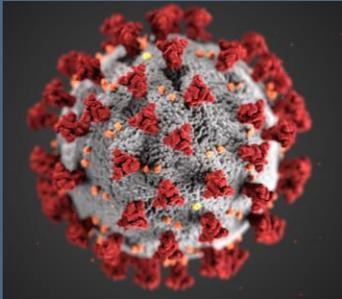


COVID-19 Supply Chain Initiative



**"YOU BET I'M GOING
BACK TO SEA!"**

Register at your nearest U.S. Employment Service Office

U. S. MERCHANT MARINE

War Shipping Administration



MAN THE VICTORY FLEET

Impact on the MTS Workforce



U.S. Marine Transportation Workforce



Vessel Operators



Port Operators



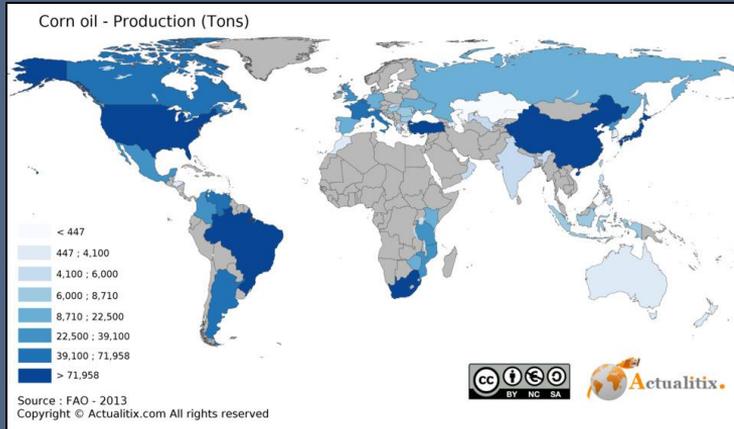


Truck and Rail Operators
Support Services and Maintenance
Lock and Dam Operators
Intra-modal Connections



MTS Workforce Issues

- The U.S. MTS is a critical component of the global food supply chain.
- Long supply chains and just in time inventory/production systems have reduced supply chain resilience.



Global food security and stability is dependent on marine transportation.

MTS Workforce Issues

- Vessel operators in the U.S. MTS have added COVID risk factors such as age and other health conditions.
- Vessels are closed environments and prone to COVID transmission.
- Many MTS jobs require high skills and years of experience (surge capacity?)
- Jones Act limits ability to employ non-U.S. personnel and vessels in coastwise trade.
- Ports are chokepoints, so quarantining can lead to congestion and cascading delays.



MTS Workforce Issues

- COVID-19 may accelerate **automation**, which is lagging in the marine industry compared to other sectors.
- **Cyber security** and remote working.
- **Emergency response personnel**. Collisions, oil spills, and other maritime disasters require many personnel coming from different areas, and working closely in conditions in which hygiene is challenging.
- **Climate Change**
- **Human migration**/trafficking

