

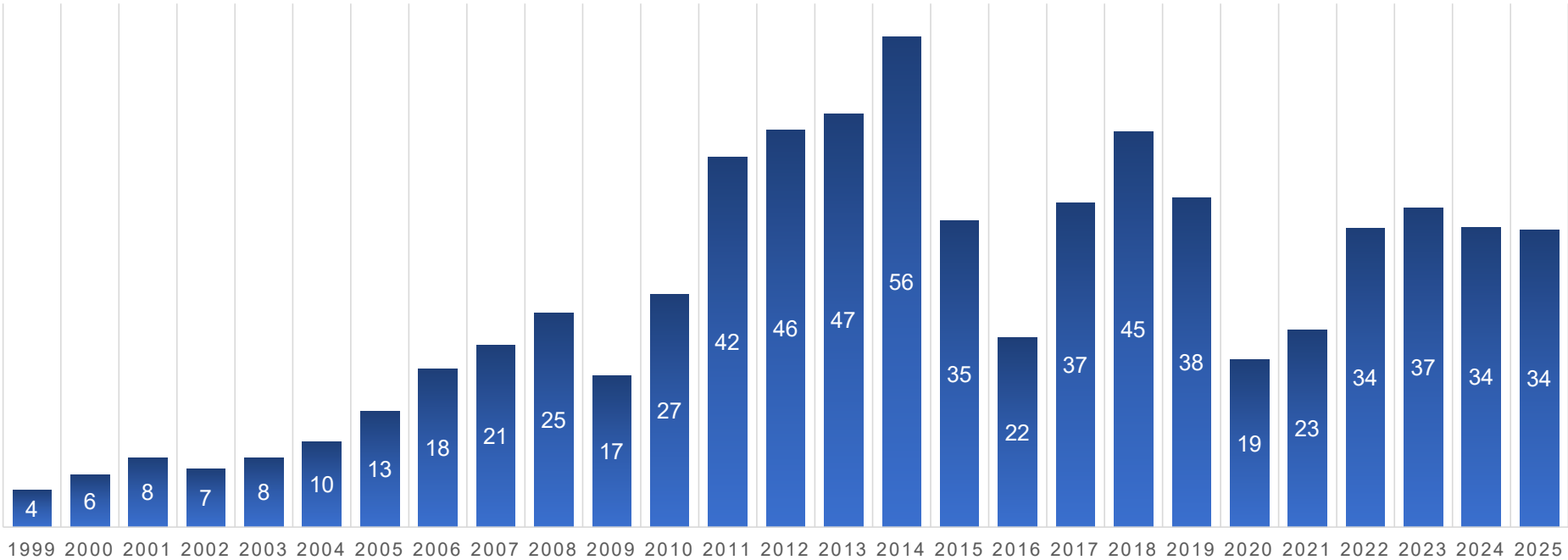
# Hydraulic Fracturing Market

SPE Gulf Coast Section North Side Study Group

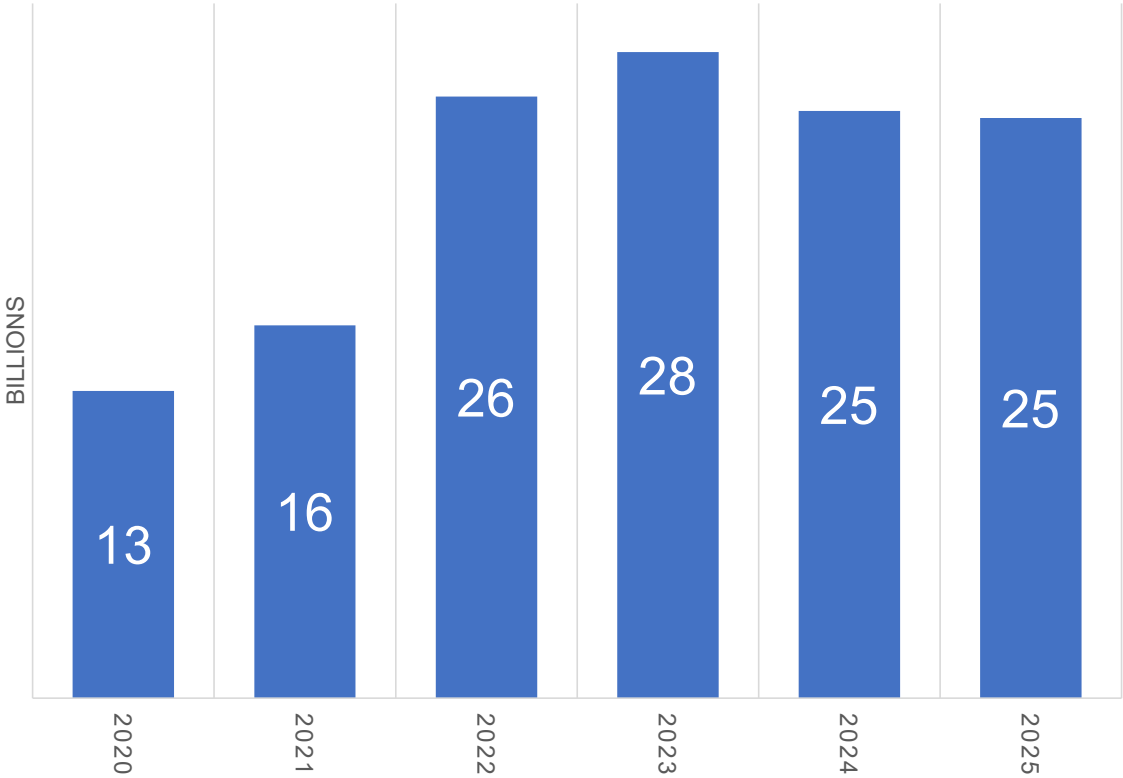
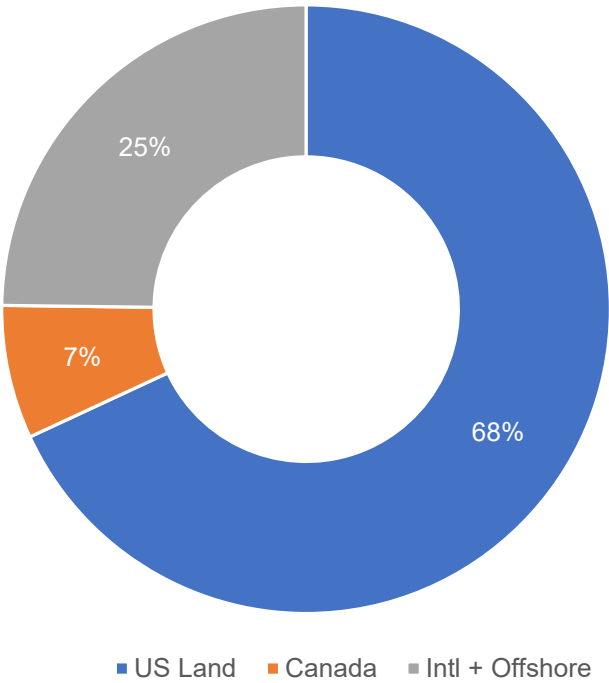
# Global Pressure Pumping 1999-2025

Many analysts lump hydraulic fracturing with cementing and gravel packing, calling the whole segment “pressure pumping”. Spears & Associates referred to the segment as pressure pumping until about 2004 when frac began to dwarf cementing, demanding its own market segment. Spending 2011-2014 was hyperinflated while downturns in 2016 and during COVID were unsustainably low. This establishes a possible steady-state spending level of about \$34B.

