LOCK PERFORMANCE MONITORING SYSTEM (LPMS) UPDATE

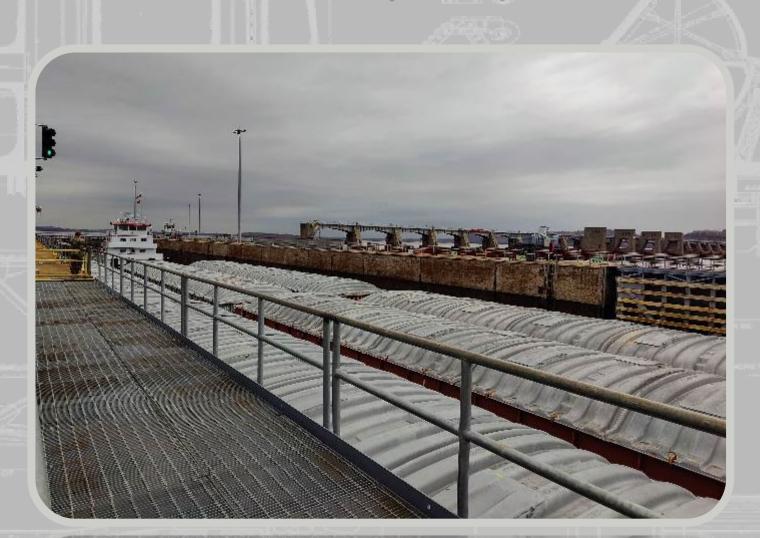
Inland Waterways Users Board Meeting No. 98 December 1, 2022

Steven Riley Program Manager

Civil Works and Data Analysis and Information Systems Branch











LPMS BACKGROUND

LPMS 1.0

LPMS 2.0

LPMS Public Sites



LPMS BACKGROUND



History:

- Rivers and Harbors Act, 1922
- Water Resources Development Act of 1986
- Recognition of need to track the US Transportation System, 1970s
- Creation of LPMS
- Evolution of LPMS

Today:

- Data used to inform:
 - USACE Planning Studies
 - Ranking of projects
 - Budget development (tonnage)
 - Reports to OMB (availability of locks)
 - Directing other agency resources

Data System used to collect and report data on vessels as they traverse through Corpsowned/operated locks



