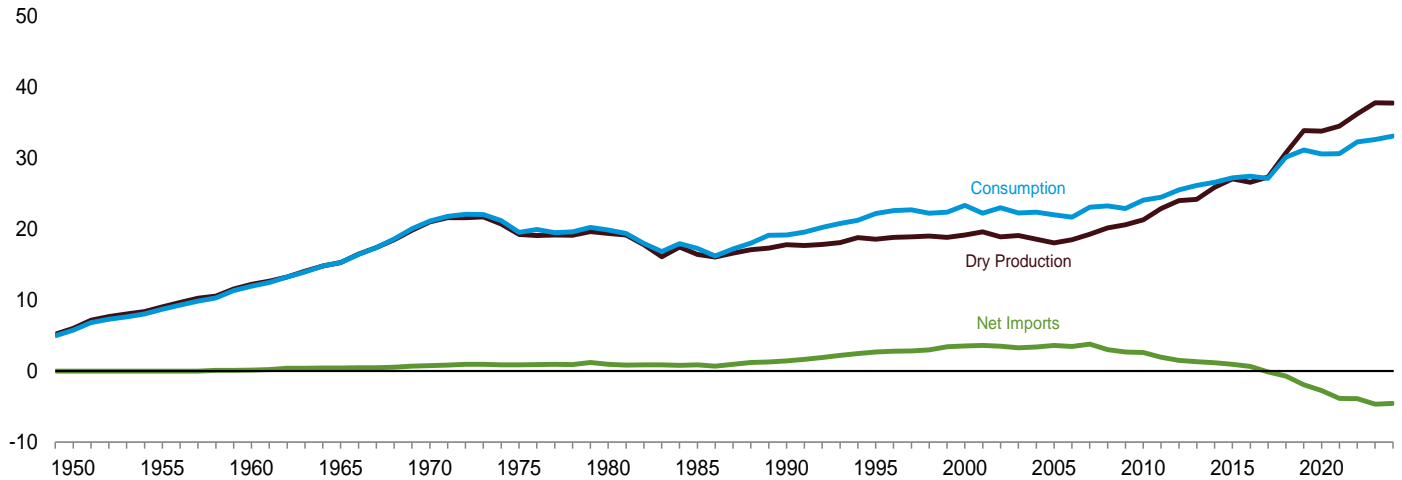


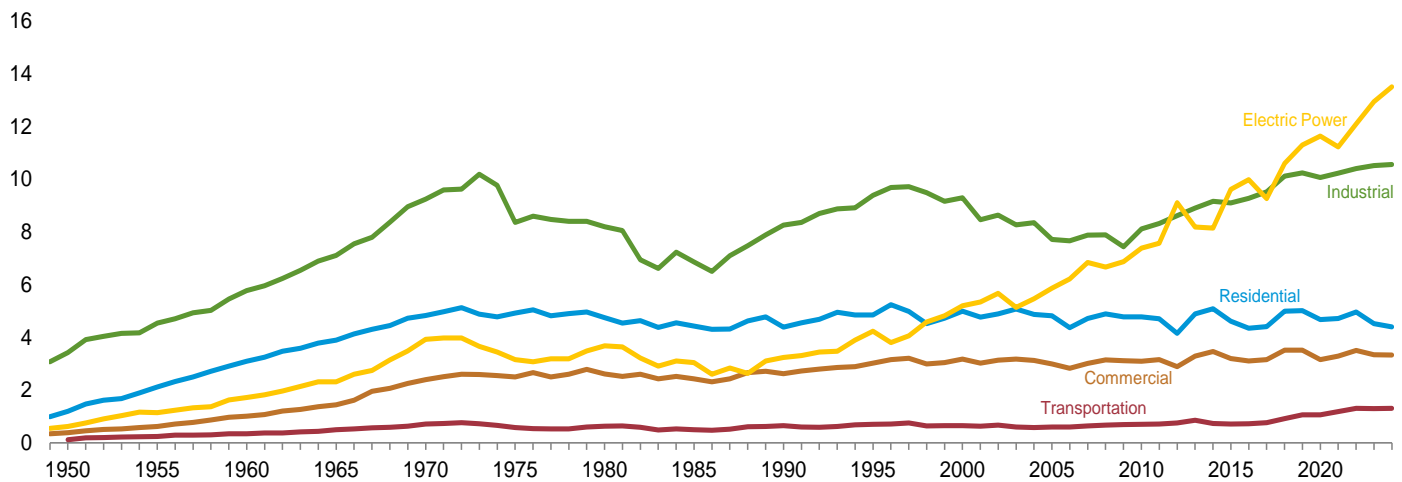
4. Natural Gas

Figure 4.1 Natural Gas
(Trillion Cubic Feet)

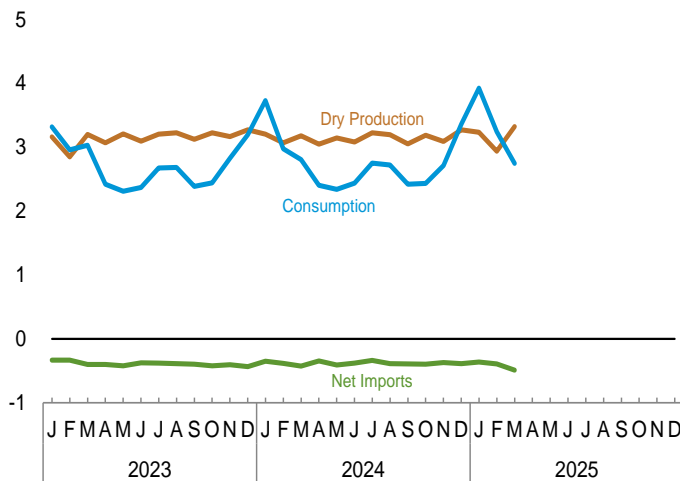
Overview, 1949–2024



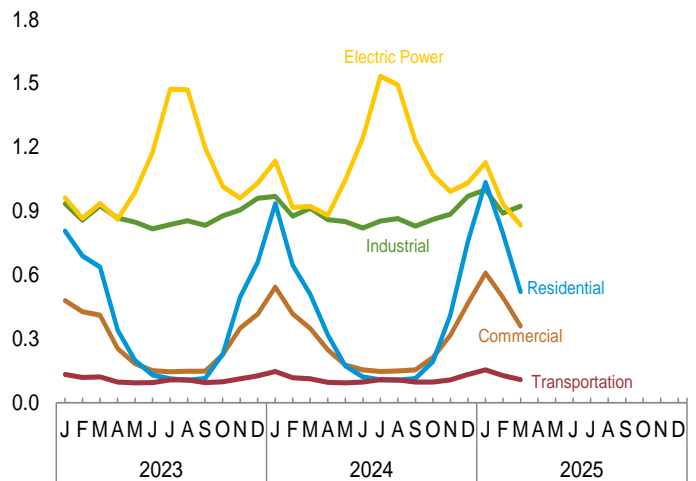
Consumption by Sector, 1949–2024



Overview, Monthly



Consumption by Sector, Monthly



Web Page: <http://www.eia.gov/totalenergy/data/monthly/#naturalgas>.
Sources: Tables 4.1 and 4.3.

