

2021 CHANNEL MAINTENANCE DREDGING

DREDGE SEASON AAR
JULY 2021 – JAN 2022

Mississippi Managers Meeting
February 2022

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Dredging Project Manager

St. Louis District



US Army Corps
of Engineers®





AGENDA



Mission & Projects
Hydrograph
Surveys Efforts
Dredge Utilization / Quantities
Channel Availability Review
Outlook



CORPS NAVIGATION MISSION



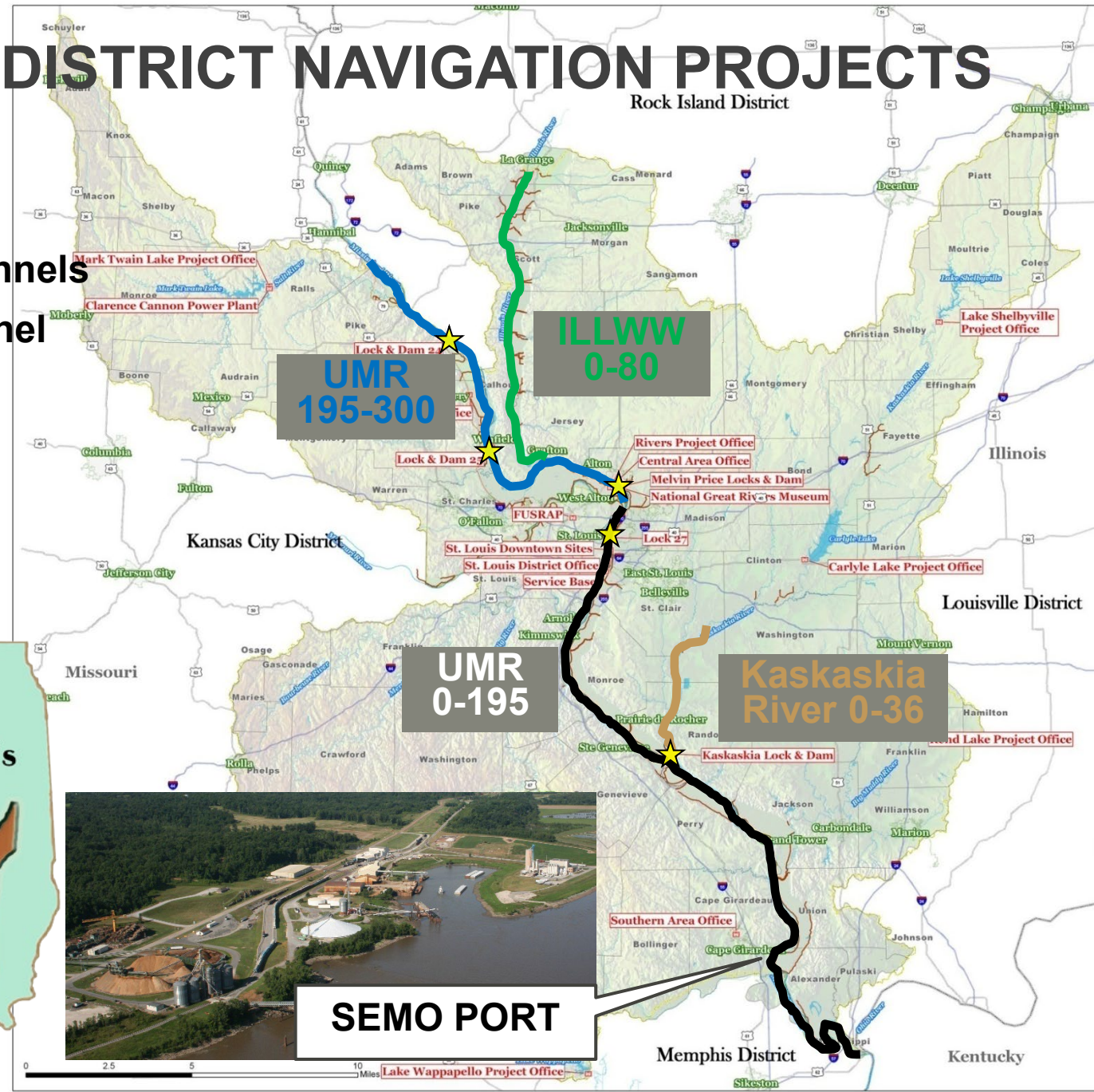
Provide safe, reliable, efficient, effective and environmentally sustainable waterborne transportation systems for movement of commerce, national security needs, and recreation.





ST LOUIS DISTRICT NAVIGATION PROJECTS

- 5 lock & dam sites★
- 5 authorized navigation channels
- 416 miles of navigable channel



