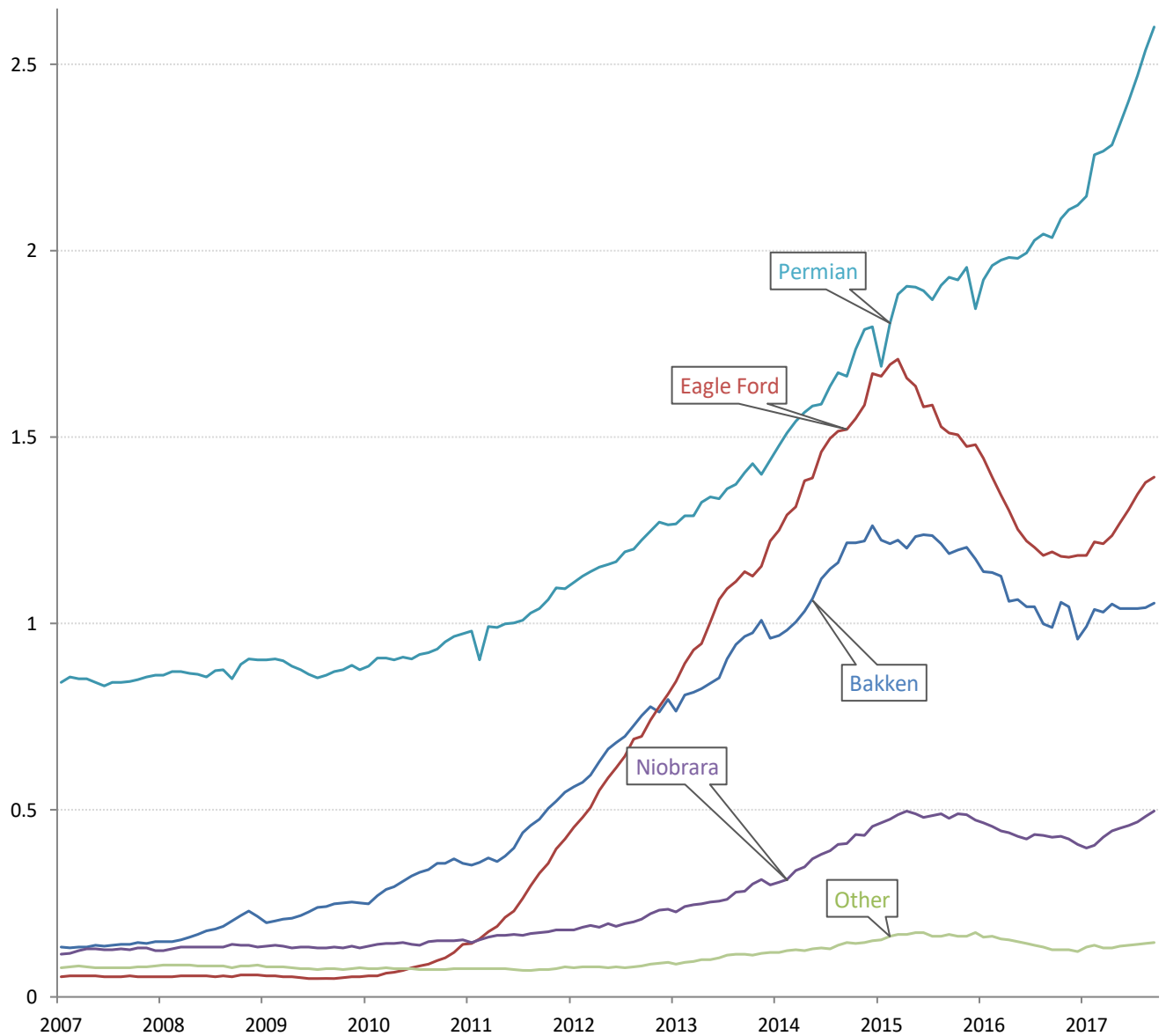


## Data Insights: Oil

Monday, August 14, 2017

### The light tight oil revolution -- the rollover and the recovery Production in major US shale plays, millions of barrels/day

