

# Supply, Demand, and Export Outlook for North American Oil and Gas



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*For*

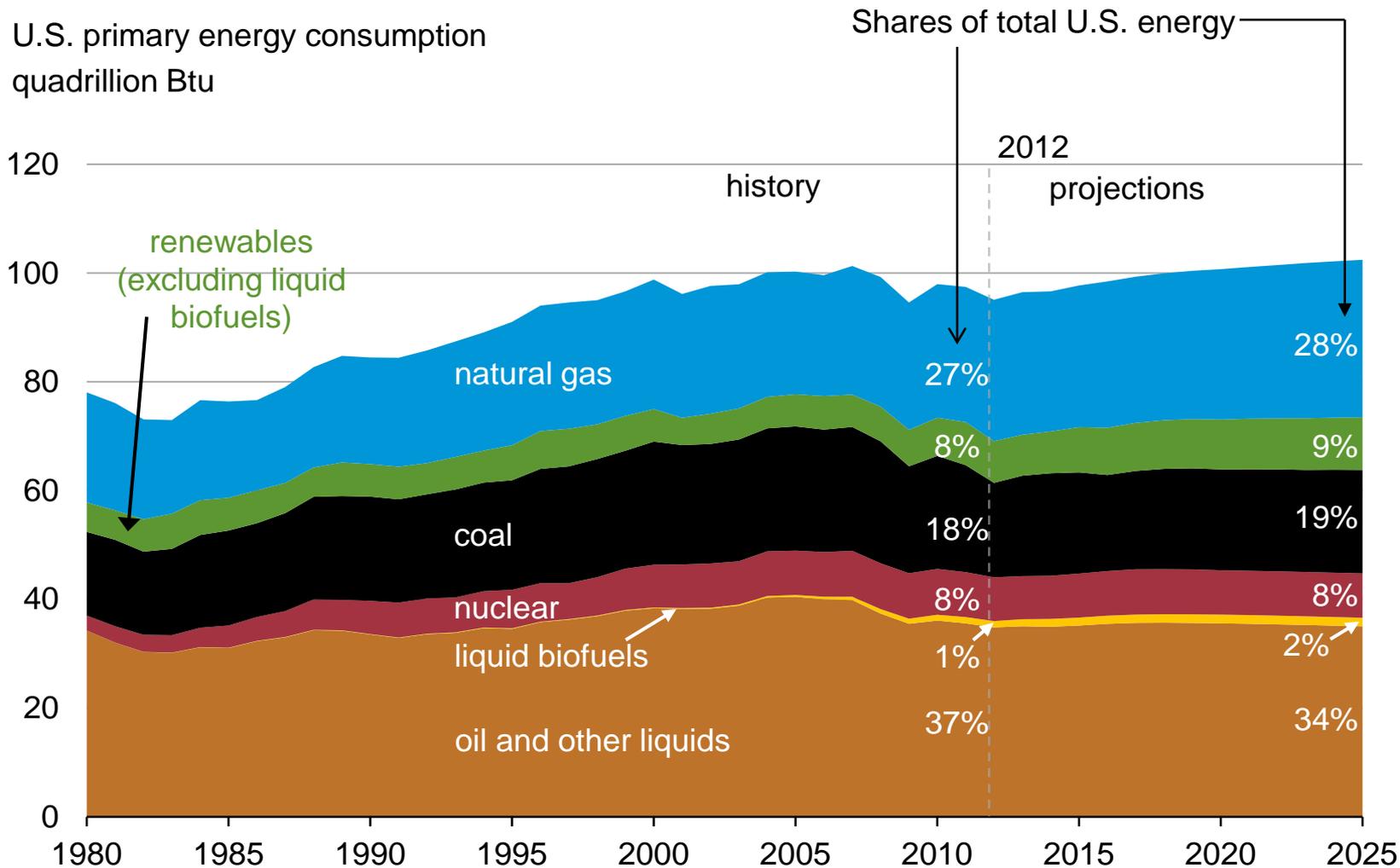
*Energy Infrastructure Summit*

*September 15, 2014 | Houston, TX*

*By*

*Adam Sieminski, EIA Administrator*

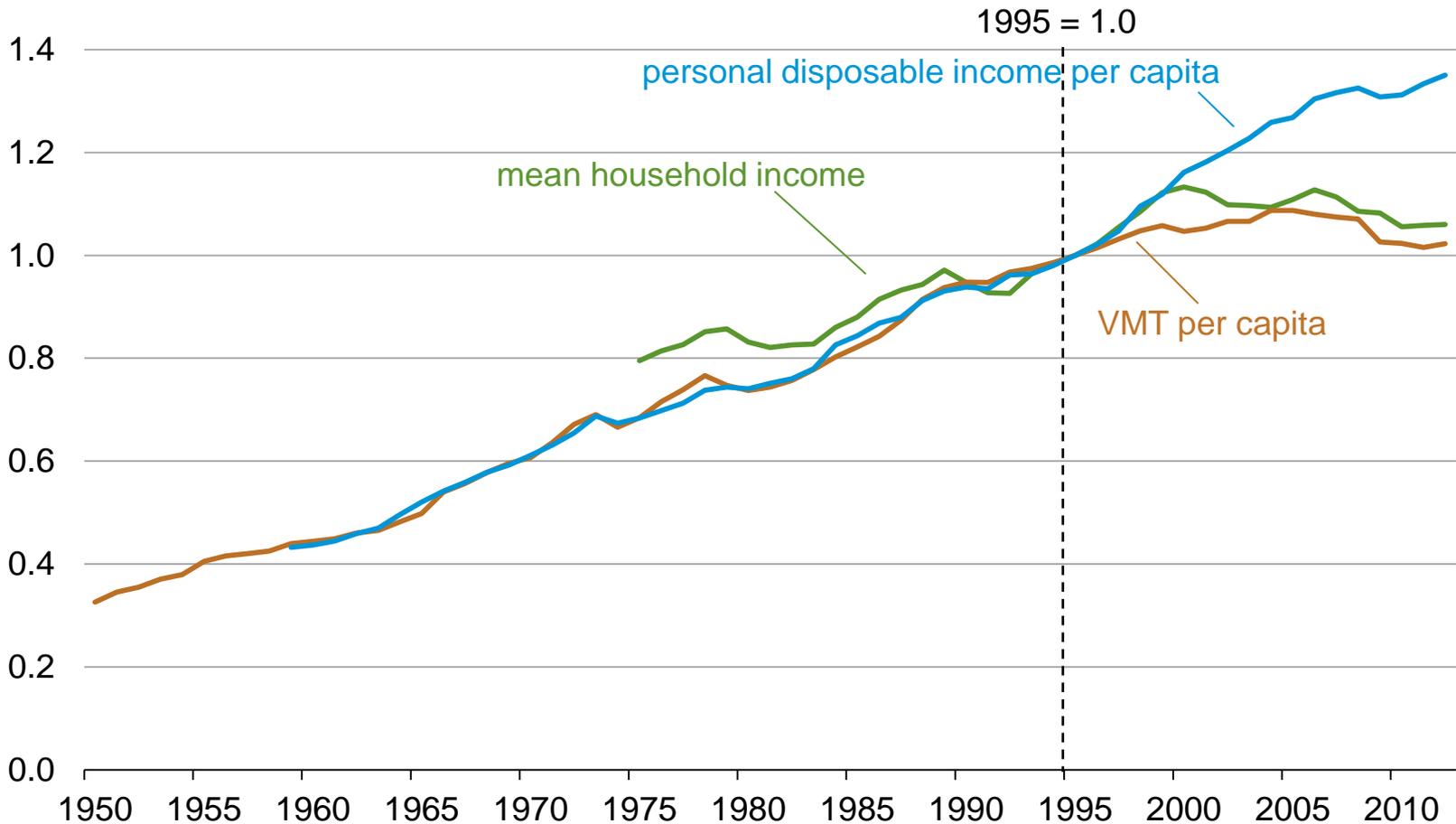
# U.S. energy use grows slowly over the projection reflecting steady growth in GDP offset by improving energy efficiency



