

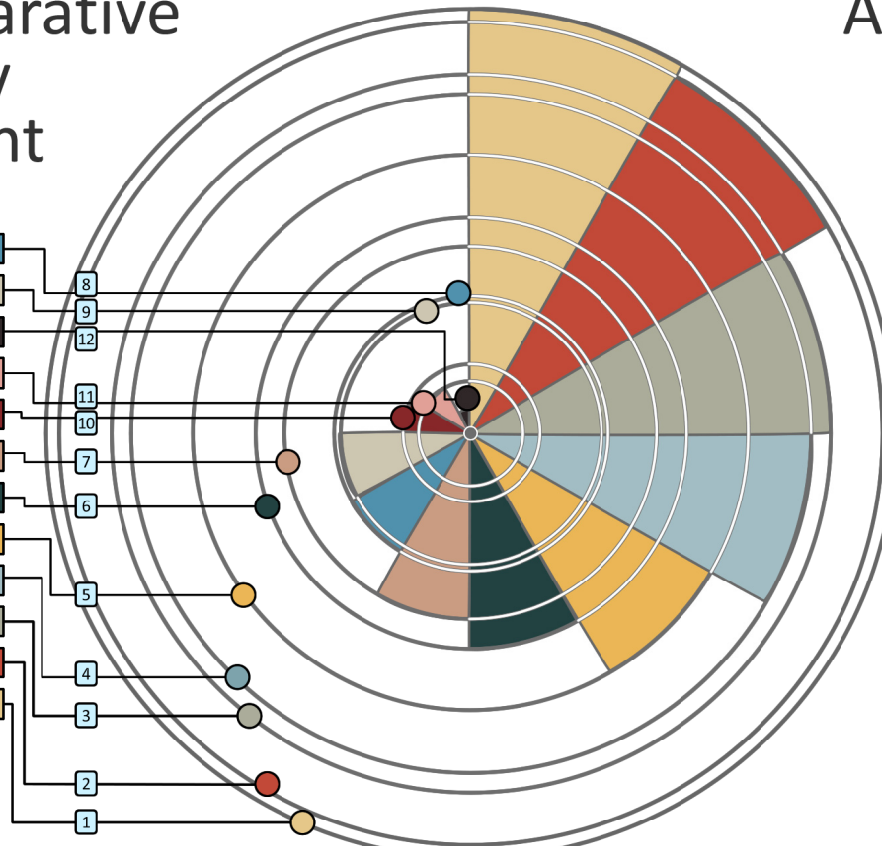
Best Wishes for a Merry Christmas, Happy Holidays and a Prosperous
 (if somewhat more regulated)
 2020
 from the Charles Weber Research Team

Comparative Energy Content

Alternative Fuel Sources

Btu/Gallon (LHV)

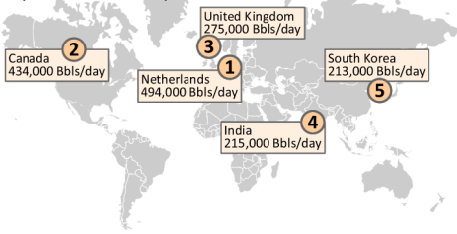
- 41,700 Btu/gallon
- 41,000 Btu/gallon
- 6,500 Btu/gallon
- 16,000 Btu/gallon
- 21,240 Btu/gallon
- 56,800 Btu/gallon
- 76,100 Btu/gallon
- 84,300 Btu/gallon
- 114,100 Btu/gallon
- 118,300 Btu/gallon
- 128,488 Btu/gallon
- 129,500 Btu/gallon



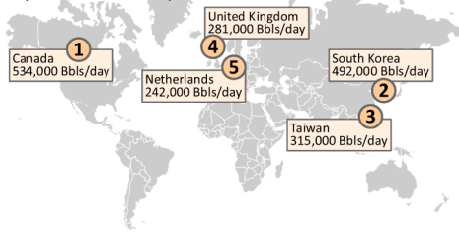
- Diesel
- Low Sulfur Diesel
- Biodiesel
- Gasoline
- LPG (Propane)
- Ethanol
- Methanol
- Ammonia
- CNG (3600 psi)
- LNG
- Hydrogen (10 kpsi)
- Hydrogen (5 kpsi)