Table 4.1 Natural Gas Overview
(Billion Cubic Feet)

| | Gross Withdrawals ^a | Marketed Production (Wet) ^b | NGPL Production ^c | Dry Gas Production ^d | Supplemental Gaseous Fuels ^e | Trade | | | Net Storage Withdrawals ^f | Balancing Item ^g | Consumption ^h |
|---------------------------------|--------------------------------|--|------------------------------|---------------------------------|---|--------------|--------------|---------------|--------------------------------------|-----------------------------|--------------------------|
| | | | | | | Imports | Exports | Net Imports | | | |
| 1950 Total | 8,480 | ⁱ 6,282 | 260 | ⁱ 6,022 | NA | 0 | 26 | -26 | -54 | -175 | 5,767 |
| 1955 Total | 11,720 | ⁱ 9,405 | 377 | ⁱ 9,029 | NA | 11 | 31 | -20 | -68 | -247 | 8,694 |
| 1960 Total | 15,088 | ⁱ 12,771 | 543 | ⁱ 12,228 | NA | 156 | 11 | 144 | -132 | -274 | 11,967 |
| 1965 Total | 17,963 | ⁱ 16,040 | 753 | ⁱ 15,286 | NA | 456 | 26 | 430 | -118 | -319 | 15,280 |
| 1970 Total | 23,786 | ⁱ 21,921 | 906 | ⁱ 21,014 | NA | 821 | 70 | 751 | -398 | -228 | 21,139 |
| 1975 Total | 21,104 | ⁱ 20,109 | 872 | ⁱ 19,236 | NA | 953 | 73 | 880 | -344 | -235 | 19,538 |
| 1980 Total | 21,870 | 20,180 | 777 | 19,403 | 155 | 985 | 49 | 936 | 23 | -640 | 19,877 |
| 1985 Total | 19,607 | 17,270 | 816 | 16,454 | 126 | 950 | 55 | 894 | 235 | -428 | 17,281 |
| 1990 Total | 21,523 | 18,594 | 784 | 17,810 | 123 | 1,532 | 86 | 1,447 | -513 | 307 | ^j 19,174 |
| 1995 Total | 23,744 | 19,506 | 908 | 18,599 | 110 | 2,841 | 154 | 2,687 | 415 | 396 | 22,207 |
| 2000 Total | 24,174 | 20,198 | 1,016 | 19,182 | 90 | 3,782 | 244 | 3,538 | 829 | -306 | 23,333 |
| 2005 Total | 23,457 | 18,927 | 876 | 18,051 | 64 | 4,341 | 729 | 3,612 | 52 | 236 | 22,014 |
| 2010 Total | 26,816 | 22,382 | 1,066 | 21,316 | 65 | 3,741 | 1,137 | 2,604 | -13 | 115 | 24,087 |
| 2011 Total | 28,479 | 24,036 | 1,134 | 22,902 | 60 | 3,469 | 1,506 | 1,963 | -354 | -94 | 24,477 |
| 2012 Total | 29,542 | 25,283 | 1,250 | 24,033 | 61 | 3,138 | 1,619 | 1,519 | -9 | -66 | 25,538 |
| 2013 Total | 29,523 | 25,562 | 1,357 | 24,206 | 55 | 2,883 | 1,572 | 1,311 | 546 | 38 | 26,155 |
| 2014 Total | 31,405 | 27,498 | 1,608 | 25,890 | 60 | 2,695 | 1,514 | 1,181 | -254 | -283 | 26,593 |
| 2015 Total | 32,915 | 28,772 | 1,707 | 27,065 | 59 | 2,718 | 1,784 | 935 | -547 | -268 | 27,244 |
| 2016 Total | 32,592 | 28,400 | 1,808 | 26,592 | 57 | 3,006 | 2,335 | 671 | 340 | -216 | 27,444 |
| 2017 Total | 33,292 | 29,238 | 1,897 | 27,341 | 66 | 3,033 | 3,154 | -121 | 254 | -400 | 27,140 |
| 2018 Total | 37,326 | 33,009 | 2,235 | 30,774 | 69 | 2,889 | 3,608 | -719 | 314 | -290 | 30,149 |
| 2019 Total | 40,780 | 36,447 | 2,548 | 33,899 | 61 | 2,742 | 4,658 | -1,916 | -503 | -397 | 31,143 |
| 2020 Total | 40,730 | 36,521 | 2,710 | 33,811 | 63 | 2,551 | 5,285 | -2,734 | -180 | -358 | 30,603 |
| 2021 Total | 41,677 | 37,338 | 2,809 | 34,529 | 66 | 2,808 | 6,653 | -3,845 | 83 | -188 | 30,646 |
| 2022 Total | 43,701 | 39,329 | 3,075 | 36,255 | 73 | 3,024 | 6,906 | -3,882 | 280 | -434 | 32,292 |
| 2023 January | 3,840 | 3,447 | 283 | 3,163 | 10 | 275 | 609 | -333 | 466 | 12 | 3,318 |
| February | 3,459 | 3,105 | 255 | 2,850 | 9 | 244 | 575 | -331 | 409 | 23 | 2,960 |
| March | 3,859 | 3,486 | 287 | 3,200 | 10 | 250 | 650 | -401 | 231 | -9 | 3,030 |
| April | 3,719 | 3,344 | 275 | 3,069 | 9 | 220 | 621 | -400 | -275 | 18 | 2,422 |
| May | 3,871 | 3,496 | 287 | 3,208 | 10 | 216 | 638 | -422 | -461 | -22 | 2,313 |
| June | 3,726 | 3,371 | 277 | 3,094 | 10 | 232 | 607 | -376 | -351 | -7 | 2,369 |
| July | 3,821 | 3,490 | 287 | 3,204 | 10 | 256 | 634 | -378 | -139 | -22 | 2,674 |
| August | 3,832 | 3,515 | 289 | 3,226 | 10 | 246 | 634 | -388 | -139 | -23 | 2,686 |
| September | 3,744 | 3,405 | 280 | 3,125 | 10 | 230 | 626 | -396 | -331 | -21 | 2,388 |
| October | 3,890 | 3,515 | 289 | 3,226 | 10 | 231 | 652 | -421 | -328 | -42 | 2,445 |
| November | 3,822 | 3,450 | 284 | 3,166 | 10 | 251 | 654 | -403 | 70 | -15 | 2,828 |
| December | 3,968 | 3,565 | 293 | 3,272 | 10 | 277 | 709 | -432 | 292 | 53 | 3,195 |
| Total | 45,551 | 41,190 | 3,386 | 37,803 | 117 | 2,928 | 7,610 | -4,681 | -555 | -54 | 32,629 |
| 2024 January | ^E 3,872 | ^E 3,478 | 272 | ^E 3,206 | 12 | 323 | 674 | -351 | 844 | 19 | 3,731 |
| February | ^E 3,723 | ^E 3,348 | 277 | ^E 3,071 | 10 | 258 | 644 | -385 | 263 | 18 | 2,977 |
| March | ^E 3,880 | ^E 3,486 | 306 | ^E 3,181 | 10 | 243 | 668 | -425 | 46 | -6 | 2,806 |
| April | ^E 3,716 | ^E 3,352 | 301 | ^E 3,050 | 10 | 222 | 567 | -345 | -256 | -56 | 2,403 |
| May | ^E 3,834 | ^E 3,461 | 315 | ^E 3,147 | 10 | 238 | 646 | -408 | -363 | -46 | 2,340 |
| June | ^E 3,731 | ^E 3,386 | 302 | ^E 3,083 | 9 | 247 | 627 | -380 | -254 | -21 | 2,437 |
| July | ^E 3,890 | ^E 3,536 | 308 | ^E 3,228 | 10 | 271 | 608 | -337 | -120 | -29 | 2,752 |
| August | ^E 3,850 | ^E 3,508 | 313 | ^E 3,195 | 10 | 261 | 650 | -389 | -79 | -15 | 2,722 |
| September | ^E 3,705 | ^E 3,363 | 309 | ^E 3,054 | 8 | 247 | 638 | -392 | -250 | 3 | 2,423 |
| October | ^E 3,889 | ^E 3,513 | 323 | ^E 3,189 | 9 | 254 | 649 | -395 | -327 | -40 | 2,436 |
| November | ^E 3,786 | ^E 3,404 | 314 | ^E 3,090 | 9 | 270 | 640 | -369 | 23 | -37 | 2,716 |
| December | ^E 3,992 | ^E 3,590 | 318 | ^E 3,273 | 12 | 309 | 698 | -388 | 476 | -12 | 3,361 |
| Total | ^E45,868 | ^E41,425 | 3,658 | ^E37,767 | 120 | 3,145 | 7,709 | -4,564 | 5 | -223 | 33,105 |
| 2025 January | ^E 3,933 | ^E 3,534 | 298 | ^E 3,236 | 14 | 335 | 699 | -364 | 1,012 | 30 | 3,927 |
| February | ^{RE} 3,581 | ^{RE} 3,219 | 279 | ^{RE} 2,940 | 11 | 295 | 686 | -391 | 635 | ^R 49 | 3,244 |
| March | ^E 4,053 | ^E 3,652 | 326 | ^E 3,326 | 11 | 263 | 753 | -490 | -50 | -47 | 2,749 |
| 3-Month Total | ^E11,566 | ^E10,405 | 903 | ^E9,502 | 36 | 894 | 2,139 | -1,246 | 1,597 | 31 | 9,921 |
| 2024 3-Month Total | ^E11,475 | ^E10,312 | 854 | ^E9,458 | 32 | 825 | 1,986 | -1,161 | 1,153 | 31 | 9,513 |
| 2023 3-Month Total | 11,158 | 10,038 | 825 | 9,213 | 28 | 769 | 1,834 | -1,065 | 1,106 | 26 | 9,308 |