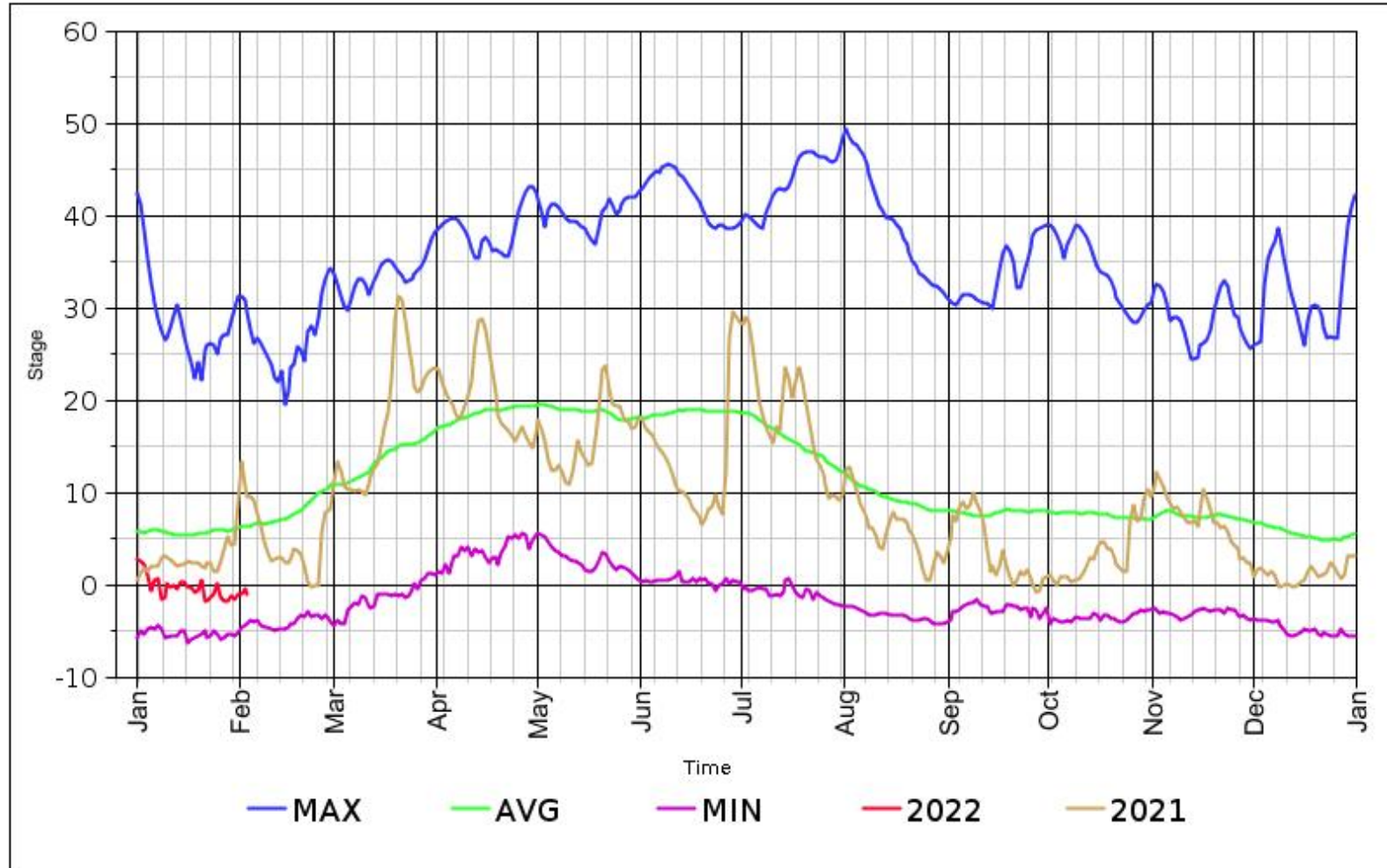
SEMO PORT



UMR Hydrograph at St Louis

Mississippi River at St. Louis - Stage (St Louis-Mississippi.Stage.Inst.~1Day.0.datman-rev)