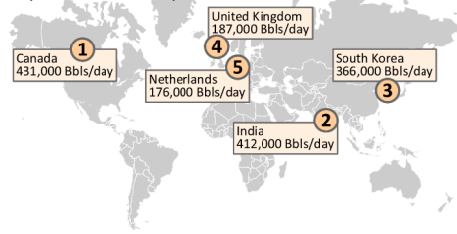
January 2019
Top 5 U.S. Crude Export Destinations



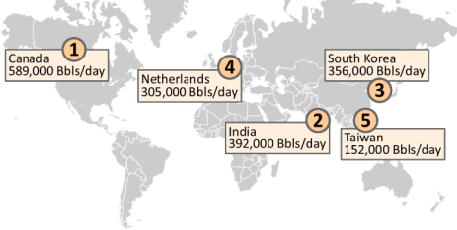
February 2019
Top 5 U.S. Crude Export Destinations



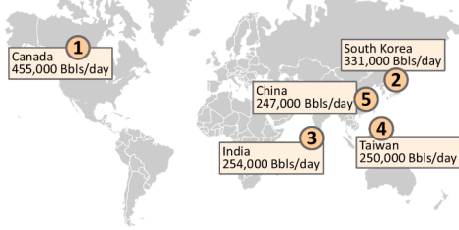
March 2019
Top 5 U.S. Crude Export Destinations



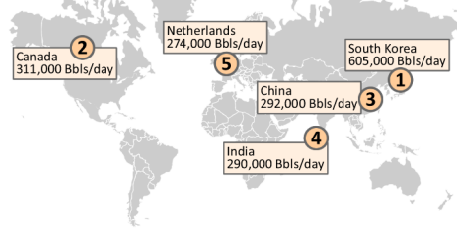
April 2019
Top 5 U.S. Crude Export Destinations



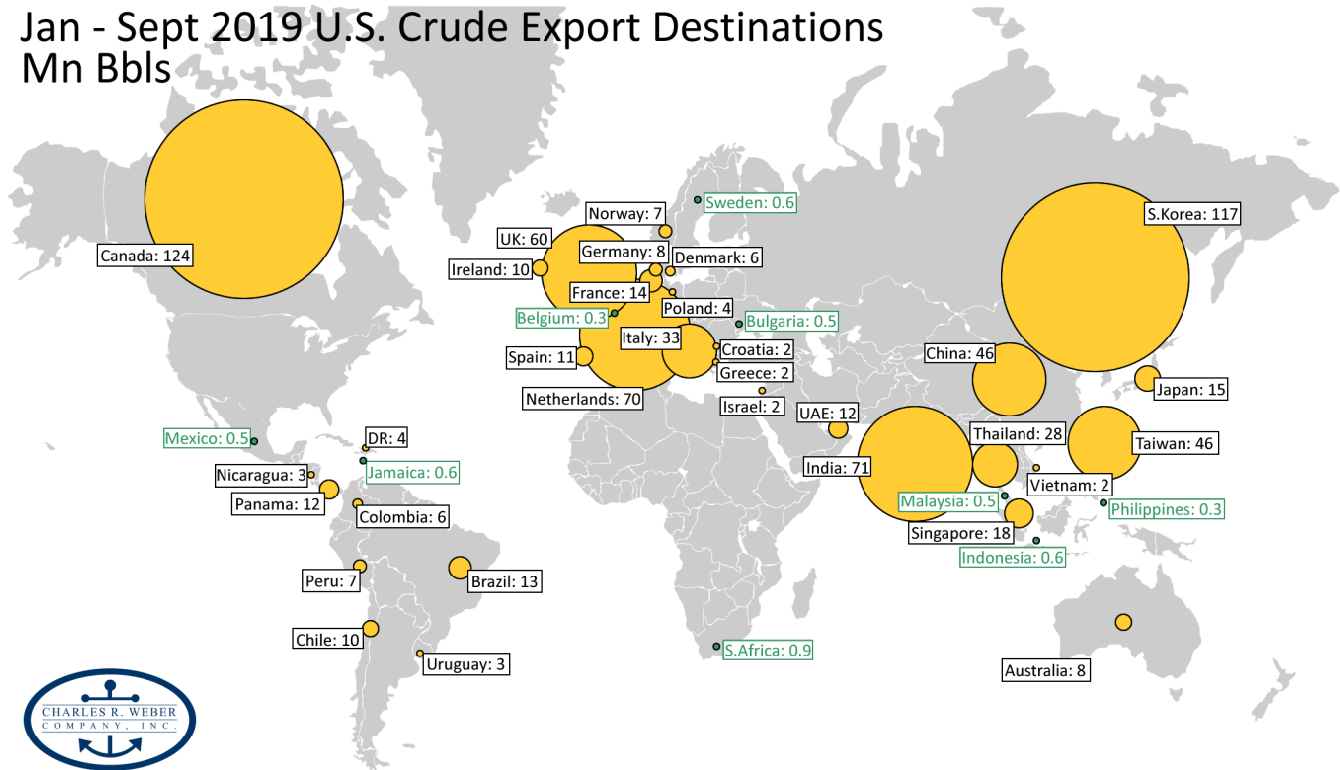
May 2019
Top 5 U.S. Crude Export Destinations



