

# Improvements for LPMS and Waterborne Commerce Data

**Inland Waterways Users Board  
Meeting No. 82  
24 February 2017**

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Institute for Water Resources**



**US Army Corps of Engineers  
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# Continued Improvements to LPMS and WCSC

## Data output and visualizations

- Improvements to LPMS website
  - ▶ Reports and data availability
- Refinements to WISDM 3.0 Navigation Viewer
  - ▶ Integrating field input now
  - ▶ Schedule for going live on both internal and external sites
- Socrata and improved data availability
- Live demonstrations



# Navigation and Civil Works Decision Support Center at IWR

- Team members

- ▶ Nancy Blyler                      HQ EGIS
- ▶ Joel Schlagel                      IWR Geospatial and data
- ▶ Tim Pangburn                      CRREL Geospatial
- ▶ Forrest Vanderbilt                      IWR Interagency Data
- ▶ Steven Riley                      IWR Navigation Data
- ▶ Ruth Betts                      IWR Navigation Data
- ▶ Courtney Greenley                      IWR Data outreach, social media
- ▶ Mark Pointon                      IWR Navigation Lead
- ▶ Tom Podany                      IWR WCSC Director
- ▶ Dale Brown                      IWR WCSC Data Manager





# U.S. Army Corps of Engineers Navigation and Civil Works Decision Support Center

Explore Corps Open Data on Socrata

usace.data.socrata.com Performance

USACE Lock Stoppages

Describes any stoppages occurring at USACE locks, including length of time the site was unable to service vessels, whether the downtime was planned, and the cause of the downtime.