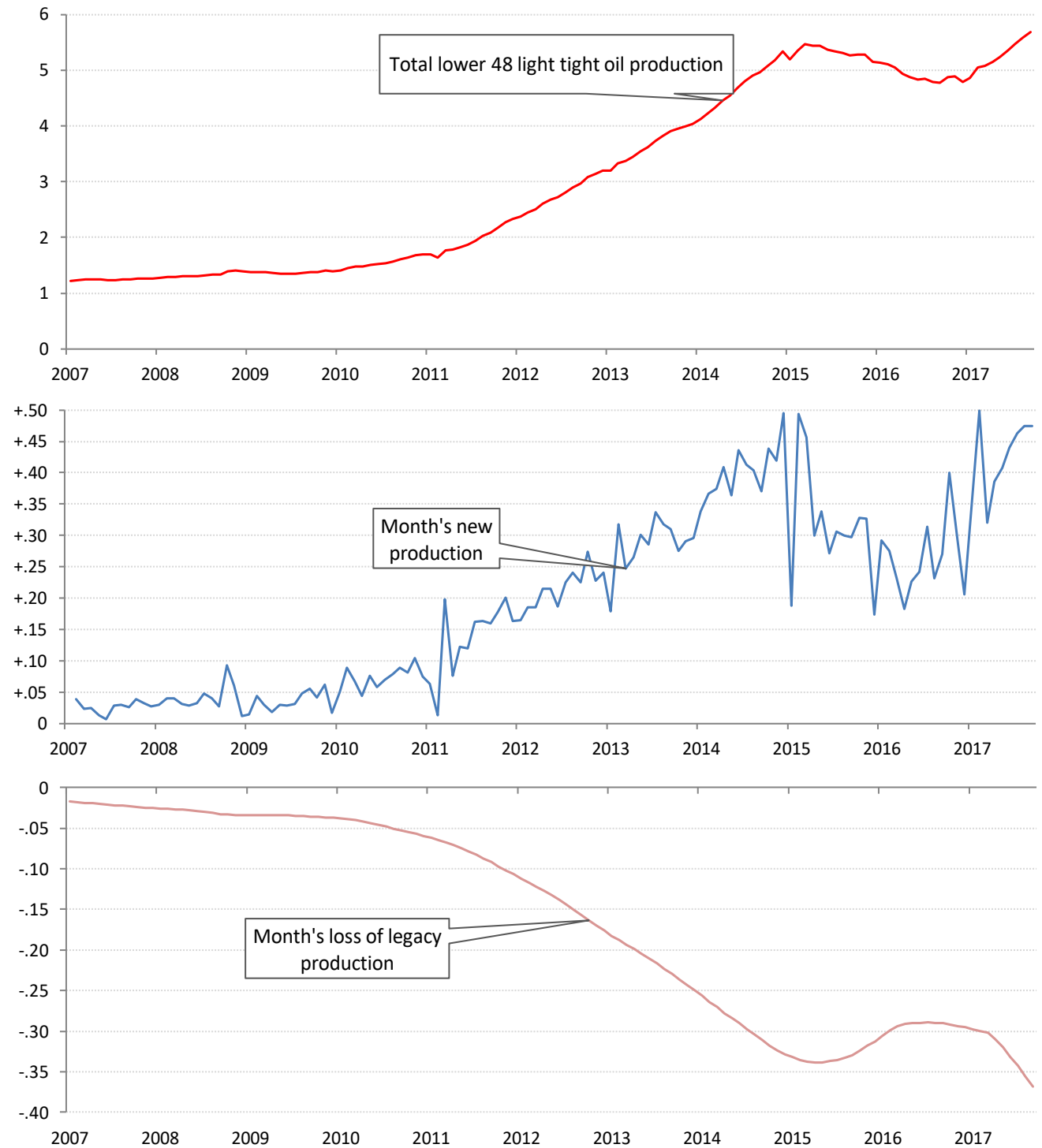


Source:DOE EIA Drilling Productivity Report, TrendMacro calculations

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# Inside the revolution: depleting legacy, diminishing new production

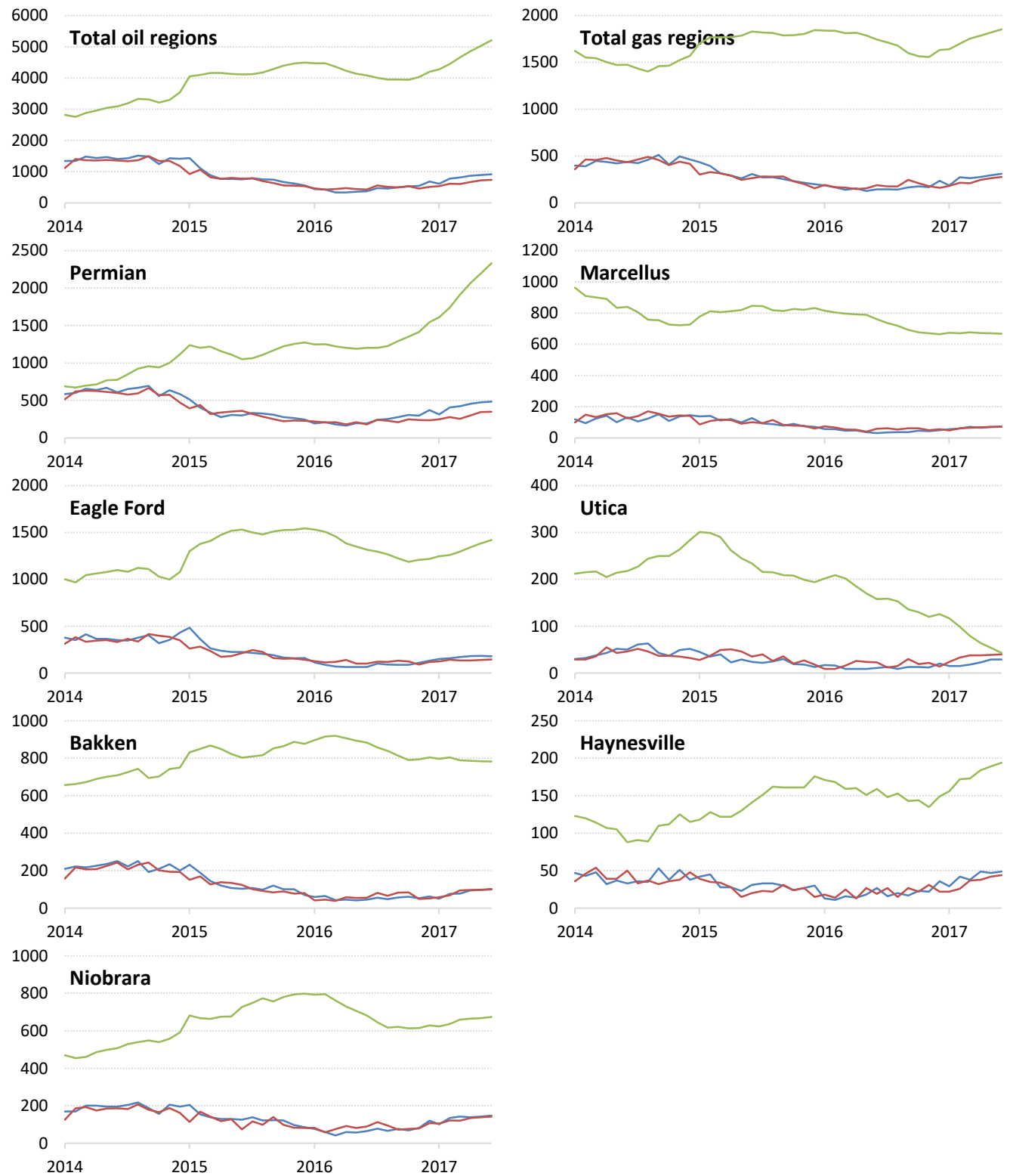
Aggregate production in major US shale plays, millions of barrels/day



Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

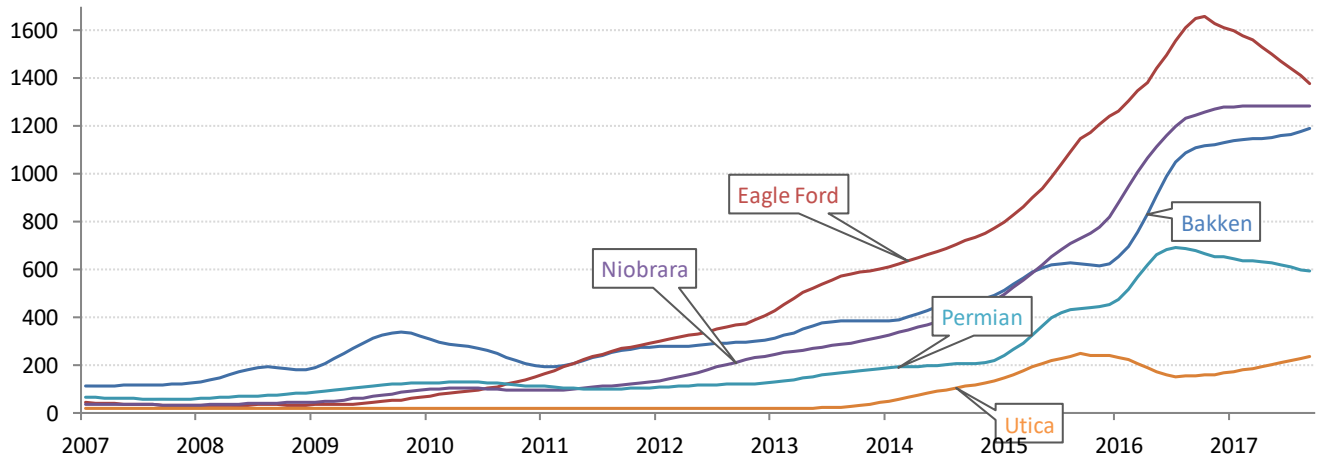
# Low fracking fruit: the inventory of drilled but uncompleted wells (DUC)

Wells: — Drilled — Completed — Drilled but uncompleted



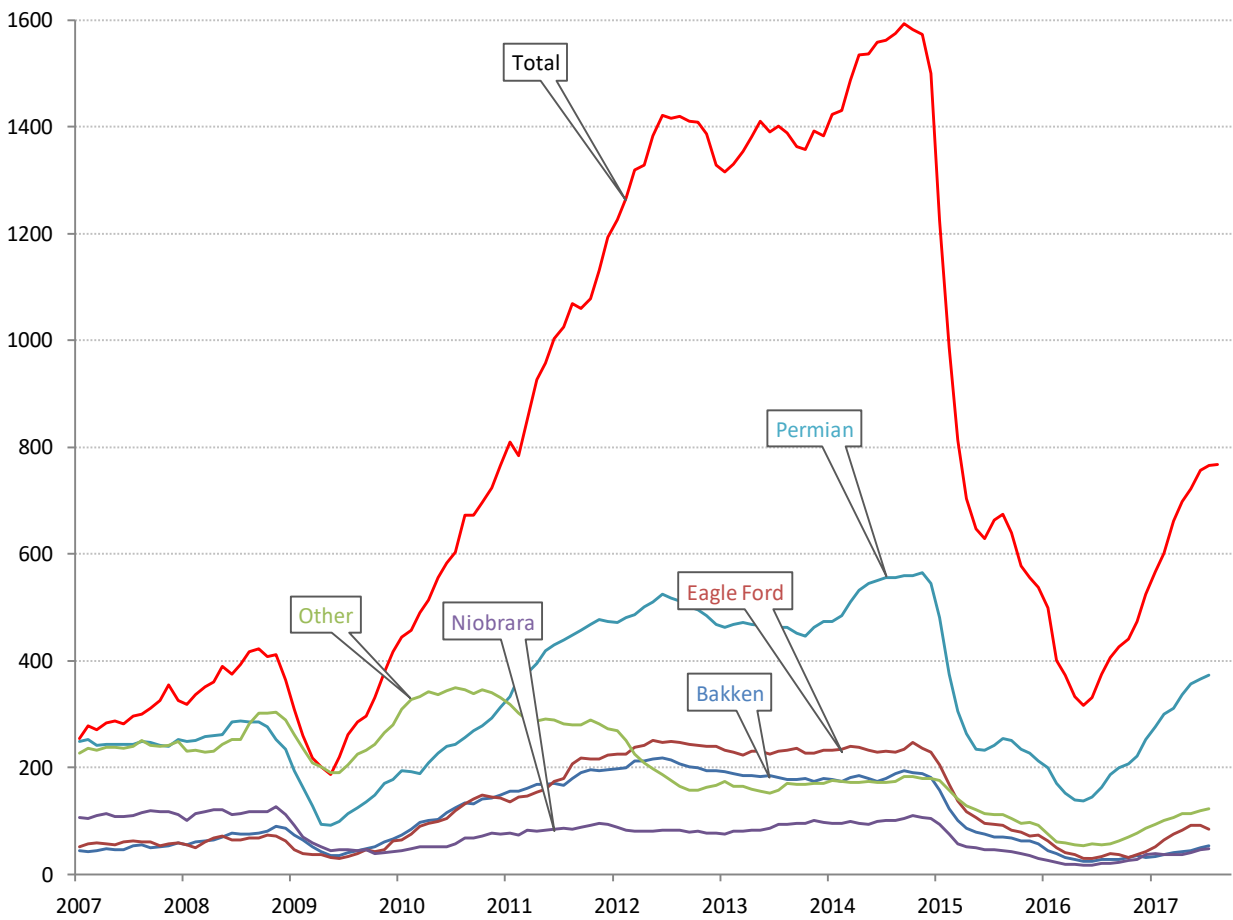
Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

Doing a lot more... New-well oil production per rig, major US shale plays, barrels/day



