199 | 322 | 9 | 76 | 606 | 184 | 328 | 8 | 107 | 627 |
| Tennessee | 9 | 11 | 0 | 35 | 55 | 10 | 15 | 0 | 76 | 101 | 15 | 14 | 0 | 66 | 95 |
| Texas | | | | | 7,100 | | | | | 8,224 | | | | | 9,114 |
| Utah | 117 | 79 | 18 | 55 | 269 | 161 | 69 | 26 | 54 | 311 | 106 | 84 | 22 | 29 | 241 |
| Virginia | 0 | 103 | 0 | 0 | 103 | 0 | 87 | 0 | 0 | 87 | 0 | 98 | 0 | 0 | 98 |
| West Virginia | 23 | 138 | 4 | 80 | 245 | 16 | 154 | 3 | 66 | 239 | 31 | 87 | 17 | 200 | 335 |
| Wyoming | 228 | 1,405 | 70 | 6 | 1,709 | 198 | 894 | 67 | 35 | 1,194 | 292 | 1,045 | 91 | 4 | 1,432 |
| Totals - States | 5,594 | 4,491 | 1,412 | 1,925 | 20,383 | 6,583 | 4,257 | 1,720 | 1,853 | 22,557 | 8,516 | 5,321 | 2,197 | 2,393 | 27,542 |
| Alberta | 3,486 | 6,077 | 512 | 1,805 | 11,880 | 3,405 | 5,633 | 402 | 1,590 | 11,030 | 2,197 | 3,366 | 353 | 1,282 | 7,198 |
| British Columbia | 153 | 456 | 27 | 188 | 824 | 63 | 357 | 13 | 158 | 591 | 164 | 226 | 55 | 142 | 587 |
| Northwest Territories | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 | 63 | 0 | 2 | 0 | 65 |
| Saskatchewan | 2,740 | 1,632 | 232 | 5 | 4,609 | 2,000 | 802 | 96 | 8 | 2,906 | 1,618 | 636 | 122 | 23 | 2,399 |
| Totals - Provinces | 6,379 | 8,165 | 771 | 1,998 | 17,313 | 5,473 | 6,792 | 511 | 1,756 | 14,532 | 4,042 | 4,228 | 532 | 1,447 | 10,249 |