ECONOMIC IMPACT OF

WEST VIRGINIA'S INLAND WATERWAYS



IN 2021, WEST VIRGINIA'S PORTS, INLAND WATERWAYS, AND INLAND WATERWAYS-DEPENDENT INDUSTRIES SUPPORTED

Nearly 127,000 jobs

\$8.0 billion in personal income

\$17.1 billion in Gross State Product

\$37.0 billion in total output

... Giving rise to

\$1.8

in state & local tax revenue West Virginia has nearly

of navigable inland waterways, ranking it

th in the

INLAND WATERWAYS SUPPORT WEST VIRGINIA'S KEY INDUSTRIES

Industry Sub-Category	Percent of Goods Shipped by Water (Tons)	Direct West Virginia Jobs
Mining (except oil & gas)	42.5% of outbound	10,710
Construction	35.2% of inbound	30,520
Utilities	37.3% of inbound	5,010
Petroleum & Coal Products Mfg	C 14.1% of inbound	950

TOP INLAND WATERWAYS **COMMODITIES BY WEIGHT**

(comprising 70% of total tonnage)





million



TOP INLAND WATERWAYS **COMMODITIES BY VALUE** (comprising 81% of total value)







WEST VIRGINIA'S INLAND WATERWAY ASSETS AT A GLANCE



public

In 2021. tons of freiaht valued at

S3.4 BILLION moved on West Virginia's inland waterways, which

1.1 MILLION TRUCKS

is equivalent to over

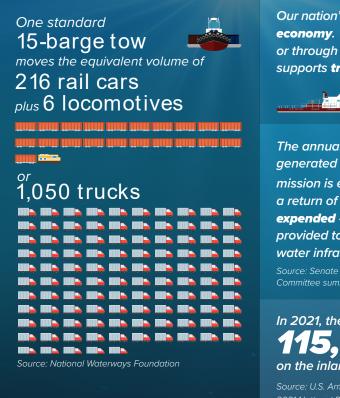
Avoided trucks translates into reduced congestion, emissions, and crashes, and contributes to the state of good repair of highway infrastructure

BENEFITS OF INLAND WATERWAYS TRANSPORTATION

America's inland waterways system is vital to our nation's competitiveness and economic growth. The inland waterways efficiently, sustainably, cost-effectively and safely transport critical commodities like agricultural goods, energy products, building materials and industrial chemicals to destinations within the U.S. and to deep water ports for export. In 2021, nearly 500 million tons of goods valued at more than \$158 billion moved on the U.S. inland waterways system. The U.S. Department of Transportation Freight Analysis Framework freight forecasts suggest total water tonnage will increase at an annual growth of 0.7% per year through 2040. Barge transportation is the safest, most environmentally friendly, economical, and fuel-efficient way to move our nation's goods for use domestically and for export. On a single gallon of fuel, one barge can move freight more than four times farther than trucks, releasing 10 times fewer emissions.

Called "the backbone of the transportation logistics system," the inland waterways are a key part of the United States' transportation supply chain. The system includes a vast network of 12,000 miles of connecting waterways and 219 locks. However, the majority of locks and dams on the Mississippi River system were constructed during the 1930s and are operating well beyond their 50-year design life. Modernizing the nation's inland waterways system will support and create American jobs, increase U.S. exports, and inject billions of dollars into the U.S. economy to power our growth for the next 50 years.

Sources: U.S. Department of Agriculture Inland Waterways Study (2019); U.S. Army Corps of Engineers Waterborne Commerce Statistics; Federal Highway Administration Freight Analysis Framework; U.S. Department of Labor Bureau of Labor Statistics Occupational Employment Statistics; IMPLAN



Our nation's ports and waterways remain the crucial backbone of our economy. Approximately **2.3B tons of cargo** are shipped to, from or through **41 states each year.** The U.S. marine transportation industry supports **trillions of dollars in commerce** and **millions of jobs**.

Source: U.S. Army Corps of Engineers Value to the Nation Civil Works, 2021.

The annual net economic benefit generated by the Corps' Civil Works mission is estimated to be \$89B - a return of about \$12 for every dollar expended – with the total amount provided to improve the nation's water infrastructure at \$10.24B.

Source: Senate Environment and Public Works Committee summaries, 2023

In 2021, there were
115,580 recreational lockages
on the inland waterways system.

Source: U.S. Army Corps of Engineers Recreation 2021 National Report

Barges have the smallest carbon footprint among surface transportation modes





832% more

than barges

140.7

Tons of CO2 per Million Ton-Miles

Compared to barges, moving an identical amount of cargo by rail generates 43% more carbon dioxide emissions, and trucks generate over 800% more emissions.

Source: Texas Transportation Institute

Marine transportation is critical to agricultural exports, forecast at \$175.5B.

Agriculture will provide a \$10.5B trade surplus to the American economy, with imports forecast at \$165 billion. Forestry and fishery products, and critical farm inputs such as fertilizer, feed, and fuel move on the waterway system as well.

Agricultural exports are responsible for **25.5%** of **U.S. farm income**, also driving rural economic activity and supporting more than **1M American jobs** on and off the farm.

Source: A Reliable Waterway System Is Important to Agriculture, 2022