POR Date 01-01-1861 to 02-03-2022

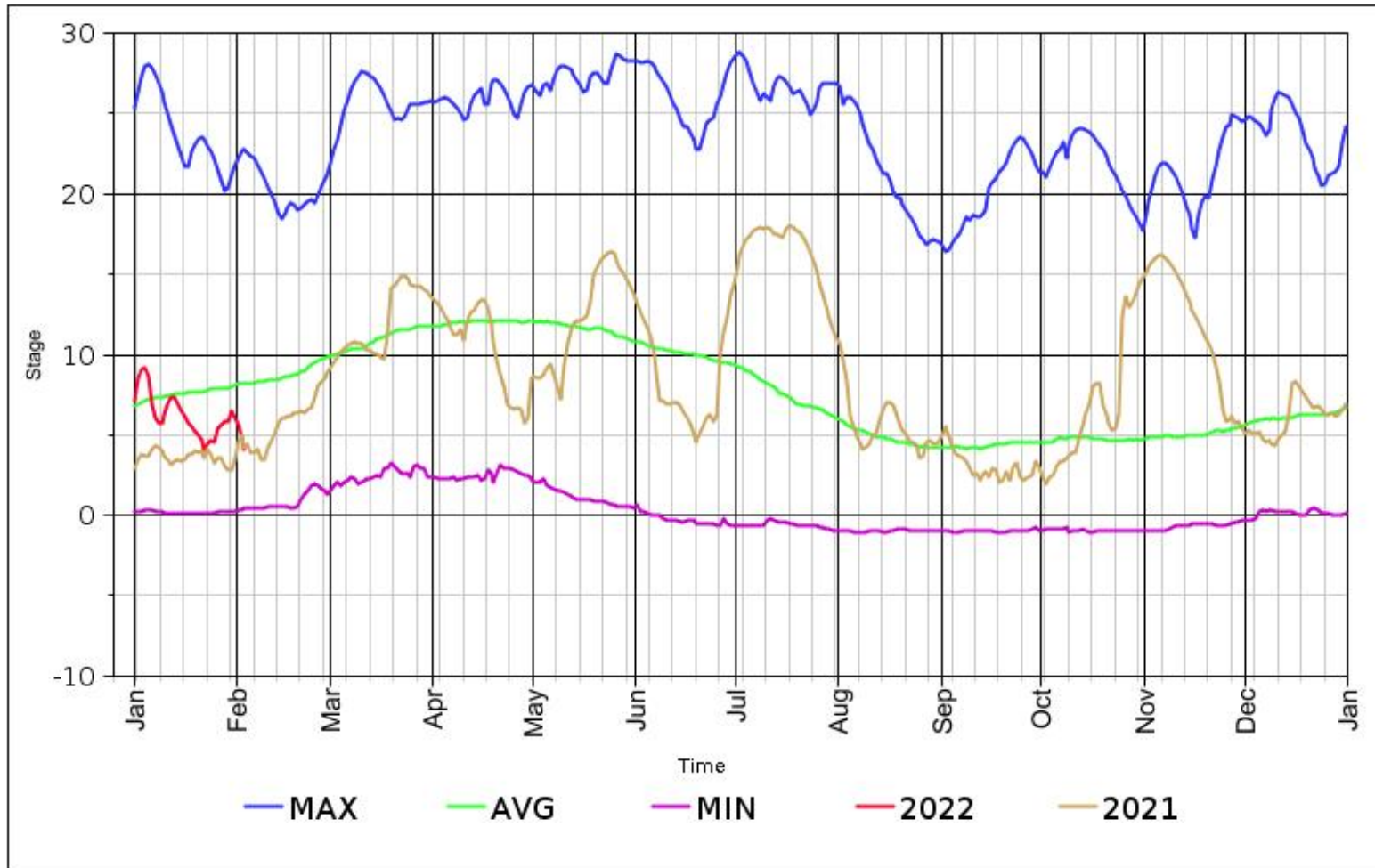




ILLWW Hydrograph at Meredosia

Illinois River at Meredosia - Stage (Meredosia-Illinois.Stage.Inst.~1Day.0.datman-rev)

POR Date 11-01-1878 to 02-03-2022



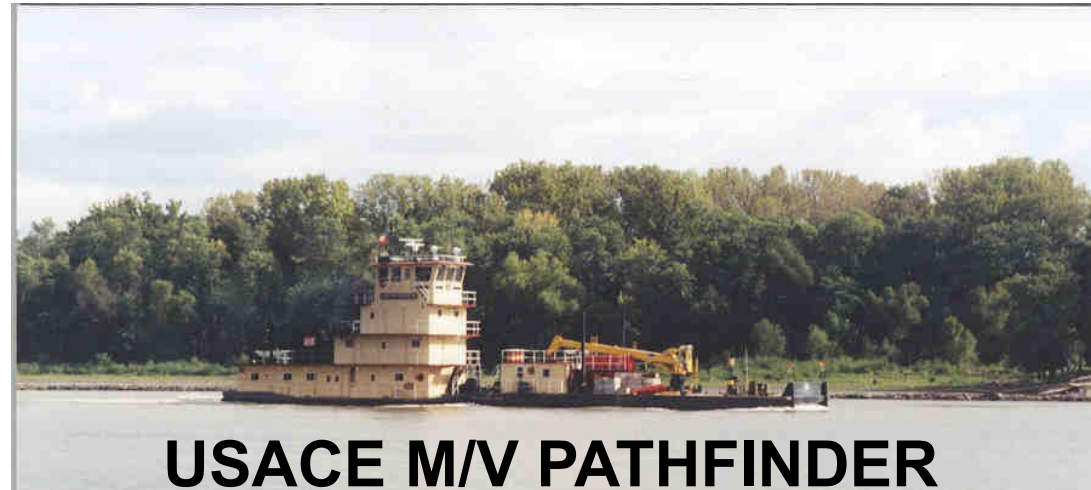


SURVEY EFFORTS 2021



1. Pathfinder Channel Patrol – 84 days (PY 88)

- a) ILW – 2 patrols / 7 days
- b) Upper – 6 patrols / 23 days
- c) Lower – 12 patrols / 54 days
- d) MVR - 1 patrol / .3 day



2. 3 Line Contract Channel Surveys

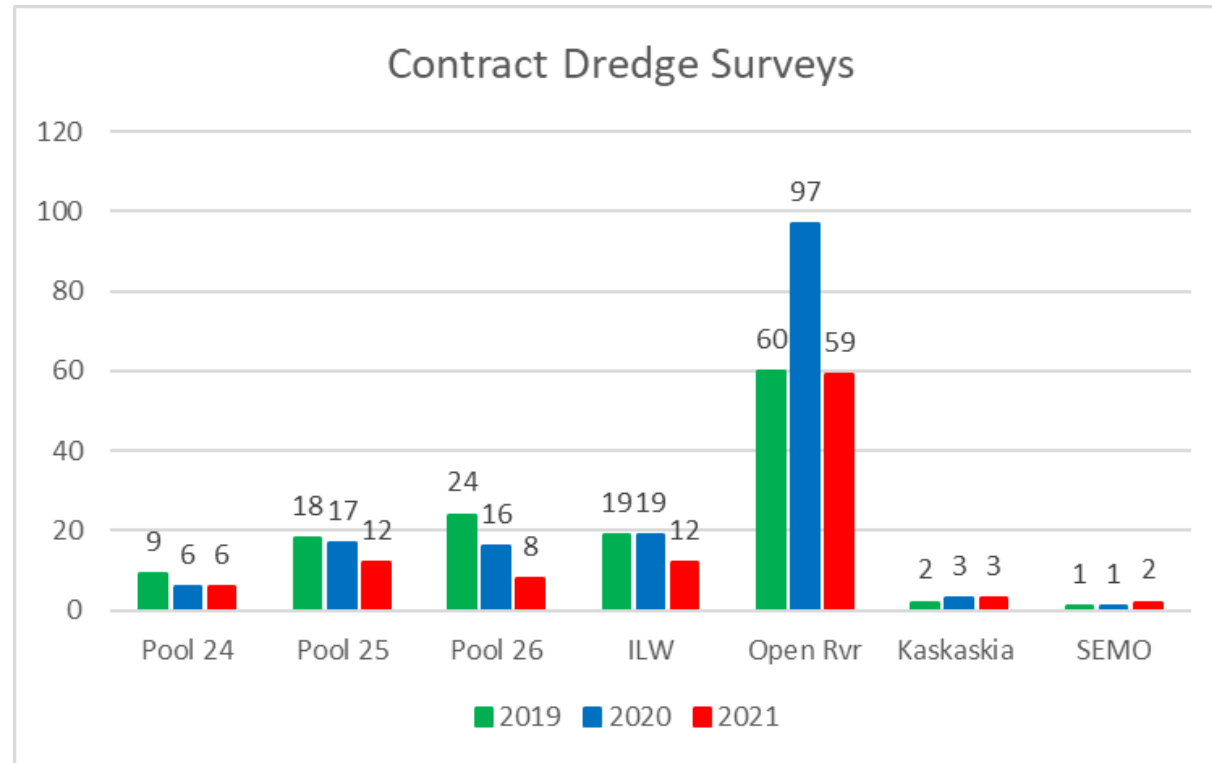
- a) ILW – 1
- b) Upper – 1
- c) Lower – 3



