





Mississippi Valley Division

Monitoring The Mississippi River using GPS Coordinated Video



U.S. Army Corps of Engineers



- The Corps' mission:
 - Water Resources Development
 - Environment
 - Infrastructure
 - Disasters
 - Warfighting





Mississippi River Commission



- Established June 1879
- Authority to operate on entire Mississippi River





- Seven Presidentially appointed members
- Advisors to:
 Secretary of the Army and
 Chief of Engineers

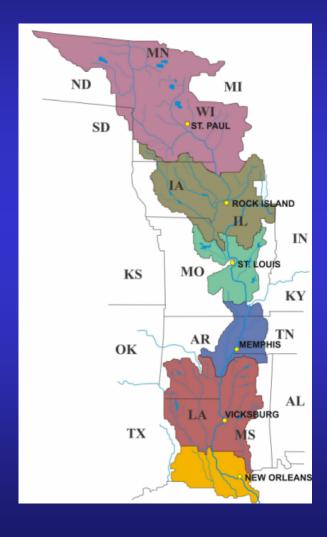


Mississippi Valley Division





- Six districts
- 5,000+ employees
- 370,000 square mile boundary, encompassing all or parts of 12 states
- 4,267 miles of commercial waterways
- 44 flood control lakes/reservoirs

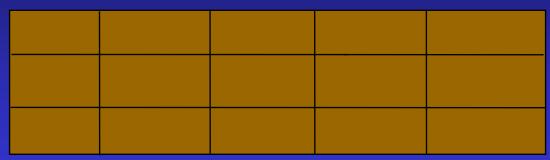




Why is the Mississippi River Important to the National Infrastructure



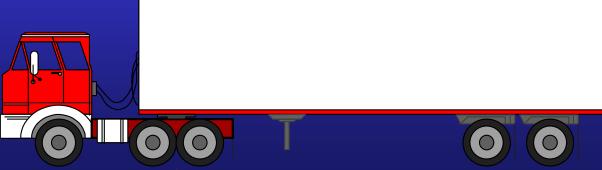
US Army Corps of Engineers



15 BARGE TOW



225 RAILCARS



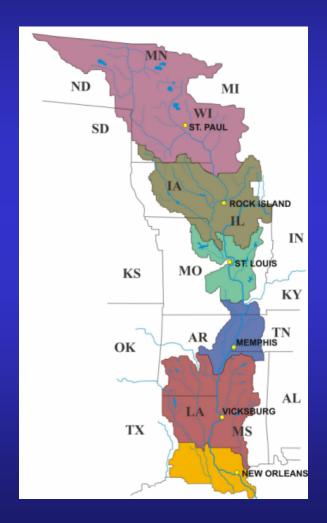
870 TRUCKS

One Team: Relevant, Ready, Responsive and Reliable



Flight Area





- Memphis & Vicksburg Districts
- Flew Along Both Banks
- Included Major Side Channels
- Connecting Streams To Over Bank Lakes





Three Track Digital Tape

- Visual Data
- Audio Data
- Positional Data (GPS Referenced)



Purposes of Video

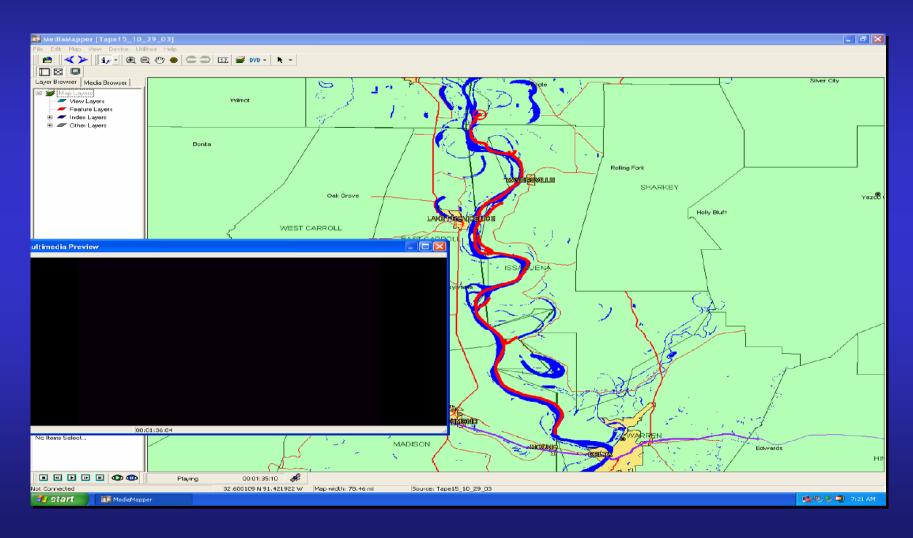


- Document Existing River Training Structures
- Record River Bank Conditions
- Assess Existing Environmental Habitat For Corps And Our Environmental Partners
- Build Database For Later Comparisons
- Prepare For Field Trips
- View Areas Of Customer Problems While In The Office



SCREEN SHOT







Bell Long Ranger







Bell Long Ranger







Bell Long Ranger





One Team: Relevant, Ready, Responsive and Reliable





Demo



Lessons Learned



- Large File Sizes
- DVD Compatibility
- Sun Angles
- Intense Interest



Web Based Access



- Phase One Internal Corps Use
- Phase Two External Use By Password For Corps Partners (F&WS, LMRCC, State Agencies)
- Phase Three Full Public Access





Problems For Web Access

- Expense
- Data Transfer Speeds
- Security Problems
- Homeland Security





QUESTIONS