

Mississippi River ^{blw Confluence} ~~CAIRO~~ 21061000

9-275-I	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
265639089060600				Checked by	FE
Station Name		MISSISSIPPI R. DELTA LEVEL BREAK + BIRD POINT			
Date	5-3-2011	Party ESS/CSS			
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge
8520	575,000	2.88	-	-	1650,000
Gage Height Change	Meas. plots	From rating	Shift	ADCP Sync'd to WT	
- in - hrs.	- % diff	No.:	-	(Y) at - or N	
ADCP Mfr / Model / Frequency		Serial No.	Firmware	Software	
RD1 / RD1 600		11170	10.16	2.07	
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?	
MOLSC WORKSHEET TRIMB AG.		1.40		(Y) or (N)	
Compass Calib. & Total Error		Mag. Var	MagVar Method	Moving Bed?	
(Y) or N		- 8	- 1.6	(Y) or N	
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp	Wind Speed / Dir.	
16.5 °F at		15.4 °F at	PC cool °F/C	0-10 WNW	
Gage Readings			Site Conditions		
Time			Inside	Outside	Max Water Depth
					90.7
					Max Water Speed
1119	(S)				Max Boat Speed
					Water Mode
1206	(F)				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:			ANGLE TRACK TO MEAS. ALL		
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	

Station Number:

Meas. No:

Station Name: Mississippi below Levee Breach

Date: 05/03/2011

Party: ESS/CSB

Width: 8,520 ft

Processed by: ESS

Boat/Motor: MO WSC Workskiff

Area: 575,000 ft²

Mean Velocity: 2.88 ft/s

Gage Height: 0.00 ft

G.H.Change: 0.000 ft

Discharge: 1,650,000 ft³/s

Area Method: Avg. Course

ADCP Depth: 1.400 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: F

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.: 15.5 ft/s

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

WT 3-Beam Solution: NO

Max. Depth: 90.7 ft

Serial #: 11170

Firmware: 10.16

BT Error Vel.: 0.33 ft/s*

Mean Depth: 67.4 ft

Bin Size: 50 cm

Blank: 25 cm

WT Error Vel.: 3.50 ft/s

% Meas.: 84.37

BT Mode: 5

BT Pings: 1

BT Up Vel.: 1.00 ft/s

Water Temp.: 16.5 °C

WT Mode: 12

WT Pings: 1

WT Up Vel.: 12.00 ft/s

ADCP Temp.: 15.4 °C

WV : 254

WO : 1, 21

Use Weighted Mean Depth: YES

Performed Diag. Test: YES

Project Name: MissBelowBreach050311_0.m

Performed Moving Bed Test: NO

Software: 2.07

Performed Compass Test: YES

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
000 L	250	158	1388	94952	1462431	148532	-2562	-521	1702833	8848	628967	11:19	11:35	9.68	2.71	0	1
001 R	800	187	2514	88515	1321694	130593	53875	2357	1597033	8193	521699	11:36	12:06	4.33	3.06	2	1
Mean	525	173	1951	91733	1392063	139563	25656	918	1649933	8520	575333	Total	00:47	7.00	2.88	1	1
SDev	389	21	796	4552	99516	12685	39907	2034	74812	463.1	75849.9		3.78	0.25			
SD/M	0.74	0.12	0.41	0.05	0.07	0.09	1.56	2.22	0.05	0.05	0.13		0.54	0.09			

Remarks:

2 x sheets
per large
transverse col

- transect has been subsectioned

* - value not consistent for all transects