^a Gases withdrawn from natural gas, crude oil, coalbed, and shale gas wells. Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but excludes lease condensate.

^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.

^c Natural gas plant liquids (NGPL) production, gaseous equivalent. This data series was previously called "Extraction Loss." See Note 2, "Natural Gas Plant Liquids Production," at end of section.

^d Marketed production (wet) minus NGPL production.

^e See Note 3, "Supplemental Gaseous Fuels," at end of section.

^f Net withdrawals from underground storage. For 1980–2017, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.

^g See Note 5, "Natural Gas Balancing Item," at end of section. Beginning in 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

^h See Note 6, "Natural Gas Consumption," at end of section.

ⁱ Through 1979, may include unknown quantities of nonhydrocarbon gases.

^j For 1989–1992, a small amount of consumption at independent power

producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989–1992," at end of section.

R=Revised. E=Estimate. NA=Not available.

Notes: • See Note 8, "Natural Gas Data Adjustments, 1993–2000, 2017, 2020," at end of section. • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, for which underground storage is excluded from "Net Storage Withdrawals" through 2012).

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#naturalgas> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • **Imports and Exports:** Tables 4.2a and 4.2b. • **Consumption:** Table 4.3. • **Balancing Item:** Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. • **All Other Data: 1949–2022—**U.S. Energy Information Administration (EIA), *Natural Gas Annual*, annual reports. **2023 forward—**EIA, *Natural Gas Monthly*, May 2025, Table 1.

Table 4.2a Natural Gas Imports by Country
(Billion Cubic Feet)

| | Algeria ^a | Australia ^a | Canada ^b | Egypt ^a | Mexico ^b | Nigeria ^a | Norway ^a | Oman ^a | Qatar ^a | Trinidad and Tobago ^a | United Arab Emirates ^a | Yemen ^a | Other ^a | Total |
|--------------------------|----------------------|------------------------|---------------------|--------------------|---------------------|----------------------|---------------------|-------------------|--------------------|----------------------------------|-----------------------------------|--------------------|--------------------|-------|
| 1950 Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1955 Total | 0 | 0 | 11 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 11 |
| 1960 Total | 0 | 0 | 109 | 0 | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 156 |
| 1965 Total | 0 | 0 | 405 | 0 | 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 456 |
| 1970 Total | 1 | 0 | 779 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 821 |
| 1975 Total | 5 | 0 | 948 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 953 |
| 1980 Total | 86 | 0 | 797 | 0 | 102 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 985 |
| 1985 Total | 24 | 0 | 926 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 950 |
| 1990 Total | 84 | 0 | 1,448 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,532 |
| 1995 Total | 18 | 0 | 2,816 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,841 |
| 2000 Total | 47 | 6 | 3,544 | 0 | 12 | 13 | 0 | 10 | 46 | 99 | 3 | 0 | 21 | 3,782 |
| 2005 Total | 97 | 0 | 3,700 | 73 | 9 | 8 | 0 | 2 | 3 | 439 | 0 | 0 | 11 | 4,341 |
| 2010 Total | 0 | 0 | 3,280 | 73 | 30 | 42 | 26 | 0 | 46 | 190 | 0 | 39 | 81 | 3,741 |
| 2011 Total | 0 | 0 | 3,117 | 35 | 3 | 2 | 15 | 0 | 91 | 129 | 0 | 60 | 92 | 3,469 |
| 2012 Total | 0 | 0 | 2,963 | 3 | (s) | 0 | 6 | 0 | 34 | 112 | 0 | 20 | (s) | 3,138 |
| 2013 Total | 0 | 0 | 2,786 | 0 | 1 | 3 | 6 | 0 | 7 | 70 | 0 | 11 | 0 | 2,883 |
| 2014 Total | 0 | 0 | 2,635 | 0 | 1 | 0 | 6 | 0 | 0 | 43 | 0 | 8 | 3 | 2,695 |
| 2015 Total | 0 | 0 | 2,626 | 0 | 1 | 0 | 12 | 0 | 0 | 71 | 0 | 7 | 0 | 2,718 |
| 2016 Total | 0 | 0 | 2,918 | 0 | 1 | 0 | 3 | 0 | 0 | 84 | 0 | 0 | 0 | 3,006 |
| 2017 Total | 0 | 0 | 2,955 | 0 | 1 | 6 | 0 | 0 | 0 | 70 | 0 | 0 | 0 | 3,033 |
| 2018 Total | 0 | 0 | 2,811 | 0 | 3 | 3 | 0 | 0 | 0 | 66 | 0 | 0 | 6 | 2,889 |
| 2019 Total | 0 | 0 | 2,687 | 0 | 2 | 3 | 0 | 0 | 0 | 47 | 0 | 0 | 3 | 2,742 |
| 2020 Total | 0 | 0 | 2,500 | 0 | 2 | 7 | 3 | 0 | 0 | 39 | 0 | 0 | 0 | 2,551 |
| 2021 Total | 0 | 0 | 2,785 | 0 | 2 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 2,808 |
| 2022 Total | 0 | 0 | 2,785 | 0 | 2 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 2,808 |
| 2023 January | 0 | 0 | 272 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 275 |
| February | 0 | 0 | 239 | 0 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | (s) | 244 |
| March | 0 | 0 | 248 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | (s) | 250 |
| April | 0 | 0 | 220 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 220 |
| May | 0 | 0 | 215 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | (s) | 216 |
| June | 0 | 0 | 232 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232 |
| July | 0 | 0 | 255 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 256 |
| August | 0 | 0 | 246 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 246 |
| September | 0 | 0 | 230 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 230 |
| October | 0 | 0 | 231 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 231 |
| November | 0 | 0 | 251 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 251 |
| December | 0 | 0 | 274 | 0 | (s) | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 277 |
| Total | 0 | 0 | 2,914 | 0 | 1 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 1 | 2,928 |
| 2024 January | 0 | 0 | 319 | 0 | (s) | 0 | 3 | 0 | 0 | 1 | 0 | 0 | (s) | 323 |
| February | 0 | 0 | 256 | 0 | (s) | 0 | 0 | 0 | 0 | 3 | 0 | 0 | (s) | 258 |
| March | 0 | 0 | 239 | 0 | (s) | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 243 |
| April | 0 | 0 | 222 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 222 |
| May | 0 | 0 | 238 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 238 |
| June | 0 | 0 | 247 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 247 |
| July | 0 | 0 | 271 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 271 |
| August | 0 | 0 | 261 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 261 |
| September | 0 | 0 | 244 | 0 | (s) | 0 | 2 | 0 | 0 | 0 | 0 | 0 | (s) | 247 |
| October | 0 | 0 | 254 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 254 |
| November | 0 | 0 | 270 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 270 |
| December | 0 | 0 | 307 | 0 | (s) | 0 | 0 | 0 | 0 | 2 | 0 | 0 | (s) | 309 |
| Total | 0 | 0 | 3,129 | 0 | (s) | 0 | 5 | 0 | 0 | 10 | 0 | 0 | (s) | 3,145 |
| 2025 January | 0 | 0 | 334 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | (s) | 335 |
| February | 0 | 0 | 295 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 295 |
| March | 0 | 0 | 263 | 0 | (s) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | (s) | 263 |
| 3-Month Total | 0 | 0 | 892 | 0 | (s) | 0 | 0 | 0 | 0 | 1 | 0 | 0 | (s) | 894 |
| 2024 3-Month Total | 0 | 0 | 813 | 0 | (s) | 0 | 3 | 0 | 0 | 9 | 0 | 0 | (s) | 825 |
| 2023 3-Month Total | 0 | 0 | 760 | 0 | 1 | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 1 | 769 |