River Name	Lock Name	Begging Stoppage Date	End Stoppage Date	Scheduled (Y/N)	Reason	Stoppage Duration (Mins)	
49887	OHIO RIVER	BELLEVILLE LOCKS AND DAM	01/13/2015 02:30:00 AM	01/13/2015 03:20:00 AM	N	Ice on or around tow	50
49888	OHIO RIVER	SMITHLAND LOCK AND DAM	08/04/2013 08:38:00 PM	08/04/2013 08:55:00 PM	N	Interference by other vessel(s)	17
49889	OHIO RIVER	CANNELTON LOCK AND DAM	07/08/2016 07:11:00 AM	07/12/2016 07:00:00 AM	N	Repairing lock or lock hardware	5,749
49890	OHIO RIVER	NEWBURGH LOCK AND DAM	08/08/2013 02:05:00 AM	08/08/2013 02:20:00 AM	N	Other	15
49891	OHIO RIVER	SMITHLAND LOCK AND DAM	11/30/2015 08:01:00 PM	11/30/2015 09:00:00 PM	N	Fog	59
49892	OHIO RIVER	CANNELTON LOCK AND DAM	10/14/2014 11:19:00 AM	10/14/2014 01:00:00 PM	N	Inspection or testing lock	101
49893	OHIO RIVER	RACINE LOCKS AND DAM	07/26/2016 08:00:00 PM	07/26/2016 10:14:00 PM	Y	Lock Ok; unused for other reason (	134
49894	OHIO RIVER	DASHIELDS LOCK AND DAM	08/20/2013 11:05:00 AM	08/20/2013 05:27:00 PM	N	Maintaining lock or lock equipmen	382
49895	OHIO RIVER	MARKLAND LOCKS AND DAM	09/13/2016 10:02:00 AM	09/13/2016 01:48:00 PM	N	Maintaining lock or lock equipmen	226
49896	OHIO RIVER	JOHN T. MYERS LOCK & DAM	09/17/2014 07:20:00 AM	09/17/2014 08:36:00 AM	N	Maintaining lock or lock equipmen	76
49897	OHIO RIVER	HANNIBAL LOCKS AND DAM	01/27/2014 04:46:00 AM	01/27/2014 06:15:00 AM	N	Ice on lock or lock equipment	89
49898	OHIO RIVER	SMITHLAND LOCK AND DAM	04/07/2013 04:21:00 PM	04/07/2013 05:00:00 PM	N	Interference by other vessel(s)	64
49899	OHIO RIVER	SMITHLAND LOCK AND DAM	12/21/2014 03:41:00 PM	12/21/2014 04:00:00 PM	N	Interference by other vessel(s)	19
49900	OHIO RIVER	EMSWORTH LOCK AND DAM	11/11/2013 06:26:00 PM	11/11/2013 07:35:00 PM	N	Repairing lock or lock hardware	149
49901	OHIO RIVER	SMITHLAND LOCK AND DAM	05/28/2012 06:05:00 AM	05/28/2012 06:35:00 AM	N	Interference by other vessel(s)	28
49902	OHIO RIVER	SMITHLAND LOCK AND DAM	11/21/2013 05:02:00 AM	11/21/2013 05:22:00 PM	N	Interference by other vessel(s)	20
49903	OHIO RIVER	HANNIBAL LOCKS AND DAM	08/25/2015 09:00:00 AM	08/25/2015 11:15:00 AM	N	Maintaining lock or lock equipmen	89
49904	OHIO RIVER	SMITHLAND LOCK AND DAM	11/22/2013 02:29:00 AM	11/22/2013 05:28:00 AM	N	Fog	179
49905	OHIO RIVER	NEW CUMBERLAND LOCK AND DAM	08/06/2016 07:55:00 PM	08/07/2016 12:45:00 AM	N	Tow accident or collision	290
49906	OHIO RIVER	LOCK AND DAM 52	11/26/2013 02:01:00 AM	11/26/2013 03:10:00 AM	N	Other	69
49907	OHIO RIVER	SMITHLAND LOCK AND DAM	09/06/2014 04:16:00 PM	09/06/2014 05:30:00 PM	N	Interference by other vessel(s)	74
49908	OHIO RIVER	RACINE LOCKS AND DAM	10/24/2014 05:00:00 PM	10/25/2014 07:00:00 AM	N	Other	840
49909	OHIO RIVER	NEWBURGH LOCK AND DAM	12/14/2012 10:20:00 PM	12/14/2012 11:15:00 PM	N	Other	55
49910	OHIO RIVER	SMITHLAND LOCK AND DAM	03/14/2013 07:11:00 PM	03/14/2013 07:44:00 PM	N	Interference by other vessel(s)	33
49911	OHIO RIVER	MARKLAND LOCKS AND DAM	02/25/2013 02:15:00 PM	02/25/2013 03:10:00 PM	Y	Maintaining lock or lock equipmen	55
49912	OHIO RIVER	JOHN T. MYERS LOCK & DAM	11/10/2014 12:00:00 PM	11/10/2014 12:11:00 PM	N	Interference by other vessel(s)	11
49913	OHIO RIVER	SMITHLAND LOCK AND DAM	12/22/2015 06:46:00 AM	12/22/2015 07:10:00 AM	N	Interference by other vessel(s)	24
49914	OHIO RIVER	JOHN T. MYERS LOCK & DAM	01/08/2014 08:50:00 AM	01/08/2014 09:35:00 AM	N	Lock hardware or equipment matt	45
49915	OHIO RIVER	SMITHLAND LOCK AND DAM	05/05/2012 07:01:00 AM	05/05/2012 07:29:00 AM	N	Lightning	28

Example

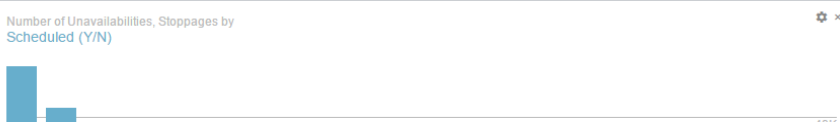
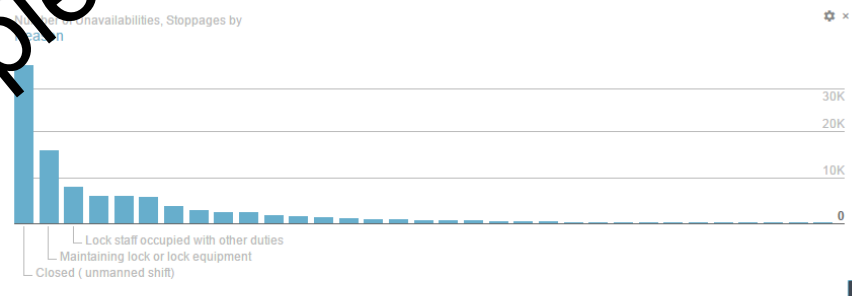
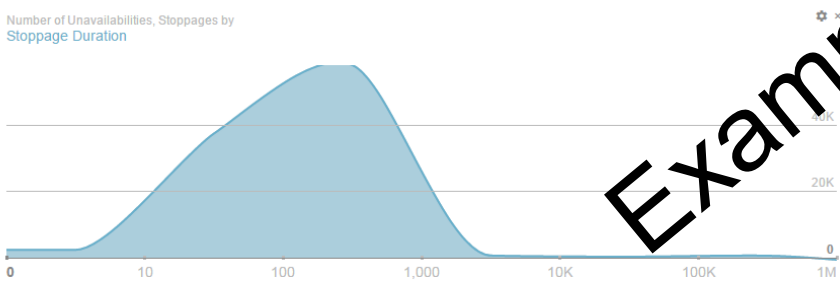
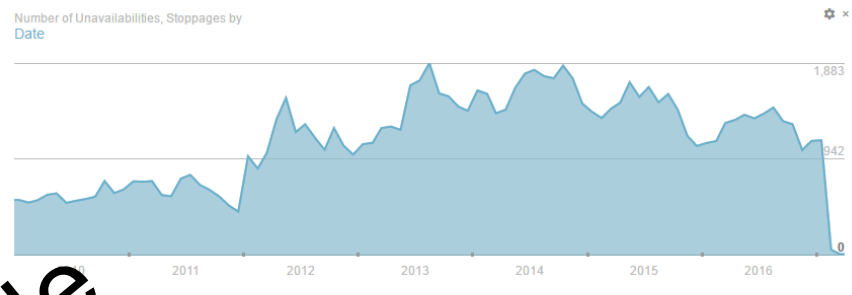
Showing all Unavailabilities, Stoppages

