

LOCK MAINTENANCE WORKSHOP

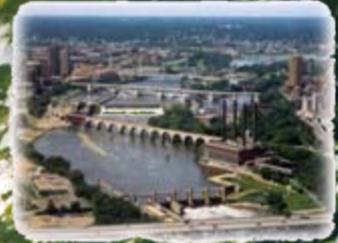
Pittsburgh, Pennsylvania

February 15, 2011

Mr. Steve Jones
Navigation Manager
Mississippi Valley Division



US Army Corps of Engineers
BUILDING STRONG



Mississippi River Dredging





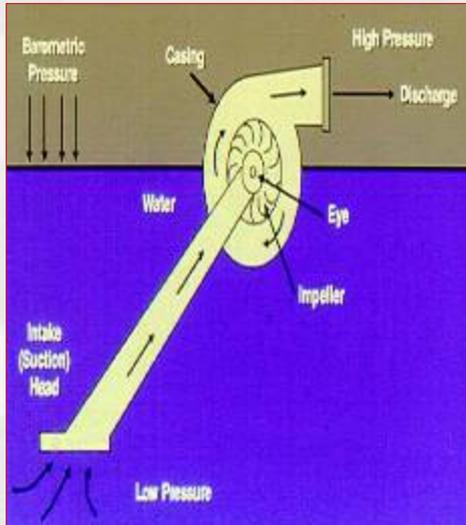
Navigation System



Dredge Types



- Cutterhead



- Hopper



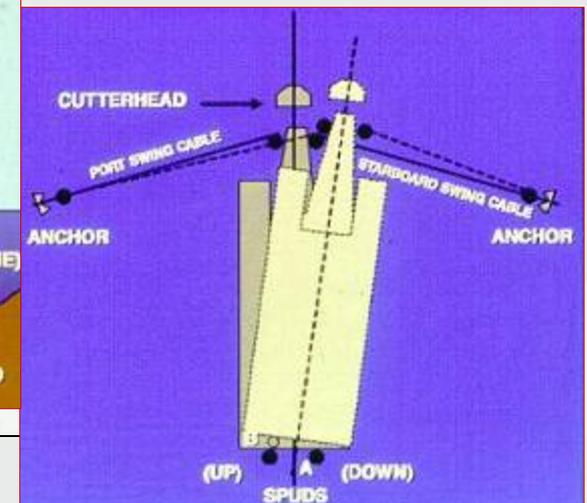
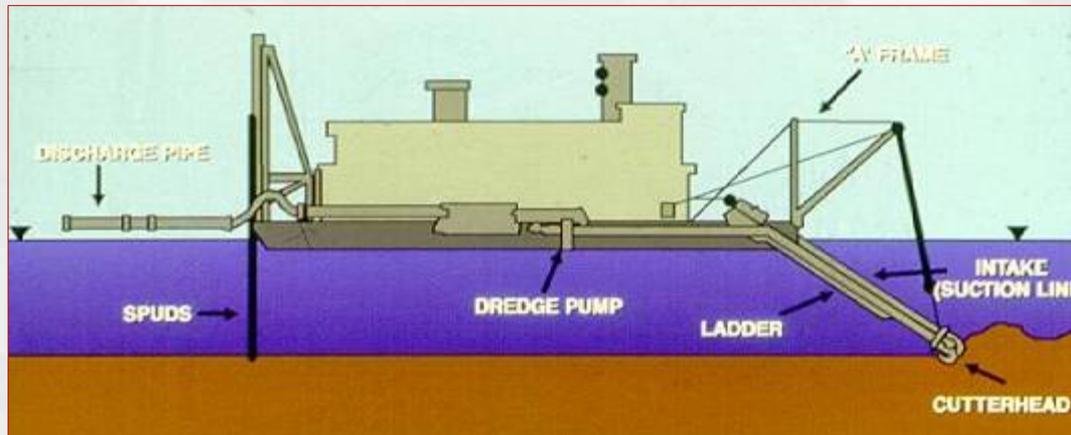
- Dustpan