^a As liquefied natural gas.
^b By pipeline, except for small amounts of: liquefied natural gas (LNG) imported from Canada in 1973, 1977, 1981, and 2013 forward; and compressed natural gas (CNG) imported from Canada in 2014 forward; See Note 9, "Natural Gas Imports and Exports," at end of section.
(s)=Less than 500 million cubic feet.
Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.
• Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District

of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#naturalgas> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: • 1949–1954: U.S. Energy Information Administration (EIA) estimates based on Bureau of Mines, Minerals Yearbook, "Natural Gas" chapter. • 1955–1971: Federal Power Commission data. • 1972–1987: EIA, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • 1988–2022: EIA, *Natural Gas Annual*, annual reports. • 2023 forward: EIA, *Natural Gas Monthly*, May 2025, Table 4; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.2b Natural Gas Exports by Country
(Billion Cubic Feet)

| | Brazil ^a | Canada ^b | Chile ^a | China ^a | France ^a | India ^a | Japan ^a | Mexico ^b | South Korea ^a | Spain ^a | Turkey ^a | United Kingdom ^a | Other ^a | Total |
|--------------------------|---------------------|---------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|--------------------------|--------------------|---------------------|-----------------------------|--------------------|-------|
| 1950 Total | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 26 |
| 1955 Total | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 31 |
| 1960 Total | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 11 |
| 1965 Total | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 26 |
| 1970 Total | 0 | 11 | 0 | 0 | 0 | 0 | 44 | 15 | 0 | 0 | 0 | 0 | 0 | 70 |
| 1975 Total | 0 | 10 | 0 | 0 | 0 | 0 | 53 | 9 | 0 | 0 | 0 | 0 | 0 | 73 |
| 1980 Total | 0 | (s) | 0 | 0 | 0 | 0 | 45 | 4 | 0 | 0 | 0 | 0 | 0 | 49 |
| 1985 Total | 0 | (s) | 0 | 0 | 0 | 0 | 53 | 2 | 0 | 0 | 0 | 0 | 0 | 55 |
| 1990 Total | 0 | 17 | 0 | 0 | 0 | 0 | 53 | 16 | 0 | 0 | 0 | 0 | 0 | 86 |
| 1995 Total | 0 | 28 | 0 | 0 | 0 | 0 | 65 | 61 | 0 | 0 | 0 | 0 | 0 | 154 |
| 2000 Total | 0 | 73 | 0 | 0 | 0 | 0 | 66 | 106 | 0 | 0 | 0 | 0 | 0 | 244 |
| 2005 Total | 0 | 358 | 0 | 0 | 0 | 0 | 65 | 305 | 0 | 0 | 0 | 0 | 0 | 729 |
| 2010 Total | 3 | 739 | 0 | 0 | 0 | 3 | 33 | 333 | 12 | 4 | 0 | 10 | 32 | 1,137 |
| 2011 Total | 11 | 937 | 3 | 7 | 0 | 13 | 18 | 499 | 9 | 6 | 0 | 3 | 52 | 1,506 |
| 2012 Total | 8 | 971 | 0 | 0 | 0 | 3 | 14 | 620 | 0 | 0 | 0 | 0 | 14 | 1,619 |
| 2013 Total | 0 | 911 | 0 | 0 | 0 | 0 | 0 | 661 | 0 | 0 | 0 | 0 | 0 | 1,572 |
| 2014 Total | 3 | 770 | 0 | 0 | 0 | 0 | 13 | 729 | 0 | 0 | 0 | 0 | 0 | 1,514 |
| 2015 Total | 6 | 701 | 0 | 0 | 0 | 0 | 8 | 1,054 | 0 | 0 | 3 | 0 | 11 | 1,784 |
| 2016 Total | 11 | 771 | 29 | 17 | 0 | 17 | 11 | 1,405 | 10 | 3 | 9 | 0 | 51 | 2,335 |
| 2017 Total | 18 | 917 | 26 | 103 | 0 | 21 | 53 | 1,671 | 130 | 29 | 25 | 3 | 157 | 3,154 |
| 2018 Total | 36 | 836 | 41 | 90 | 18 | 58 | 126 | 1,871 | 252 | 10 | 23 | 51 | 194 | 3,608 |
| 2019 Total | 54 | 973 | 90 | 7 | 118 | 91 | 201 | 2,010 | 270 | 167 | 31 | 119 | 527 | 4,658 |
| 2020 Total | 112 | 904 | 81 | 214 | 90 | 124 | 288 | 2,026 | 317 | 200 | 124 | 160 | 644 | 5,285 |
| 2021 Total | 308 | 937 | 122 | 453 | 171 | 196 | 355 | 2,171 | 453 | 215 | 189 | 195 | 887 | 6,653 |
| 2022 Total | 308 | 937 | 122 | 453 | 171 | 196 | 355 | 2,171 | 453 | 215 | 189 | 195 | 887 | 6,653 |
| 2023 January | 0 | 105 | 3 | 18 | 34 | 7 | 18 | 169 | 25 | 14 | 39 | 63 | 113 | 609 |
| February | 0 | 96 | 0 | 3 | 39 | 14 | 14 | 153 | 23 | 32 | 13 | 72 | 116 | 575 |
| March | 1 | 106 | 7 | 5 | 29 | 10 | 20 | 181 | 11 | 38 | 12 | 70 | 159 | 650 |
| April | 4 | 76 | 0 | 3 | 53 | 15 | 14 | 169 | 25 | 14 | 14 | 76 | 159 | 621 |
| May | 4 | 78 | 6 | 7 | 51 | 7 | 31 | 194 | 11 | 12 | 0 | 25 | 211 | 638 |
| June | 9 | 75 | 4 | 20 | 46 | 14 | 28 | 204 | 17 | 12 | 0 | 0 | 178 | 607 |
| July | 0 | 77 | 7 | 35 | 21 | 20 | 44 | 211 | 16 | 34 | 0 | 0 | 169 | 634 |
| August | 3 | 68 | 3 | 14 | 34 | 14 | 31 | 213 | 35 | 20 | 0 | 4 | 194 | 634 |
| September | 7 | 77 | 0 | 10 | 32 | 24 | 33 | 202 | 24 | 10 | 4 | 7 | 195 | 626 |
| October | 4 | 67 | 0 | 18 | 54 | 14 | 24 | 202 | 28 | 50 | 5 | 25 | 161 | 652 |
| November | 4 | 89 | 0 | 26 | 59 | 7 | 25 | 179 | 26 | 17 | 28 | 48 | 147 | 654 |
| December | 4 | 111 | 0 | 14 | 41 | 17 | 27 | 178 | 35 | 16 | 42 | 60 | 163 | 709 |
| Total | 39 | 1,025 | 31 | 173 | 493 | 164 | 310 | 2,256 | 276 | 270 | 156 | 450 | 1,966 | 7,610 |
| 2024 January | 7 | 92 | 4 | 8 | 28 | 11 | 19 | ^R 188 | 21 | 39 | 43 | 43 | ^R 172 | 674 |
| February | 6 | 114 | 4 | 16 | 49 | 14 | 23 | 170 | 16 | 14 | 20 | 35 | 163 | 644 |
| March | 0 | 116 | 6 | 17 | 61 | 14 | 29 | 182 | 21 | 22 | 9 | 14 | 177 | 668 |
| April | 1 | 73 | 5 | 10 | 38 | 21 | 22 | 191 | 17 | 10 | 3 | 7 | 169 | 567 |
| May | 6 | 67 | 7 | 26 | 20 | 45 | 41 | 215 | 28 | 8 | 0 | 7 | 175 | 646 |
| June | 14 | 67 | 7 | 17 | 7 | 29 | 28 | 204 | 45 | 17 | 0 | 6 | 187 | 627 |
| July | 4 | 66 | 11 | 30 | 14 | 25 | 30 | 218 | 24 | 15 | 0 | 4 | 168 | 608 |
| August | 17 | 66 | 4 | 28 | 8 | 25 | 30 | 221 | 43 | 21 | 0 | 14 | 173 | 650 |
| September | 22 | 70 | 0 | 32 | 24 | 32 | 32 | 206 | 26 | 14 | 0 | 4 | 178 | 638 |
| October | 13 | 72 | 0 | 11 | 40 | 27 | 30 | 203 | 21 | 7 | 24 | 14 | 185 | 649 |
| November | 10 | 85 | 2 | 10 | 24 | 7 | 28 | 178 | 16 | 11 | 47 | 45 | 176 | 640 |
| December | 6 | 110 | 6 | 7 | 43 | 7 | 23 | 179 | 11 | 33 | 69 | 57 | 148 | 698 |
| Total | 106 | 997 | 56 | 213 | 355 | 256 | 336 | ^R 2,356 | 289 | 211 | 215 | 249 | ^R 2,070 | 7,709 |
| 2025 January | 0 | 85 | 3 | 0 | 50 | 11 | 4 | 199 | 11 | 30 | 71 | 63 | 173 | 699 |
| February | 9 | 101 | 0 | 0 | 64 | 7 | 6 | 176 | 10 | 18 | 73 | 69 | ^R 152 | 686 |
| March | 5 | 108 | 3 | 0 | 70 | 14 | 17 | 187 | 17 | 52 | 11 | 38 | 231 | 753 |
| 3-Month Total | 15 | 294 | 7 | 0 | 184 | 31 | 27 | 563 | 38 | 100 | 155 | 170 | 555 | 2,139 |
| 2024 3-Month Total | 14 | 322 | 14 | 42 | 138 | 38 | 71 | 541 | 58 | 74 | 72 | 91 | 511 | 1,986 |
| 2023 3-Month Total | 1 | 307 | 11 | 26 | 102 | 31 | 52 | 503 | 58 | 84 | 65 | 205 | 389 | 1,834 |