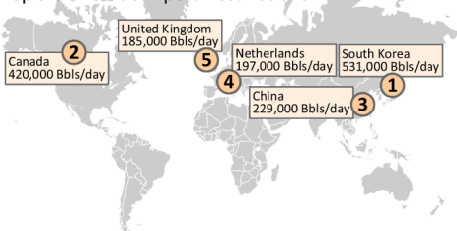
June 2019
Top 5 U.S. Crude Export Destinations



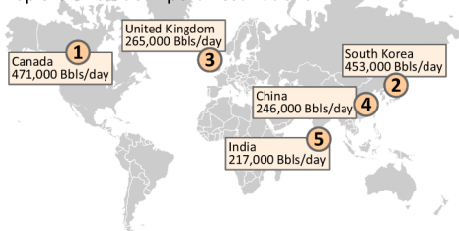
Jan - Sept 2019 U.S. Crude Export Destinations
Mn Bbls



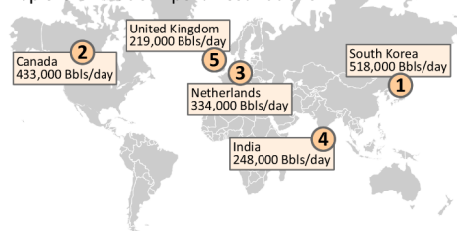
July 2019
Top 5 U.S. Crude Export Destinations

