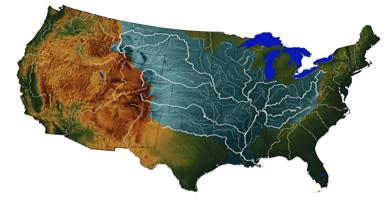
BIG RIVER COALITION



Sean M. Duffy, Sr. Executive Director 5600 Janice Avenue Kenner, LA 70065

Direct Line: (504) 338-3165 sean.duffy@bigrivercoalition.org

Date: September 4, 2024

Members,

RE: USACE MISSISSIPPI RIVER MAINTENANCE FORUM MEETING NOTES

The U.S. Army Corps of Engineers (USACE) Mississippi Valley New Orleans (MVN) holds monthly meetings to discuss channel conditions and related issues directly with the maritime industry. These meetings are usually scheduled for 0900 hours on the first Wednesday of the month. This meeting was conducted via teleconference only the USACE will conduct these meetings virtually only until later this fall due to room limitations at the USACE New Orleans District. The agenda provided by the MVN is attached.

Maintenance Forum Notes September 4, 2024

1) Introductions

2) Southeast Waterways Update:

Tiger Pass: The USACE confirmed today that Manson Construction was the apparent low bidder to the combined cutterhead contract advertisement to dredge at Baptiste Collette (first assignment) and Tiger Pass from the river to approximately Mile 9.75. The cutterhead dredge will dredge from the river channel inward (east to west) until just short of the first utility obstruction (anomalies) previously identified at approximately Mile 9.75 feet (Phase 1). Beyond Mile 9.75 the USACE expects Phase 2 to work with a bucket dredge or similar equipment to remove material over the obstructions with a coordinated utility location survey effort included in the contract as a critical component of Phase 2. The USACE believes the scope of work will restore the channel to Mile 9.75 feet to 12 feet Mean Lower Low Water. The USACE expects Phase 3 to be a future cutterhead contract to dredge from Mile 9.75 to the jetty end.

Baptiste Collette: The USACE expects the Manson Construction cutterhead to being work at Baptiste Collette first as referenced above. The USACE advises mariners transiting this shallow-draft channel to utilize the online channel surveys. Most of the removed dredged material will be beneficially used along the channel boundaries and to continue creating additional islands near the jetty end, the islands are designed to create new shorebird habitat similar to the recently created Gunn Island.

3) Mississippi River Conditions Update:

New Orleans Gauge (Carrollton Gauge): The river stage at New Orleans was 3.4 feet this morning. The National Oceanic and Atmospheric Administration (NOAA) National Weather Service (NWS) Extended Streamflow Prediction (28-Day) for the Carrollton Gage issued today forecasts stages will continue a slow fall to 2.8 feet on October 2, 2024.

Baton Rouge Gauge: The stage at Baton Rouge this morning was 6.4 feet. Today's NWS extended forecast indicates stages will continue a slow fall to 4.3 feet on October 2, 2024.

BIG RIVER COALITION

A. Crossings Between Baton Rouge and New Orleans:

The latest channel surveys for the Crossings Between Baton Rouge and New Orleans are included in the attached agenda. The USACE has now released the two government dustpan dredges (JADWIN and HURLEY) from work on the Crossings to respond to the low water emergency on the shallow-draft channel. The USACE continues dredging the Crossings with the industry dustpan dredge WALLACE McGEORGE (Pine Bluff Sand & Gravel) working at Bayou Goula (Mile 197.8 AHP) and the industry hopper dredge NEWPORT working on assignment at Granada Crossing (Mile 204.3 AHP).

B. New Orleans Harbor:

The USACE temporarily released the cutterhead dredge CAPTAIN FRANK (Weeks Marine) to work on the portions of the shallow-draft channel (Lock Forebays). The CAPTAIN FRANK has returned to dredging in the New Orleans Harbor and is working on both channel maintenance and the harbor deepening contract.

D. Southwest Pass (SWP):

There are currently no dredges working in Southwest Pass, the channel is in relatively good condition. The USACE has awarded the Fiscal Year 2025 Early Award Contracts. Southwest Pass Hopper Dredge Contract #1-2024 was awarded to the GLENN EDWARDS (Manson Construction) and the apparent low bidder for the Gulf Coast Regional Hopper Dredge Contract (Early Award #2) is also Manson Construction (NEWPORT expected).

D. Head of Passes, Hopper Dredge Disposal Area (HDDA):

The apparent low bidder for the HDDA Cutterhead Dredge Contract is Weeks Marine, it will take a few weeks to determine the assigned dredge, choice of disposal area and anticipated start date. Weeks Marine is also expected to start the emergency construction of the saltwater sill at approximately Mile 63.8 AHP next week, additional details on the saltwater sill are forthcoming.

