



The Tugboat, Towboat and Barge Industry in California

Critical to the California Economy

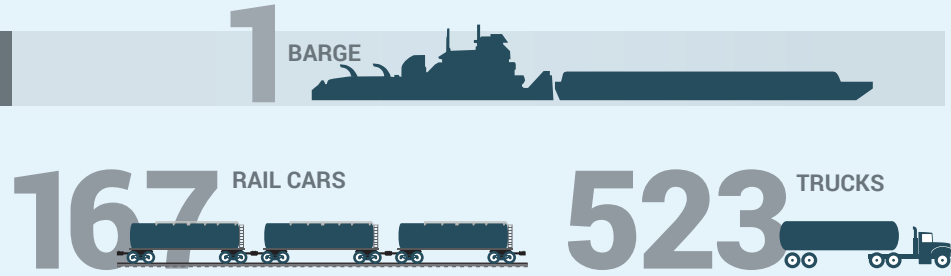
California is a maritime state. Its waterways and ports contribute **\$67 billion to the state's economy**, \$35 billion in direct business revenue, \$25 billion in personal income and \$7 billion in local purchases.

- Marine freight transportation and shipyard companies in California directly employ more than **9,600 people**. Waterways and ports support **348,965 jobs** throughout the state.
- **More than 2 million jobs** are linked to California's ports nationwide.
- California ports **handle \$292 billion in essential manufactured products**, including electronics, machinery and consumer goods.
- The Los Angeles/Long Beach port complex is the **largest container port complex in the country** and California is the **third busiest state** for total waterborne commerce by tonnage.

A Leader in Waterborne Commerce

UNITS TO CARRY: 100,000 Barrels of Liquid Cargo

One barge can carry the same amount as:



Over 10,500 **container ships, tankers, and bulk cargo vessels were guided into a California port by a tugboat in 2011**. Tugboats are essential to safely maneuvering large vessels and are critical to maritime commerce.

The Economic Engine of California

- California ports are an **economic gateway to emerging markets across the Pacific and in Latin America**. The state's three major container ports handle approximately 50 percent of total container cargo volume in the United States.
- **\$48 billion of petroleum products and crude oil** travel on California waterways every year.



California Waterways System



California is home to the nation's busiest port complex:

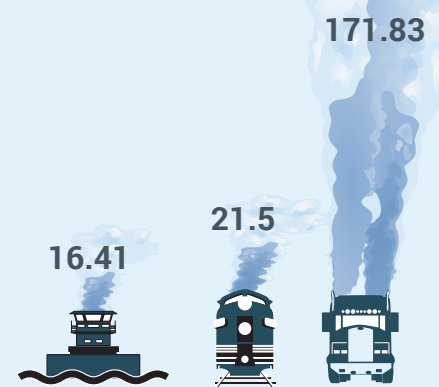
Los Angeles/ Long Beach.

Other major ports include Oakland, Richmond and San Diego.

Safety and Environmental Leaders

- **AWO members operating in California take safety and environmental stewardship seriously.** The Responsible Carrier Program, AWO's code of safety and environmental stewardship, is a mandatory condition of membership. The RCP was cited in a U.S. Coast Guard report to Congress as a major factor in the dramatic reduction of oil spills since the 1990s.
- Maritime freight transportation is essential to clean air in California—**35 million tons of domestic freight move every year on the state's waterways, taking the equivalent of 1.4 million fully loaded trucks off the state's roads.**
- A tugboat and barge can move **one ton of freight 616 miles on one gallon of fuel**—making water transportation the most fuel efficient mode.
- A **\$30 million federal TIGER grant** is helping the California ports of Oakland, Stockton and West Sacramento develop a new 'Marine Highway' barge shipping service that **will take 180,000 truck trips off area interstates and save 7 million gallons of fuel annually.**
- **Barge transportation has the best safety record in the transportation industry,** with a fatality rate 18 times lower than rail and 132 times lower than highway transportation.
- **The world's first hybrid tugboat** was deployed in the Ports of Los Angeles and Long Beach in 2009—guiding essential ships into port while significantly reducing fuel emissions.

Tons of CO2 Per Million Ton-Miles



American Jobs, American Investment

U.S. tugboat, towboat and barge operators comprise the largest segment of the domestic maritime industry. This 40,000 vessel fleet moves over one billion tons of cargo between U.S. ports each year with American-built, American-owned and American-crewed vessels. Domestic maritime activity in turn supports almost 500,000 U.S. jobs, with an annual economic impact of nearly \$100 billion, according to a recent study published by the Transportation Institute. The domestic maritime industry also accounts for approximately \$29 billion in wages and \$10 billion in tax revenues. The Jones Act serves as the statutory foundation for this substantial economic activity as well as the multi-billion dollar investments by American companies to meet the nation's transportation needs.



ABOUT AWO The American Waterways Operators is the national advocate for the U.S. tugboat, towboat and barge industry, which serves the nation as the safest, most environmentally friendly and economical mode of freight transportation. Industry vessels move more than 800 million tons of America's commerce each year on the U.S. inland and intracoastal waterways, the Atlantic, Pacific and Gulf Coasts and the Great Lakes. For more information about the importance of waterway transportation, please contact AWO at (703) 841-9300 or visit AWO's website at www.americanwaterways.com.