Source: EIA, Annual Energy Outlook 2014 Early Release

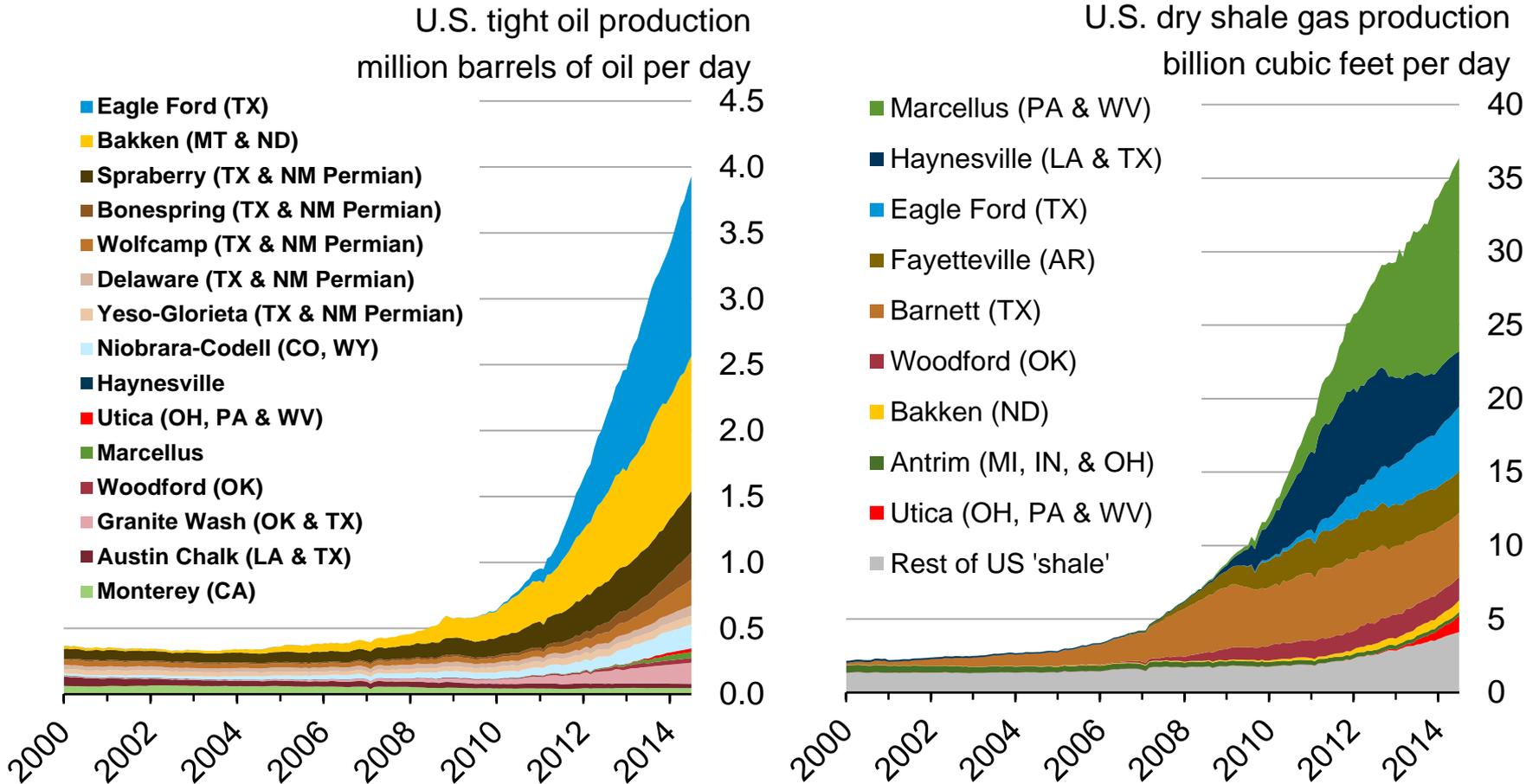
# Challenges in understanding U.S. transportation fuel use