E. Southwest and South Pass Stone Foreshore & Jetty Repairs:

The USACE advised that a new task order for additional work on the South Pass jetties is expected to be awarded by the end of September. Pine Bluff Sand & Gravel was awarded the contracts for foreshore stone and jetty repairs on both deep-draft channels. The work in SWP continues from Mile 11 Below Head of Passes (BHP) to Mile 13 BHP.

G. South Pass:

The USACE does not expect to dredge South Pass in Fiscal Year 2025 based on inadequate funding.

4) Next Meeting:

The next Forum meeting is scheduled for 0900 hours on Wednesday, October 2, 2024, this meeting will be conducted virtually only.

Sean M. Duffy, Sr.

Executive Director



US Army Corps of Engineers ® New Orleans District

MISSISSIPPI RIVER UPDATE

September 4, 2024

LATEST STAGES

New Orleans = 3.4' Baton Rouge = 6.4'

The next Mississippi River Forum will be Wednesday, October 2, 2024, at 9:00 a.m.

Virtual Meeting ONLY via WebEx or conference call:

Conference Call information: 1-844-800-2712. Access Code: 199 676 1264# WebEx Link: <u>https://usace1.webex.com/meet/heather.l.jennings</u>

1. CROSSINGS BETWEEN BATON ROUGE & NEW ORLEANS:

Location of dustpan/hopper dredges:

Dredge	Current	Next Week	EDC
Wallace McGeorge	Alhambra	Bayou Goula	TBD
Newport	Granada	Arlington/Belmont	TBD
Hurley	Departing 9/4		TBD
Jadwin	Departed 8/27		TBD

a. SWP Hopper #2-24: 24C0027 –Bid Opening held 8/20/2024, awarded to Manson Construction, dredge Newport. Dredge will work in the deep draft crossings and started on 8/30/2024.

b. Dredge Jadwin & Hurley released to work in Vicksburg and Memphis Districts for low water emergencies.

2. NEW ORLEANS HARBOR:

Location of cutterhead dredges:

Dredge	Current	Next Week	EDC
Captain Frank	Temporary release		

a. NO Harbor Cutterhead #2-23: 23B0027 – Bid Opening held 7/2/2024. Awarded to Weeks Marine, dredge Captain Frank started on 8/4/2024. The dredge has been temporarily release to relocate to the Port of New Orleans approach deepening contract. Work will resume in NO Harbor upon completion.

3. SALTWATER SILL:

a. Saltwater Barrier Sill Cutterhead Dredge #1-2023 – 23B0056: Bid opening 8/29/2024. Awarded to Weeks Marine.

The toe of the saltwater wedge was measured at mile 34.6 AHP on 8/26/2024. Location of the wedge can be found at the following link:

https://www.mvn.usace.army.mil/Missions/Engineering/Stage-and-Hydrologic-Data/SaltwaterWedge/SaltwaterWedgeNow/

3. SOUTHWEST PASS (SWP):

Location of hopper/cutterhead dredges: None

	Dredge	Current	Next Week	EDC
--	--------	---------	-----------	-----

2024 Ongoing Dredging:

a. SWP Hopper #2-23: 23C0028 - 2024 Early Award #1 –Awarded to Manson Construction, dredge Glenn Edwards worked from 3/4/2024 – 8/1/2024. Dredge is working in Galveston District.
b. SWP & Calcasieu Hopper #11-23: 23C0033 - 2024 Early Award #2 –Awarded to Great Lakes Dredge & Dock, Dredge Padre Island worked from 5/4/2024 – 5/16/2024. Dredge is working in Galveston District.

2025 Early Award Dredging:

c. SWP Hopper #1-24: 24B0011 – 2025 Early Award #1 – Bid Opening held 7/11/2024, awarded to Manson Construction, dredge Glenn Edwards. Dredge arrival February 2025.

d. Gulf Coast Regional Hopper: 24B0036 – 2025 Early Award #2 – Bid Opening held 8/15/2024, low bidder is Manson Construction, dredge Newport. Dredge arrival March 2025.

4. HEAD OF PASSES, HOPPER DREDGE DISPOSAL AREA:

Breage Current Leo	Dredge	Current	Next Week	EDC
--------------------	--------	---------	-----------	-----

a. HDDA Dredging 2024 (24B0038): Bid opening held 8/28/2024. Apparent low bidder is Weeks Marine.

5. SOUTH PASS AND SOUTHWEST PASS STONE FORESHORE & JETTY REPAIRS:

a. SWP and South Pass Stone Repairs FY23: Contract awarded to Pine Bluff Sand & Gravel.