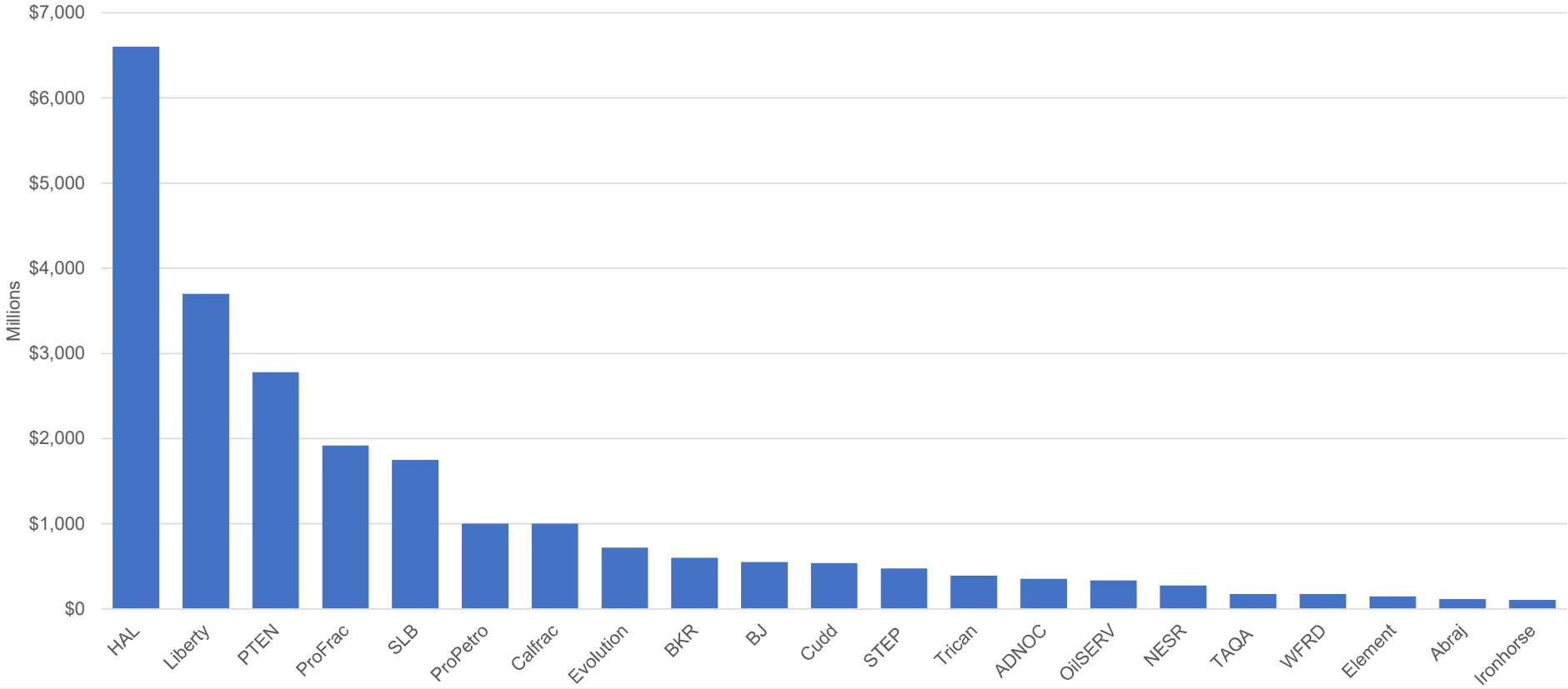
BILLIONS OF USD



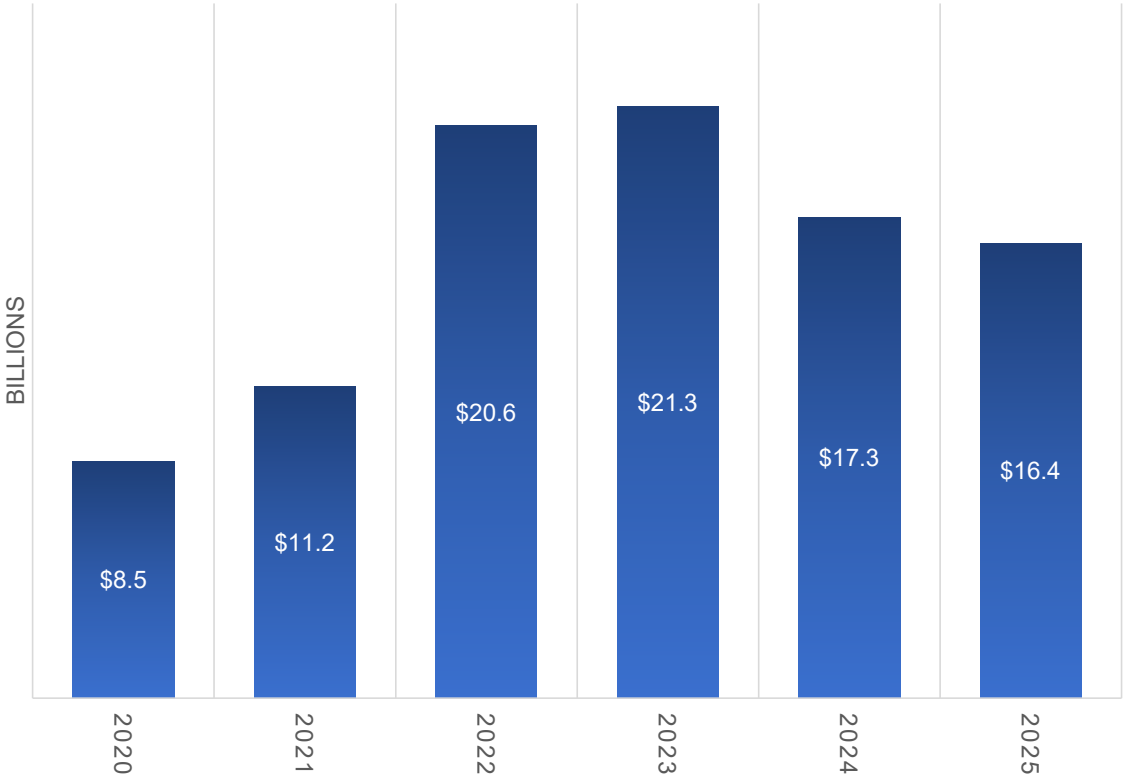
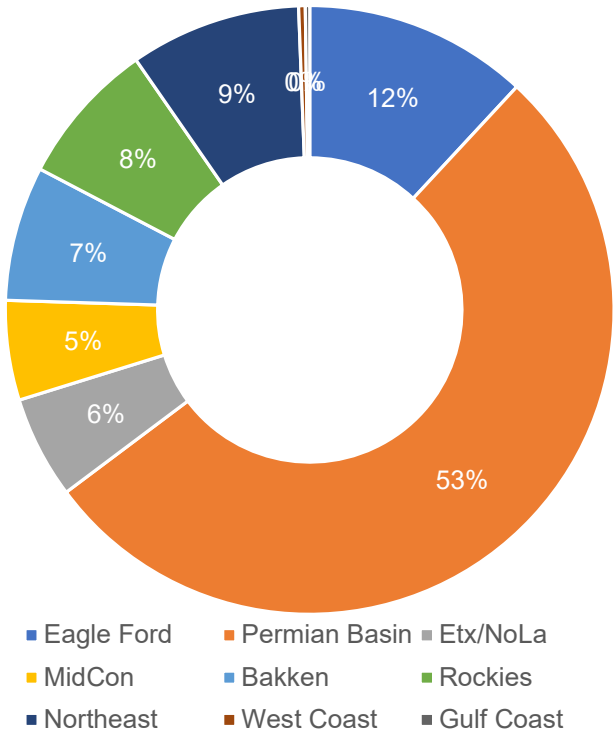
# Hydraulic Fracturing Global Market



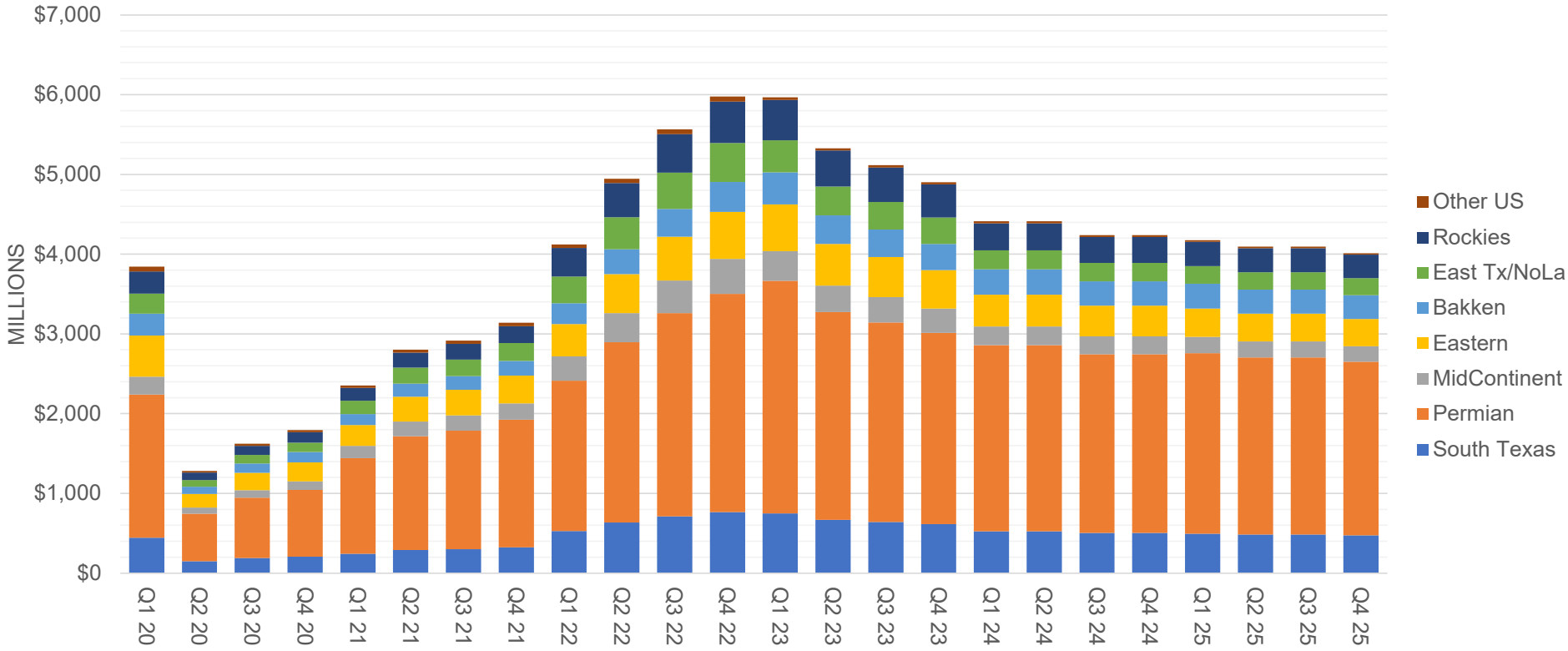
# Hydraulic Fracturing Global 2025 Revenues