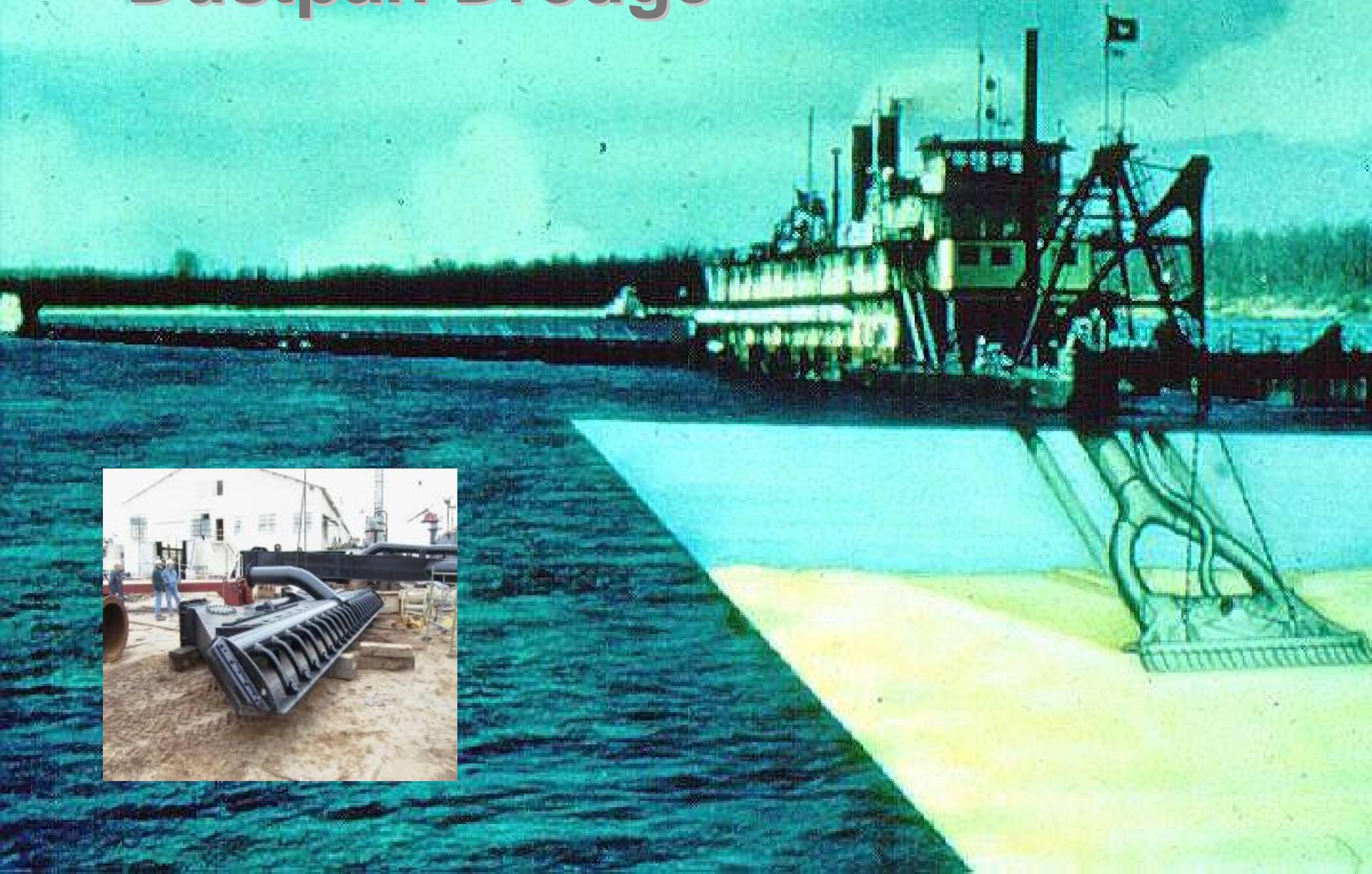
Cutterhead Dredge



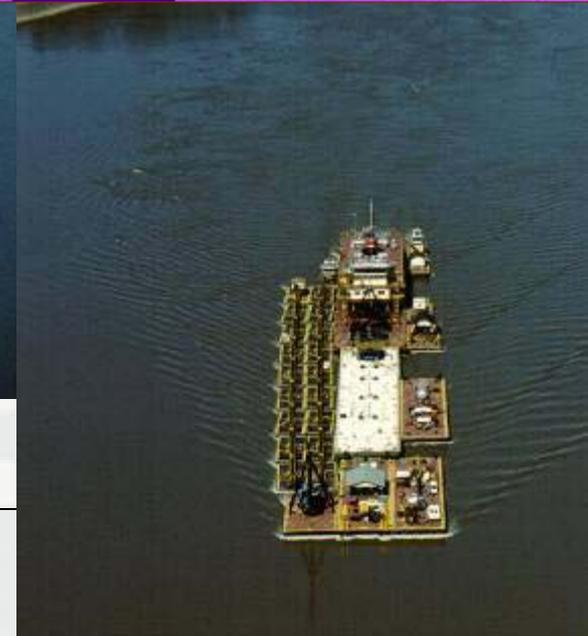
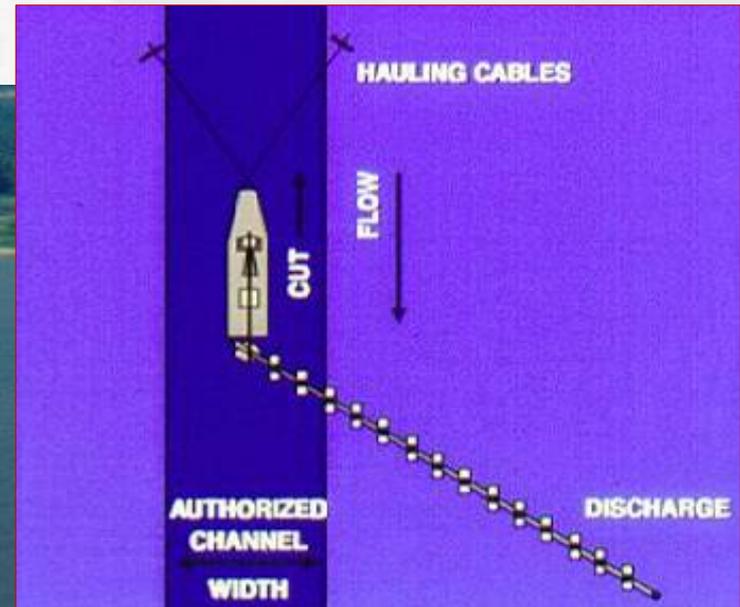
Cutterhead Dredge