South Pass Jetties: Completed 6/30/24. Task Order #4 will be awarded by the end of Sep to complete repairs to the west jetty.

SWP Foreshore & Jetties: Task Order #3, currently working on the west foreshore dike at Mile 11 to 13 BHP. East jetty Mile 18.5 BHP is ongoing, but weather has delayed completion.

6. SOUTH PASS:

a. South Pass Dredging: Dredging completed in Feb 2022.

7. BAPTISTE COLLETTE:

a. Baptiste Collette #24-1(with Tiger Pass Phase 1): Bid Opening held 8/27/2024. Apparent low bidder is Manson Construction.

8. TIGER PASS:

a. Tiger Pass Phase 1(with Baptiste Collette): Bid Opening held 8/27/2024. Apparent low bidder is Manson Construction.

For updated channel survey data visit the New Orleans District website: http://www.mvn.usace.army.mil/Missions/Navigation/ChannelSurveys.aspx

Note: Everything in this report is subject to change.

NATIONAL WEATHER SERVICE

Extended Streamflow Prediction

Issued by NWS Lower Mississippi RFC

Current Version | Previous Version | Graphics & Text | Print | Product List | Glossary On Versions: 1 2 3 4 5 6 7 8 9 10.11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

939 FGUS64 KORN 031535 ESPORN

EXTENDED STREAMFLOW PREDICTION NATIONAL WEATHER SERVICE RIVER FORECAST CENTER, SLIDELL, LA 1527 PM GMT TUE SEP 03 2024

DATE									MHOM6	
09-04-24	12.8	9.9	1.4	-1.7	1.9	1.3	-6.3	-6.2	-7.4	1.3
09-05-24	12.7	9.7	1.4	-1.7	2.0	1.3	-6.8	-6.7	-7.9	1.1
09-06-24	12.6	9.5	1.3	-1.8	1.9	1.2	-6.8	-6.9	-8.2	0.9
09-07-24	12.5	9.5	1.1	-1.9	1.8	1.2	-6.9	-6.9	-8.2	0.7
09-08-24	12.5	9.6	1.1	-2.0	1.7	1.1	-7.0	-7.0	-8.2	0.7
09-09-24	12.4	9.5	1.0	-2.1	1.7	1.0	-7.1	-7.0	-8.2	0.6
09-10-24 09-11-24	12.3	9.5 9.5	1.0	-2.2	1.6	1.0	-7.1 -7.2	-7.1	-8.3	0.5
09-11-24 09-12-24	12.2 12.1	9.5 9.4	1.0 1.0	-2.1	1.5 1.5	0.9 0.9	-7.2	-7.3 -7.3	-8.4 -8.6	0.3 0.0
09-12-24	12.1	9.4	0.9	-2.2	1.5	0.9	-7.3	-7.4	-8.7	-0.2
09-13-24	12.0	9.5	0.9	-2.3	1.5	0.8	-7.4	-7.5	-8.8	-0.2
09-14-24	11.5	9.1	0.6	-2.4	1.4	0.8	-7.5	-7.6	-8.9	-0.3
09-15-24	11.3	8.8	0.3	-2.7	1.4	0.6	-7.5	-7.7	-8.9	-0.5
09-10-24	11.0	8.5	0.2	-2.9	1.0	0.5	-7.7	-7.8	-9.0	-0.7
09-17-24	10.8	8.4	0.0	-3.1	0.9	0.3	-7.9	-7.9	-9.1	-0.9
09-10-24	10.5	8.2	-0.1	-3.2	0.8	0.2	-8.0	-8.0	-9.2	-1.0
09-20-24	10.3	8.1	-0.3	-3.3	0.6	0.1	-8.1	-8.1	-9.3	-1.2
09-21-24	10.1	7.9	-0.4	-3.4	0.5	0.0	-8.2	-8.2	-9.4	-1.3
09-22-24	10.0	7.8	-0.5	-3.5	0.5	-0.1	-8.3	-8.3	-9.5	-1.5
09-23-24	9.9	7.6	-0.6	-3.6	0.4	-0.2	-8.5	-8.4	-9.5	-1.7
09-24-24	9.8	7.5	-0.7	-3.6	0.3	-0.2	-8.5	-8.4	-9.6	-1.8
09-25-24	9.7	7.5	-0.8	-3.7	0.2	-0.3	-8.6	-8.5	-9.7	-1.9
09-26-24	9.6	7.4	-0.8	-3.7	0.2	-0.4	-8.7	-8.6	-9.7	-2.1
09-27-24	9.5	7.4	-0.9	-3.8	0.1	-0.4	-8.7	-8.7	-9.8	-2.2
09-28-24	9.4	7.3	-0.9	-3.8	0.1	-0.5	-8.8	-8.7	-9.9	-2.3
09-29-24	9.2	7.3	-0.9	-3.8	0.0	-0.5	-8.9	-8.8	-9.9	-2.4
09-30-24	9.1	7.2	-1.0	-3.9	0.0	-0.6	-8.9	-8.8	-10.0	-2.5
10-01-24	9.1	7.2	-1.0	-3.9	0.0	-0.6	-9.0	-8.8	-10.0	-2.6
DATE			VCKM6							
09-04-24	1.0	10.3	6.0	14.3	17.5	6.4	3.9	3.1	2.6	
09-04-24 09-05-24	1.0 0.9	10.3 10.2	6.0 5.8	14.3 13.9	17.5 16.9	6.4 6.4	3.9 3.9	3.1 3.1	2.6 2.6	
09-04-24 09-05-24 09-06-24	1.0 0.9 0.7	10.3 10.2 10.0	6.0 5.8 5.6	14.3 13.9 13.6	17.5 16.9 16.6	6.4 6.4 6.2	3.9 3.9 3.9	3.1 3.1 3.2	2.6 2.6 2.8	