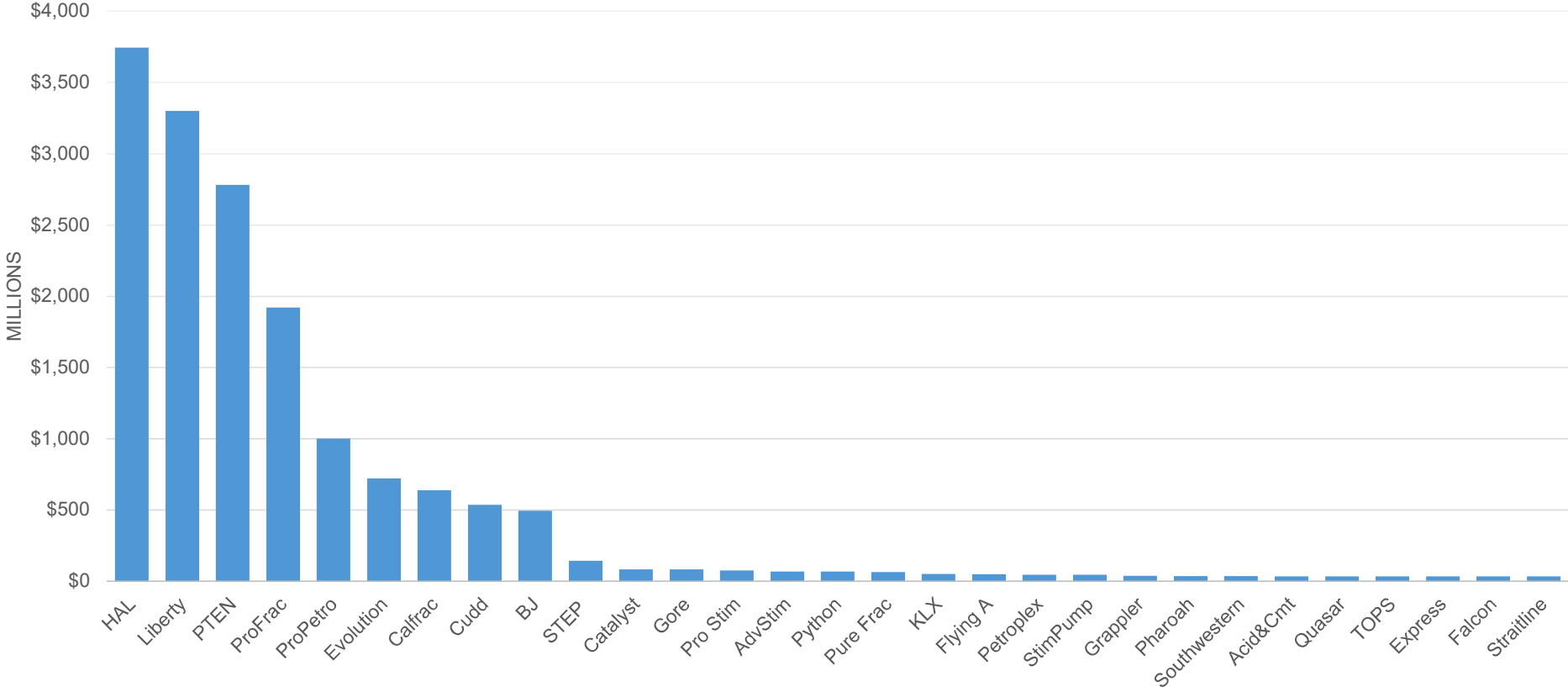
# Hydraulic Fracturing US Land Market



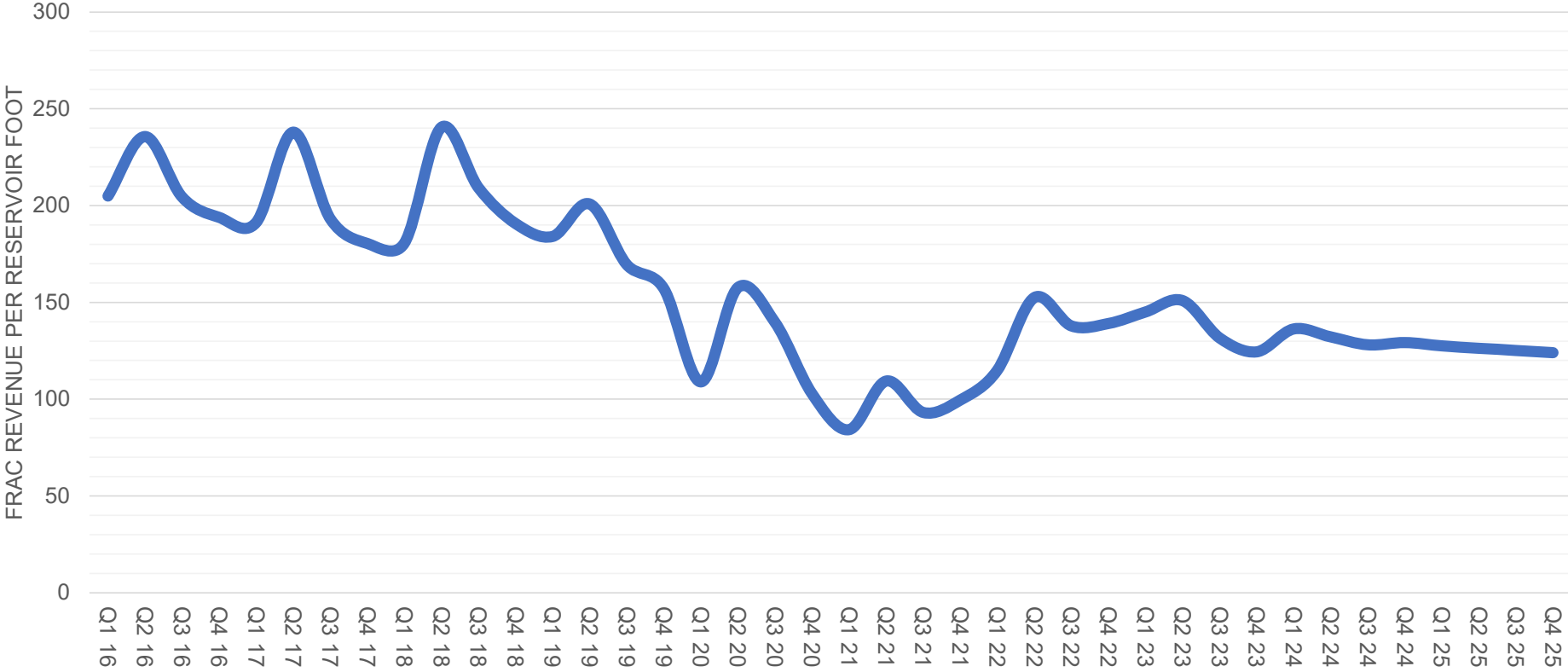
# Frac US Market by Quarter



# Hydraulic Fracturing US Frac Revenues '25

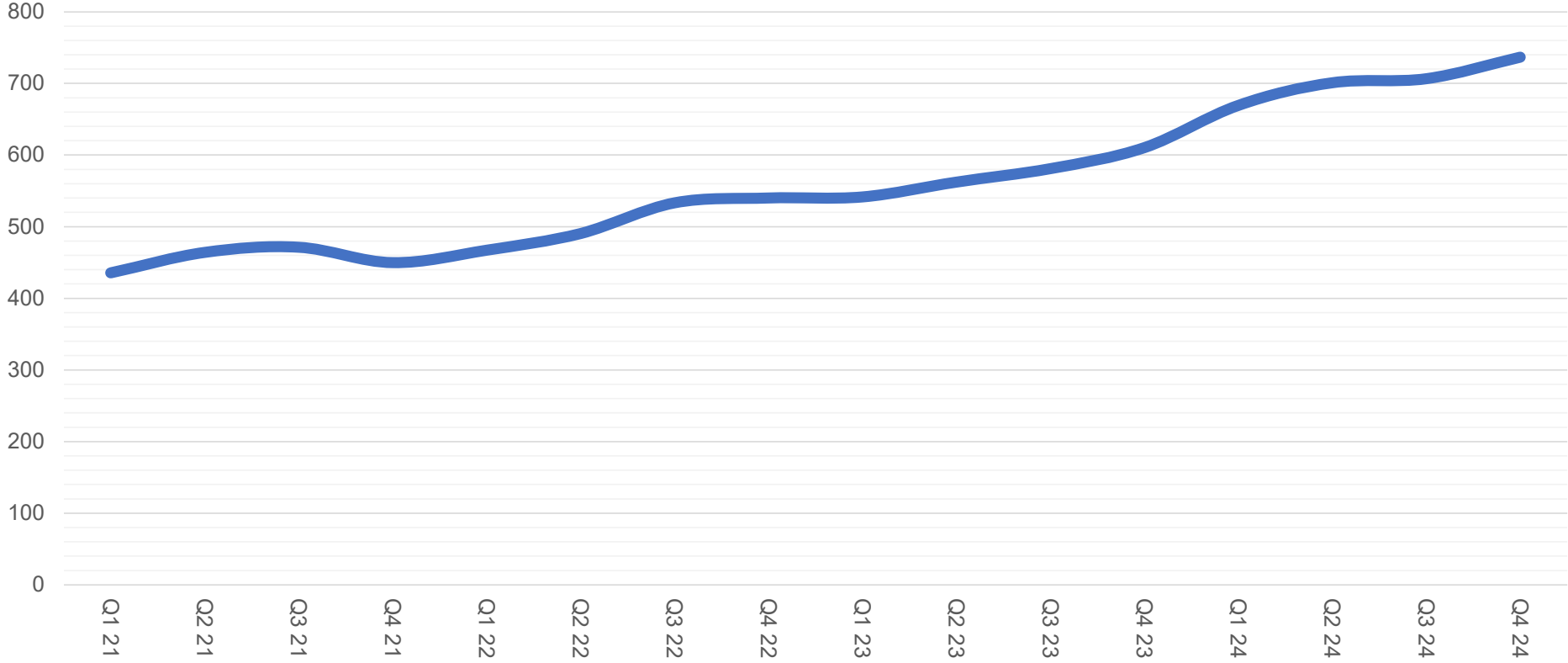