Source: DOE EIA Drilling Productivity Report, TrendMacro calculations

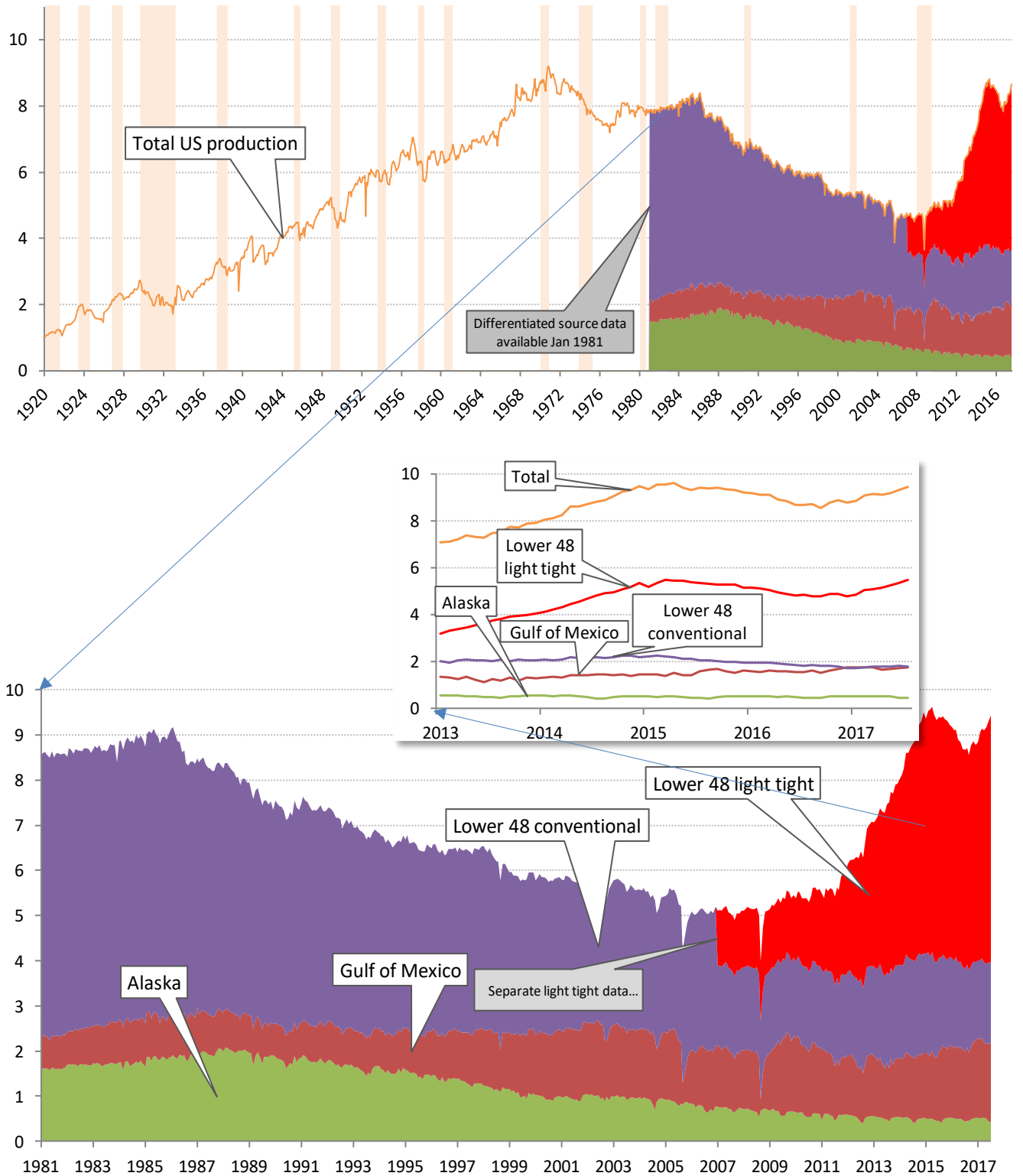
...with a lot less Rig count, total oil and major US shale plays



Source: DOE EIA Drilling Productivity Report, Baker Hughes, TrendMacro calculations

# US crude oil production -- deep history, and the modern transformation of sources

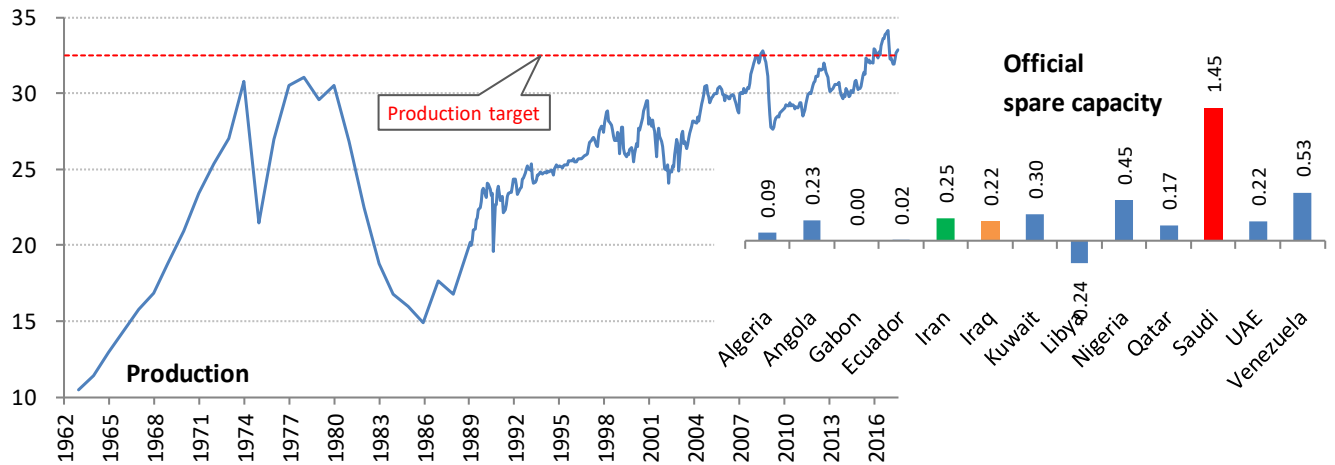
Millions of barrels/day ■ Recession



Source: DOE EIA Short Term Energy Outlook, Drilling Productivity Report, TrendMacro calculations

