Petroleum and other liquids
Production of U.S. crude oil and natural gas plant liquids

U.S. crude oil production
AEO2022 Reference case and side cases
million barrels per day

U.S. natural gas plant liquids production
AEO2022 Reference case and side cases
million barrels per day

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. crude oil and natural gas plant liquids production and consumption

Petroleum liquids consumption
AEO2022 economic growth cases
million barrels per day

2000 2010 2020 2030 2040 2050
2021

High Economic Growth
Reference
Low Economic Growth

2021

High Oil and Gas Supply
Reference
Low Oil and Gas Supply

Crude oil and natural gas plant liquids production
AEO2022 oil and natural gas supply cases
million barrels per day

2000 2010 2020 2030 2040 2050

Note: Petroleum liquids does not include biofuels.
U.S. petroleum, other liquids, and natural gas production and consumption

Petroleum and other liquids balance
AEO2022 Reference case
million barrels per day

Natural gas balance
AEO2022 Reference case
trillion cubic feet

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. crude oil production

Crude oil production, AEO2022 oil price cases
Reference case
million barrels per day

Low Oil Price case
million barrels per day

High Oil Price case
million barrels per day

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. crude oil production

Crude oil production by play
AEO2022 Reference case
million barrels per day

2000 2010 2020 2030 2040 2050

history projections

2021

tight oil
Wolfcamp
Bone Springs/ Avalon
Spraberry
Eagle Ford
Bakken
Niobrara
other tight oil
Alaska
Gulf of Mexico
other

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
Onshore crude oil production in the Lower 48 states

AEO2022 Reference case

Onshore crude oil production in the Lower 48 states

million barrels per day

2000 2010 2020 2030 2040 2050

Southwest

Northern Great Plains

Gulf Coast

Rocky Mountains

Midcontinent

East

West Coast

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. natural gas plant liquids production by region and type

### Natural gas plant liquids production by region
**AEO2022 Reference case**
- **East**
- **Southwest**
- **rest of United States**

### Natural gas plant liquids production by type
**AEO2022 Reference case**
- **natural gasoline**
- **isobutane**
- **normal butane**
- **propane**
- **ethane**

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U.S. crude oil supply and refinery utilization

Crude oil supply to domestic refineries
AEO2022 Reference case
million barrels per day

Refinery utilization
AEO2022 Reference case
percentage

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. petroleum and other liquids trade

Petroleum and other liquids net exports
AEO2022 side cases
million barrels per day

2000 2010 2020 2030 2040 2050

2021

history projections

High Oil Price
High Oil and Gas Supply

Reference

Low Oil Price
Low Oil and Gas Supply

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. motor gasoline and diesel prices

Retail prices of motor gasoline
AEO2022 oil price cases
2021 dollars per gallon

2021
history projections

High Oil Price
Reference
Low Oil Price

Retail prices of diesel
AEO2022 oil price cases
2021 dollars per gallon

2021
history projections

High Oil Price
Reference
Low Oil Price

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. biofuels production

Biofuels production, AEO2022 oil price cases

Reference case
million barrels per day

2021

history projections

Low Oil Price case
million barrels per day

2021

history projections

High Oil Price case
million barrels per day

2021

biomass-based diesel

total ethanol

Note: Other biofuels make up less than 0.2% of biofuel production and are therefore not visible.
U.S. biomass-based diesel production

Biomass-based diesel production
AEO2022 Reference case
million barrels per day

Biomass-based diesel production as a percentage of petroleum diesel production
AEO2022 Reference case
percentage

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)
U.S. biofuels consumption

Energy-related biofuels consumption AEO2022 Reference case
million barrels per day

- Biomass-based diesel
- Total ethanol

U.S. ethanol and motor gasoline consumption

**U.S. ethanol consumption**
- **AEO2022 Reference case**
- million barrels per day
- 2021 history projections

**U.S. motor gasoline consumption**
- **AEO2022 Reference case**
- million barrels per day
- 2021 history projections

Biofuels as a percentage of U.S. motor gasoline and diesel consumption

Source: U.S. Energy Information Administration, Annual Energy Outlook 2022 (AEO2022)