vehicle miles traveled (VMT) and income indices



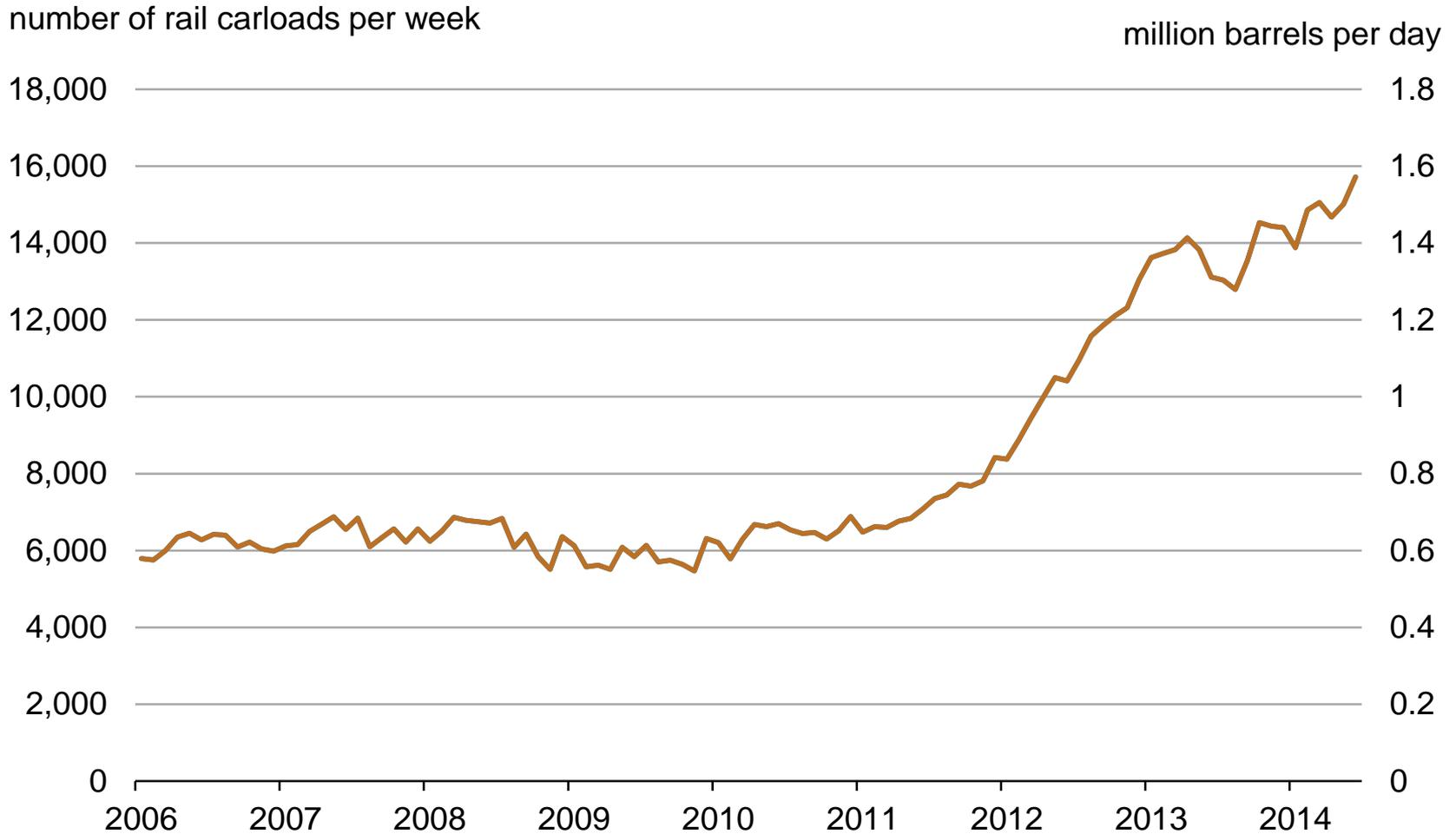
Source: U.S. Department of Transportation, U.S. Bureau of Labor Statistics, U.S. Bureau of Economic Analysis

# The U.S. has experienced a rapid increase in natural gas and oil production from shale and other tight resources



Sources: EIA derived from state administrative data collected by DrillingInfo Inc. Data are through July 2014 and represent EIA's official tight oil & shale gas estimates, but are not survey data. State abbreviations indicate primary state(s).

# U.S. rail carloads of crude oil and petroleum products exceed 1.5 million b/d in 2014



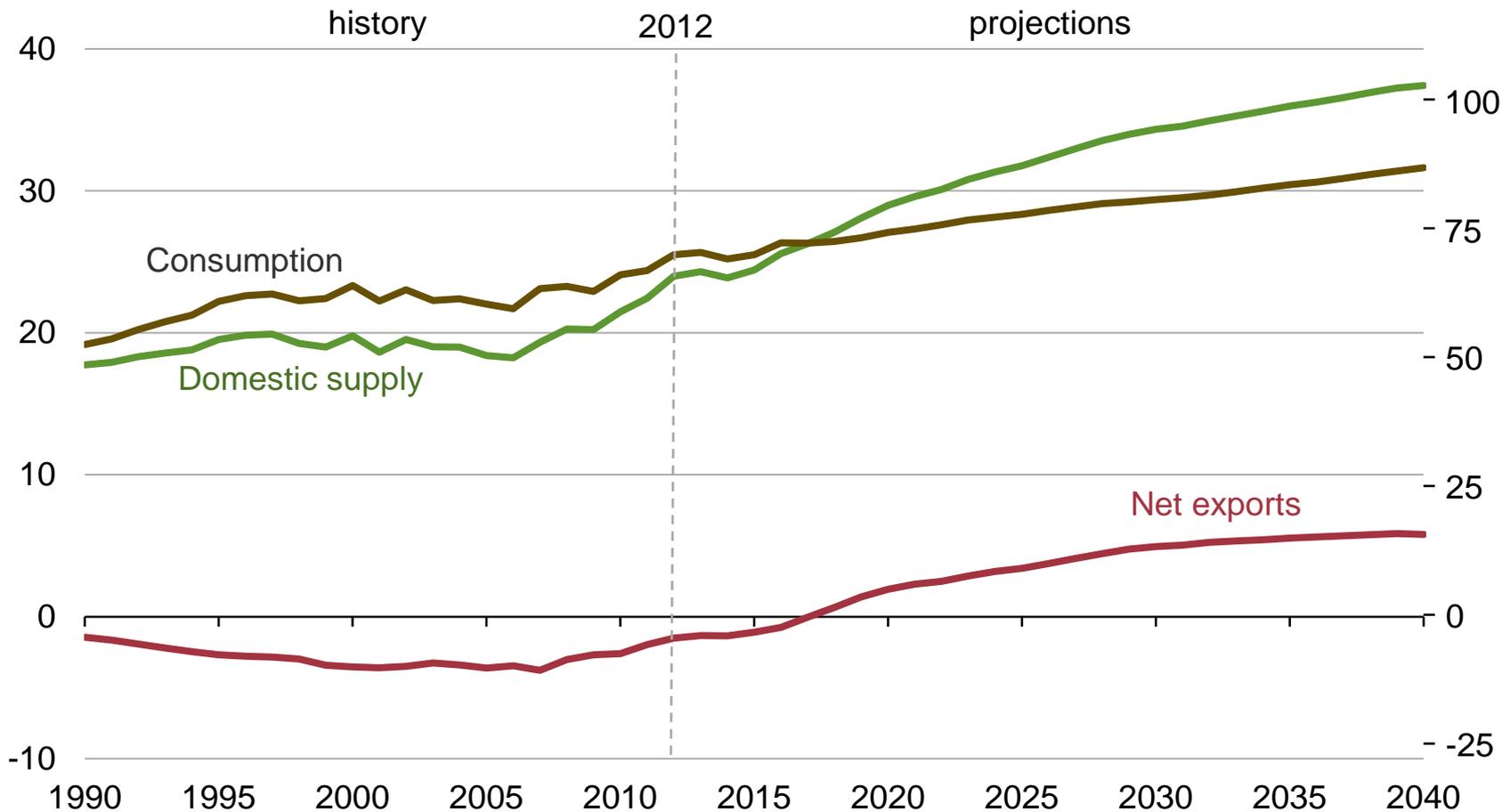
Source: U.S. Energy Information Administration, based on Association of American Railroads