SURVEY EFFORTS 2021



Contract Surveys 102 (Bowen, Prairie, Seaworks)



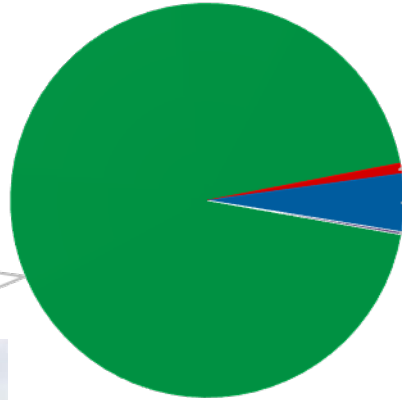
Additional surveys performed by survey USACE crews.



DREDGE UTILIZATION BY DREDGE VOLUME



Dredge Utilization



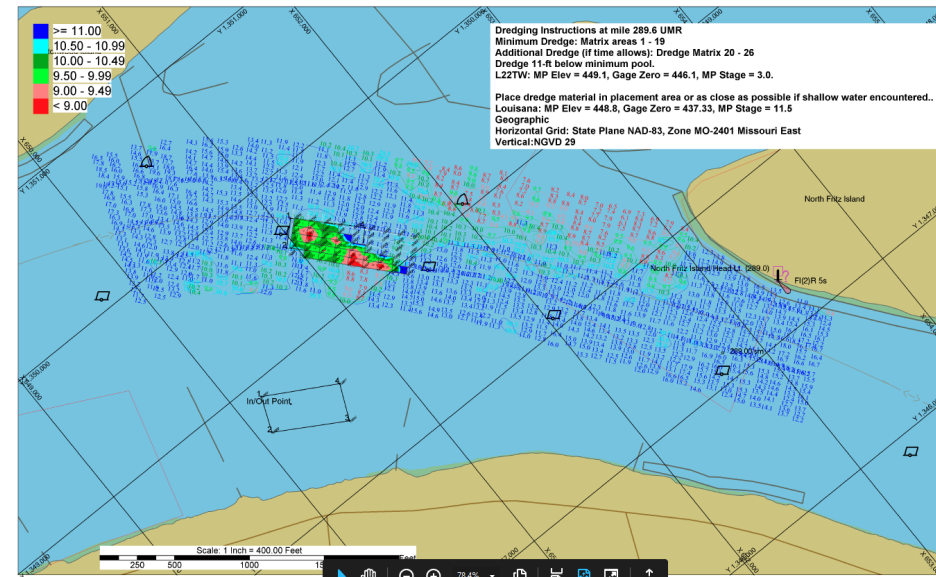
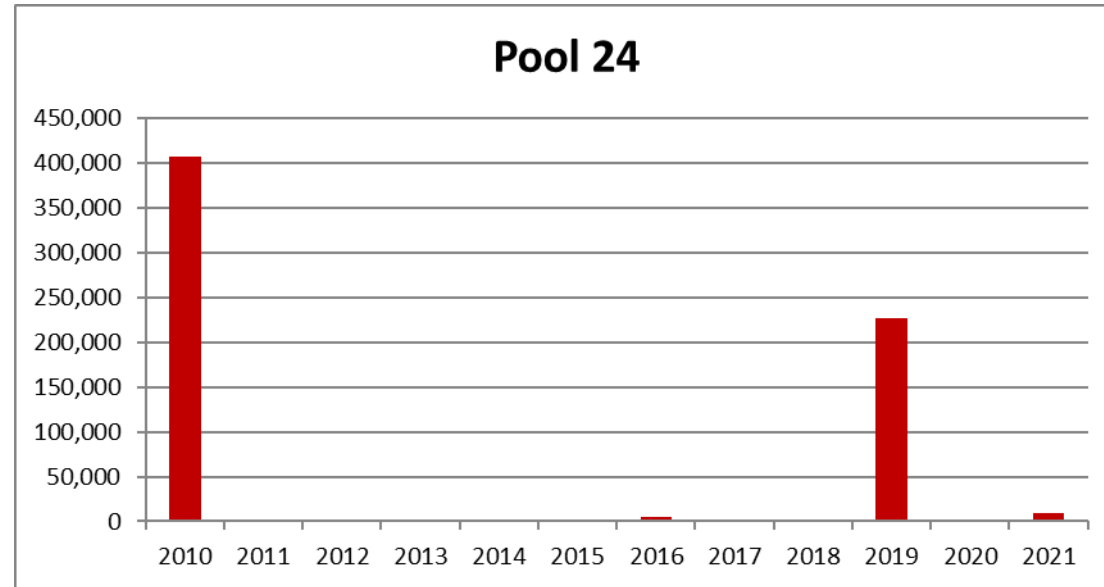
Potter 94%