# Hydraulic Fracturing \$ per Reservoir Foot

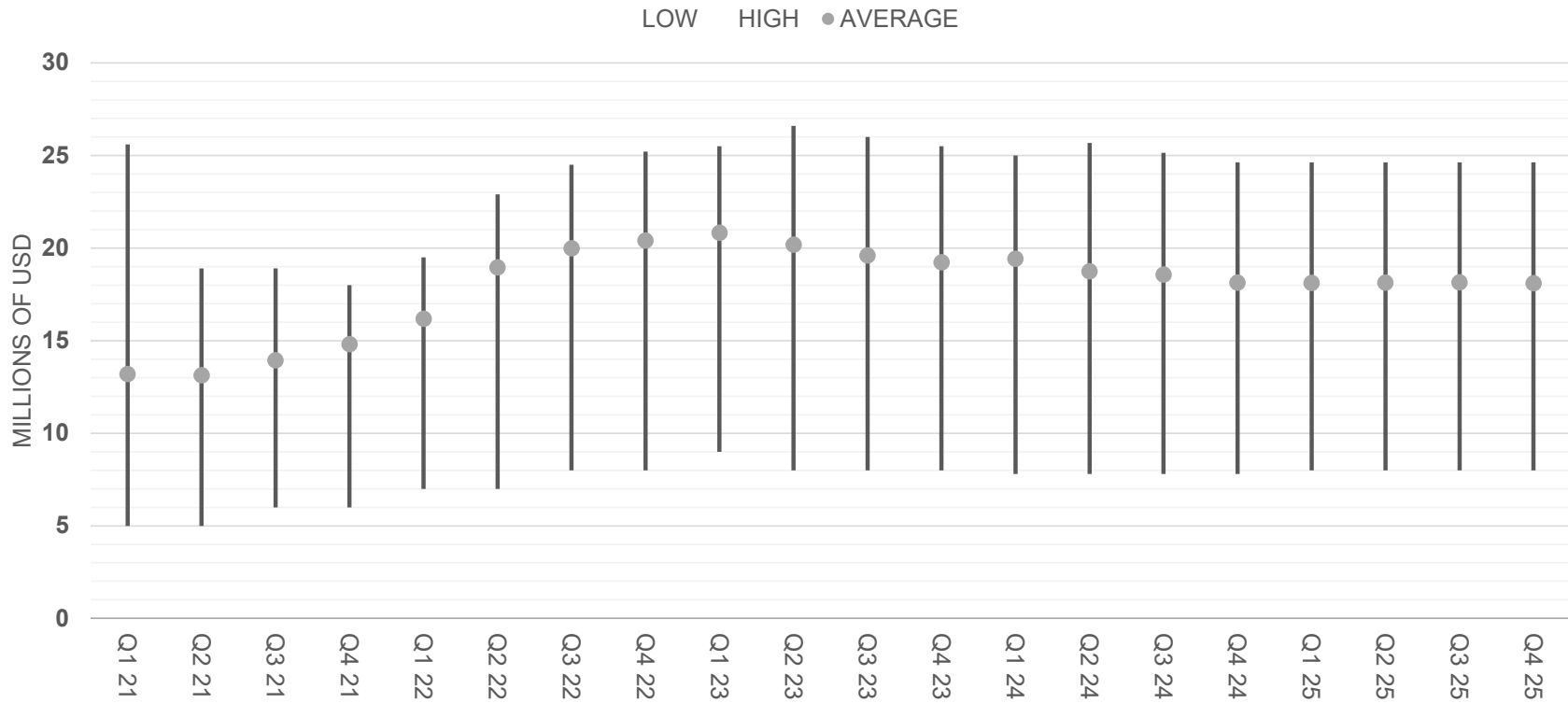




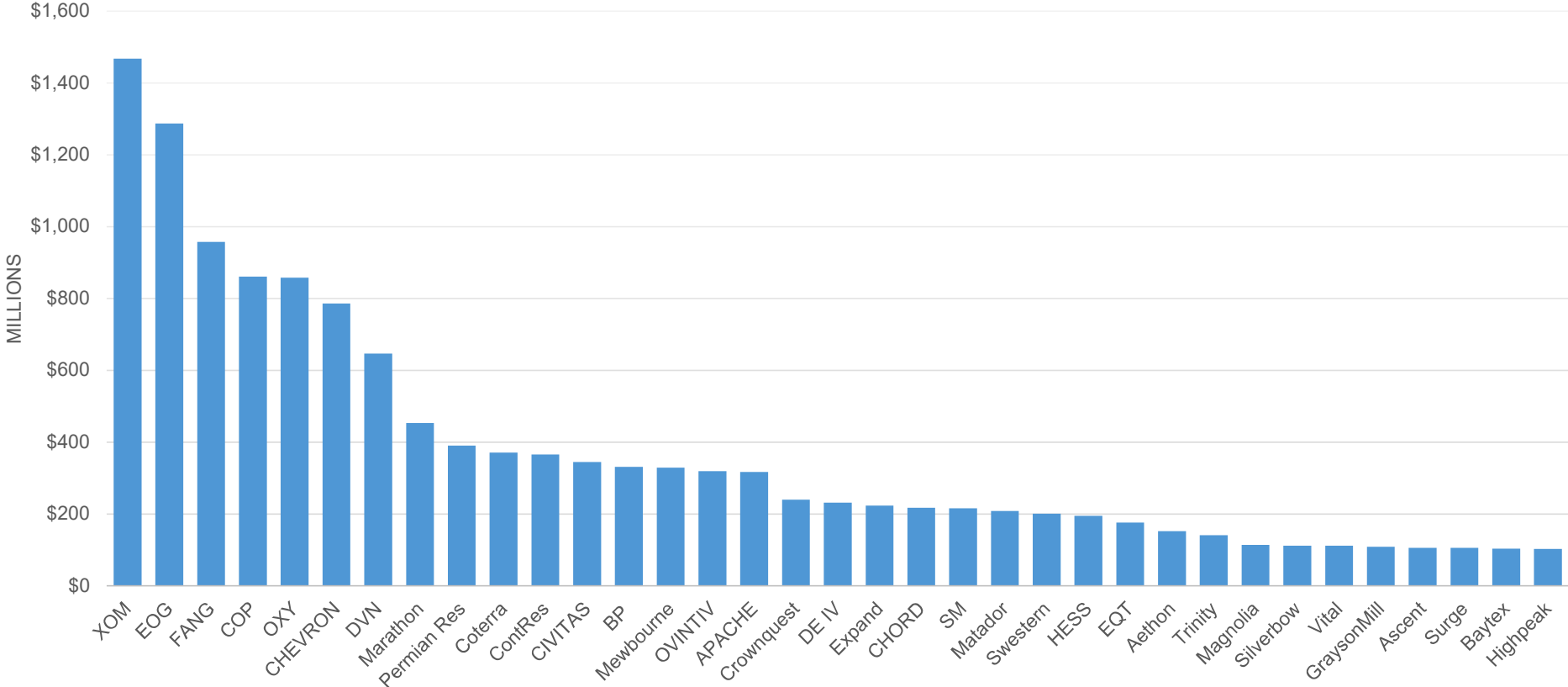
# Frac Quarterly Stages per Frac Crew



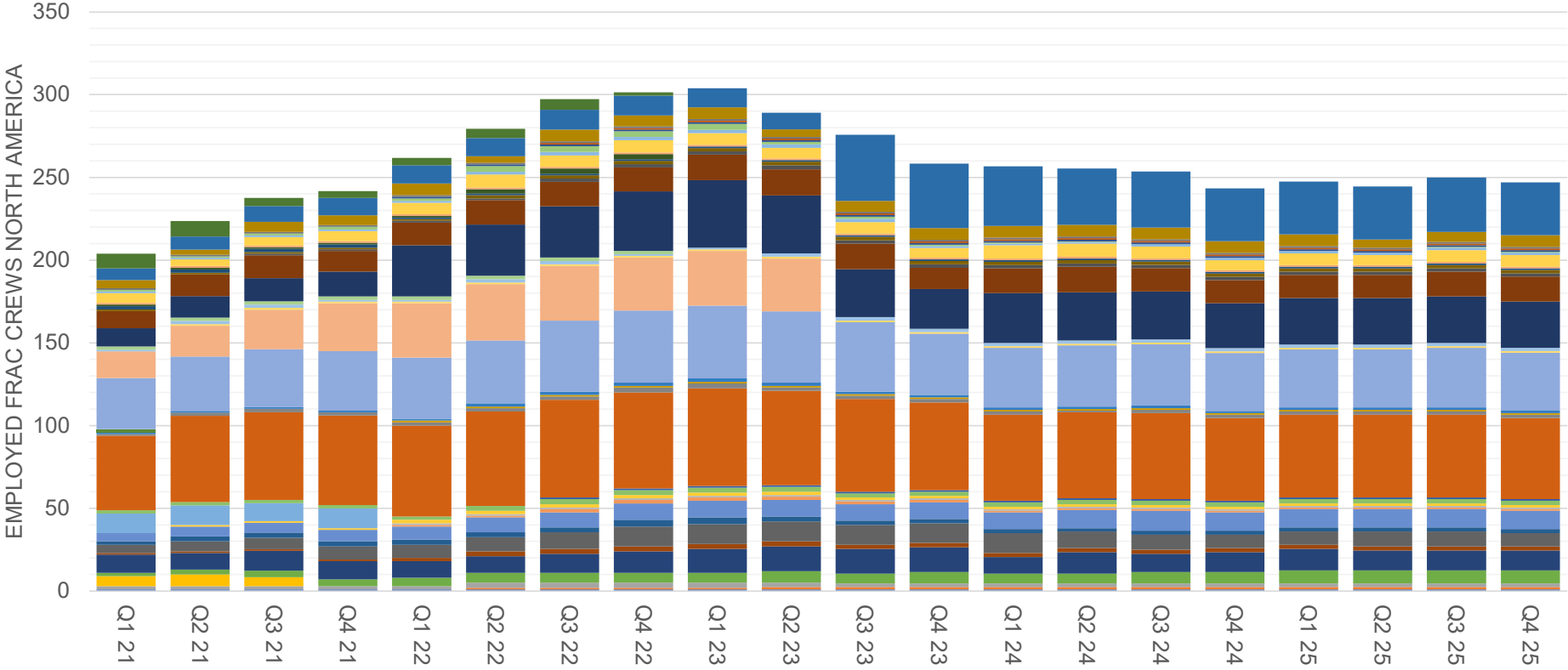
# NoAm Frac Quarterly Revenues per Crew