# U.S. becomes a net exporter of natural gas in the near future

U.S. dry natural gas

trillion cubic feet per year

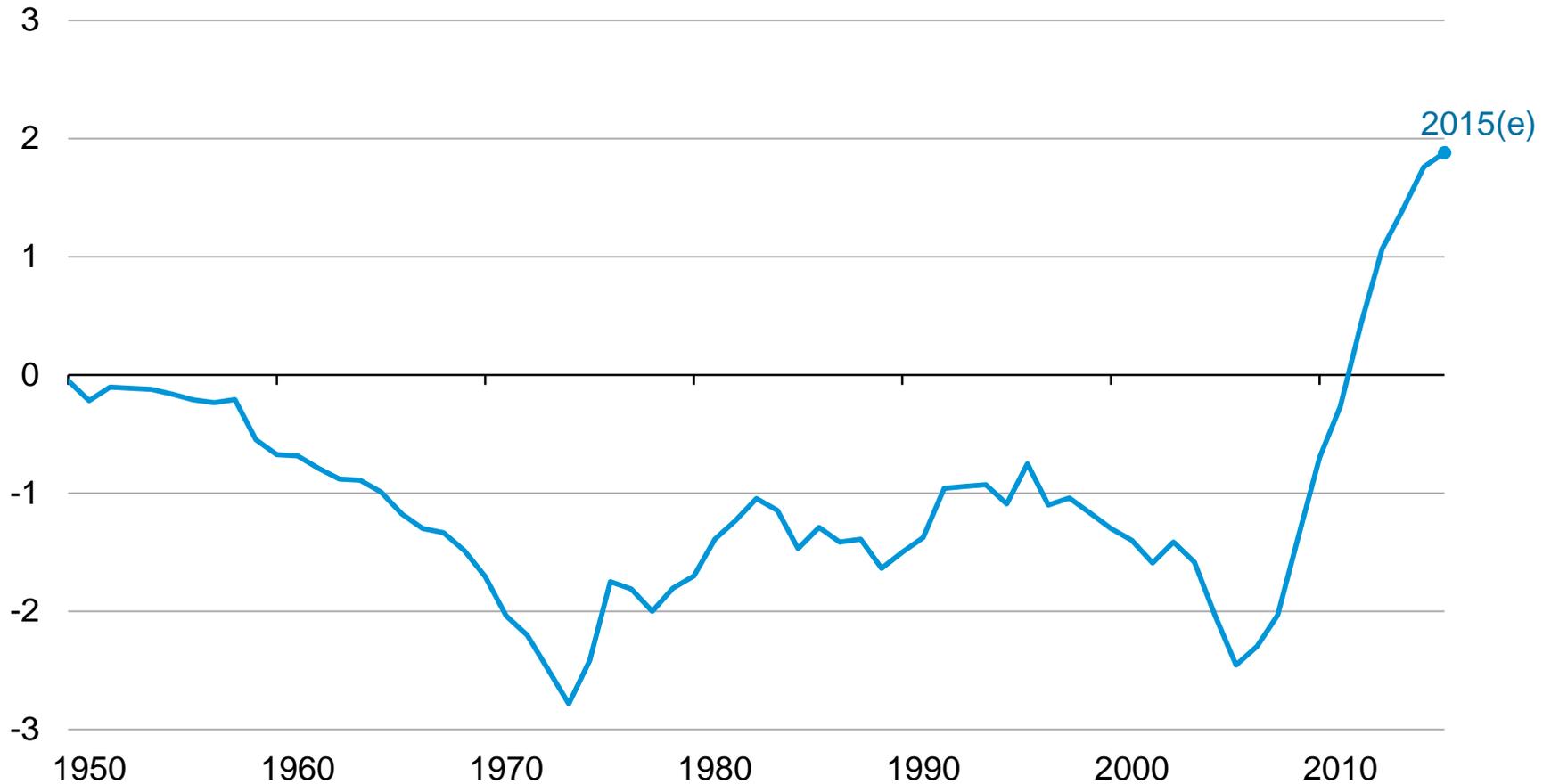
billion cubic feet per day



Source: EIA, Annual Energy Outlook 2014 Reference case

# U.S. is already a major net exporter of petroleum products

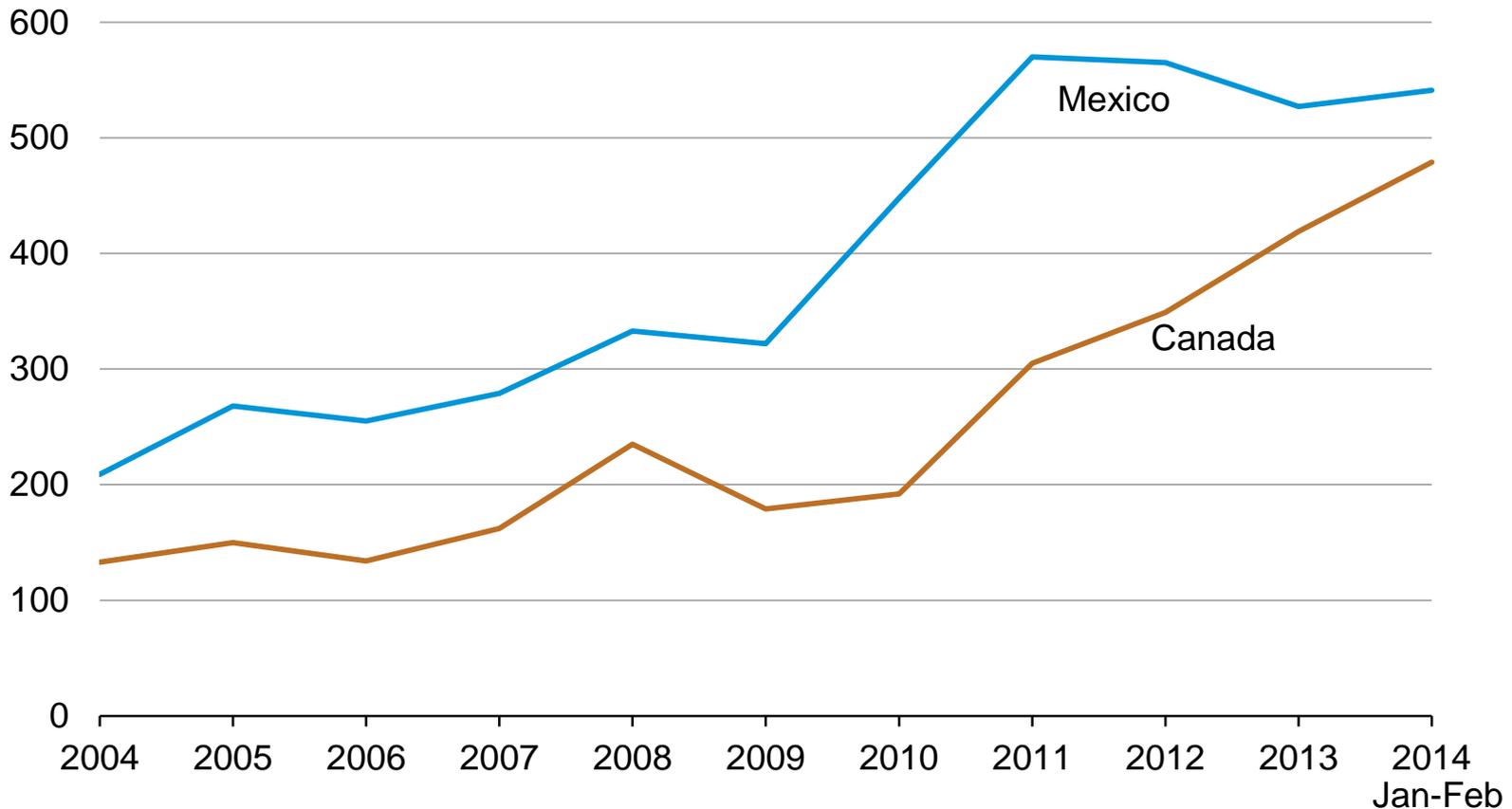