^a As liquefied natural gas.
^b By pipeline, except for small amounts of: liquefied natural gas (LNG) exported to Canada in 2007 and 2012 forward; compressed natural gas (CNG) exported to Canada in 2013 forward; and LNG exported to Mexico beginning in 1998. See Note 9, "Natural Gas Imports and Exports," at end of section.
R=Revised. (s)=Less than 500 million cubic feet.
Notes: • Exports include re-exports. • See Note 9, "Natural Gas Imports and Exports," at end of section. • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is

the 50 states and the District of Columbia.
Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#naturalgas> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: • **1949–1954:** U.S. Energy Information Administration (EIA) estimates based on Bureau of Mines, Minerals Yearbook, "Natural Gas" chapter. • **1955–1971:** Federal Power Commission data. • **1972–1987:** EIA, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • **1988–2022:** EIA, *Natural Gas Annual*, annual reports. • **2023 forward:** EIA, *Natural Gas Monthly*, May 2025, Table 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.3 Natural Gas Consumption by Sector
(Billion Cubic Feet)

| | End-Use Sectors | | | | | | | | | | Electric Power Sector ^{f,g} | Total |
|--------------------------|-----------------|--------------------------|----------------------|------------------|----------------------|-------|---|--------------|-------|---------|--------------------------------------|--------|
| | Residential | Com-mercial ^a | Lease and Plant Fuel | Industrial | | | Transportation | | | | | |
| | | | | Other Industrial | | | Pipelines ^d and Dis-tribution ^e | Vehicle Fuel | Total | | | |
| | | | | CHP ^b | Non-CHP ^c | Total | | | | Total | | |
| 1950 Total | 1,198 | 388 | 928 | (h) | 2,498 | 2,498 | 3,426 | 126 | NA | 126 | 629 | 5,767 |
| 1955 Total | 2,124 | 629 | 1,131 | (h) | 3,411 | 3,411 | 4,542 | 245 | NA | 245 | 1,153 | 8,694 |
| 1960 Total | 3,103 | 1,020 | 1,237 | (h) | 4,535 | 4,535 | 5,771 | 347 | NA | 347 | 1,725 | 11,967 |
| 1965 Total | 3,903 | 1,444 | 1,156 | (h) | 5,955 | 5,955 | 7,112 | 501 | NA | 501 | 2,321 | 15,280 |
| 1970 Total | 4,837 | 2,399 | 1,399 | (h) | 7,851 | 7,851 | 9,249 | 722 | NA | 722 | 3,932 | 21,139 |
| 1975 Total | 4,924 | 2,508 | 1,396 | (h) | 6,968 | 6,968 | 8,365 | 583 | NA | 583 | 3,158 | 19,538 |
| 1980 Total | 4,752 | 2,611 | 1,026 | (h) | 7,172 | 7,172 | 8,198 | 635 | NA | 635 | 3,682 | 19,877 |
| 1985 Total | 4,433 | 2,432 | 966 | (h) | 5,901 | 5,901 | 6,867 | 504 | NA | 504 | 3,044 | 17,281 |
| 1990 Total | 4,391 | 2,623 | 1,236 | | 5,963 | 5,963 | 8,255 | 660 | (s) | 660 | 3,245 | 19,174 |
| 1995 Total | 4,850 | 3,031 | 1,220 | | 6,906 | 6,906 | 9,384 | 700 | 5 | 705 | 4,237 | 22,207 |
| 2000 Total | 4,996 | 3,182 | 1,151 | | 6,757 | 6,757 | 9,293 | 642 | 13 | 655 | 5,206 | 23,333 |
| 2005 Total | 4,827 | 2,999 | 1,112 | | 5,518 | 5,518 | 7,713 | 584 | 23 | 607 | 5,869 | 22,014 |
| 2010 Total | 4,782 | 3,103 | 1,286 | | 5,797 | 5,797 | 8,112 | 674 | 29 | 703 | 7,387 | 24,087 |
| 2011 Total | 4,714 | 3,155 | 1,323 | | 5,931 | 5,931 | 8,317 | 688 | 30 | 718 | 7,574 | 24,477 |
| 2012 Total | 4,150 | 2,895 | 1,396 | | 6,077 | 6,077 | 8,622 | 731 | 30 | 761 | 9,111 | 25,538 |
| 2013 Total | 4,897 | 3,295 | 1,483 | | 6,255 | 6,255 | 8,909 | 833 | 30 | 863 | 8,191 | 26,155 |
| 2014 Total | 5,087 | 3,466 | 1,512 | | 6,501 | 6,501 | 9,158 | 700 | 35 | 735 | 8,146 | 26,593 |
| 2015 Total | 4,613 | 3,202 | 1,576 | | 6,300 | 6,300 | 9,098 | 678 | 39 | 718 | 9,613 | 27,244 |
| 2016 Total | 4,347 | 3,110 | 1,545 | | 6,519 | 6,519 | 9,274 | 687 | 42 | 729 | 9,985 | 27,444 |
| 2017 Total | 4,413 | 3,165 | 1,583 | | 6,686 | 6,686 | 9,526 | 722 | 48 | 770 | 9,266 | 27,140 |
| 2018 Total | 4,998 | 3,514 | 1,694 | | 7,103 | 7,103 | 10,112 | 877 | 50 | 927 | 10,599 | 30,149 |
| 2019 Total | 5,019 | 3,515 | 1,823 | | 7,042 | 7,042 | 10,240 | 1,018 | 53 | 1,071 | 11,299 | 31,143 |
| 2020 Total | 4,674 | 3,163 | 1,851 | | 6,755 | 6,755 | 10,064 | 1,020 | 49 | 1,070 | 11,632 | 30,603 |
| 2021 Total | 4,717 | 3,289 | 1,851 | | 6,995 | 6,995 | 10,225 | 1,131 | 54 | 1,186 | 11,229 | 30,646 |
| 2022 Total | 4,964 | 3,511 | 1,879 | | 7,154 | 7,154 | 10,408 | 1,252 | 65 | 1,317 | 12,092 | 32,292 |
| 2023 January | 807 | 480 | 165 | 120 | 651 | 771 | 935 | 128 | 5 | 133 | 963 | 3,318 |
| February | 690 | 428 | 148 | 107 | 601 | 708 | 857 | 114 | 5 | 119 | 866 | 2,960 |
| March | 637 | 411 | 166 | 117 | 641 | 758 | 925 | 116 | 5 | 121 | 936 | 3,030 |
| April | 341 | 255 | 160 | 106 | 601 | 707 | 867 | 92 | 5 | 97 | 862 | 2,422 |
| May | 199 | 184 | 167 | 113 | 570 | 682 | 849 | 87 | 5 | 93 | 989 | 2,313 |