Goetz 1%

Bill Holman 5%

Jobs: 1 CY: 8,987

Rock Island District
Strike Removal
1 – 4 Nov
Cottonwood, UMR 289

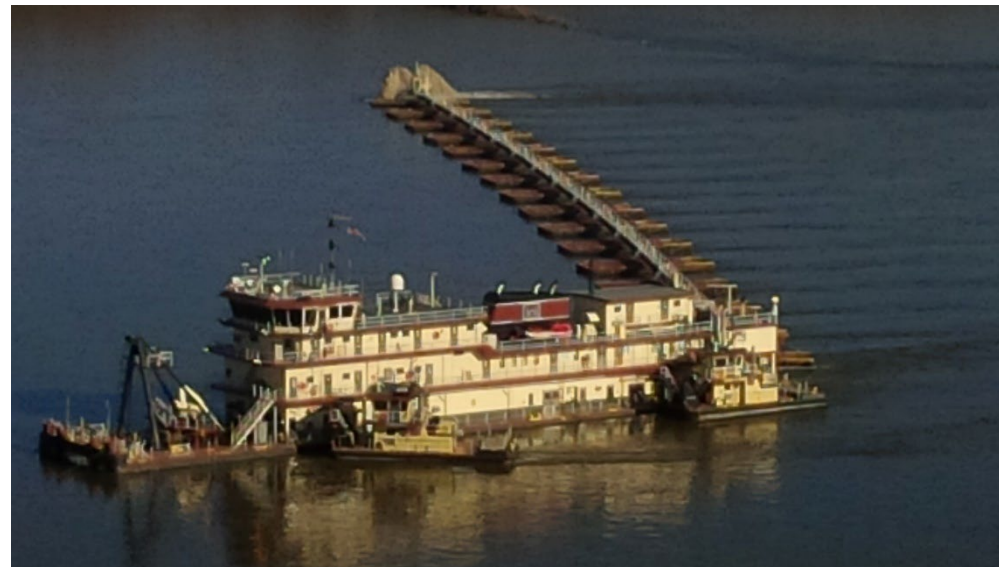
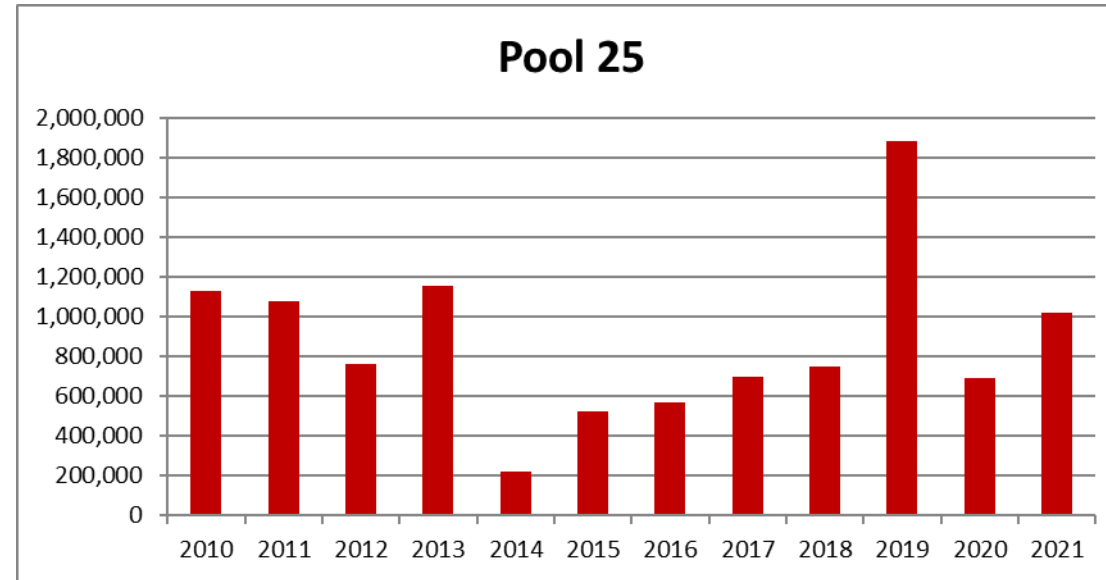




Jobs: 6 CY: 1,017.8k

Dredge Potter 25 Jul – 8 Aug, 5 – 11 Nov

- Coon Island, UMR 266
- Upper Coon Island, UMR 267.5
- Carroll Island Lower, UMR 269
- Carol Island Upper, UMR 269.9
- Eagle Island Upper, UMR 253
- Lock 25 Upper, UMR 242