U.S. petroleum product net exports  
million barrels per day



Source: EIA, Annual Energy Outlook 2014 Reference case and Short Term Energy Outlook

# U.S. exports of petroleum products to Mexico and Canada have more than doubled and tripled, respectively, since 2004

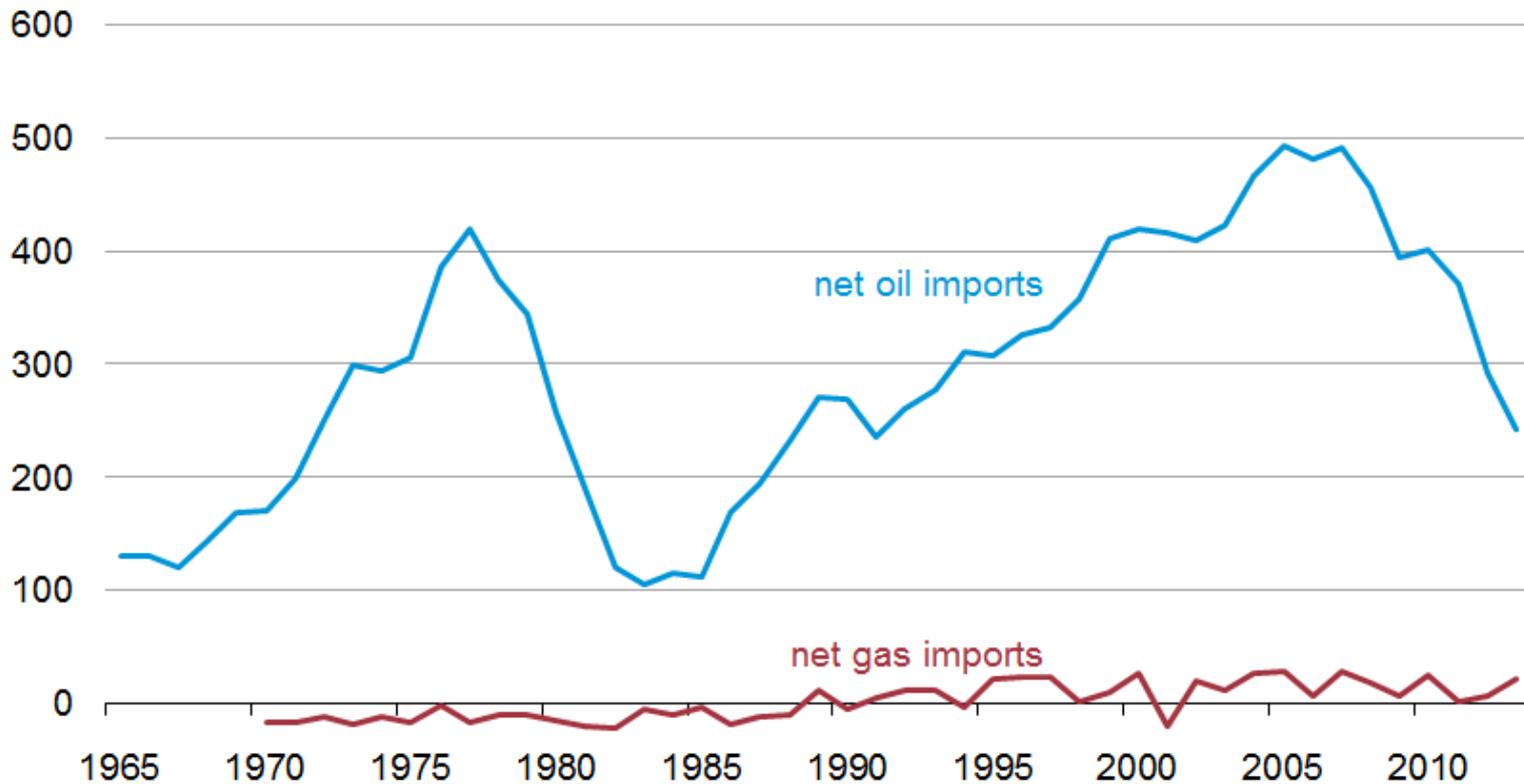
U.S. petroleum products exports  
thousand barrels per day