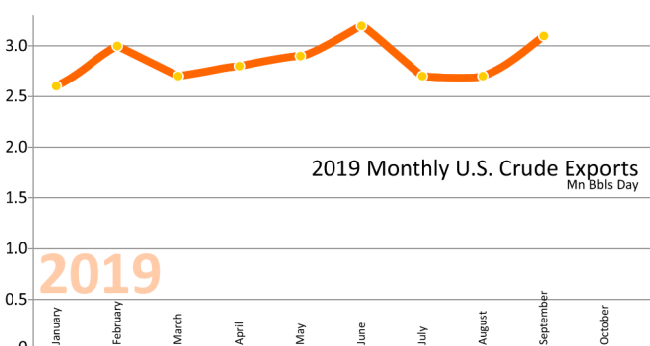
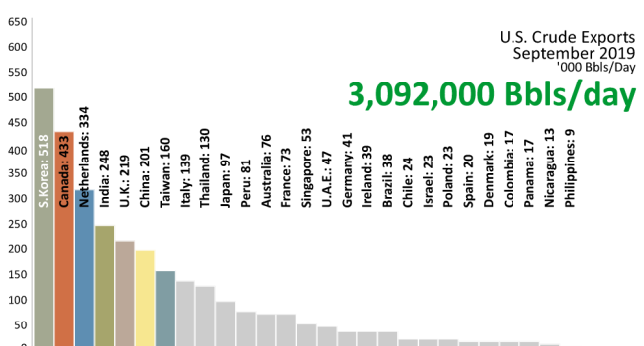
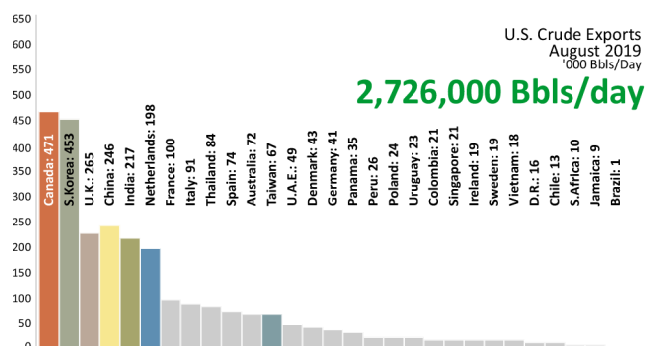
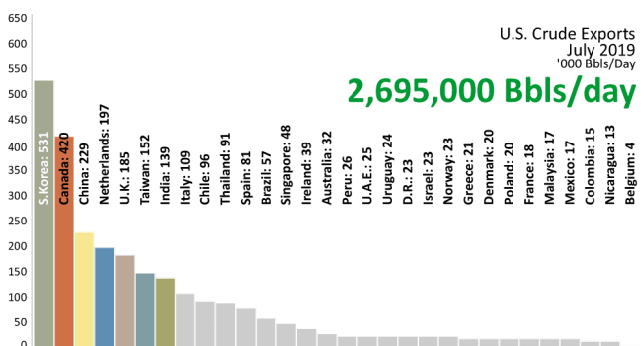
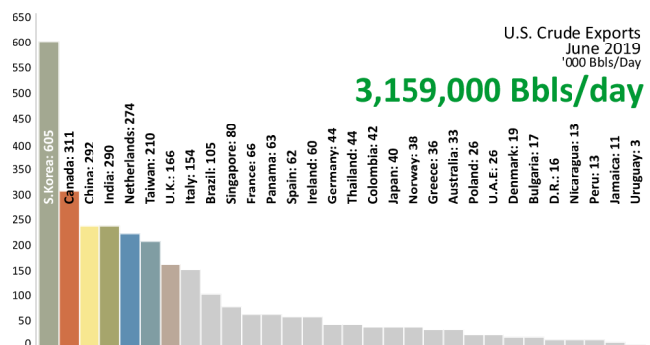