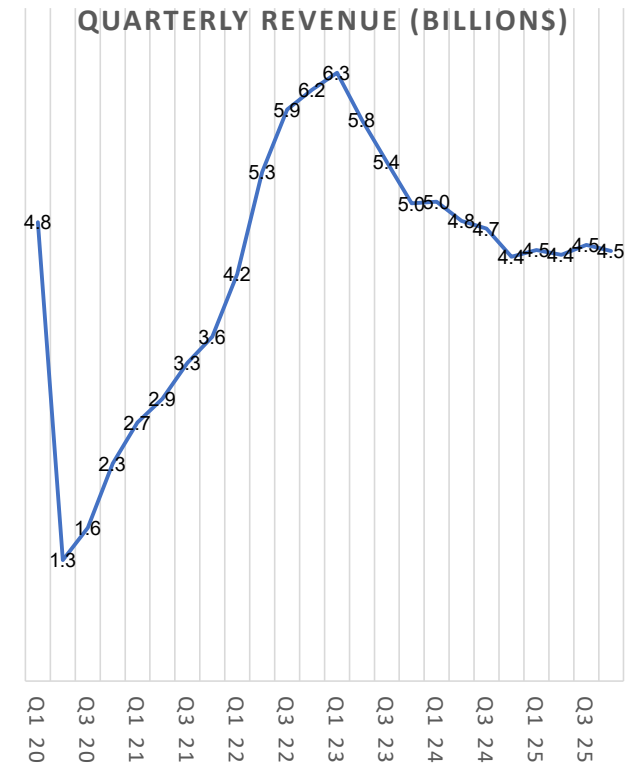
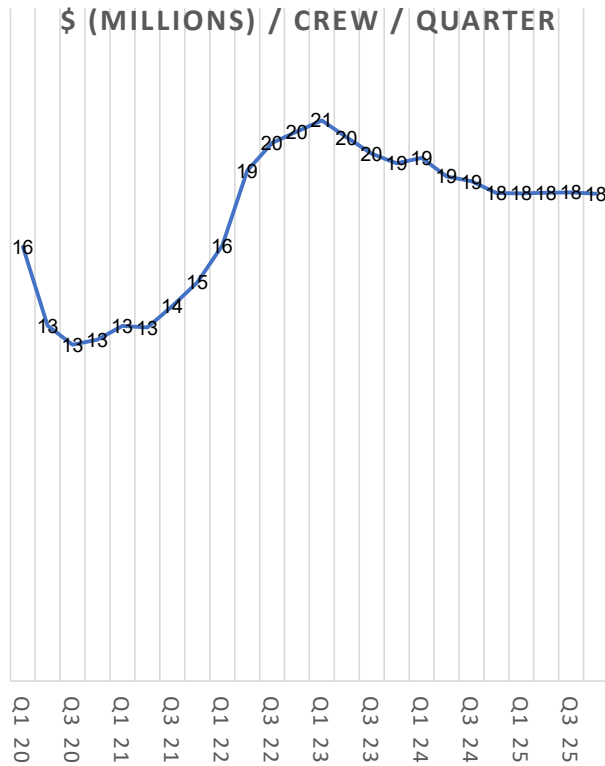
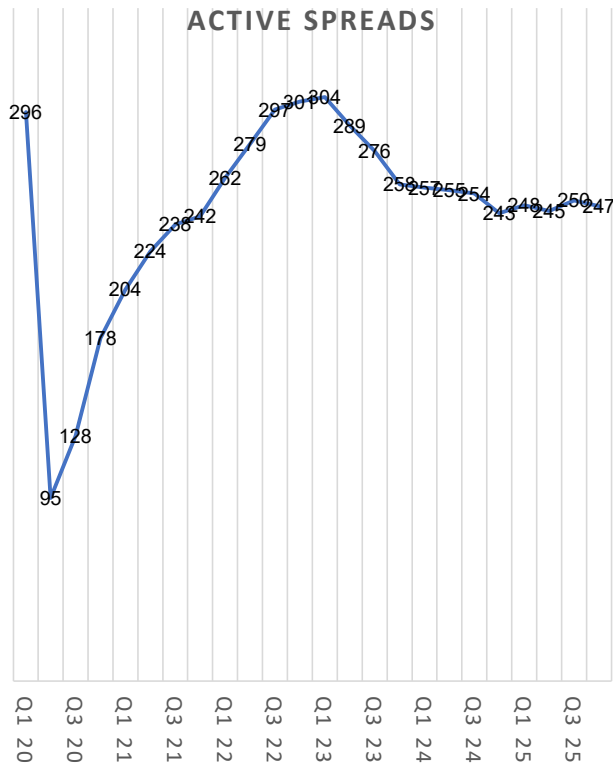
# US Land Frac Spending 2024 by E&P



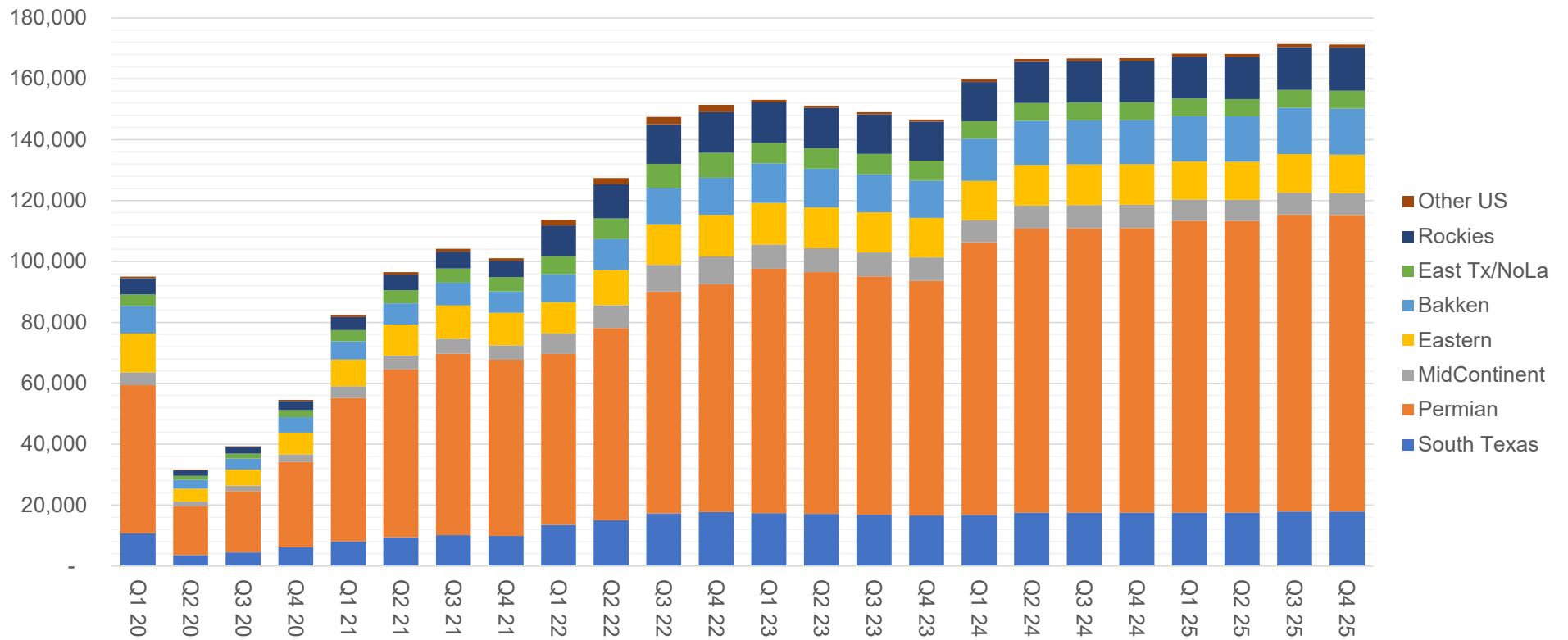
# Frac Quarterly Active Crews (North America)