| June | 130 | 151 | 161 | 117 | 540 | 656 | 817 | 90 | 5 | 95 | 1,177 | 2,369 |
| July | 113 | 145 | 167 | 122 | 549 | 670 | 837 | 102 | 5 | 107 | 1,473 | 2,674 |
| August | 106 | 148 | 168 | 122 | 566 | 687 | 855 | 102 | 5 | 107 | 1,470 | 2,686 |
| September | 114 | 148 | 163 | 117 | 553 | 671 | 833 | 90 | 5 | 95 | 1,198 | 2,388 |
| October | 228 | 226 | 168 | 114 | 596 | 710 | 878 | 92 | 5 | 98 | 1,015 | 2,445 |
| November | 497 | 350 | 165 | 117 | 624 | 741 | 906 | 108 | 5 | 113 | 962 | 2,828 |
| December | 661 | 416 | 170 | 126 | 664 | 790 | 960 | 122 | 5 | 127 | 1,032 | 3,195 |
| Total | 4,523 | 3,341 | 1,966 | 1,396 | 7,156 | 8,552 | 10,518 | 1,244 | 62 | 1,306 | 12,940 | 32,629 |
| 2024 January | 935 | 544 | E 166 | 131 | 671 | 803 | 969 | E 142 | E 5 | E 147 | 1,136 | 3,731 |
| February | 647 | 418 | E 160 | 114 | 603 | 717 | 877 | E 114 | E 4 | E 118 | 917 | 2,977 |
| March | 509 | 349 | E 166 | 115 | 633 | 748 | 914 | E 107 | E 5 | E 112 | 922 | 2,806 |
| April | 318 | 249 | E 160 | 113 | 587 | 700 | 860 | E 92 | E 4 | E 96 | 880 | 2,403 |
| May | 173 | 177 | E 165 | 113 | 573 | 686 | 851 | E 89 | E 5 | E 94 | 1,045 | 2,340 |
| June | 122 | 154 | E 162 | 110 | 548 | 658 | 820 | E 93 | E 4 | E 97 | 1,244 | 2,437 |
| July | 107 | 147 | E 169 | 117 | 569 | 685 | 854 | E 105 | E 5 | E 109 | 1,534 | 2,752 |
| August | 106 | 149 | E 167 | 121 | 577 | 698 | 865 | E 104 | E 5 | E 108 | 1,493 | 2,722 |
| September | 114 | 155 | E 161 | 113 | 556 | 669 | 830 | E 92 | E 4 | E 97 | 1,228 | 2,423 |
| October | 194 | 213 | E 168 | 110 | 583 | 693 | 861 | E 93 | E 5 | E 97 | 1,071 | 2,436 |
| November | 413 | 317 | E 162 | 115 | 609 | 724 | 886 | E 104 | E 4 | E 108 | 992 | 2,716 |
| December | 758 | 467 | E 171 | 128 | 671 | 798 | 970 | E 128 | E 5 | E 133 | 1,033 | 3,361 |
| Total | 4,397 | 3,337 | E 1,977 | 1,399 | 7,180 | 8,579 | 10,557 | E 1,262 | E 53 | E 1,316 | 13,497 | 33,105 |
| 2025 January | 1,035 | 609 | E 169 | 130 | 701 | 831 | 1,000 | E 150 | E 5 | E 154 | 1,128 | 3,927 |
| February | 797 | 495 | RE 154 | 112 | 625 | 737 | 890 | E 124 | E 4 | E 128 | 934 | 3,244 |
| March | 522 | 361 | E 174 | 119 | 631 | 749 | 924 | E 105 | E 5 | E 109 | 834 | 2,749 |
| 3-Month Total | 2,355 | 1,465 | E 497 | 360 | 1,957 | 2,317 | 2,814 | E 378 | E 13 | E 392 | 2,895 | 9,921 |
| 2024 3-Month Total | 2,091 | 1,310 | E 492 | 360 | 1,907 | 2,268 | 2,760 | E 363 | E 13 | E 376 | 2,976 | 9,513 |
| 2023 3-Month Total | 2,135 | 1,319 | 479 | 344 | 1,893 | 2,237 | 2,716 | 358 | 15 | 374 | 2,764 | 9,308 |

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.

^b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.

^c All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

^d Natural gas consumed in the operation of pipelines, primarily in compressors. Beginning in 2009, includes line loss, which is known volumes of natural gas that are the result of leaks, damage, accidents, migration, and/or blow down.

^e Natural gas used as fuel in the delivery of natural gas to consumers. Beginning in 2009, includes line loss, which is known volumes of natural gas that are the result of leaks, damage, accidents, migration, and/or blow down.

^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

^h Included in "Non-CHP."

ⁱ For 1989–1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 7, "Natural Gas Consumption, 1989–1992," at end of section.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 500 million cubic feet.

Notes: • Data are for natural gas, plus a small amount of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of section. • See Note 8, "Natural Gas Data Adjustments, 1993–2000, 2017, 2020," at end of section.

• See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#naturalgas> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • **Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1949–2022**—U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions. **2023 forward**—EIA, *Natural Gas Monthly (NGM)*, May 2025, Table 2. • **Other Industrial CHP:** Table 7.4c. • **Other Industrial Non-CHP:** Calculated as other industrial total minus other industrial CHP. • **Industrial Total:** Calculated as lease and plant fuel plus other industrial total. • **Vehicle Fuel: 1990 and 1991**—EIA, *NGA 2000*, (November 2001), Table 95. **1992–1998**—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). **1999–2022**—EIA, *NGA*, annual reports. **2023 forward**—EIA, *NGM*, May 2025, Table 2. • **Transportation Total:** Calculated as pipelines and distribution plus vehicle fuel. • **Electric Power Sector:** Table 7.4b. • **Total Consumption:** Calculated as the sum of residential, commercial, industrial total, transportation total, and electric power sector.