Up to 2 cards per row in this section ?

**Search By Lock Name**

Search

Type some text and press Enter to search



Example

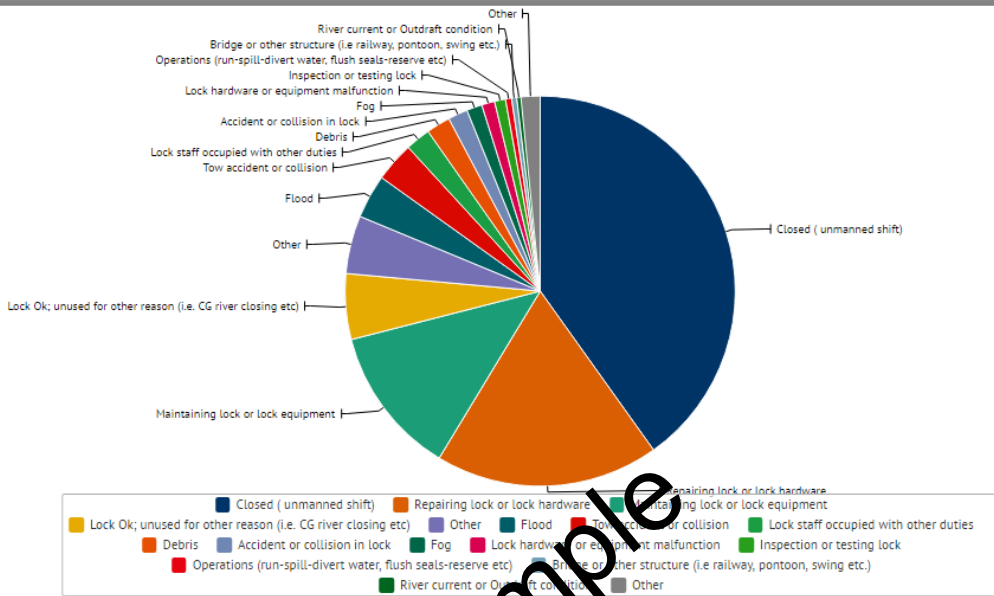




### FY 2016 Stoppage Breakdown

Based on USACE Lock Stoppages  
Describes any stoppages occurring at USACE locks, including length of time the site was unable to service vessels, whether the downtime was planned, and the cause of the downtime.

Manage More Views Filter



Example

Reason	Stoppage Duration
1 Closed (unmanned shift)	3,574,471
2 Repairing lock or lock hardware	1,650,321
3 Maintaining lock or lock equipmen	1,099,110
4 Lock OK; unused for other reason (i	484,225
5 Other	428,633
6 Flood	323,024
7 Tow accident or collision	293,528
8 Lock staff occupied with other duti	184,704
9 Debris	177,440



# Live Demonstrations

- Updates on LPMS data
- WISDM 3.0; Navigation Viewer beta version
- Socrata initial data viewer



# Questions?

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