# OPEC: what it's producing, what's left to produce

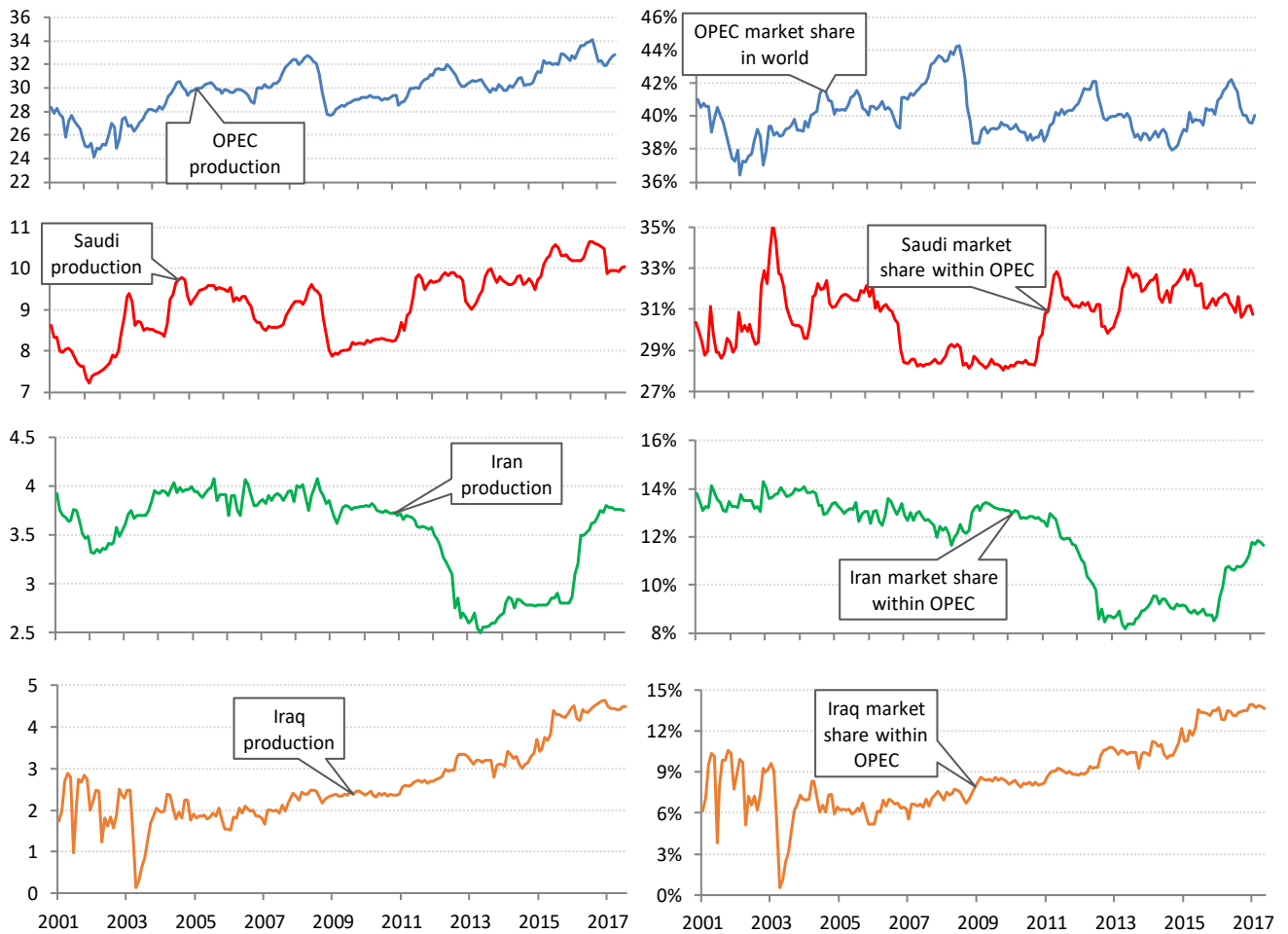
Millions of barrels/day



Source: Bloomberg News, TrendMacro calculations