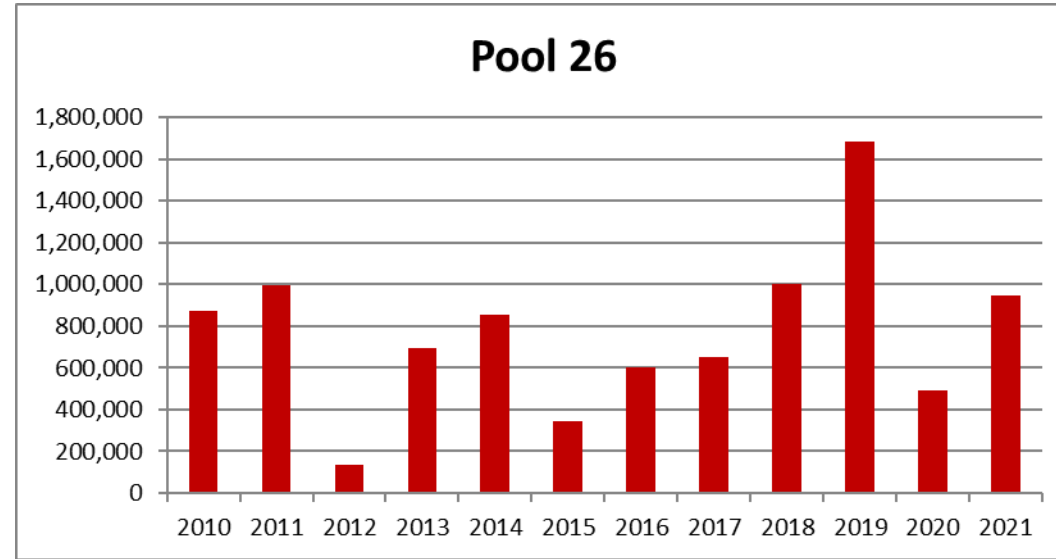


Jobs: 7 CY: 945.8k

Dredge Potter 9-25 Jul

- Squaw Island, UMR 221
- Royal Landing, UMR 222.6
- Caloun Landing Lower, UMR 223.7
- Calhoun Landing, UMR 224.5
- Bolters Bar, UMR 227
- Thomas Landing, UMR 229
- Martin Towhead, UMR 235