Source: EIA, Petroleum Supply Monthly

# North American net imports of oil and natural gas

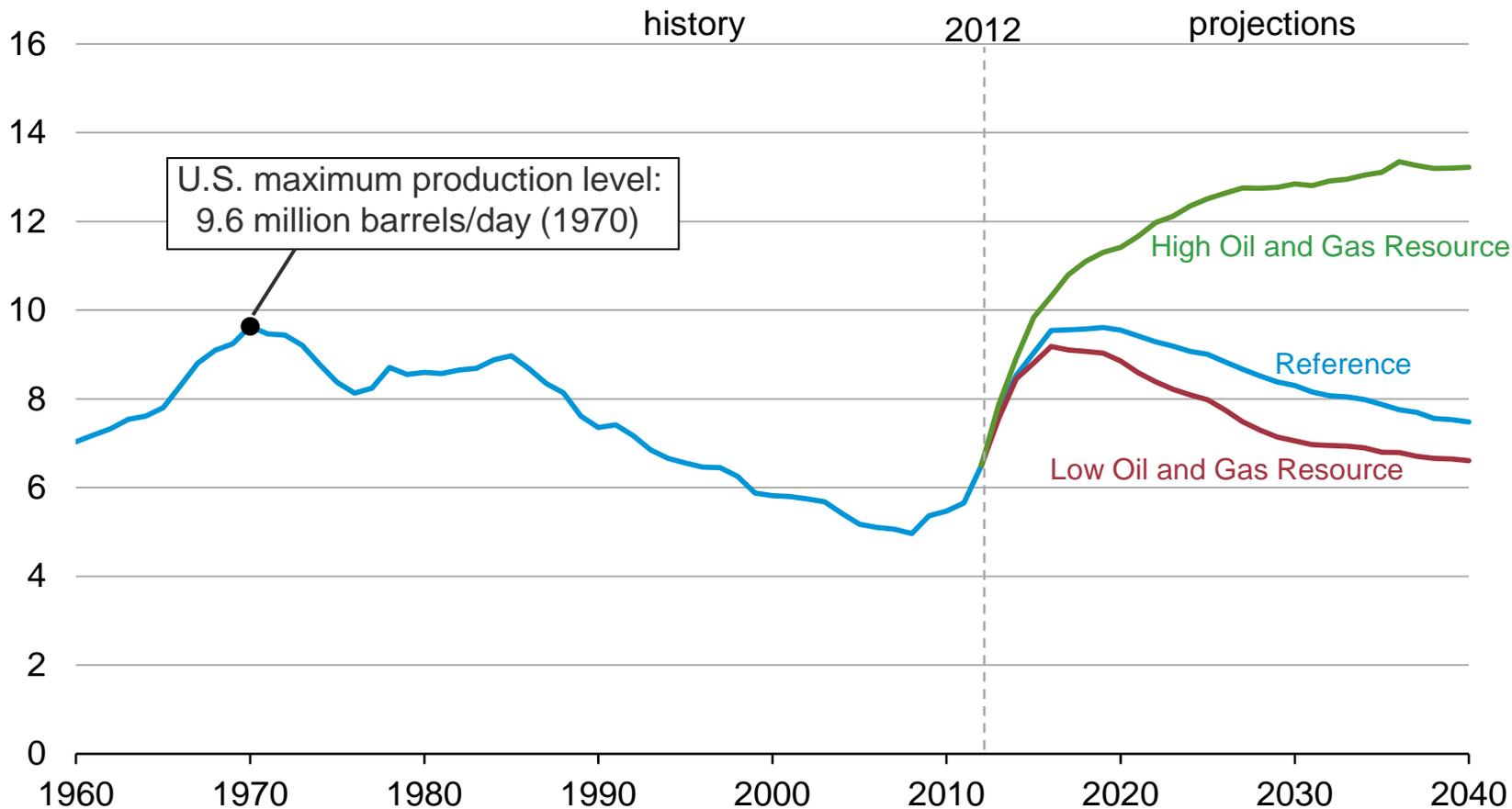
North American net imports, 1965-2013  
million metric tons oil equivalent