09-04-24 09-05-24 09-06-24 09-07-24	1.0 0.9 0.7 0.6	10.3 10.2 10.0 9.9	6.0 5.8 5.6 5.5	14.3 13.9 13.6 13.4	17.5 16.9 16.6 16.3	6.4 6.4 6.2 6.0	3.9 3.9 3.9 4.0	3.1 3.1 3.2 3.3	2.6 2.6 2.8 2.9	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24	1.0 0.9 0.7 0.6 0.4	10.3 10.2 10.0 9.9 9.7	6.0 5.8 5.6 5.5 5.4	14.3 13.9 13.6 13.4 13.3	17.5 16.9 16.6 16.3 16.1	6.4 6.4 6.2 6.0 5.8	3.9 3.9 3.9 4.0 4.0	3.1 3.1 3.2 3.3 3.4	2.6 2.6 2.8 2.9 3.1	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24	1.0 0.9 0.7 0.6 0.4 0.3	10.3 10.2 10.0 9.9 9.7 9.6	6.0 5.8 5.6 5.5 5.4 5.3	14.3 13.9 13.6 13.4 13.3 13.1	17.5 16.9 16.6 16.3 16.1 16.0	6.4 6.2 6.0 5.8 5.6	3.9 3.9 3.9 4.0 4.0 4.0	3.1 3.1 3.2 3.3 3.4 3.6	2.6 2.6 2.8 2.9 3.1 3.1	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2	10.3 10.2 10.0 9.9 9.7 9.6 9.5	6.0 5.8 5.6 5.5 5.4 5.3 5.2	14.3 13.9 13.6 13.4 13.3 13.1 13.0	17.5 16.9 16.6 16.3 16.1 16.0 15.8	6.4 6.2 6.0 5.8 5.6 5.6	3.9 3.9 4.0 4.0 4.0 4.0	3.1 3.2 3.3 3.4 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.1	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7	6.4 6.2 6.0 5.8 5.6 5.6 5.4	3.9 3.9 4.0 4.0 4.0 4.0 3.9	3.1 3.2 3.3 3.4 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.1 3.3	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-12-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4	6.0 5.8 5.5 5.4 5.3 5.2 5.1 5.0	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6	6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.2	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.1 3.3 3.2	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-12-24 09-13-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.3	6.0 5.8 5.5 5.4 5.3 5.2 5.1 5.0 4.9	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6 15.5	6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.2 5.3	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-11-24 09-12-24 09-13-24 09-14-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.4 9.3 9.1	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6 15.5 15.4	6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.2 5.3 5.3	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.3	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.2	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-11-24 09-11-24 09-12-24 09-13-24 09-14-24 09-15-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.3 9.1 9.1	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6 15.5 15.4 15.3	6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.2 5.3 5.3 5.2	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.2 3.1 2.5	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-10-24 09-11-24 09-12-24 09-12-24 09-13-24 09-13-24 09-15-24 09-16-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.4 9.3 9.1 9.1 9.0	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6 15.5 15.4 15.3 15.1	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.3 5.2 5.2	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9	2.6 2.8 2.9 3.1 3.1 3.1 3.2 3.2 3.2 3.1 2.5 2.5	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-12-24 09-13-24 09-13-24 09-15-24 09-15-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4 -0.4	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.3 9.1 9.1 9.0 9.0	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.3 5.2 5.2 5.2	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.4	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.2 3.1 2.5 2.5 2.4	
09-04-24 09-05-24 09-06-24 09-08-24 09-09-24 09-10-24 09-12-24 09-12-24 09-13-24 09-14-24 09-15-24 09-16-24 09-17-24 09-18-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4 -0.4 -0.6	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.3 9.1 9.1 9.0 9.0 8.9	6.0 5.8 5.6 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.3 5.2 5.2 5.2 5.1	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.4 3.3	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.1 2.5 2.5 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-09-24 09-09-24 09-10-24 09-12-24 09-12-24 09-13-24 09-13-24 09-15-24 09-15-24 09-17-24 09-19-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4 -0.4 -0.6 -0.7	