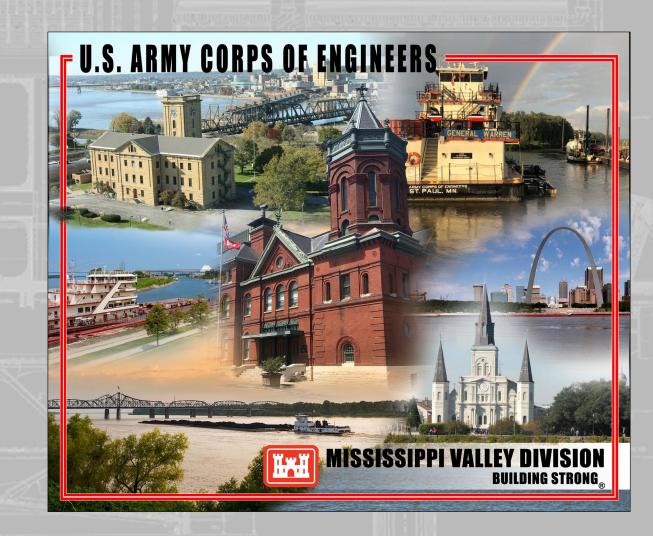
## MMM 2023 INDUSTRY TOPICS LOCKS AND DAMS

08 Feb 2023 Sam Mathiowetz Lockmaster, Lock and Dam 10





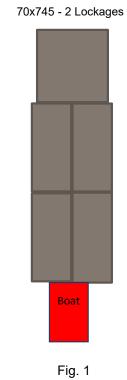


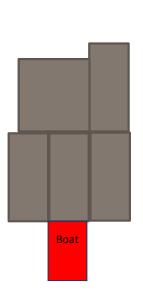


## **TOW CONFIGURAITONS**









105x545 – 1 Lockage

Same Barges- Different Configuration

BUILDING STRONG®

Fig. 2



#### 2022 ALLISIONS WITH LOCK STRUCTURES



7 Total, 7 Downbound

Spring: 4 (Apr-Jun)

Summer: 1 (Jul-Aug)

• Fall: 2 (Sep-Nov)

- Majority were timber damage.
- Most severe were LD4 & LD9
- Bridge/Handrailing & gate/concrete
- Historical:
  - 2021 16, 14 Down / 5 Upbound
  - 2020 20, 16 Down / 4 Upbound
  - 2019 16, 11 Down / 5 Upbound
  - 2018 4, 2 Down / 2 Upbound



Dam service bridge (LD4)



Top to Bottom: MG #2 walkway & quoin (LD9)

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# MITER GATES AND ANCHORAGES TENTATIVE SCHEDULE



Non-NAV Season	Anchorage Replacement	Navigation Season	Mite Gate Install
		2022	LDs 5A & 8
			MVD assets supporting IWW, no MVP gate
2022-2023	LDs 3 & 4	2023	install.
2023-2024	Dewater LD 2	2024	LD 10
2024-2025	LDs 7 & 9	2025	LDs 6 & 7
	Dewater box LD 9		
2025-2026	LD 5	2026	LD 9
		2027+	LDs 3, 4, & 5

\*MG exchange: 4, 12-hour closures needed per lock + 2 contingencies 12-hour closure dates.

Closures typically scheduled for Tue and Thu each week.





### **RESTRICTED AREAS & SIGNAGE**





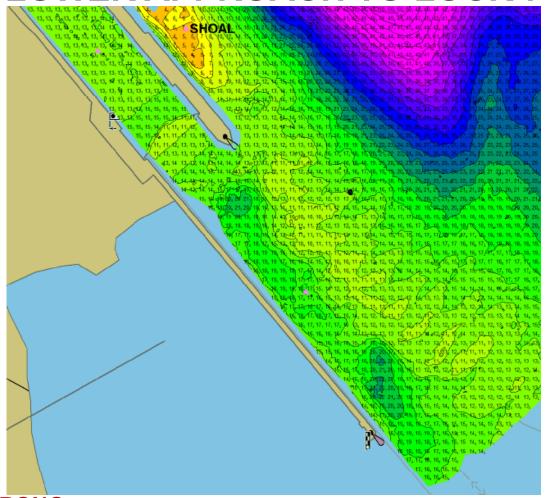






## LOWER APPROACH TO LOCK 7





WYV VALLEY TOTAL

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### **INVASIVE SPECIES DETERRENT AT LD 5**





\*Proposed deterrent alignment and equipment building isometric



# INCREASE IN COMM. PASSENGER TRAFFIC / PRIORITY OF LOCKAGE



VESSEL NAME	OWNER	TYPE	GUEST CAPACITY	# TRIPS	NOTES
AMERICA SPLENDOR	American Cruise Lines	Paddlewheeler	180	2	
AMERICAN MELODY	American Cruise Lines	Riverboat	180	9	
AMERICAN SYMPHONY	American Cruise Lines	Riverboat	180	2	
AMERICAN COUNTESS	American Queen Voyages	Paddlewheeler	245	3	
AMERICAN DUCHESS	American Queen Voyages	Paddlewheeler	166	3	
AMERICAN QUEEN	American Queen Voyages	Paddlewheeler	417	3	
VIKING MISSISSIPPI	Viking Cruise Lines	Riverboat	386	2	
LOCAL CRUISES:					
TWILIGHT	Riverboat Twilight	Riverboat		1	1-day cruise from Dubuque to Guttenberg
CELEBRATION BELLE	Celebration River Cruises	Paddlewheeler	750	1	1-day cruise from Dubuque to Prairie du Chien
LA CROSSE QUEEN	La Crosse Queen	Paddlewheeler	149	20	1-day cruise from La Crosse thru Lock 7
ANSON NORTHRUP	Padelford Riverboats	Paddlewheeler	250	9	1-day cruise, Minneapolis/St. Paul
JONATHAN PADELFORD	Padelford Riverboats	Paddlewheeler	140	1	1-day cruise, Minneapolis/St. Paul
MAGNOLIA BLOSSOM	Magnolia Blossom Cruises	Paddlewheeler	110	4	1-day cruise, Minneapolis/St. Paul
MINNEAPOLIS QUEEN	Paradise Charter Cruises	Paddlewheeler	125	9	1-day cruise, Minneapolis/St. Paul

\*2022 commercial passenger vessels activity in MVP





### **NAV NOTICE 1 / NTNIS**



- a. NAV Notice 1.
- b. Current NTNIs Questions?
- c. Lower GW check post at LD5' ENG is recommending we don't use it. Dialogue?







Left to Right: Check post at end of Lower Guide wall (LD5); Transverse crack in monolith bisecting last check post, including damage to adjacent wall armor (LD5).



# **QUESTIONS?**

