INLAND WATERWAYS USERS BOARD

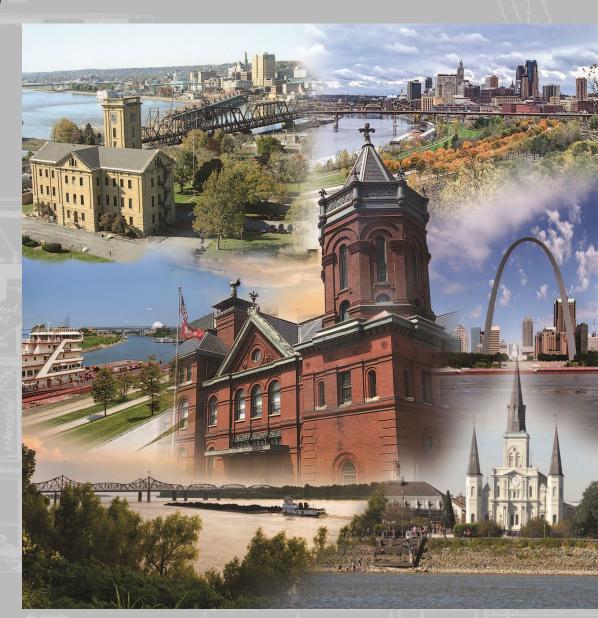
Meeting No. 101

Patrick Chambers
Chief, Operations & Regulatory
Mississippi Valley Division

October 19, 2023



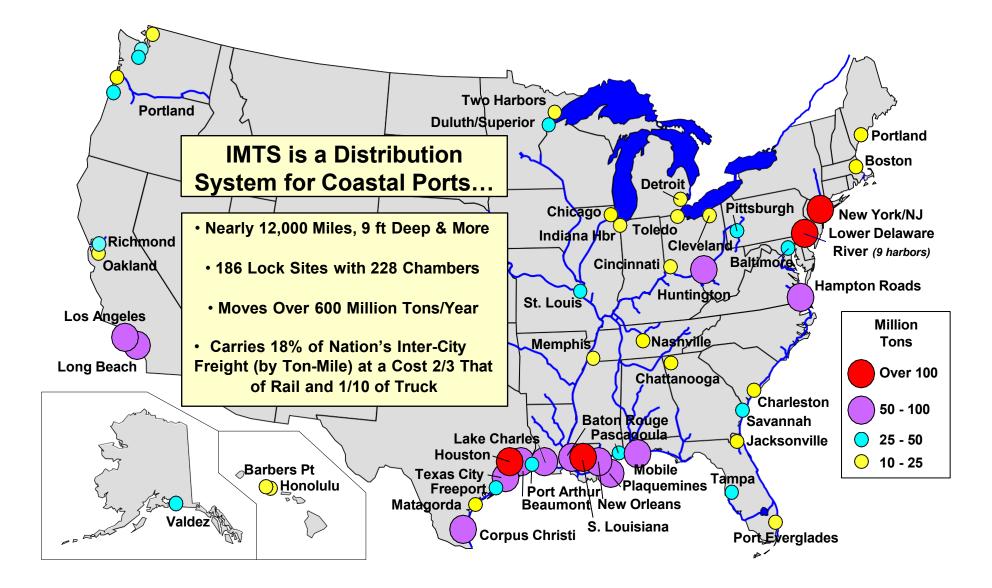




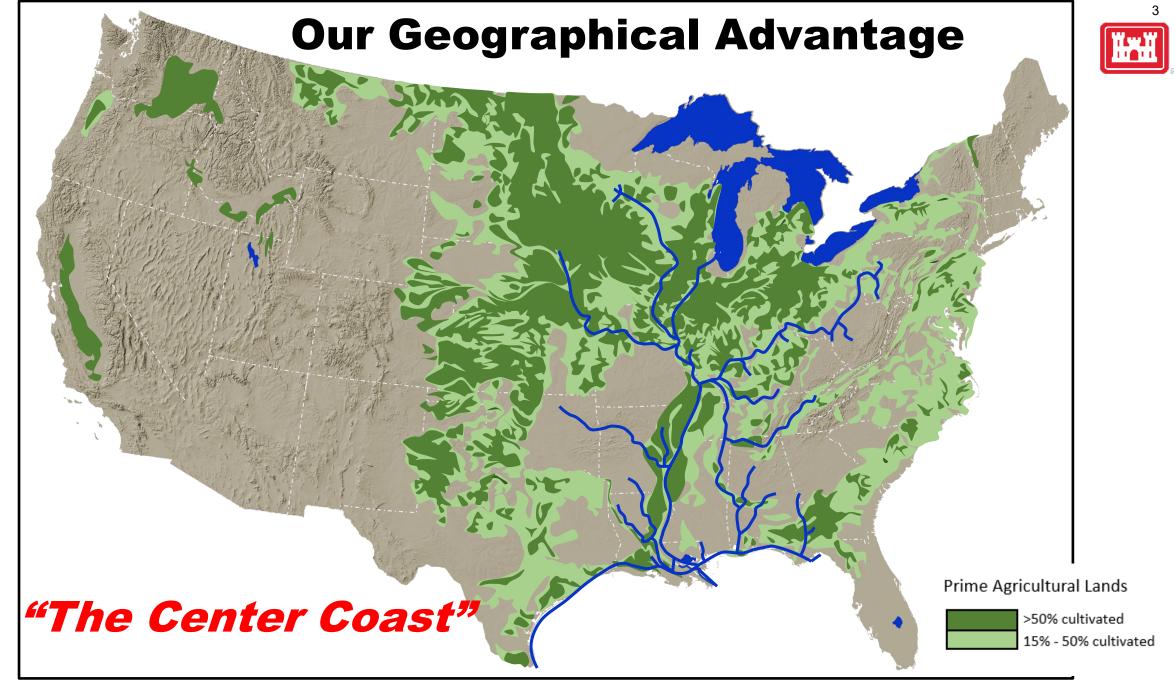


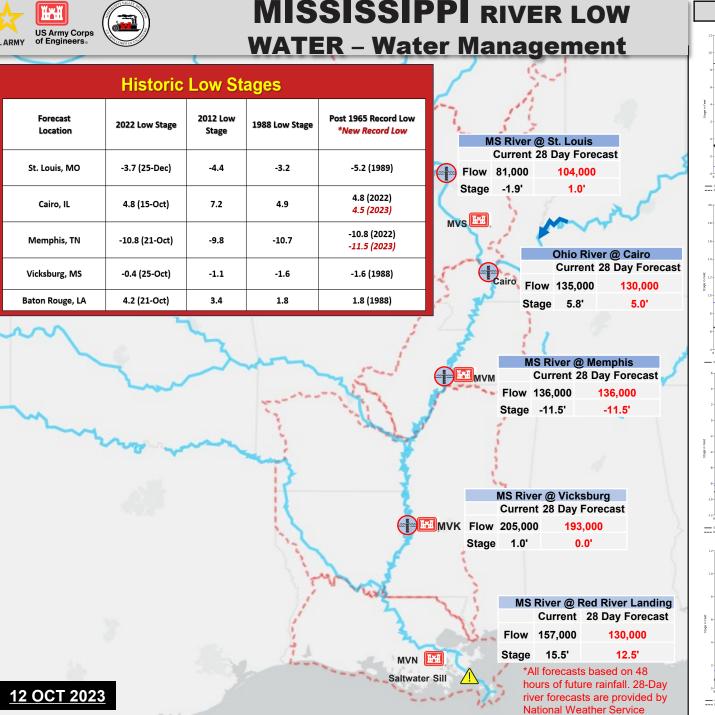
A Maritime Nation

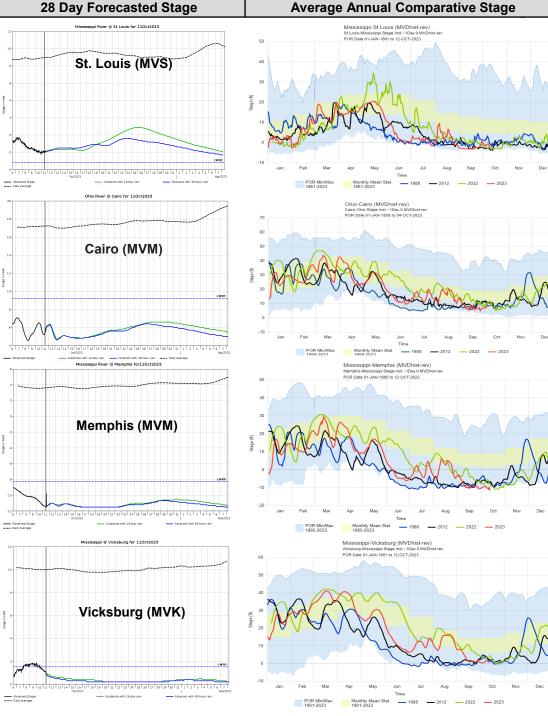








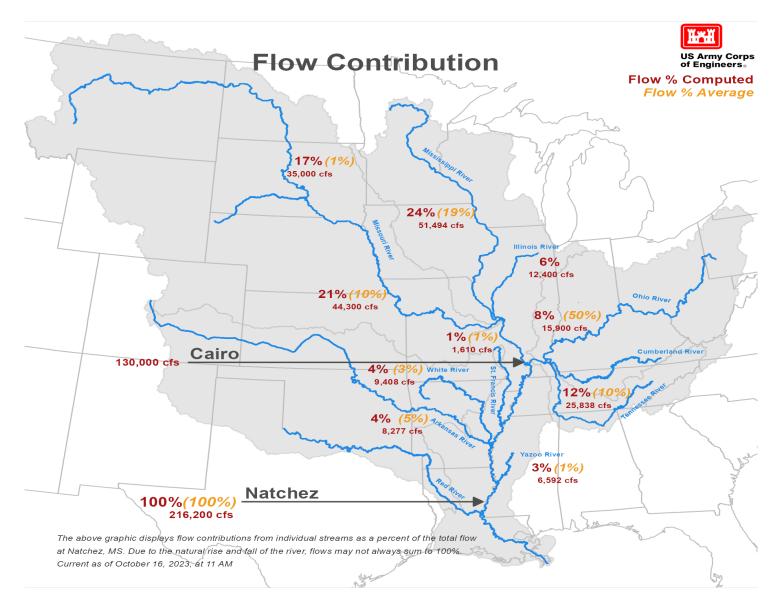






16 OCTOBER 2023 FLOWS







2023 LOW WATER TIMELINE



- Low water event started June 2023
- Weekly MVD Regional Shallow Draft Team meeting to discuss dredging priorities
- Bi-Weekly conference calls with Navigation Industry
- MVD, LRD, NWD, NWS, & TVA coordinate releases at Kentucky/Barkley, Olmsted, an
- Dustpan dredges released from the deep draft early and were able to work the low was JADWIN released from deep draft on June 13
 HURLEY released from deep draft on July 5

 - POTTER started working July 15
 WALLACE MCGEORGE released from deep draft on September 14
- Coordination with the National Economic Council began
- Saltwater sill was built at LMR 64
 - Completed on 29 July
 - Raising of the sill started on 25 September Raising completed 12 October
- Record low stage at Memphis, TN on 11 October (-11.5 ft)
- 28 Nov → Initial impacts of Missouri River reductions at St. Louis, MO
- 14 Dec → Full impacts of Missouri River reductions at St. Louis, MO
- 25 Dec → Lowest stage at St. Louis, MO (-3.9 ft)