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.3 9.1 9.1 9.0 9.0 8.9 8.8	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8	17.5 16.9 16.6 16.3 16.1 16.0 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8 14.7	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.2 5.2 5.2 5.2 5.1 5.0 4.9	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.4 3.3	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-09-24 09-10-24 09-11-24 09-11-24 09-13-24 09-13-24 09-15-24 09-15-24 09-15-24 09-17-24 09-19-24	1.0 9.9 0.7 0.6 0.4 0.3 0.2 0.1 -0.3 -0.3 -0.4 -0.4 -0.4 -0.6 -0.7 -0.8	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.3 9.1 9.0 9.0 8.9 8.8 8.7	6.0 5.8 5.6 5.5 5.4 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.1	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8 14.7 14.6	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.2 5.2 5.2 5.2 5.4 9.4 9 4.8	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.4 3.4 3.3 3.3 3.3	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-10-24 09-11-24 09-12-24 09-13-24 09-14-24 09-15-24 09-17-24 09-17-24 09-19-22	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.4 -0.4 -0.6 -0.7 -0.8 -1.0	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.4 9.4 9.4 9.1 9.0 9.0 8.9 8.8 8.7 8.5	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.1 3.9	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8 14.7 14.6 14.5	6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.2 5.2 5.2 5.2 5.1 5.0 4.9 4.8 4.8	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.4 3.3 3.3 3.3	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.2 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-10-24 09-11-24 09-12-24 09-13-24 09-15-24 09-15-24 09-15-24 09-19-24 09-19-24 09-20-24 09-22-24	1.0 0.9 0.7 0.6 0.4 0.1 -0.3 -0.4 -0.4 -0.4 -0.6 -0.7 -0.8 -1.0	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.5 9.4 9.3 9.1 9.1 9.0 8.9 8.8 8.7 8.5 8.4	6.0 5.8 5.6 5.5 5.4 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.1 3.9 3.7	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8 14.7 14.6 14.5 14.3	6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.2 5.3 5.2 5.2 5.2 5.0 4.9 4.8 4.8 4.7	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.4 3.3 3.3 3.3 3.3 3.3 3.2	3.1 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.3 3.0 3.1 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-10-24 09-10-24 09-11-24 09-13-24 09-13-24 09-15-24 09-15-24 09-15-24 09-16-24 09-12-24 09-20-24	1.0 0.9 0.7 0.6 0.4 0.1 -0.3 -0.3 -0.4 -0.4 -0.4 -0.6 -0.7 -0.8 -1.0 -1.0	10.3 10.2 9.9 9.7 9.6 9.5 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4 9.4	6.0 5.8 5.5 5.4 5.3 5.2 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.3 3.7 3.5	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.5 12.4 12.2 12.1 12.0 11.9 11.6 11.5 11.4 11.1	17.5 16.9 16.6 16.3 16.1 15.8 15.7 15.6 15.5 15.4 15.3 15.1 15.0 14.8 14.7 14.6 14.5 14.3 14.1	6.4 6.2 6.0 5.8 5.6 6 5.4 5.2 5.3 5.2 5.2 5.1 5.0 4.9 4.8 4.8 4.7 4.6	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.3 3.0 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-10-24 09-11-24 09-12-24 09-13-24 09-15-24 09-15-24 09-15-24 09-19-24 09-19-24 09-20-24 09-22-24	1.0 0.9 0.7 0.6 0.4 0.1 -0.3 -0.4 -0.4 -0.4 -0.6 -0.7 -0.8 -1.0	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.3 9.4 9.3 9.1 9.0 9.0 8.9 8.8 8.7 8.5 8.4 8.3 8.3	6.0 5.8 5.6 5.5 5.4 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 4.4 4.3 4.1 3.9 3.7 3.5 3.3	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4 11.1	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 16.