Source: BP Statistical Review of World Energy 2014

# U.S. crude oil production exceeds 13 million b/d in High Oil and Gas Resource case

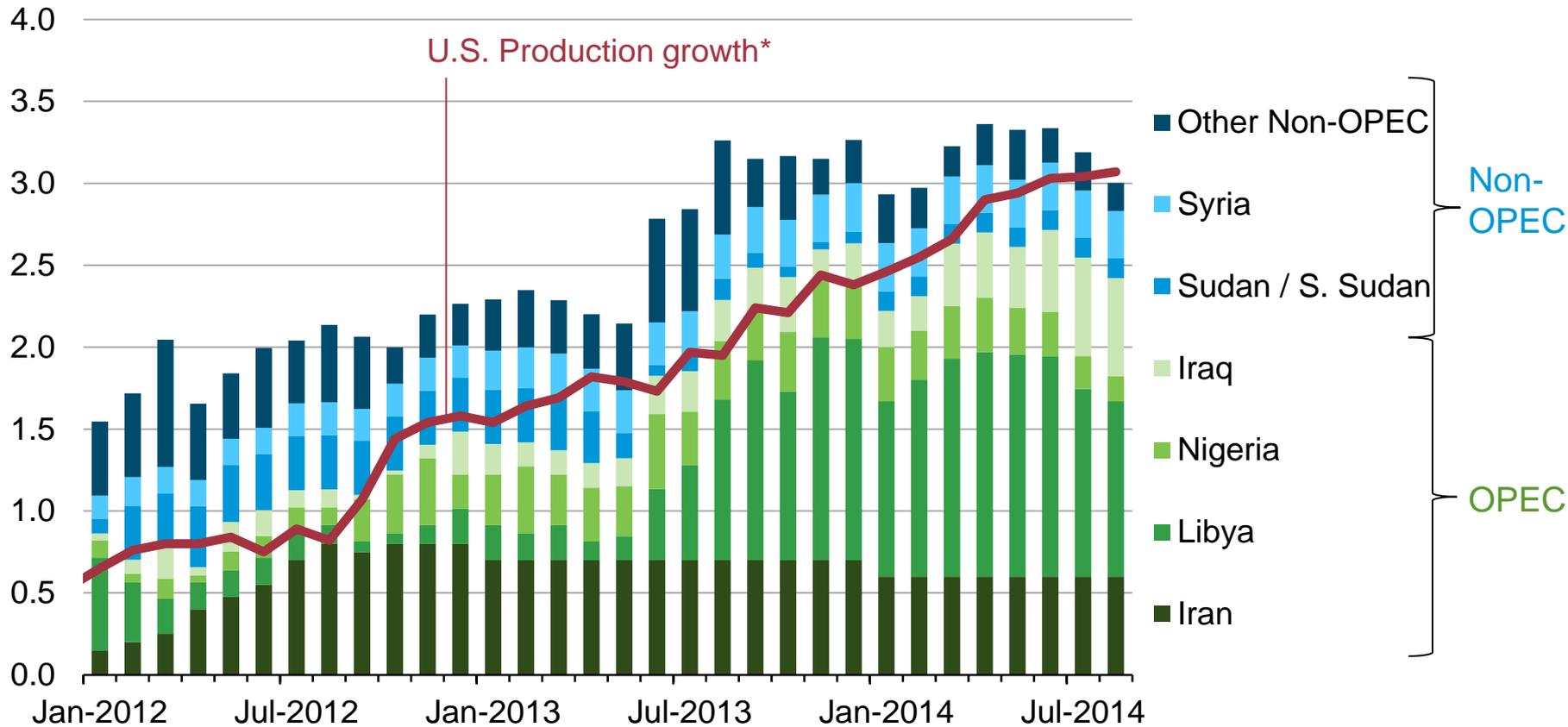
U.S. crude oil production in three cases  
million barrels per day



Source: EIA, Annual Energy Outlook 2014 Reference case, High Oil and Gas Resource case, and Low Oil and Gas Resource case