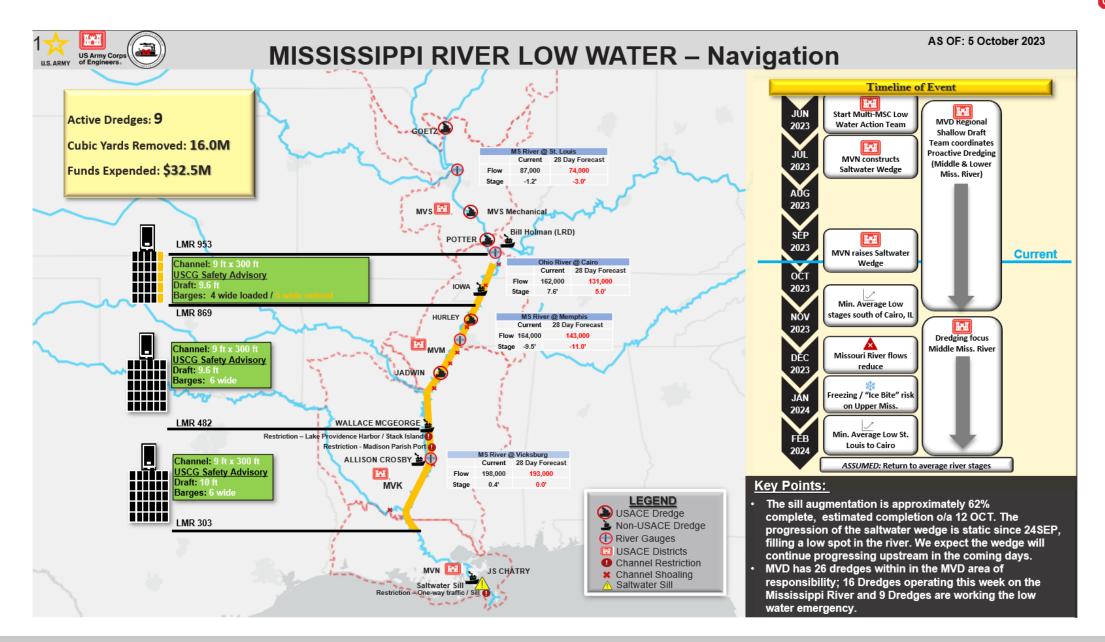
LIMITATIONS & LESSONS FROM 2022



- All dustpan dredges are older than 30 years and two are older than 90 years old
- Limitations
 - ❖ Potter Can't work in deep draft or high flows
 - Jadwin Underpowered for high current areas
 - Wallace McGeorge Only contract dustpan dredge
- Well funded harbor maintenance dredging minimized light loading/harbor closure
- Lessons Learned from 2022 Low Water
 - TVA, LRD, NWS, and MVD are coordinating reservoir operations much closer
 - More frequent forecasts
 - Hydropower operations are included in forecast
 - Ohio River system is operated more efficiently
 - USCG and USACE are working together on buoys
 - eATONs are updated daily in most circumstances
 - M/V Grugett and M/V Pathfinder augment physical buoy placement
- Channel Improvement Program kept the channel efficient during low flow!!