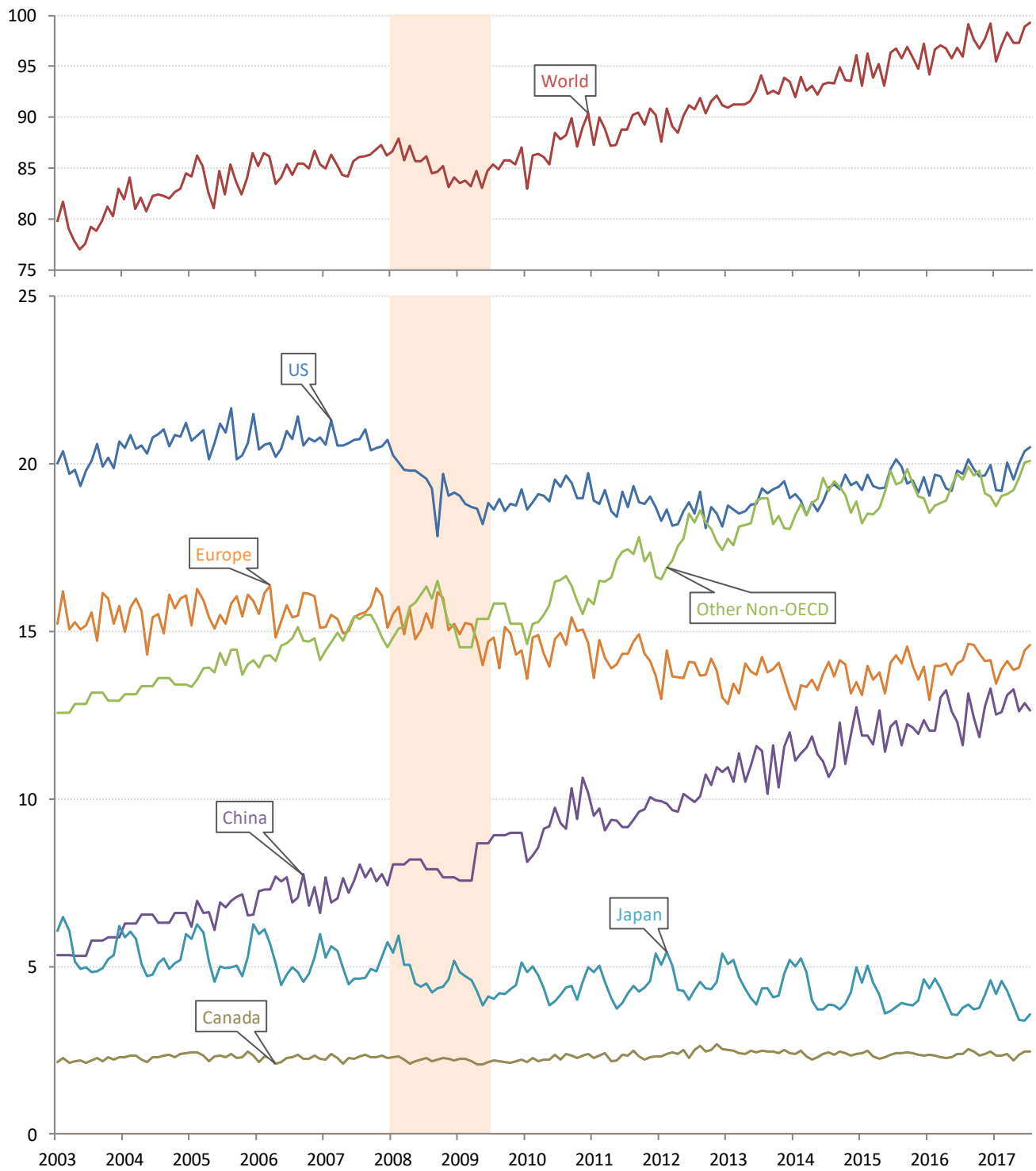
# OPEC's battle for market share

Millions of barrels/day



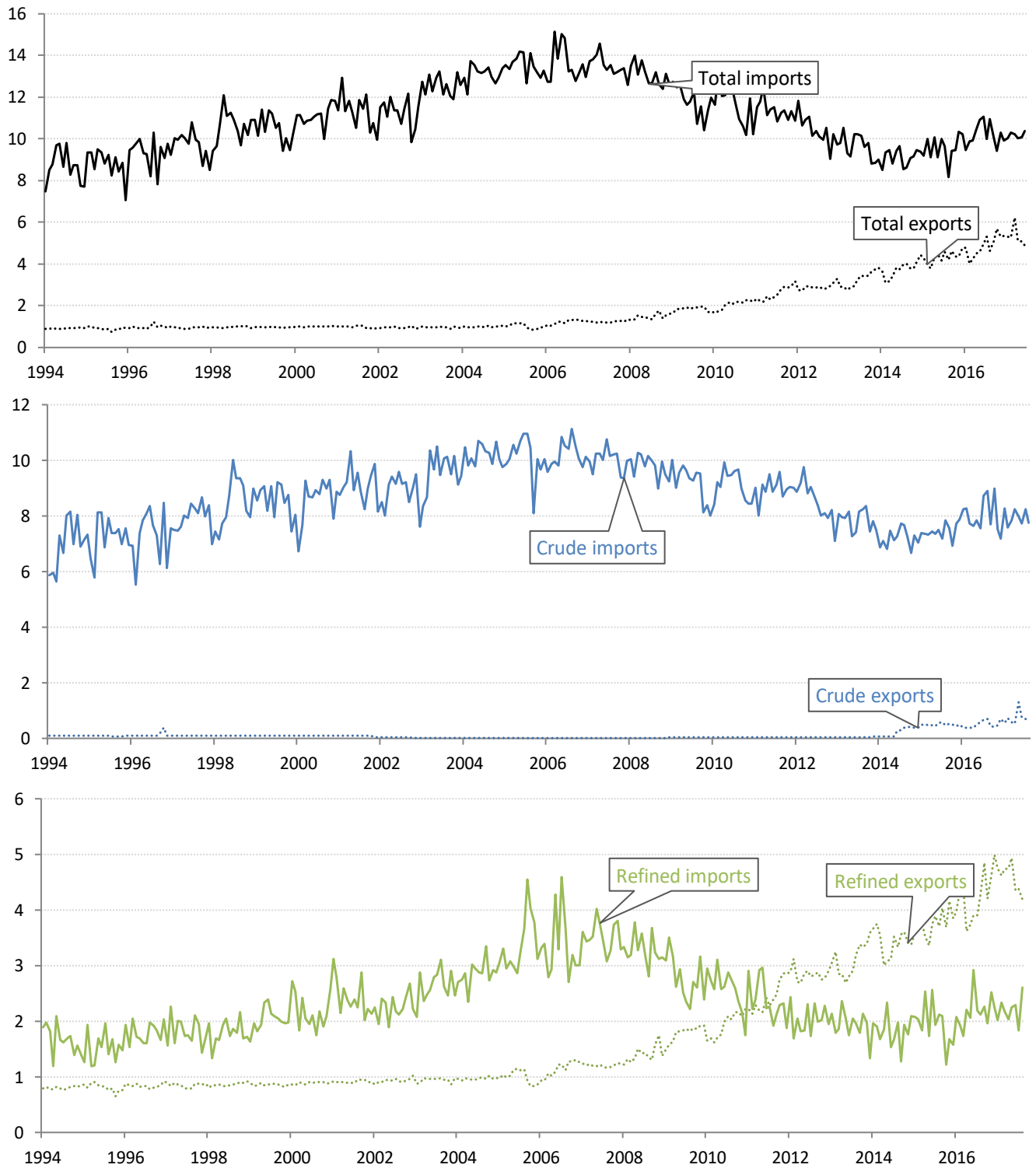
Source: Bloomberg News, TrendMacro calculations

