

36354089285900
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9-275-1	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	1
Station Number		ADCP Discharge Measurement Notes				Processed by	SS
Station Name		NEW MADRID F.W. ON FLOWS				Checked by	TK
Date	5-3-2011	Party	ESS/CSB	Gage Height	132.00	18,600-TK	
Width	108,000	Velocity	1.22	Index Vel.	—	Discharge	
Gage Height Change	in hrs.	Meas. plots	From rating	Shift	ADCP Sync'd to WT	132.00	
ADCP Mfr / Model / Frequency	Serial No.	Firmware	Software				
RD1210 / 602	11170	10.16	2.07				
Boat/Motors Used	GPS Used	ADCP Depth	Diag. Test / Errors?				
NO WSC WORKS KIFFE T21218. AG. 1.4 / .8			Y or N				
Compass Calib. & Total Error	Mag. Var	MagVar Method	Moving Bed?				
Y or N	1.1	-1.6	Y or N				
Meas. Water Temp	ADCP Water Temp	Weather	Air Temp	Wind Speed / Dir.			
14.8 °F @ 15.1 F / 60	PC WARM F/C	10-20	NNW				
Gage Readings				Site Conditions			
Time	Inside	Outside	Max Water Depth	44			
1711			Max Water Speed				
1844			Max Boat Speed				
			Water Mode	12			
			Bottom Mode	5			
			Streambed material				
			Salinity				
			ppt at				
Weighted MGH			Checkbar found				
GH corrections			Checkbar changed to:				
Correct MGH			at				
Wading, cable, ice, boat, upstr., downstr., side bridge				ft., mi. upstr., downstr. of gage			
Measurement rated: excellent (2%) good (5%) fair (8%) poor (>8%)				based on following conditions			
Flow	EVEN						
Cross section:	FAMILY E&N						
Control:							
Gage operating:	Y or N	Record removed:	Y or N	Filename:			
Battery voltage	V	Intakes/Orifice cleaned/purged:					
Bubble-gage psi:	Tank	Line	Bubble rate	/ min			
Extreme-GH indicators:	Max	Min	CSG Checked	Y or N			
HWM on stick	Ref elev.	HWM elevation					
GH of zero flow = GH	- depth at control	ft.	Rated =				
Sheet No.		of	sheets				

Measurements made at two different locations (36354089285900 and 363524089302700) and combined on this sheet.

Number:

Meas. No:

on Name: Outflow breach above New Madrid

Date: 05/03/2011

arty: ESS/CSB

Width: 4,190 ft

Processed by: ESS

Boat/Motor: MO WSC Workskiff

Area: 50,300 ft²

Mean Velocity: 0.371 ft/s

Gage Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: 18,600 ft³/s

Area Method: Avg. Course

ADCP Depth: 0.800 ft

Index Vel.: 0.00 ft/s

Rating No.: 1

Nav. Method: DGPS

Shore Ens.:10

Adj.Mean Vel: 0.00 ft/s

Qm Rating: P

MagVar Method: Model (-1.6°)

Bottom Est: Power (0.1667)

Rated Area: 0.000 ft²

Diff.: 0.000%

Depth Sounder: Not Used

Top Est: Power (0.1667)

Control1: Unspecified

Control2: Unspecified

Control3: Unspecified

Screening Thresholds:

BT 3-Beam Solution: YES

Max. Vel.: 3.91 ft/s

ADCP: Type/Freq.: Rio Grande/600 kHz

WT 3-Beam Solution: NO

Max. Depth: 18.9 ft

Serial #: 11170

Firmware: 10.16

BT Error Vel.: 0.33 ft/s

Mean Depth: 12.0 ft

Bin Size: 50 cm

Blank: 25 cm

WT Error Vel.: 3.50 ft/s

% Meas.: 46.20

BT Mode: 5

BT Pings: 1

BT Up Vel.: 1.00 ft/s

Water Temp.: 14.9 °C

WT Mode: 12

WT Pings: 1

WT Up Vel.: 6.00 ft/s

ADCP Temp.: 15.3 °C

WV : 175

WO : 1, 7

Use Weighted Mean Depth: YES

Performed Diag. Test: NO

Project Name: LeveeBreachaboveNewMadrid

Performed Moving Bed Test: NO

Software: 2.07

Performed Compass Test: NO

Meas. Location:

Tr.#	Edge Distance		#Ens.	Discharge						Width	Area	Time		Mean Vel.		% Bad	
	L	R		Top	Middle	Bottom	Left	Right	Total			Start	End	Boat	Water	Ens.	Bins
001 L	23	30	2340	5579	8588	4269	97.8	53.6	18588	4193	50327	18:27	18:44	4.25	0.37	9	5
Mean	23	30	2340	5579	8588	4269	97.8	53.6	18588	4193	50327	Total	00:17	4.25	0.37	9	5
SDev																	
SD/M																	

Remarks: Section 2 of total outflow

Station 363454 087285900
Qm = 18,600