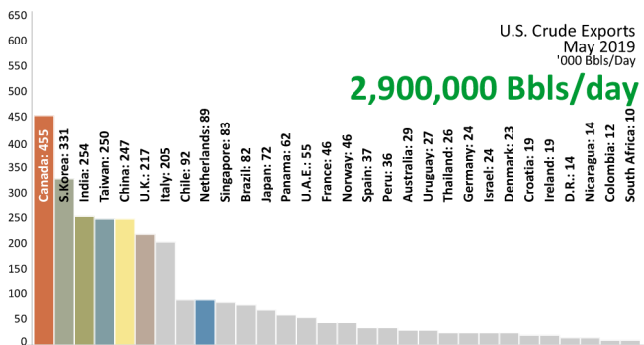
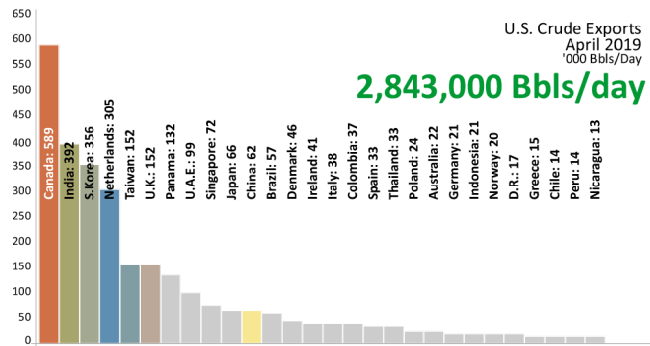
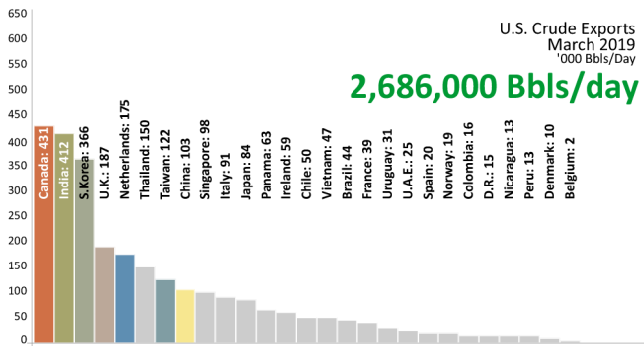
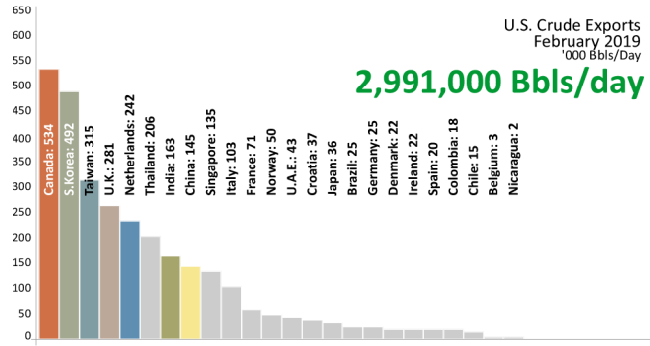
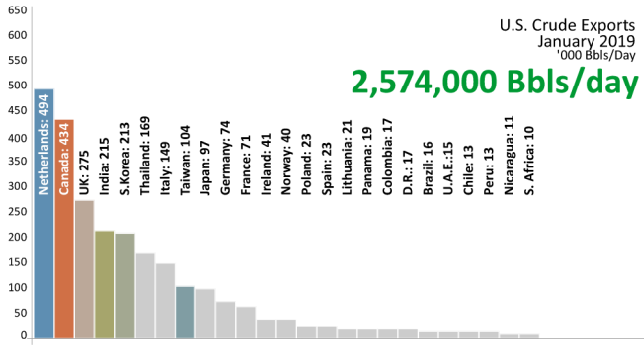