*No Dredging at Grafton,
& only one event at Squaw

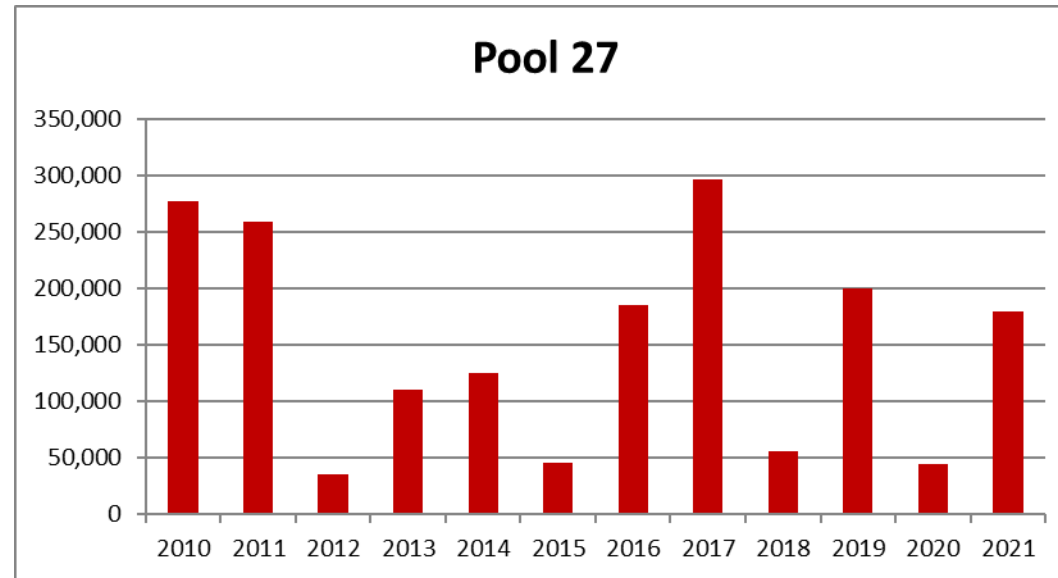




Jobs: 2 CY: 180 CY

Dredge Potter
30 Oct – 5 Nov
Mel Price Lower, UMR 200

Dredge Goetz
7-14 Oct
Upper COR Canal 194 UMR





Jobs: 6
CY: 391.8k CY

Dredge Potter

4 - 16 Sep

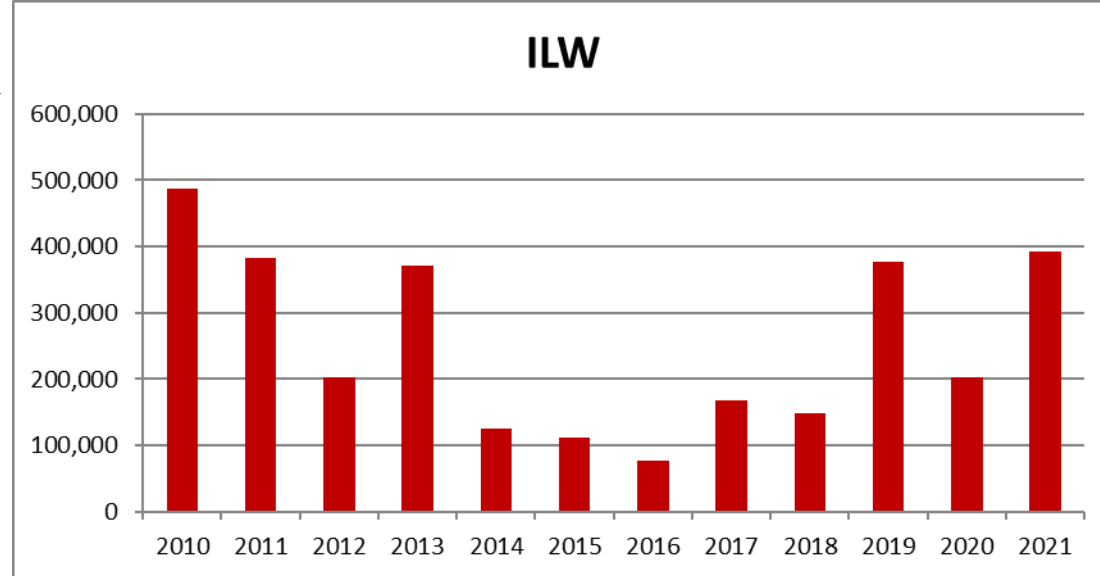
Valley City Lower, ILR 62

Valley City Upper, ILR 63

Moore's Towhead, ILR 76

Old La Grange Lock, ILR 77

Indian Creek, ILR 78



**Rock Island District
Mechanical Dredge**

30 Nov – 3 Dec

Valley City, ILR 63



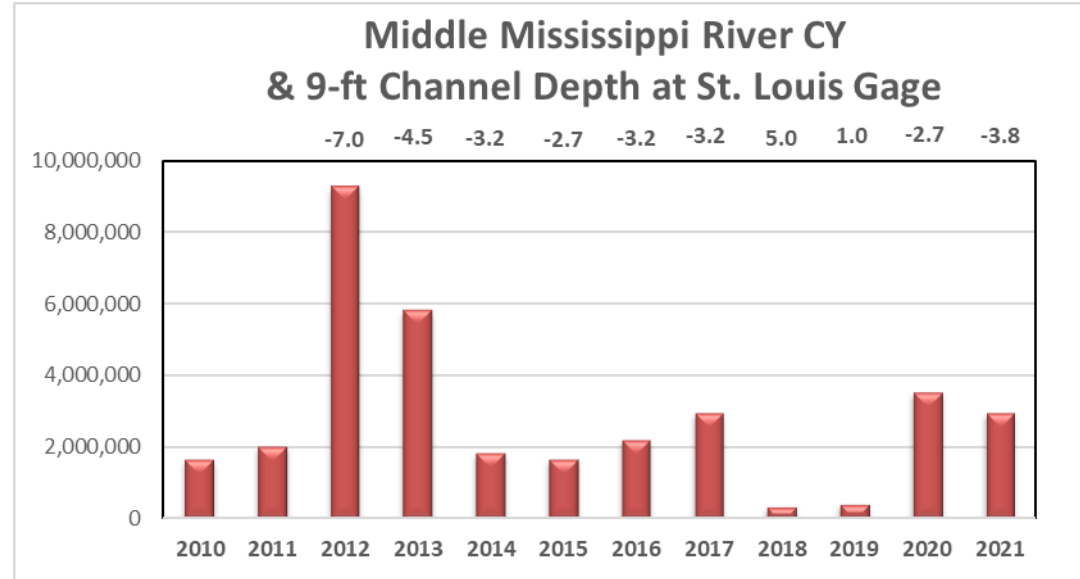


Jobs:17 CY: 2.9M CY

Dredge Potter

8 Aug – 2 Sep
16 Sep – 30 Oct
15 Dec – 6 Jan

- Notre Dame, UMR 171
- Riverway, UMR 173
- JB Lower, UMR 168
- Cliff Cave , UMR 166.5
- JB Upper, UMR 169
- Lower Canal, UMR 184 (flex pipe)
- Manskers , UMR 103 (flex pipe)
- Sliding Towhead, UMR 24
- Grand Tower, UMR 80
- Farmers , UMR 115
- JB Lower, UMR 168
- Notre Dame , UMR 172
- Riverways, UMR 173
- Stan Musial , UMR 181
- Merchants , UMR 183
- Grays Point , UMR 46
- Chester Bridge, UMR 111

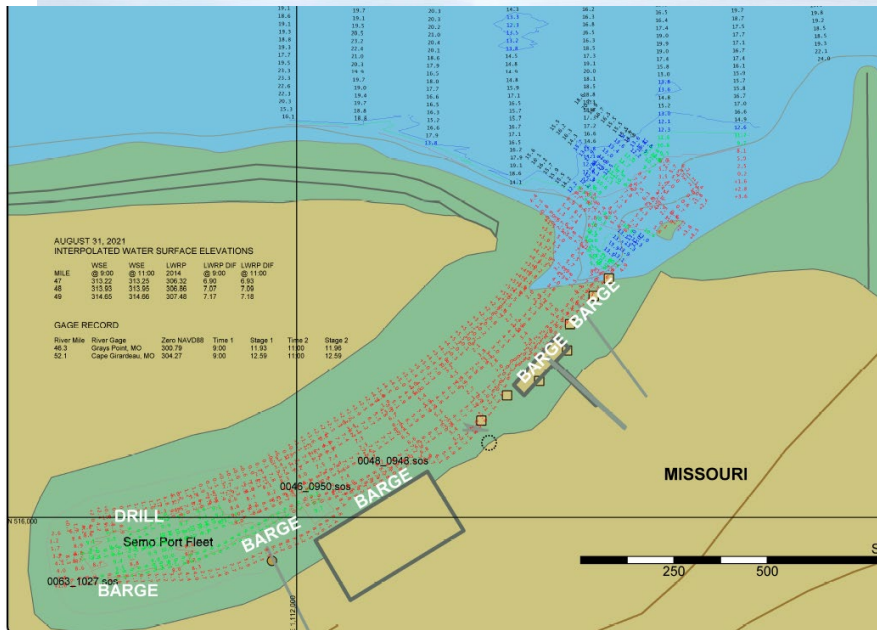
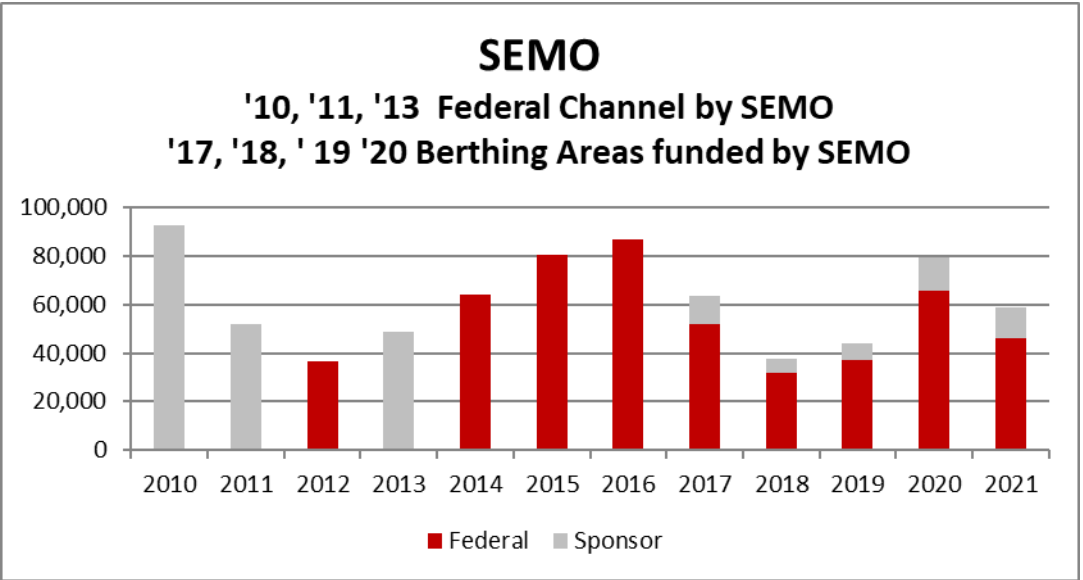