# North America Total Frac Fleet

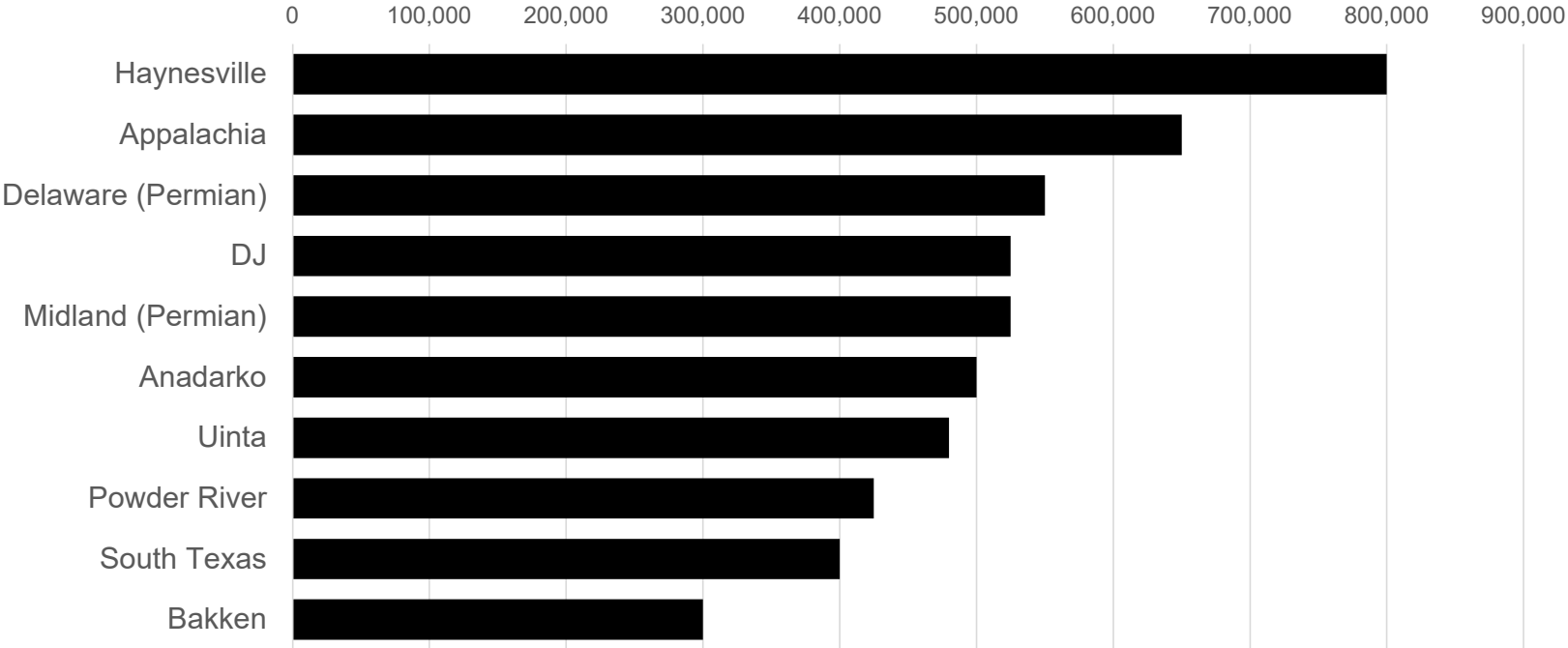


# Frac US Land Frac Stages



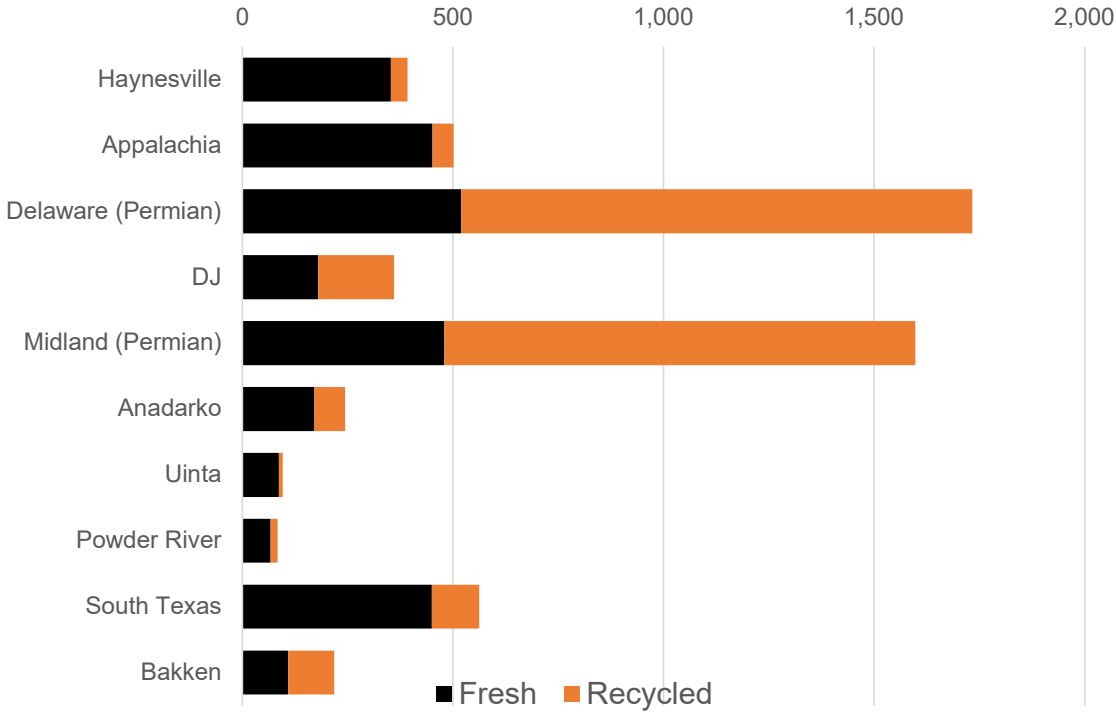
# Hydraulic Fracturing Water Per Frac Job

Average BBLs of Water per Frac Job (Well)

