

SiteVisit ver. Version 4.11 Build 20110815

**U.S. DEPARTMENT OF THE INTERIOR  
U.S. Geological Survey**

Meas #: 2922

Stylesheet ver. 1.3.0W

**DISCHARGE MEASUREMENT AND  
GAGE INSPECTION NOTES**

Processed by \_\_\_\_\_

Checked by \_\_\_\_\_

**Site Visit Summary****07022000 - Mississippi River at Thebes, IL**

Date: 2011-05-03

Start Time: 15:50

End Time:

Party: JRM/TW

**Discharge Measurement Summary****Meas No: 2922**

Gage Ht: 43.4 ft.

Total Meas Flow: 730000 cfs

Meas Start Time: 15:50:00

Meas End Time:

Meas Rated: Unspecified

Base Flow? Unspecified

Meas. plots: \_\_\_\_\_% Different from rating no. \_\_\_\_\_ Indicated shift: \_\_\_\_\_

**Channel 1 () Summary - Measurement****Unspecified Measurement**

Meas Flow: 730000 cfs

Vel Method:

Horiz Flow: Unspecified

Vel Desc: Unspecified

Vert Vel Desc: Unspecified

Channel Conditions: Unspecified , Unspecified , Unspecified

Sect Loc.: Unspecified - ft. to gage

Party: JTL/TGW	Width: 3,490 ft	Processed by: TGW
Boat/Motor: Workskiff	Area: 117,000 ft <sup>2</sup>	Mean Velocity: 6.24 ft/s
Gage Height: 0.00 ft	G.H.Change: 0.000 ft	Discharge: 730,000 ft <sup>3</sup> /s

Area Method: Avg. Course	ADCP Depth: 1.300 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 (-1.0°)	Bottom Est: Power (0.1667)	Rated Area: 0.000 ft <sup>2</sup>	Diff.: 0.000%
Depth Sounder: Not Used	Top Est: Power (0.1667)	Control1: 4-Clear	
		Control2: Unspecified	
		Control3: Unspecified	

Screening Thresholds:		ADCP:
BT 3-Beam Solution: YES	Max. Vel.: 16.9 ft/s	Type/Freq.: Rio Grande / 600 kHz
WT 3-Beam Solution: NO	Max. Depth: 66.8 ft	Serial #: 12728      Firmware: 10.17*
BT Error Vel.: 0.33 ft/s*	Mean Depth: 33.5 ft	Bin Size: 18 cm*      Blank: 25 cm*
WT Error Vel.: 32.81 ft/s*	% Meas.: 82.31	BT Mode: 5      BT Pings: 1
BT Up Vel.: 32.81 ft/s*	Water Temp.: None	WT Mode: 12*      WT Pings: 1
WT Up Vel.: 32.81 ft/s*	ADCP Temp.: 14.2 °C	WV : 170*      WO : 1, 4*
Use Weighted Mean Depth: YES		

Performed Diag. Test: YES  
 Performed Moving Bed Test: YES  
 Performed Compass Test: YES  
 Meas. Location: 1200 US

Project Name: THEBES 05 03 2011.mmt  
 Software: 2.08

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
004	R	600	450	1441	57896	569876	96420	1547	4418	730157	3495	115483	16:06	16:19	3.63	6.32	16	9
000	L	465	669	413	45060	653022	58623	1356	5925	763985	3495	118293	15:21	15:32	4.27	6.46	2	8
001	R	450	669	459	40795	561799	79804	271	6431	689100	3482	118502	15:32	15:43	3.64	5.81	14	17
002	L	450	750	368	43986	619455	67199	1066	6008	737714	3491	115693	15:43	15:52	4.68	6.38	6	10
<b>Mean</b>		491	634	670	46934	601038	75511	1060	5696	730239	3491	116993	<b>Total</b>	21:10	4.06	6.24	9	11
<b>SDev</b>		73	129	515	7529	43021	16431	562	880	31022	5.9	1626.5			0.51	0.29		
<b>SD/M</b>		0.15	0.20	0.77	0.16	0.07	0.22	0.53	0.15	0.04	0.00	0.01			0.13	0.05		

Remarks:

\* - value not consistent for all transects

Discharge for transects in *italics* have a total Q more than 5% from the mean