LPMS 1.0 – INTERNAL DATA ENTRY

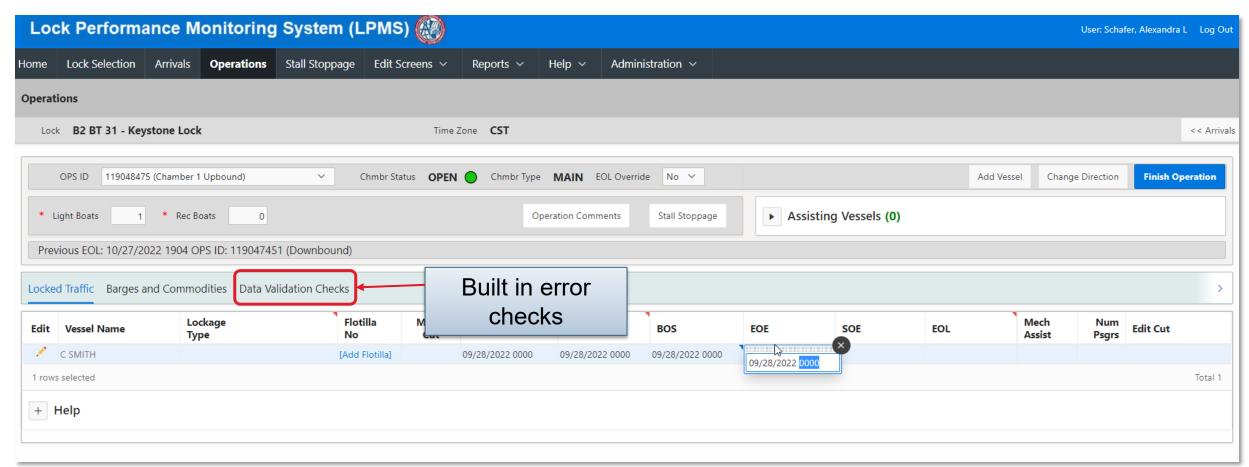


HID-OOMBCDB	LP	ING ARRIVALS	
User ID: Q0IWRSDR KEYSTONE LOCK	Lock: 31	Timezone: CDT	T Last Refresh Date: 10/16/2018
AIS Vessels DownBound (as of 10/16/2018 22:48 CDT): 0 Vessels-Down-Bound			AIS Vessels UpBound (as of 10/16/2018 22:48 CDT): 0 Vessels-Up-Bound
Seq * Name Origin/Dest	Length Width * Arrival (HH24MI)		Seq * Name Origin/Dest Length Width * Arrival (HH24MI) Haz Incl
1 RV ALGIERS (REC	50 30 03/08/2016	Flotilla	<u>lov</u>
2 AUSTIN GOLDING	100 50 03/08/2016	Flotilla	Save Operations Reset
lov lov			LPMS - Operations Main Screen
Save	Operations Reset		User ID: Q0IWRSDR Lock: 31 OPS ID: 7329489 Previous End of Lockage: 11/11/2016 14:30 Downbound - Override = NO (Change to YES) Timezone: CDT Today's Date: 06/14/2017 OPS ID: 7661354
			* Chamber No: 1 V * Direction: Downbound V Multi Vessel: O Yes • No Boats: Light Rec
			Lockage Comments Stall Stoppages Signal and Departure
			Traffic Information
			Vessel Function Type: T Origin: MI 185 LOWER MISSISSIPPI RIVER MILEMARKER Done Partial Save Another Vessel Add Vessel Assist Destination: MI 185 UPPER MISSISSIPPI RIVER MILEMARKER Delete Help



LPMS 2.0 – OPERATIONS SCREEN





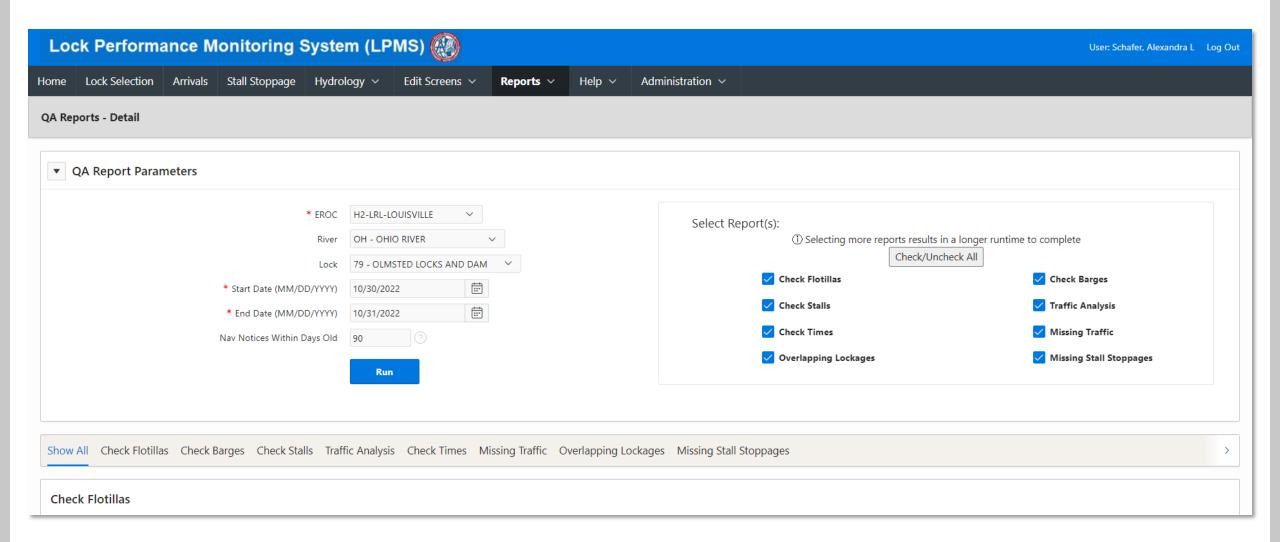




LPMS 2.0 – QA REPORTS

Check these daily!