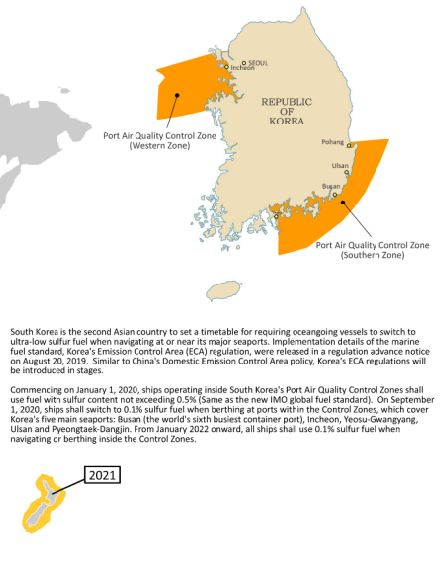
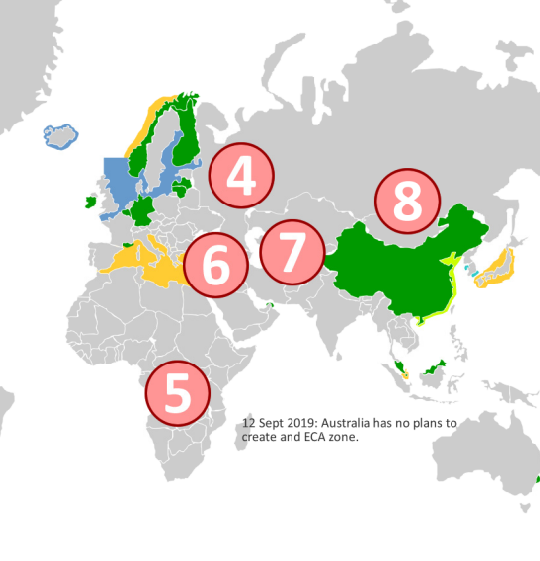
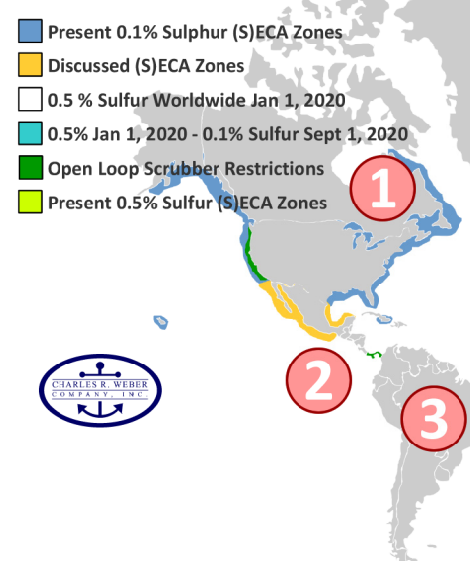
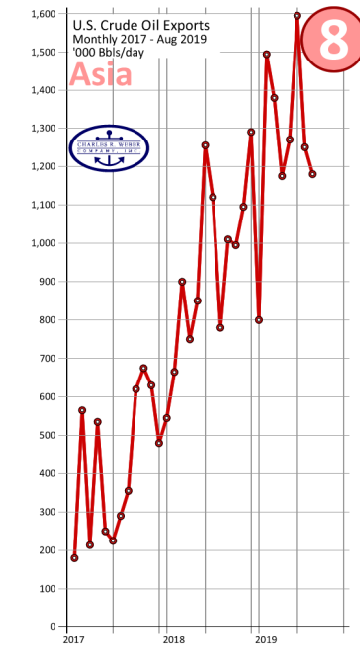
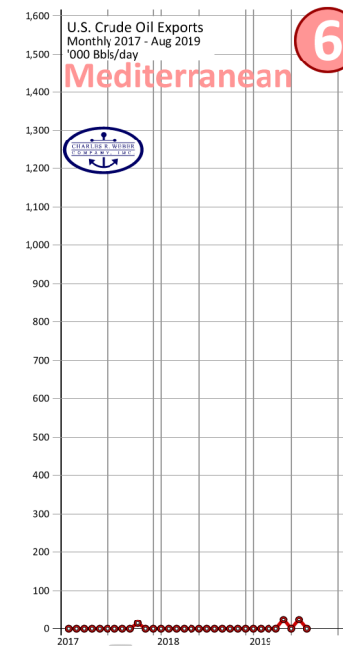
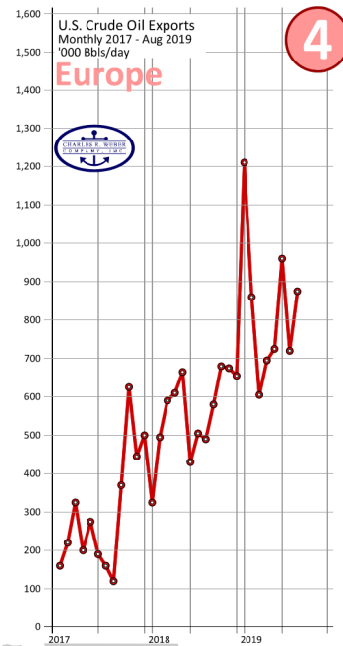
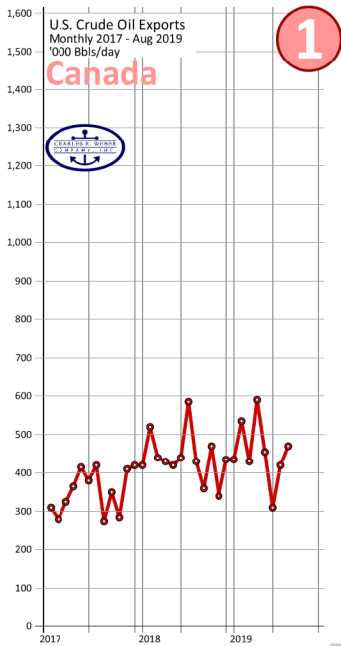
August 2019
Top 5 U.S. Crude Export Destinations



September 2019
Top 5 U.S. Crude Export Destinations







12 Sept 2019: Australia has no plans to create an ECA zone.