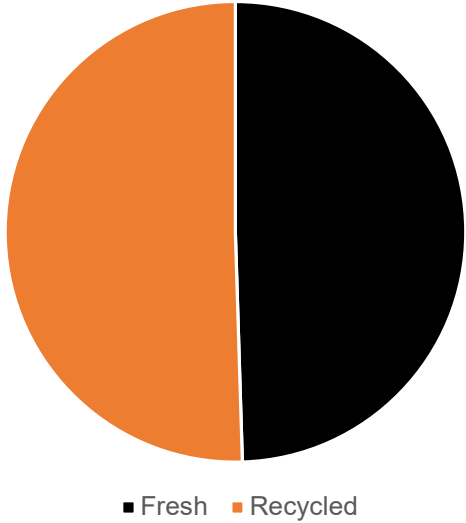


# Hydraulic Fracturing Frac Water per Year

Millions of BBLs of Frac Water by Source of Water



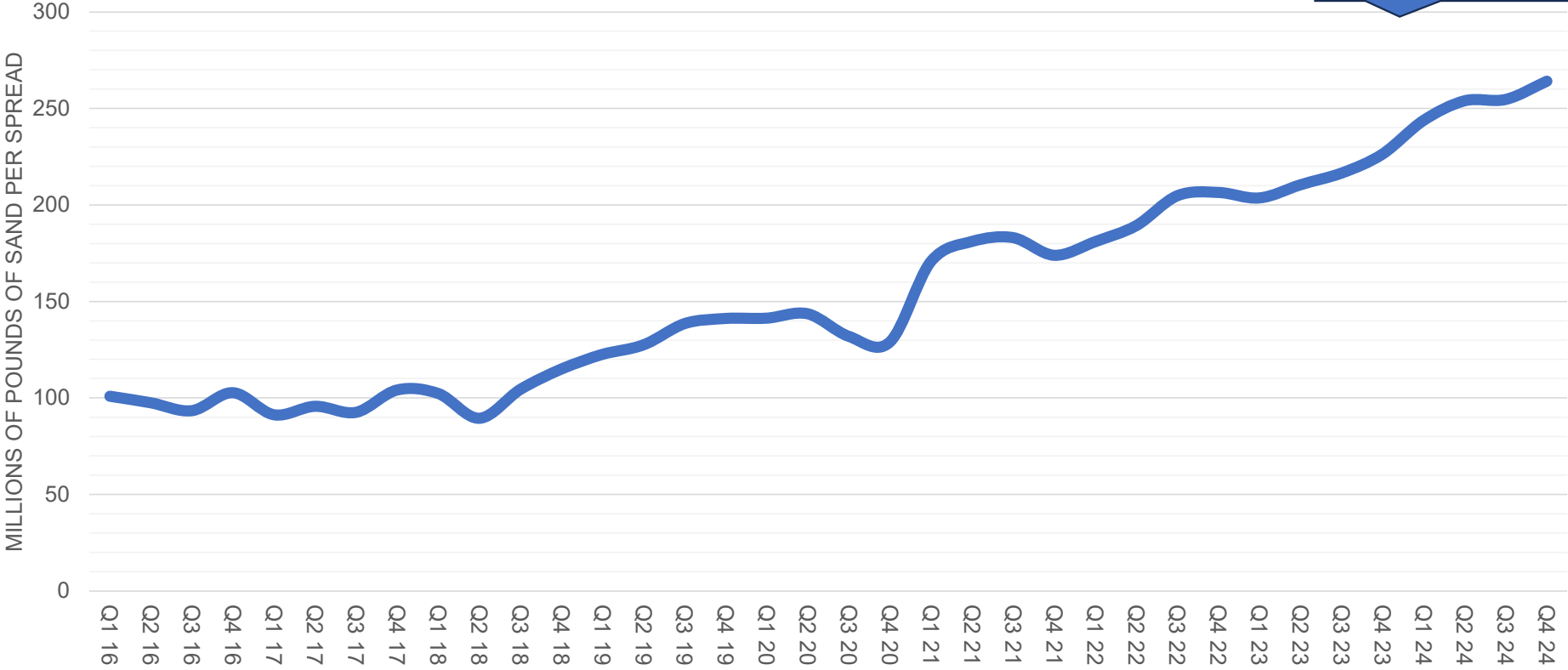
~6B BBLs of Annual Frac Water





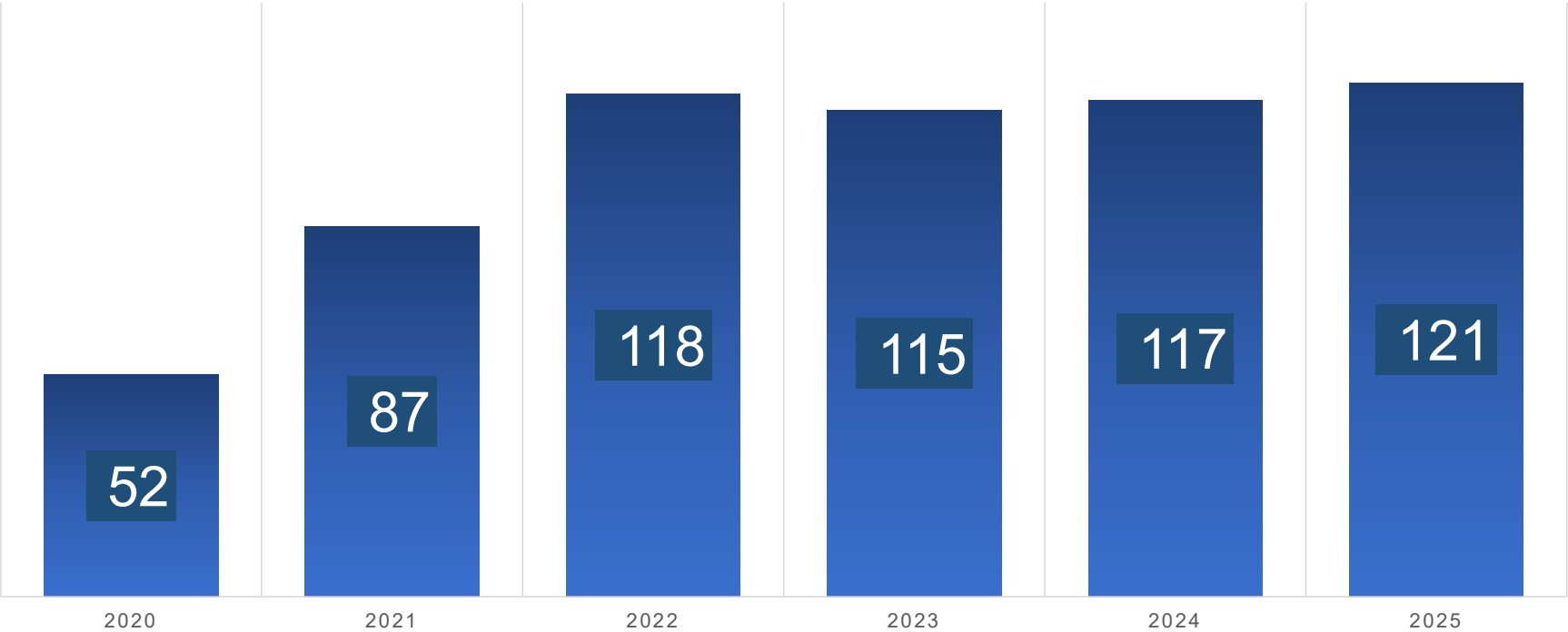
# Frac Quarterly Sand per Frac Crew

Efficiency +10%  
year over year



# Proppants Market Overview North America

(MILLIONS OF TONS)



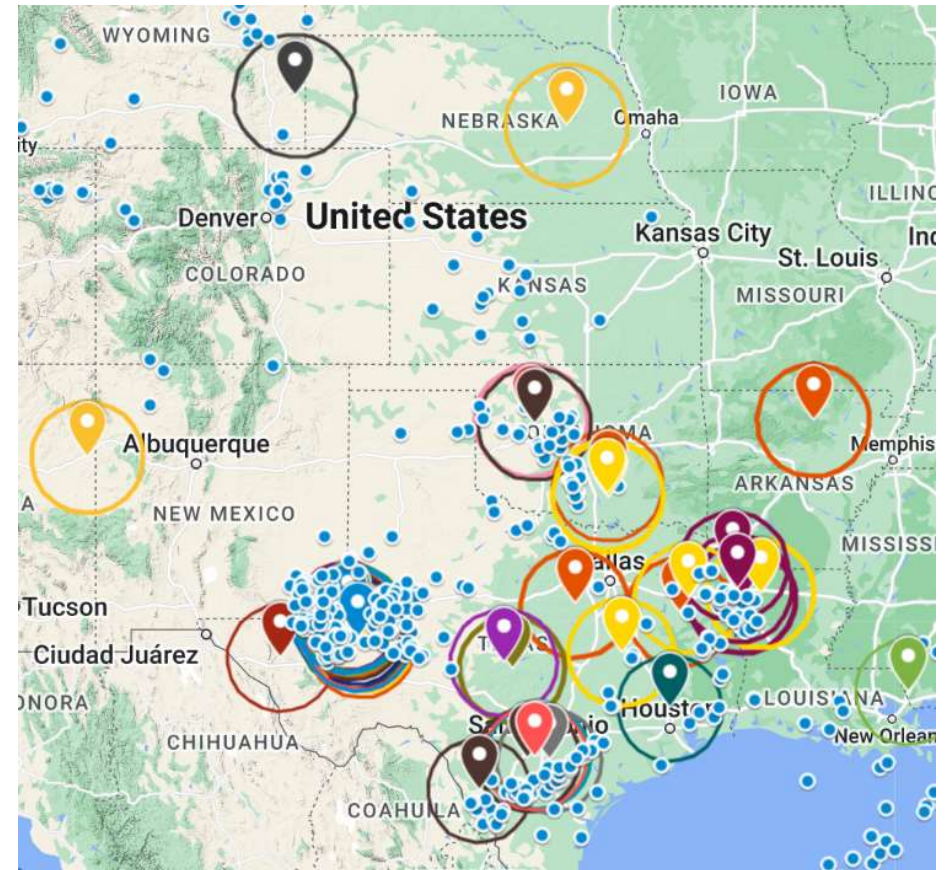
# Supply Mines & Rigs

This section plots the physical location of current and proposed mines and all active drilling rigs in the US.