The world of oil consumption Millions of barrels/day ■ Recession



Source: DOE EIA Short Term Energy Outlook, TrendMacro calculations

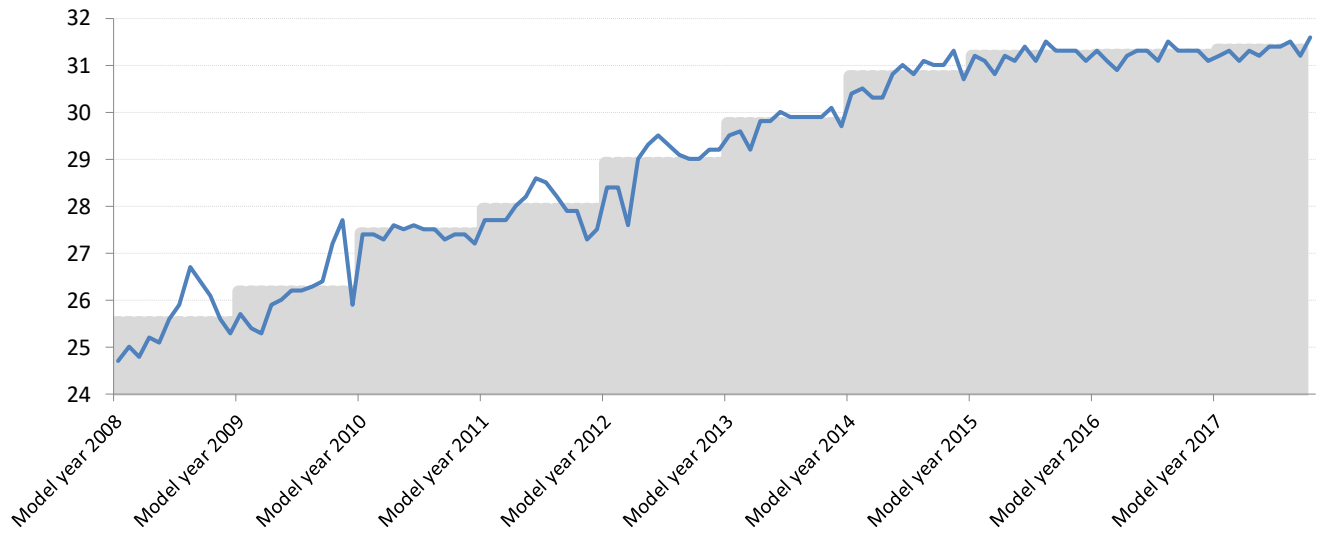
# US petroleum imports and exports Millions of barrels/day