Table 4.4 Natural Gas in Underground Storage
(Volumes in Billion Cubic Feet)

| | Natural Gas in Underground Storage, End of Period | | | Change in Working Gas From Same Period Previous Year | | Storage Activity | | |
|--------------------------|---|-------------|--------------------|--|---------|------------------|------------|--------------------|
| | Base Gas | Working Gas | Total ^a | Volume | Percent | Withdrawals | Injections | Net ^{b,c} |
| 1950 Total | NA | NA | NA | NA | NA | 175 | 230 | -54 |
| 1955 Total | 863 | 505 | 1,368 | 40 | 8.7 | 437 | 505 | -68 |
| 1960 Total | NA | NA | 2,184 | NA | NA | 713 | 844 | -132 |
| 1965 Total | 1,848 | 1,242 | 3,090 | 83 | 7.2 | 960 | 1,078 | -118 |
| 1970 Total | 2,326 | 1,678 | 4,004 | 257 | 18.1 | 1,459 | 1,857 | -398 |
| 1975 Total | 3,162 | 2,212 | 5,374 | 162 | 7.9 | 1,760 | 2,104 | -344 |
| 1980 Total | 3,642 | 2,655 | 6,297 | -99 | -3.6 | 1,910 | 1,896 | 14 |
| 1985 Total | 3,842 | 2,607 | 6,448 | -270 | -9.4 | 2,359 | 2,128 | 231 |
| 1990 Total | 3,868 | 3,068 | 6,936 | 555 | 22.1 | 1,934 | 2,433 | -499 |
| 1995 Total | 4,349 | 2,153 | 6,503 | -453 | -17.4 | 2,974 | 2,566 | 408 |
| 2000 Total | 4,352 | 1,719 | 6,071 | -806 | -31.9 | 3,498 | 2,684 | 814 |
| 2005 Total | 4,200 | 2,635 | 6,835 | -61 | -2.3 | 3,057 | 3,002 | 55 |
| 2010 Total | 4,301 | 3,111 | 7,412 | -19 | -6 | 3,274 | 3,291 | -17 |
| 2011 Total | 4,302 | 3,462 | 7,764 | 351 | 11.3 | 3,074 | 3,422 | -348 |
| 2012 Total | 4,372 | 3,413 | 7,785 | -49 | -1.4 | 2,818 | 2,825 | -7 |
| 2013 Total | 4,365 | 2,890 | 7,255 | -523 | -15.3 | 3,702 | 3,156 | 546 |
| 2014 Total | 4,365 | 3,141 | 7,506 | 251 | 8.7 | 3,586 | 3,839 | -253 |
| 2015 Total | 4,372 | 3,667 | 8,038 | 525 | 16.7 | 3,100 | 3,638 | -539 |
| 2016 Total | 4,380 | 3,297 | 7,677 | -370 | -10.1 | 3,325 | 2,977 | 348 |
| 2017 Total | 4,360 | 3,033 | 7,392 | -264 | -8.0 | 3,590 | 3,337 | 254 |
| 2018 Total | 4,361 | 2,708 | 7,069 | -324 | -10.7 | 3,999 | 3,676 | 324 |
| 2019 Total | 4,380 | 3,188 | 7,568 | 480 | 17.7 | 3,653 | 4,153 | -500 |
| 2020 Total | 4,394 | 3,341 | 7,735 | 153 | 4.8 | 3,412 | 3,590 | -178 |
| 2021 Total | 4,438 | 3,210 | 7,648 | -131 | -3.9 | 3,761 | 3,678 | 83 |
| 2022 Total | 4,451 | 2,925 | 7,376 | -285 | -8.9 | 4,175 | 3,898 | 277 |
| 2023 January | 4,452 | 2,470 | 6,922 | 254 | 11.5 | 609 | 153 | 456 |
| February | 4,451 | 2,072 | 6,523 | 510 | 32.7 | 529 | 130 | 399 |
| March | 4,450 | 1,850 | 6,300 | 448 | 32.0 | 395 | 171 | 224 |
| April | 4,452 | 2,116 | 6,569 | 505 | 31.3 | 126 | 395 | -268 |
| May | 4,466 | 2,576 | 7,042 | 575 | 28.7 | 82 | 534 | -452 |
| June | 4,464 | 2,902 | 7,365 | 576 | 24.8 | 105 | 448 | -344 |
| July | 4,465 | 3,035 | 7,500 | 530 | 21.2 | 186 | 320 | -134 |
| August | 4,464 | 3,168 | 7,632 | 459 | 16.9 | 233 | 365 | -133 |
| September | 4,463 | 3,490 | 7,952 | 344 | 10.9 | 155 | 478 | -323 |
| October | 4,463 | 3,809 | 8,273 | 240 | 6.7 | 121 | 442 | -321 |
| November | 4,464 | 3,742 | 8,206 | 241 | 6.9 | 298 | 233 | 65 |
| December | 4,468 | 3,457 | 7,925 | 532 | 18.2 | 454 | 170 | 284 |
| Total | 4,468 | 3,457 | 7,925 | 532 | 18.2 | 3,292 | 3,840 | -547 |
| 2024 January | 4,468 | 2,611 | 7,079 | 141 | 5.7 | 951 | 106 | 844 |
| February | 4,468 | 2,350 | 6,817 | 277 | 13.4 | 458 | 195 | 263 |
| March | 4,467 | 2,306 | 6,773 | 456 | 24.7 | 320 | 274 | 46 |
| April | 4,467 | 2,562 | 7,030 | 446 | 21.1 | 155 | 411 | -256 |
| May | 4,469 | 2,923 | 7,393 | 347 | 13.5 | 112 | 475 | -363 |
| June | 4,471 | 3,175 | 7,646 | 273 | 9.4 | 128 | 382 | -254 |
| July | 4,473 | 3,294 | 7,766 | 258 | 8.5 | 177 | 296 | -120 |
| August | 4,477 | 3,370 | 7,848 | 202 | 6.4 | 244 | 322 | -79 |
| September | 4,482 | 3,615 | 8,097 | 126 | 3.6 | 151 | 401 | -250 |
| October | 4,484 | 3,938 | 8,422 | 129 | 3.4 | 94 | 422 | -327 |
| November | 4,485 | 3,915 | 8,400 | 173 | 4.6 | 247 | 224 | 23 |
| December | 4,485 | 3,438 | 7,923 | -19 | -6 | 633 | 157 | 476 |
| Total | 4,485 | 3,438 | 7,923 | -19 | -6 | 3,668 | 3,664 | 5 |
| 2025 January | 4,490 | 2,425 | 6,915 | -186 | -7.1 | 1,108 | 96 | 1,012 |
| February | 4,488 | 1,791 | 6,279 | -559 | -23.8 | 771 | 136 | 635 |
| March | 4,491 | 1,838 | 6,329 | -468 | -20.3 | 286 | 336 | -50 |
| 3-Month Total | -- | -- | -- | -- | -- | 2,165 | 568 | 1,597 |
| 2024 3-Month Total | -- | -- | -- | -- | -- | 1,728 | 575 | 1,153 |
| 2023 3-Month Total | -- | -- | -- | -- | -- | 1,533 | 454 | 1,078 |

^a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.

^b For 1980–2018, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.

-- = Not applicable. NA = Not available.

Notes: • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, which is excluded through 2012).

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#naturalgas> (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

beginning in 1973.

Sources: • **Storage Activity:** 1949–1975—U.S. Energy Information Administration (EIA), *Natural Gas Annual 1994, Volume 2*, Table 9. 1976–1979—EIA, *Natural Gas Production and Consumption 1979*, Table 1. 1980–1995—EIA, *Historical Natural Gas Annual 1930 Through 2000*, Table 11. 1996–2014—EIA, *Natural Gas Monthly* (NGM), monthly issues. 2015–2022—EIA, NGA, annual reports. 2023 forward—EIA, NGM, May 2025, Table 8. • **All Other Data:** 1954–1974—American Gas Association, *Gas Facts*, annual issues. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G318-M-0, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report." 1979–1995—EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report." 1996–2022—EIA, NGA, annual reports. 2023 forward—EIA, NGM, May 2025, Table 8.

Note 1. Natural Gas Production. Final annual data are from the U.S. Energy Information Administration's (EIA) *Natural Gas Annual (NGA)*.

Data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see EIA's *Natural Gas Monthly (NGM)*.

Monthly data are considered preliminary until after publication of the NGA. Preliminary monthly data are gathered from reports to the Interstate Oil Compact Commission and the U.S. Minerals Management Service. Volumetric data are converted, as necessary, to a standard pressure base of 14.73 psia (pounds per square inch absolute) at 60° Fahrenheit. Unless there are major changes, data are not revised until after publication of the NGA.