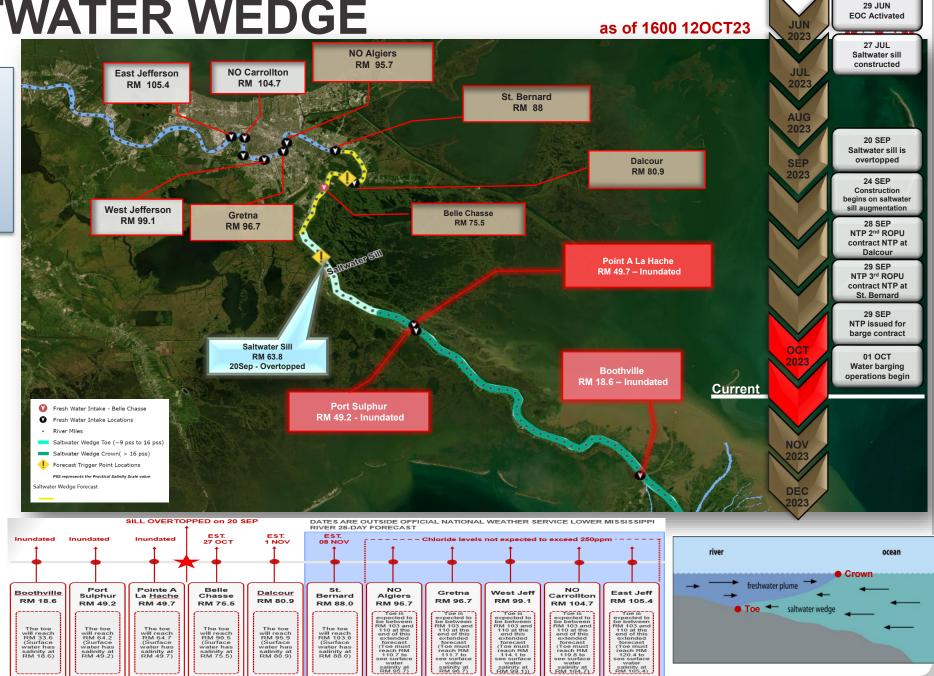




MVN SALTWATER WEDGE

Monitor and Track the Saltwater Wedge

- Location of toe: RM 63.9
- Location of crown: RM 48.9
- Current flow rate: 172K CFS 1 · Yesterday's flow rate: 157K CFS
- 21-Day flow forecast: 141K CFS
- · Increased flows push saltwater wedge downstream



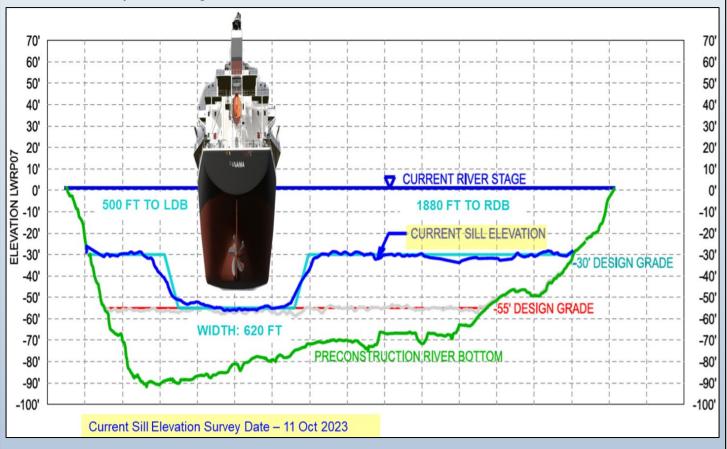


IMPACT TO NAVIGATION



Saltwater Sill Augmentation

- Current 100% complete
- Completion Date: 12 Oct
- ~1.9 M cubic yards dredged



UNITED STATES COAST GUARD SECTOR NEW ORLEANS

MARINE SAFETY INFORMATION BULLETIN

Volume XXIII Issue: 056

ime: 1200

ate Sentember 99 9093

<u>VTS Safety Measure - Saltwater Barrier Sill Construction - MM 63.8 AHP LMR - Update 2</u>

The Captain of the Port New Orleans is issuing Vessel Traffic Service (VTS) Safety Measures to protect persons and vessels from the potential safety hazards associated with the U.S. Army Corps of Engineers' raising of the emergency Saltwater Barrier Sill at Lower Mississippi River Mile Marker (MM) 63.8 Above Head of Passes (AHP). The new sill is being constructed to an elevation of minus 30' with a 620' wide, minus 52' cut along the Left Descending Bank (LDB) allowing for deep draft vessels to transit. The following channel restrictions will be in effect beginning on September 23 at 1200:





In Closing...