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.3\\ 15.1\\ 15.0\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\end{array}$	6.4 6.4 6.2 6.0 5.8 5.6 5.6 5.4 5.3 5.3 5.2 5.3 5.2 5.1 5.0 4.9 4.8 4.8 4.7 4.6 6 4.5	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.4 3.3 3.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2	3.1 3.1 3.2 3.3 3.4 3.6 6 3.6 6 3.6 6 3.3 3.6 3.6 3.3 3.0 0 3.1 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.2 3.2 3.1 2.5 2.5 2.4 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-09-24 09-09-24 09-10-24 09-10-24 09-11-24 09-13-24 09-13-24 09-15-24 09-15-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4 -0.6 -0.7 -0.8 -1.0 -1.0 -1.1 -1.2 -1.3	$\begin{array}{c} 10.3\\ 10.2\\ 2\\ 9.9\\ 9.7\\ 9.6\\ 9.5\\ 9.4\\ 9.3\\ 9.1\\ 9.0\\ 8.9\\ 8.8\\ 8.7\\ 8.5\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.2\end{array}$	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 5.4 4.3 4.5 4.4 1.3 9.9 3.7 5.3 3.3 3.1	14.3 13.9 13.6 13.4 13.3 13.1 13.1 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4 11.1 10.8	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 15.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.3\\ 15.1\\ 15.0\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\end{array}$	6.4 6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.2 5.2 5.1 5.0 4.9 4.8 4.8 4.7 4.4 4.5 5.4.4	3.9 3.9 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.4 4.3 3.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2 3.2 3	3.1 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.1 3.1 3.3 3.2 3.2 3.1 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-12-24 09-13-24 09-15-24 09-15-24 09-15-24 09-16-24 09-12-24 09-20-24 09-22-24 09-22-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.4 0.0 0.0	10.3 10.2 9.9 9.7 9.5 9.5 9.4 9.3 9.1 9.1 9.0 9.0 8.9 8.8 8.7 8.5 8.4 8.3 8.3 8.2 8.1	6.0 5.8 5.6 5.5 5.4 5.5 5.4 5.5 5.4 5.2 5.1 5.0 0 4.9 4.8 4.7 4.6 6 4.5 5.4 4.1 3.9 3.7 7 3.5 3.3 3.1 2.9	14.3 13.9 13.6 13.4 13.3 13.1 13.1 13.0 12.8 12.7 12.5 12.4 12.7 12.5 12.4 12.0 11.9 11.8 11.6 11.5 11.4 11.1 10.8 10.6 10.3	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 16.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.3\\ 15.1\\ 15.0\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\\ 13.7\end{array}$	6.4 6.4 6.2 5.6 5.6 5.6 5.4 5.2 5.3 5.2 5.2 5.1 5.0 4.9 4.8 4.8 4.7 4.6 5.4.4 4.3	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.4 4.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2 3.2 3.2 3	3.1 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	
09-04-24 09-05-24 09-06-24 09-07-24 09-09-24 09-09-24 09-10-24 09-10-24 09-11-24 09-13-24 09-13-24 09-15-24 09-15-24	1.0 0.9 0.7 0.6 0.4 0.3 0.2 0.1 0.0 -0.1 -0.3 -0.3 -0.4 -0.6 -0.7 -0.8 -1.0 -1.0 -1.1 -1.2 -1.3	$\begin{array}{c} 10.3\\ 10.2\\ 2\\ 9.9\\ 9.7\\ 9.6\\ 9.5\\ 9.4\\ 9.3\\ 9.1\\ 9.0\\ 8.9\\ 8.8\\ 8.7\\ 8.5\\ 8.4\\ 8.3\\ 8.3\\ 8.3\\ 8.2\end{array}$	6.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 4.6 5.4 4.3 4.5 4.4 1.3 9.9 3.7 5.3 3.3 3.1	14.3 13.9 13.6 13.4 13.3 13.1 13.1 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4 11.1 10.8	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 15.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.3\\ 15.1\\ 15.0\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\end{array}$	6.4 6.4 6.2 6.0 5.8 5.6 5.4 5.2 5.3 5.2 5.2 5.1 5.0 4.9 4.8 4.8 4.7 4.4 4.5 5.4.4	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2 3.1 3.1	3.1 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.3 3.2 3.1 3.1 3.3 3.2 3.2 3.1 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.2 4.4 2.4 4.