Hydraulic fracturing and its impact
US Total Oil Production

Crude Oil Production

Million

-2,000


Source: U.S. Energy Information Administration
Production by state

Image Source: EIA
Production by play

U.S. tight oil production—selected plays

Source: EIA

Sources: EIA derived from state administrative data collected by DrillingInfo Inc. Data are through February 2018 and represent EIA's official shale gas estimates, but are not survey data. State abbreviations indicate primary state(s).
Eagle-Ford Shale
US, Russia, Saudi Arabia equivalent oil production

Source: EIA
Total energy use projection

Source: EIA
Natural gas by source

Source: EIA
Shale

Source: George King, Hydraulic Fracturing 101
Hydraulic fracturing

Source: George King, Hydraulic Fracturing 101
Frac pump trucks

Source: Jon Olson
Barnett frac job in progress

Source: Jon Olson
Is it safe?

- Groundwater contamination
- Earthquakes (induced seismicity)
Fracturing fluids

Groundwater separation

Source: George King, Hydraulic Fracturing 101
Marcellus mapped fracture treatments

Does hydraulic fracturing produce earthquakes?
Eagle-Ford moment magnitude