Source: DOE Weekly Petroleum Status Report, TrendMacro calculations

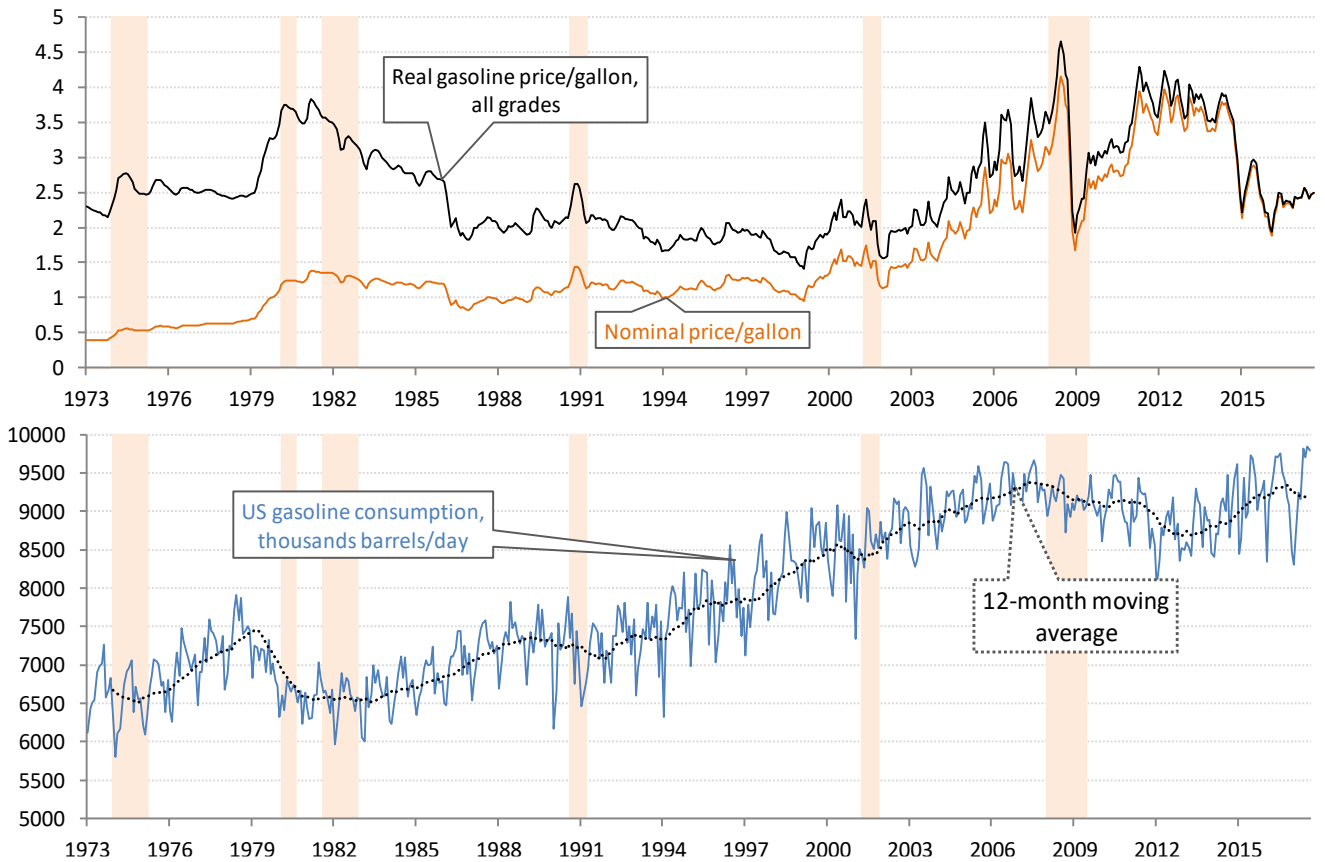


## Guzzle that gas! New-car fleet fuel-efficiency by MPG



Source: University of Michigan, TrendMacro calculations

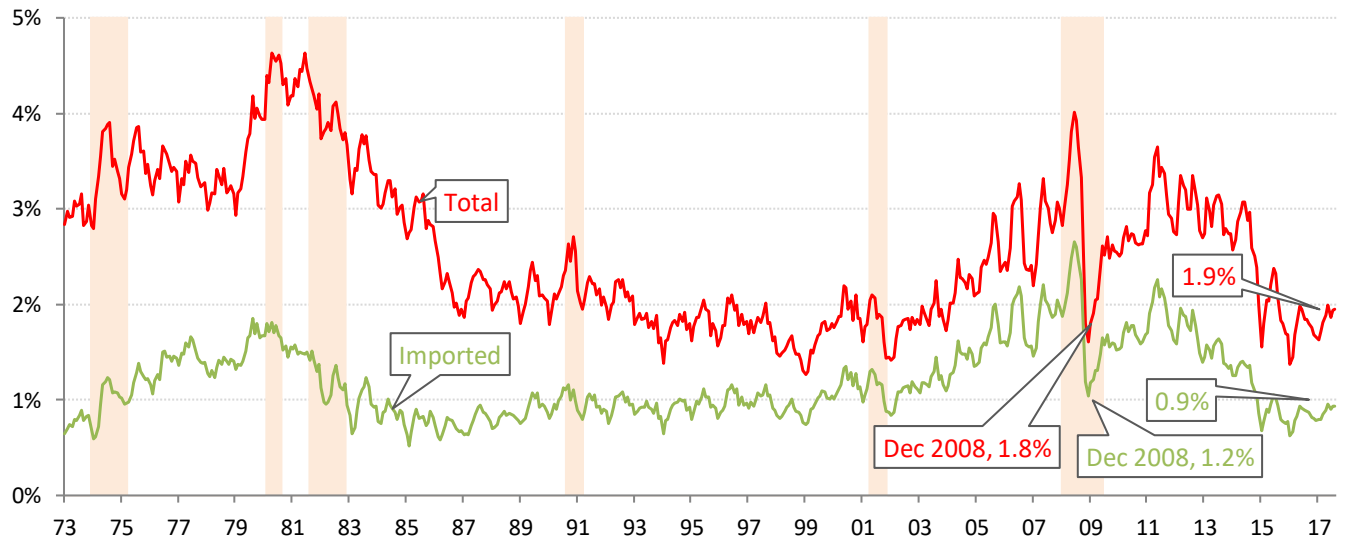
## US gasoline: paying a lot, using a lot



Source: DOE EIA Weekly Petroleum Status Report, Weekly Retail Gasoline Survey, TrendMacro calculations

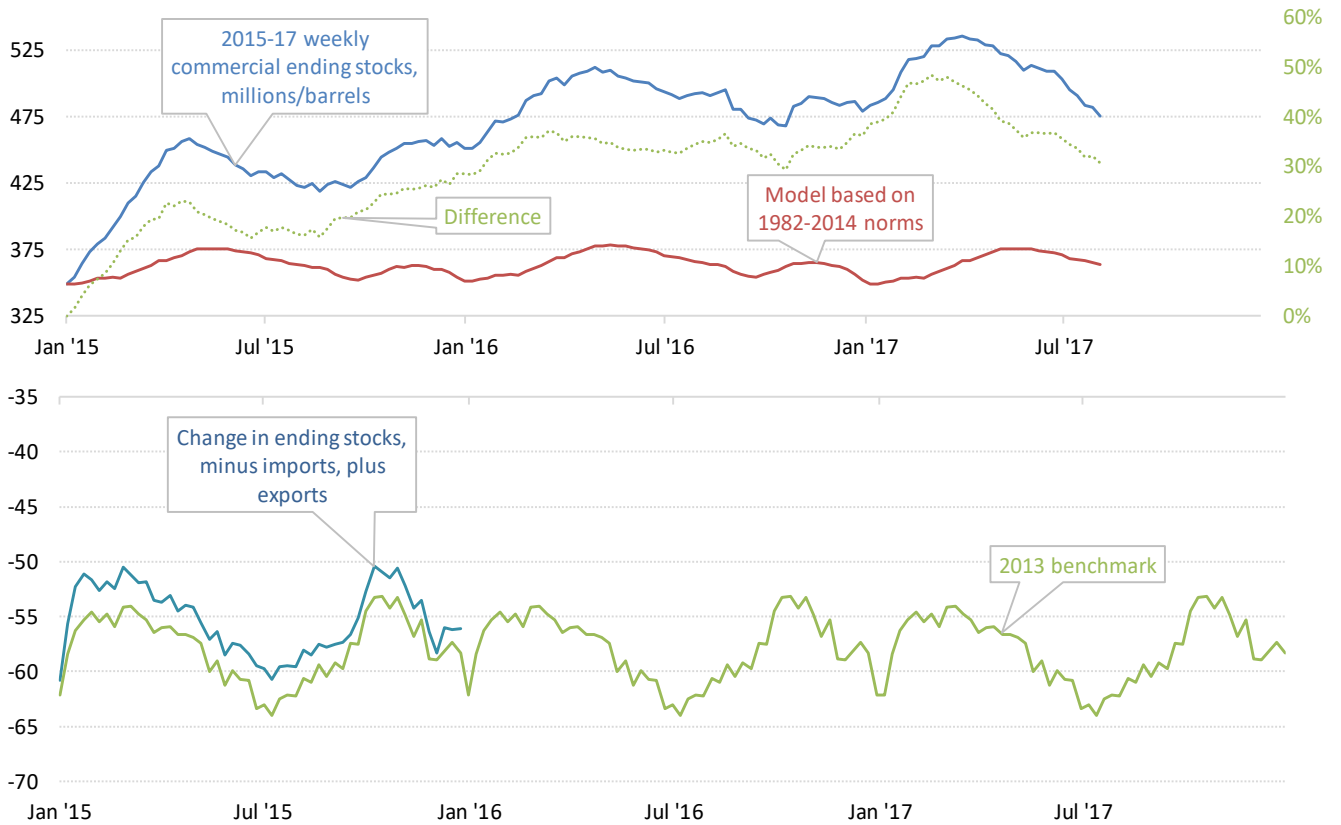
## The rubber meets the road: US gasoline spending as share of GDP

Recession



Source: BEA, DOE EIA, TrendMacro calculations

## The mirror of apparent demand: long-term US storage dynamics



Source: DOE EIA Weekly Petroleum Status Report, TrendMacro calculations