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-09-24 09-10-24 09-11-24 09-12-24 09-13-24 09-13-24 09-13-24 09-17-24 09-18-24 09-18-24 09-20-24 09-22-24 09-22-24 09-22-24 09-22-24	1.0 0.9 0.7 0.6 0.4 0.4 0.3 0.2 0.4 0.4 0.3 0.2 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	10.3 10.2 9.9 9.6 9.5 9.4 9.4 9.4 9.3 9.1 9.0 9.0 9.0 9.0 8.8 8.7 8.5 8.4 8.3 8.3 8.2 8.1 8.0	6.0 5.8 5.6 5.5 5.4 5.5 5.4 5.5 5.4 5.5 5.4 5.2 5.1 5.0 4.9 4.8 4.7 4.6 4.5 5.4 4.4 4.3 3.9 3.7 3.5 5.3 3.3 11 2.9 2.6 6	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4 11.1 10.8 10.6 10.3 10.2	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 16.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.3\\ 15.1\\ 15.0\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\\ 13.7\\ 13.5 \end{array}$	6.4 6.2 6.0 5.8 5.6 5.6 5.6 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.4 3.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2 3.2 3.1 3.1	3.1 3.1 3.2 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	2.6 2.8 2.9 3.1 3.1 3.1 3.3 3.2 3.1 3.1 2.5 2.5 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	
09-04-24 09-05-24 09-06-24 09-07-24 09-09-24 09-09-24 09-10-24 09-10-24 09-11-24 09-11-24 09-13-24 09-15-24 09-15-24 09-15-24 09-28-24 09-22-24 09-22-24 09-22-24 09-22-24 09-25-24 09-25-24	$\begin{array}{c} 1.0\\ 0.9\\ 0.7\\ 0.6\\ 0.4\\ 0.3\\ 0.2\\ 0.1\\ 0.0\\ 0.4\\ 0.6\\ 0.7\\ 0.8\\ 0.6\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.7\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8\\ 0.8$	10.3 10.2 9.9 9.6 9.5 9.4 9.5 9.4 9.5 9.4 9.5 9.4 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.4 9.5 9.5 9.5 9.4 9.5 9.5 9.5 9.5 9.4 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	6.0 6.0 5.8 5.6 5.5 5.4 5.3 5.2 2.5 5.1 1.5.0 9 4.8 4.7 7 4.6 6 4.4 4.3 4.1 1.3.9 9.7 3.5 3.3 3.1 1.2.9 2.6 2.5 5.1 1.5.0 0.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.5 1.5.0 0.	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.5 12.4 12.5 12.4 12.5 12.4 12.5 12.4 12.9 11.8 11.6 11.5 11.4 11.6 11.5 11.4 11.6 10.3 10.2 10.0	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 16.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.5\\ 15.4\\ 15.7\\ 15.6\\ 14.8\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\\ 13.7\\ 13.5\\ 13.4\end{array}$	6.4 6.2 6.0 5.8 5.6 5.6 5.6 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.4 3.3 3.3 3.3 3.3 3.2 3.2 3.2 3.2 3.1 3.1	3.11 3.2 3.3 3.4 3.6 6 3.6 6 3.6 3.6 3.6 3.6 3.3 3.0 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8	2.66 2.68 2.99 3.11 3.11 3.11 3.12 3.12 3.11 2.55 2.55 2.44 2.44 2.44 2.44 2.44 2.44	
09-04-24 09-05-24 09-06-24 09-07-24 09-08-24 09-10-24 09-10-24 09-11-24 09-12-24 09-13-24 09-13-24 09-13-24 09-13-24 09-15-24 09-12-24 09-22-24 09-22-24 09-22-24 09-22-24	$\begin{array}{c} 1.0\\ 0.9\\ 0.7\\ 0.6\\ 0.4\\ 0.3\\ 0.2\\ 0.1\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0$	10.3 10.2 10.0 9.9 9.7 9.6 9.5 9.4 9.3 9.3 9.3 9.1 9.0 9.0 9.0 9.0 9.0 8.9 8.9 8.5 8.4 8.5 8.4 8.5 8.4 8.3 8.3 8.2 8.1 1 8.0 7.9	6.0 4.0 5.8 5.6 5.5 5.4 5.3 5.2 5.1 5.0 4.9 4.8 4.7 7 4.6 6 4.4 4.3 4.1 1.3 99 3.7 7 3.5 5.3 3.3 1.1 2.9 9 2.6 6 2.5 2.3 3.1	14.3 13.9 13.6 13.4 13.3 13.1 13.0 12.8 12.7 12.5 12.4 12.2 12.1 12.0 11.9 11.8 11.6 11.5 11.4 10.1 10.8 10.2 10.9 10.9 9.9	$\begin{array}{c} 17.5\\ 16.9\\ 16.6\\ 16.3\\ 16.1\\ 16.0\\ 15.8\\ 15.7\\ 15.6\\ 15.5\\ 15.4\\ 15.5\\ 15.4\\ 14.7\\ 14.6\\ 14.5\\ 14.3\\ 14.1\\ 14.0\\ 13.8\\ 13.7\\ 13.5\\ 13.4\\ 13.3\end{array}$	6.4 6.2 6.0 5.8 5.6 5.6 5.3 5.2 5.2 5.2 5.2 5.2 5.0 4.9 4.8 4.8 4.5 4.4 4.4 4.3 4.2 4.1 4.1	3.9 3.9 4.0 4.0 4.0 4.0 3.9 3.8 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	3.11 3.22 3.33 3.44 3.66 3.66 3.66 3.66 3.66 3.66	2.66 2.68 2.89 3.11 3.11 3.33 3.2 3.2 3.2 3.2 3.1 2.5 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4	