Differences between annual data in the NGA and the sum of preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

Note 2. Natural Gas Plant Liquids Production. Natural gas plant liquids (NGPL) production is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants—these natural gas plant liquids are transferred to petroleum supply.

Annual data are from EIA's *Natural Gas Annual (NGA)*, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated NGPL production, see the NGA.

Through 2006, preliminary monthly data are estimated on the basis of NGPL production as an annual percentage of marketed production. Beginning in 2007, preliminary monthly data are estimated on the basis of NGPL production reported on Form EIA-816, "Monthly Natural Gas Liquids Report."

Monthly data are revised and considered final after publication of the NGA. Final monthly data are estimated by allocating annual NGPL production data to the months on the basis of total natural gas marketed production data from the NGA.

Note 3. Supplemental Gaseous Fuels. Supplemental gaseous fuels are any substances that, introduced into or commingled with natural gas, increase the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, and air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from EIA's *Natural Gas Annual (NGA)*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years. Monthly data are considered preliminary until after publication of the NGA. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. The ratio is applied to the monthly sum of the three elements to compute a monthly supplemental gaseous fuels figure.

Although the total amount of supplemental gaseous fuels consumed is known for 1980 forward, the amount consumed by each energy-use sector is estimated by EIA. These estimates are used to create natural gas (without supplemental gaseous fuels) data for Tables 1.3, 2.2, 2.3, 2.4, and 2.6 (note: to avoid double-counting in these tables, supplemental gaseous fuels are accounted for in their primary energy category: "Coal," "Petroleum," or "Biomass"). It is assumed that supplemental gaseous fuels are commingled with natural gas consumed by the residential, commercial, other industrial, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel, pipelines and distribution, or vehicle fuel. The estimated consumption of supplemental gaseous fuels by each sector (residential, commercial, other industrial, and electric power) is calculated as that sector's natural gas consumption (see Table 4.3) divided by the sum of natural gas consumption by the residential, commercial, other industrial, and electric power sectors (see Table 4.3), and then multiplied by total supplemental gaseous fuels consumption (see Table 4.1). For estimated sectoral consumption of supplemental gaseous fuels in Btu, the residential, commercial, and other industrial values in cubic feet are multiplied by the "End-Use Sectors" conversion factors (see Table A4), and the electric power

values in cubic feet are multiplied by the "Electric Power Sector" conversion factors (see Table A4). Total supplemental gaseous fuels consumption in Btu is calculated as the sum of the Btu values for the sectors.

Note 4. Natural Gas Storage. Natural gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. Injection and withdrawal data from the FERC-8/EIA-191 survey may be adjusted to correspond to data from Form EIA-176 for publication of EIA's *Natural Gas Annual* (NGA).

Total underground storage capacity, which includes both active and inactive fields, at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

Total underground storage capacity, including active and inactive fields (billion cubic feet)

| Decade | Year-0 | Year-1 | Year-2 | Year-3 | Year-4 | Year-5 | Year-6 | Year-7 | Year-8 | Year-9 |
|--------|--------|--------|--------|--------|--------------------|--------|--------|--------|--------|--------|
| 1970s | | | | | | 6,280 | 6,544 | 6,678 | 6,890 | 6,929 |
| 1980s | 7,434 | 7,805 | 7,915 | 7,985 | 8,043 | 8,087 | 8,145 | 8,124 | 8,124 | 8,120 |
| 1990s | 7,794 | 7,993 | 7,932 | 7,989 | 8,043 | 7,953 | 7,980 | 8,332 | 8,179 | 8,229 |
| 2000s | 8,241 | 8,182 | 8,207 | 8,206 | 8,255 | 8,268 | 8,330 | 8,402 | 8,499 | 8,656 |
| 2010s | 8,764 | 8,849 | 8,991 | 9,173 | 9,233 | 9,231 | 9,239 | 9,261 | 9,241 | 9,231 |
| 2020s | 9,259 | 9,265 | 9,269 | 9,278 | 9,320 ^P | | | | | |

P=Preliminary

Through 1990, monthly underground storage data are collected from the Federal Energy Regulatory Commission Form FERC-8 (interstate data) and EIA Form EIA-191 (intrastate data). Beginning in 1991, all data are collected on the revised Form EIA-191. Injection and withdrawal data from the EIA-191 survey may be adjusted to correspond to data from Form EIA-176 following publication of EIA's NGA.

The final monthly and annual storage and withdrawal data for 1980–2017 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

Note 5. Natural Gas Balancing Item. The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems that vary in scope, format, definitions, and type of respondents.

Note 6. Natural Gas Consumption. Natural gas consumption statistics include data for the following: "Residential Sector": residential deliveries; "Commercial Sector": commercial deliveries, including to commercial combined-heat-and-power (CHP) and commercial electricity-only plants; "Industrial Sector": lease and plant fuel use, and other industrial deliveries, including to industrial CHP and industrial electricity-only plants also includes the relatively small amount of natural gas consumption for non-combustion use (see Tables 1.13a and 1.13b); "Transportation Sector": pipelines and distribution use, and vehicle fuel use; and "Electric Power Sector": electric utility and independent power producer use.

Final data for series other than "Other Industrial CHP" and "Electric Power Sector" are from EIA's *Natural Gas Annual* (NGA). Monthly data are considered preliminary until after publication of the NGA. For more detailed information on the methods of estimating preliminary and final monthly data, see EIA's *Natural Gas Monthly*.

Note 7. Natural Gas Consumption, 1989–1992. Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." As a result, for 1989–1992, those volumes are probably included in both the industrial and electric power

sectors and double-counted in total consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

Note 8. Natural Gas Data Adjustments, 1993–2000, 2017, 2020. For 1993–2000, the original data for natural gas delivered to industrial consumers (now "Other Industrial" in Table 4.3) included deliveries to both industrial users and independent power producers (IPPs). These data were adjusted to remove the estimated consumption at IPPs from "Other Industrial" and include it with electric utilities under "Electric Power Sector." (To estimate the monthly IPP consumption, the monthly pattern for Other Industrial CHP in Table 4.3 was used.)

For 1996–2000, 2017, 2020, monthly data for several natural gas series shown in EIA's Natural Gas Navigator (see http://www.eia.gov/dnav/ng/ng_cons_sum_dcu_nus_m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's *Natural Gas Annual*. In the *Monthly Energy Review*, monthly data for these series were adjusted so that the monthly data sum to the final annual values. The Table 4.1 data series (and years) that were adjusted are: Gross Withdrawals (1996, 1997), Marketed Production (1997), NGPL Production (1997, 1998 and 2000), Dry Gas Production (1996, 1997), Supplemental Gaseous Fuels (1997–2000), Balancing Item (1997–2000), and Total Consumption (1997–2000, 2017, 2020). The Table 4.3 data series (and years) that were adjusted are: Lease and Plant Fuel (1997–2000), Total Industrial (1997–2000), Pipelines and Distribution (2000), Total Transportation (2000), and Total Consumption (1997–2000, 2017, 2020).

Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via vessel from other countries. In addition, small amounts of LNG arrived from Canada via truck in 1973, 1977, 1981, and 2013 forward. Also, small amounts of compressed natural gas (CNG) were imported from Canada in 2014 forward. The United States exports natural gas via pipeline to Canada and Mexico; and exports LNG via vessel to other countries. Also, small amounts of LNG have gone to Mexico via truck since 1998 and via vessel since 2016, and to Canada via truck in 2007 and 2012 forward. Small amounts of CNG have been exported to Canada since 2013. Natural gas exports include re-exports.

Annual and final monthly data are from the annual EIA Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition," and FE-746R, "Import and Export of Natural Gas."

Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see EIA's *Natural Gas Monthly*. Preliminary data are revised after publication of EIA's *Natural Gas Annual*.