Jobs: 1
CY: 79.5k CY
 Nav Channel: 46.3k CY
 Berthing Area: 12.6k CY

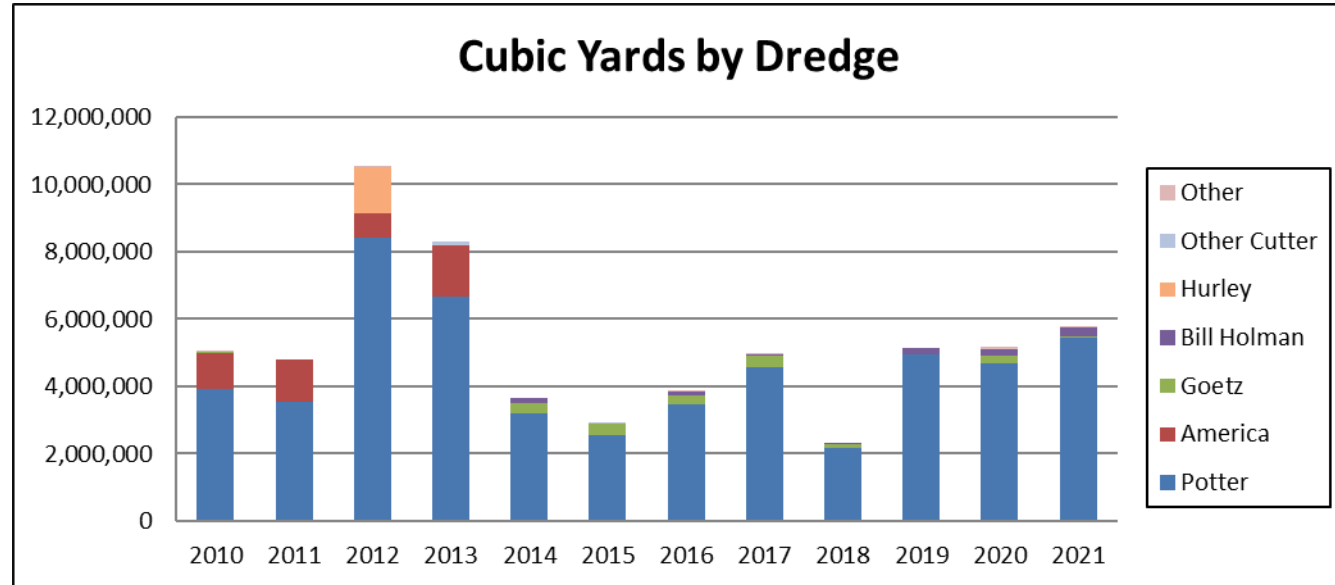
Dredge Bill Holman
 22 - 27 Sep

Controlling pre-dredge
 depth: 2-ft





CHANNEL MAINTENANCE



2021 Dredge Season totals thru **Jan 6 2021**

Dustpan: 5,428,873 CY

Cutterhead: 327,718 CY (Goetz 50.9k & Bill Holman 276.8k)

MVR Mech: 13,615 CY

Total: 5,770,205 CY



FLEX PIPE USE



Manskers 103: 217,616 CY
Lower Canal 184: 157,747 CY





CHANNEL AVAILABILITY



ILLWW

- Grounding at mile 63 (short duration)
 - Small shoal dredged with MVR Strike Removal

Upper River: None.

Lower River

- Channel dredged for -10 LWRP based on extended forecast
- Latest survey at mile 173 shows small area of -9.5 LWRP.
- No in channel groundings.
 - Grounding at 53.8 on buoy line, green buoy added.



Outlook

1. Dredge Potter
 1. No dry-dock scheduled
 2. Preparing for an early July start
2. Perform Channel Patrol, & 3 Line Surveys to monitor river conditions.
3. FY22 Funding



The End