NOTE: STAGE FORECASTS ARE BASED ON FUTURE RAINFALL COVERING THE NEXT 48 HOURS.

END ORN

\$\$

MISSISSIPPI RIVER 45' DEEP DRAFT CROSSINGS

29-Aug-2024

				(Rav	v Water Depths	at the time of sur	vey)				
CROSSING NAME	MILEAGE	LWRP	DATE 2024	250 LDB	125 LDB	CENTERLINE	125 RDB	250 RDB	SHAPE	PROJECT DEPTH	DREDGE
Upper Baton Rouge	232.5	2.6	16-Aug	49.5	45.5	46.5	44.5	44.5	XXXX	48.1	
Baton Rouge	231.0	2.6	16-Aug	54.5 G H	54.5 G H	54.5 J K	55.0 F G	48.5 ЈК	XXXX	53.1	
Red Eye	224.0	2.4	28-Aug	47.0 F	51.0 E	49.5 E	47.5 B	49.5 G H	53.0	49.2	
Sardine Point	219.3	2.3	28-Aug	48.5	50.0	49.0	48.0	47.0	49.0	49.1	HURLEY
Medora	212.0	2.1	28-Aug	47.0 C D	49.5 D	52.5 C D	52.5 C D	45.0 C	51.0	48.8	
Granada	204.3	1.9	28-Aug	45.5 A B	49.5 F G	51.5 F G	51.5 F G	50.5 F G	52.5	48.6	
Bayou Goula	197.8	1.8	26-Aug	53.0 F G	52.0 C D	52.0 H I	52.0 H I	48.5 E F	54.0	48.6	
Alhambra	190.5	1.7	27-Aug	48.5 E	50.0 A B	50.5 E	50.5 D	46.5 E F	54.5	48.0	McGEORGE
Philadelphia	183.0	1.5	26-Aug	51.5 F G	51.5 F G	52.0 F G	50.5 I J	51.0 G H	52.0	48.0	
Smoke Bend	174.2	1.4	27-Aug	54.5	53.0	53.5	53.0	53.0	XXXX	52.3	
Rich Bend	158.5	1.2	26-Aug	52.0	54.5	59.0	60.0	60.0	XXXX	52.4	
Belmont	154.0	1.2	26-Aug	51.0	52.0	53.0	53.0	51.0	XXXX	52.3	
Fairview	115.7	0.7	23-Aug	61.5	59.5	59.0	57.5	53.5	XXXX	52.0	

An asterisk (*) indicates survey data was incomplete or off-line due to dredging operations. Shallower depths may exist in areas not adequately surveyed. See plotted survey on our "Mississippi River Crossings - Full and Profiles Only" webpage for more detailed depth information.

							DATE		
NAVD GAUGE	MILEAGE	LWRP	16-Aug	23-Aug	26-Aug	27-Aug	28-Aug		
Baton Rouge	228.4	2.5	10.7	7.8	7.2	6.8	6.9		
Donaldsonville	173.6	1.4	5.6	4.1	3.9	3.7	3.7		
Reserve	138.7	1.0	4.4	3.9	3.2	3.1	3.1		
New Orleans	102.8	0.6	3.2	2.1	2.0	2.3	2.4		

"LDB" and "RDB" = left and right descending banks, respectively.

For additional survey data, visit our Navigation Condition Survey website at

http://www.mvn.usace.army.mil/Missions/Navigation/ChannelSurveys.aspx

DISCLAIMER:

Hydrographic survey data is subject to change rapidly due to several factors including but not limited to dredging activity and natural shoaling and scouring processes. The U. S. Army Corps of Engineers accepts no responsibility for changes in the hydrographical conditions which develop after the date of publication.

NOTICE:

This data is intended for U. S. Army Corps of Engineers' internal use. This agency accepts no responsibility for errors or omissions contained in this data. The accuracy of this data is, therefore, not guaranteed. Prudent mariners should not rely solely upon it.