Henry Hub Natural Gas

Dollars per million British thermal units

Henry Hub (Sep 2 = $9.166)

NOTES: Latest prices are averages for August up to 09/02/2022. Dashed lines are forward curves. SOURCES: Bloomberg; Wall Street Journal.
## Regular Gasoline & Highway Diesel

### Retail price per gallon

<table>
<thead>
<tr>
<th>PADD</th>
<th>Gasoline</th>
<th>Diesel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$3.72</td>
<td>$5.07</td>
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<tr>
<td>1A</td>
<td>$3.96</td>
<td>$5.18</td>
</tr>
<tr>
<td>1B</td>
<td>$4.00</td>
<td>$5.23</td>
</tr>
<tr>
<td>1C</td>
<td>$3.50</td>
<td>$5.00</td>
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<td>2</td>
<td>$3.68</td>
<td>$5.17</td>
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<tr>
<td>3</td>
<td>$3.36</td>
<td>$4.82</td>
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<tr>
<td>4</td>
<td>$4.02</td>
<td>$4.97</td>
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<td>5</td>
<td>$4.78</td>
<td>$5.72</td>
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<tr>
<td>U.S.</td>
<td>$3.83</td>
<td>$6.20</td>
</tr>
</tbody>
</table>

**NOTES:** Prices are for 8/29/22. PADDs are “Petroleum Administration for Defense Districts.” Prices include all taxes. **SOURCE:** Energy Information Administration.
GLOBAL PETROLEUM
World Oil Production Outages

Million barrels per day

OPEC

Non-OPEC

July 3.01

0.22

Federal Reserve Bank of Dallas

NOTE: OPEC is the Organization of the Petroleum Exporting Countries.
SOURCE: Energy Information Administration.
NATIONAL OUTLOOK
Vehicle Miles Traveled

NOTES: Series is seasonally adjusted. Data are estimates based on hourly traffic count data at approximately 5,000 locations nationwide. SOURCE: Federal Highway Administration.
REGIONAL ACTIVITY
3-Month Total Rig Change by County

NOTES: Change in total rigs from 05/27/2022 to 08/26/2022.
SOURCE: Baker Hughes; Federal Reserve Bank of Dallas
12-Month Total Rig Change by County

NOTES: Change in total rigs from 08/27/2021 to 08/26/2022.
SOURCE: Baker Hughes; Federal Reserve Bank of Dallas
Crude Oil Production by Region

Million barrels per day

Permian
Bakken
Eagle Ford
Niobrara
Anadarko
Other areas

Federal Reserve Bank of Dallas

NOTE: “Other areas” include Haynesville and Marcellus.
SOURCE: Energy Information Administration.
Natural Gas Production by Region

Billion cubic feet per day

Appalachia
Permian
Haynesville
Other areas
Eagle Ford
Anadarko

Federal Reserve Bank of Dallas

NOTE: “Other areas” include Niobrara and Bakken. SOURCE: Energy Information Administration.
Permian Basin Crude Oil Decline Curve

Barrels per day

0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

Production month

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

NOTES: Depicts average crude oil production per well and is based off first production date. Last updated 7/1/22; chart is updated semi-annually. SOURCE: WellDatabase.
Shut-in Prices for Existing Wells

In the top two areas in which your firm is active:
What WTI oil price does your firm need to cover operating expenses for existing wells?

NOTES: Line shows the average, and bars show the range of responses. 84 E&P firms answered this question from March 9-17, 2022.
SOURCE: Federal Reserve Bank of Dallas.
Breakeven Prices for New Wells

In the top two areas in which your firm is active:
What WTI oil price does your firm need to profitably drill a new well?

Dollars per barrel

- Eagle Ford: $48 (5 responses)
- Permian (Delaware): $50 (19 responses)
- Permian (Midland): $51 (23 responses)
- Permian (Other): $54 (47 responses)
- Other U.S. (Nonshale): $60 (10 responses)
- Other U.S. (Shale): $69

NOTES: Line shows the average, and bars show the range of responses. 83 E&P firms answered this question from March 9-17, 2022. SOURCE: Federal Reserve Bank of Dallas.
Additional Resources

• **Energy Indicators**
  - A monthly web publication of key economic indicators that offers a snapshot of the energy sector

• **Dallas Fed Energy Survey**
  - A quarterly assessment of energy activity of about 200 oil and gas firms located in the Eleventh District

• **Energy in the 11th District**
  - Detailed info on four major regions: the Barnett Shale, Eagle Ford Shale, Haynesville Shale and Permian Basin

• **Other energy articles and research**