# U.S. oil production growth helping to offset unplanned outages

estimated unplanned crude oil production outages  
million barrels per day

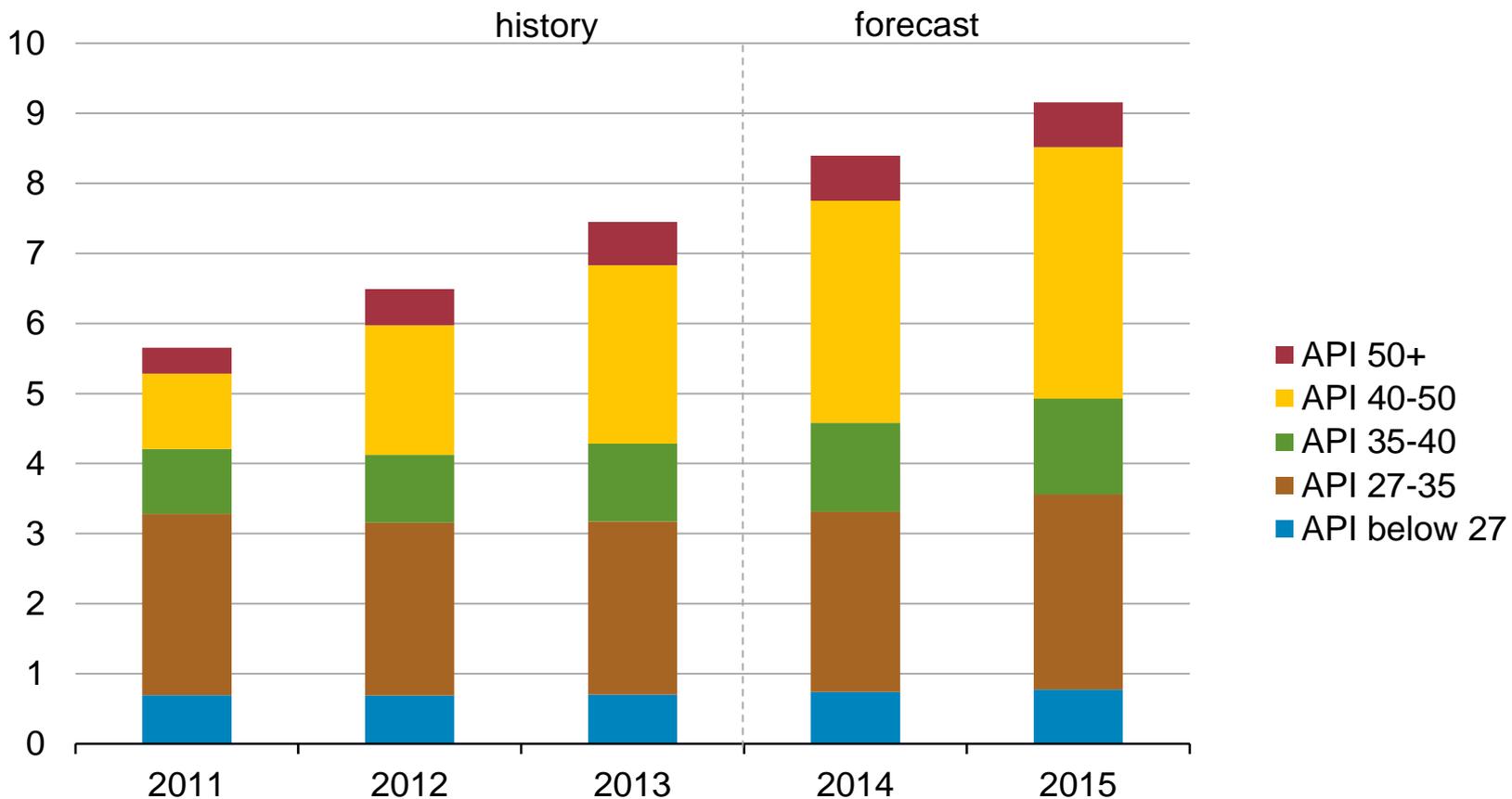


Source: EIA, Short-Term Energy Outlook, July 2014

\*monthly production delta versus Jan. 2011 production level

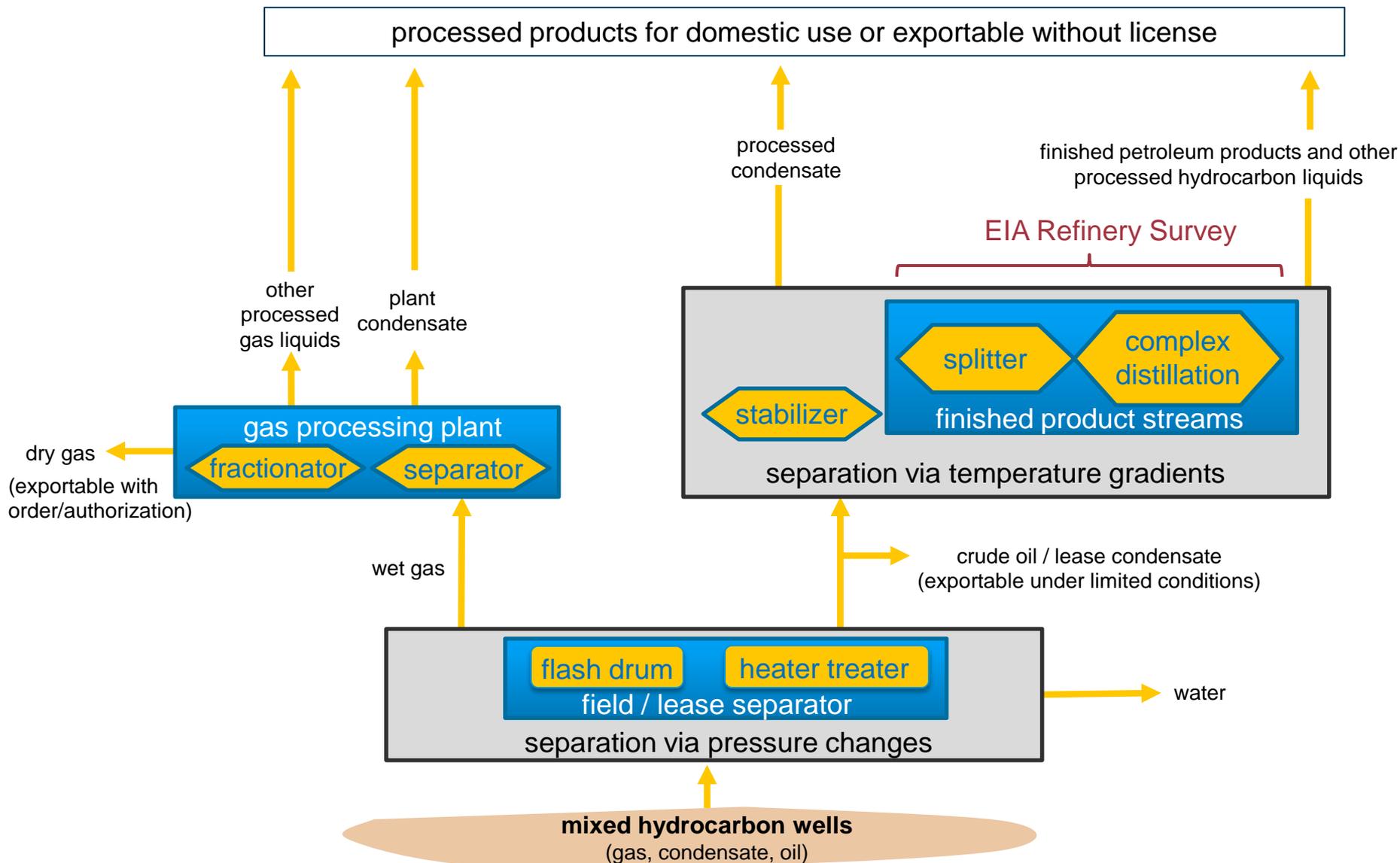
# Most of the growth in production between 2011 and 2015 consists of sweet grades with API gravity of 40 or above

U.S. crude oil production by type  
million barrels of oil per day



Source: EIA, DrillingInfo, Colorado DNR, Texas RRC. <http://www.eia.gov/analysis/petroleum/crudetypes/>

# Distillation processes and resulting products



## For more information

U.S. Energy Information Administration home page | [www.eia.gov](http://www.eia.gov)

Annual Energy Outlook | [www.eia.gov/aeo](http://www.eia.gov/aeo)

Short-Term Energy Outlook | [www.eia.gov/steo](http://www.eia.gov/steo)

International Energy Outlook | [www.eia.gov/ieo](http://www.eia.gov/ieo)

Monthly Energy Review | [www.eia.gov/mer](http://www.eia.gov/mer)

Today in Energy | [www.eia.gov/todayinenergy](http://www.eia.gov/todayinenergy)

State Energy Portal | [www.eia.gov/state](http://www.eia.gov/state)

Drilling Productivity Report | [www.eia.gov/petroleum/drilling/](http://www.eia.gov/petroleum/drilling/)