CORPS LOCKS 1.0





US Army Corps of Engineers

Lock Performance Monitoring System

LPMS Public Web - Home

Welcome to Corps Locks!

The Corps Locks website contains lock and vessel specific information derived from the United States Army Corps of Engineers Lock Performance Monitoring System (LPMS). The information contained here represents an every 15-minute updated snapshot of Freedom of Information Act (FOIA) data on U.S. flag vessels and foreign vessels operating in U.S. waterways that transited a Corps-owned or operated lock structure. Detailed information on specific companies or commodities is considered privileged and is not included in the Corps Locks website.

Find a Vessel	Lock Queue Report	Lock Flotilla Report
Lock Status Report	Tonnage Report	Data Web Services
River at a Glance	Glossary	Commodity Codes

Notifications

12/10/2018: Corps Locks was updated to be 508 compliant.

01/17/2017: A new report, additional clarification of terms, and calculation corrections have been deployed.

10/04/2016: Average Delay calculations now include vessels in queue.

Corps Locks 2.0 - Public Site

Available Now!



https://ndc.ops.usace.army.mil/ords/f?p=108:1

Live Updates!



US Army Corps of Engineers Lock Performance Monitoring System

A corps locks

Home V Web :

Web Services Glossary



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Find a Vessel Lock Queue Report Lock Status Report Tonnage Report River at a Glance Commodity Codes

LPMS - PUBLIC NDC SITE

Available Now!



https://www.iwr.usace.army.mil/About/Technical-Centers/NDC-Navigation-and-Civil-Works-Decision-Support/NDC-Locks/

- Access to reports, no edit rights to the user.
 - Prepopulated from data entries via USACE internal version.
 - Information is downloadable (.xlsx and .PDF formats)

Key Lock Report (monthly)

Lock Statistics by River (annual)

Lock Statistics by District/Division (annual)

Public Lock Commodity Report (annual)

Public Lock Usage Report (annual)

Public Lock Unavailability Report (annual)



WATERBORNE COMMERCE STATISTICS CENTER



https://www.iwr.usace.army.mil/About/Technical-Centers/WCSC-Waterborne-Commerce-Statistics-Center-2/

Vessel Characteristics

Navigation Infrastructure and GIS

Commerce Data

Foreign Data





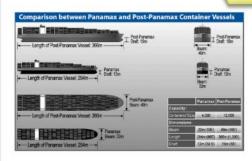
Vessel Characteristics



Navigation Infrastructure and GIS



Commmerce Data

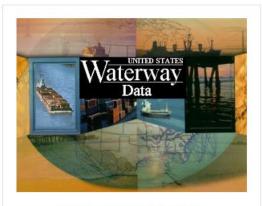


Foreign Data





Fact Cards



Origin/Destination Data



Container Traffic





Upcoming Changes:

- Offline LPMS data entry
- Enhanced Data Services across NDC's suite of Navigation systems
- Robust Reporting across NDC's suite of Navigation systems





QUESTIONS, COMMENTS, OR FEEDBACK?

LPMS Mailbox: CEIWR-NDC.LPMS@usace.army.mil

LPMS Data Entry (To request access, email the LPMS Mailbox):

https://ndc-navapps.ops.usace.army.mil/ords/f?p=10000:110

Corps Locks:

https://ndc.ops.usace.army.mil/ords/f?p=108:1