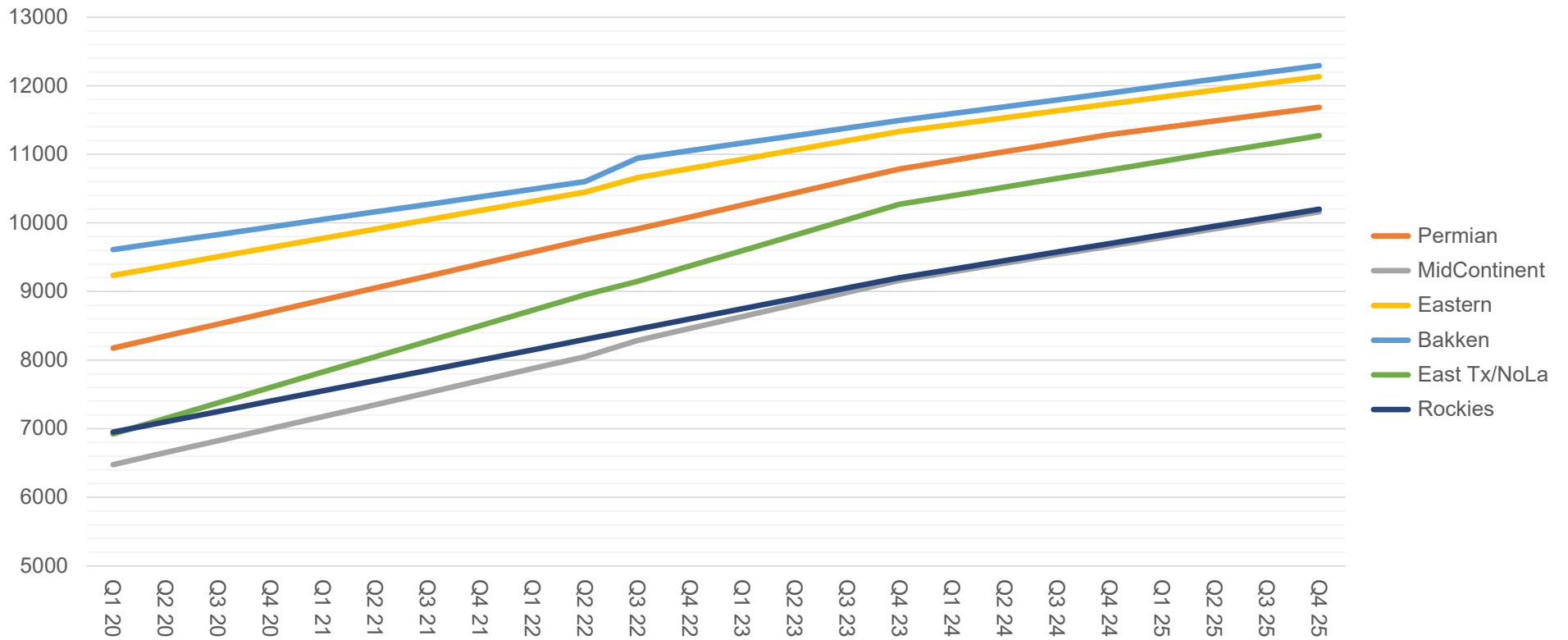
**Around each mine a 75-mile radius has been drawn.** 75 miles is the maximum distance a sand truck driver can drive one way in order to get 3 round trips during a 12-hour shift.

Apache Corporation determined that 150 miles one way is the distance where trucking and trucking+rail are approximately the same cost.

Not included here are sand mines in Wisconsin. Sand in that state must be railed to various basins – Wisconsin does not have oil & gas drilling.

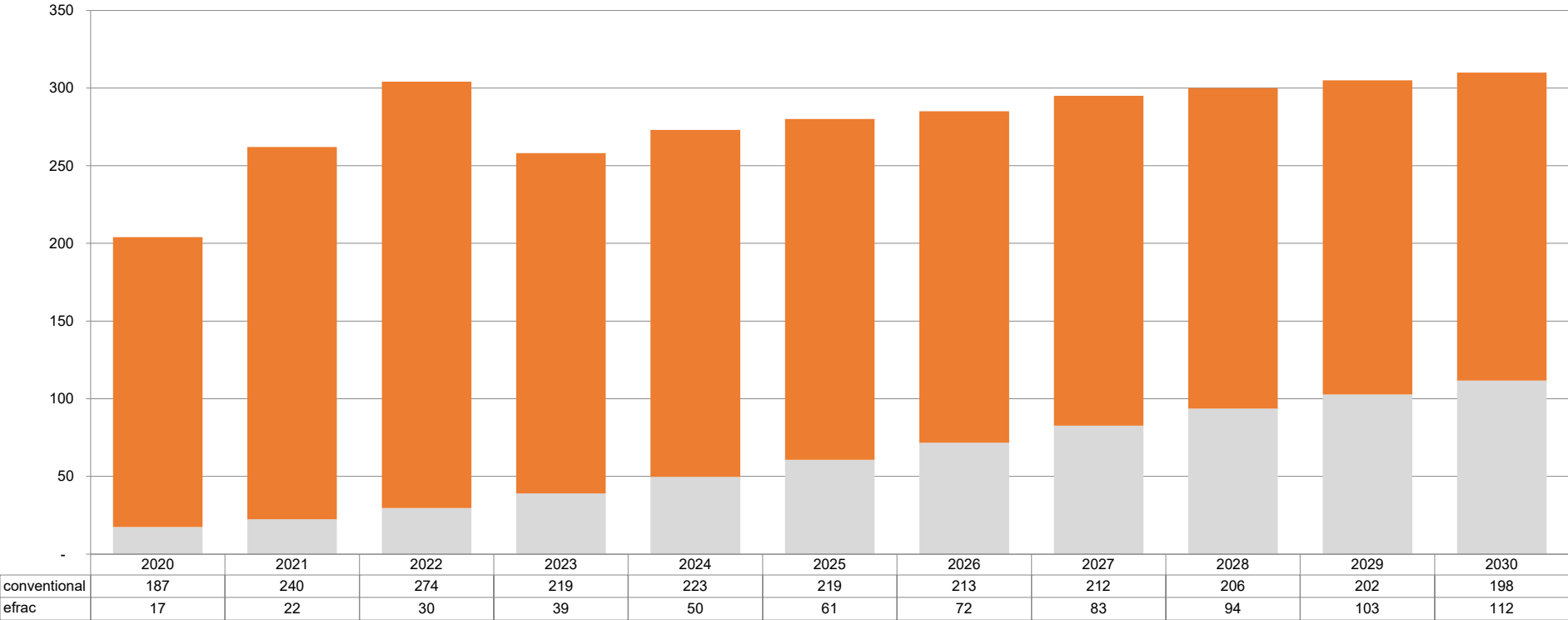


# Drivers Average Lateral Length

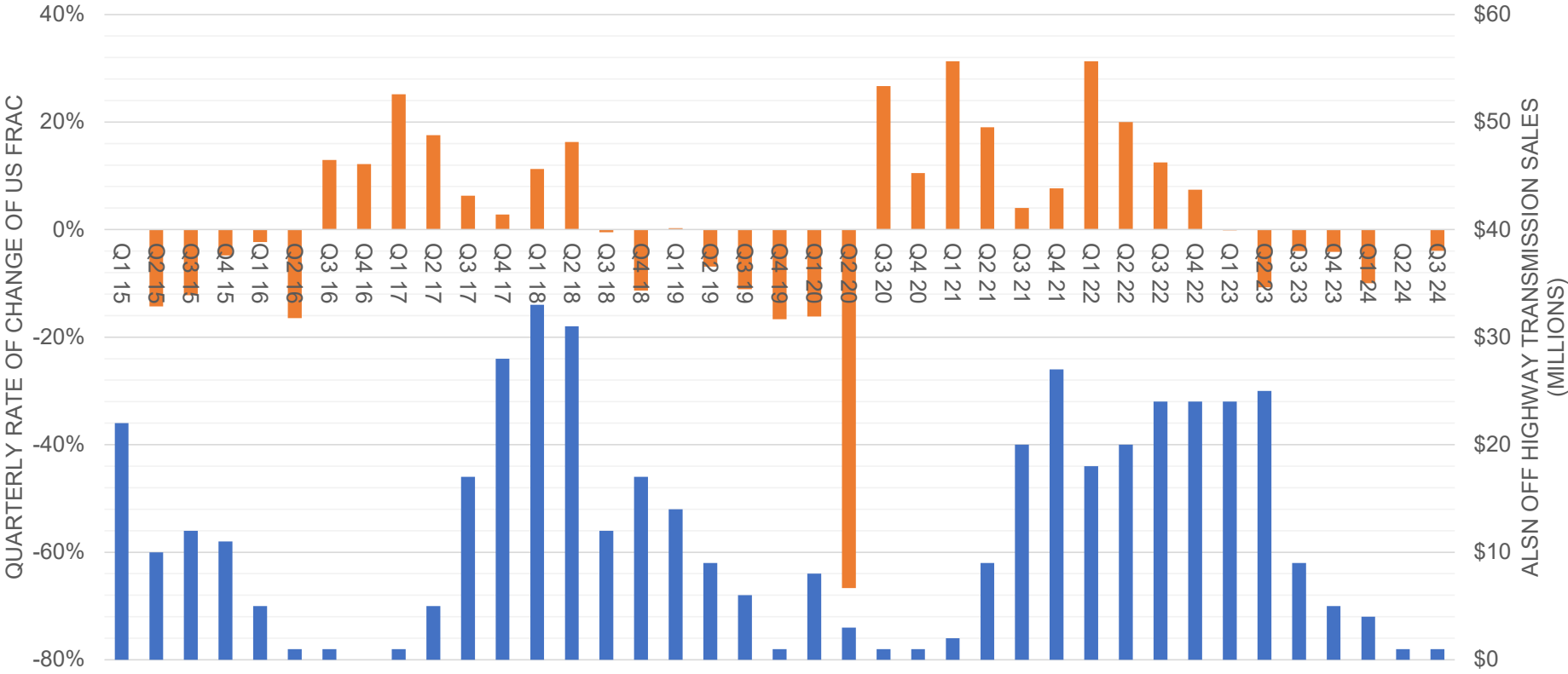


# Frac Fleet Total NoAm Fleet Forecast to 2030

Active Frac Crews



# Cycles Frac health impacts equipment orders



# TYPE 4 Zipper – monoflex/monoline



# Frac US Market by Quarter