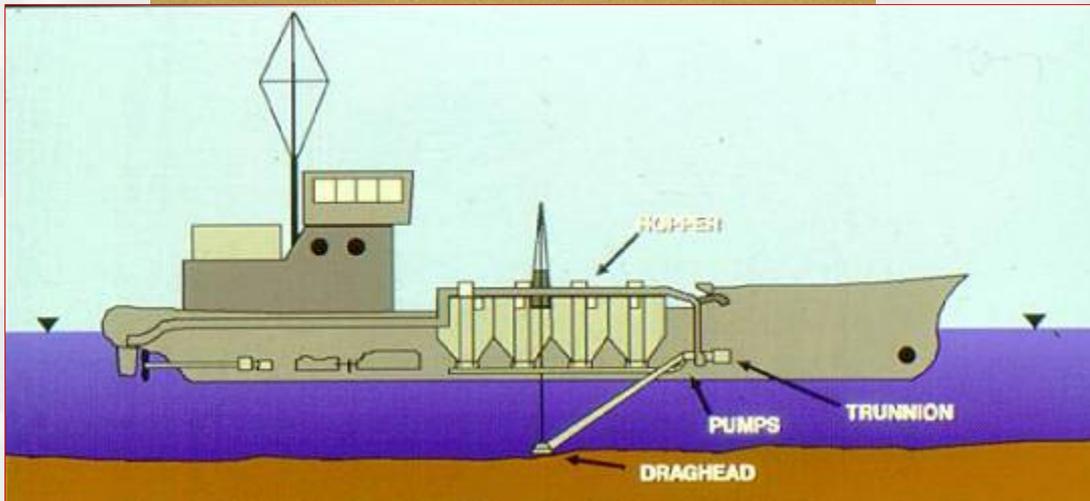
Dustpan Dredge



Dustpan Dredge



Hopper Dredging



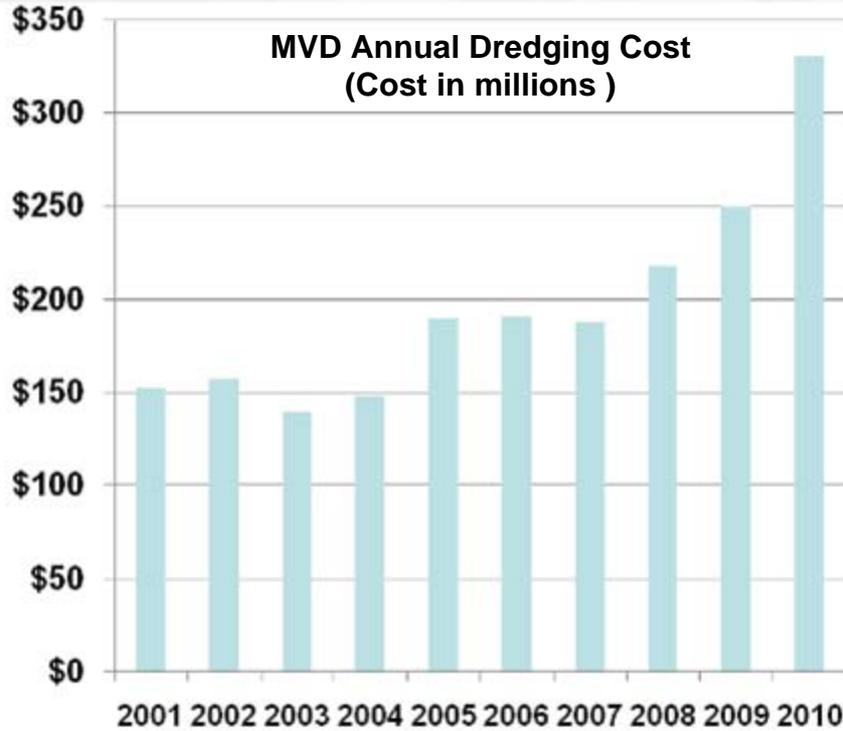


Hopper Dredging

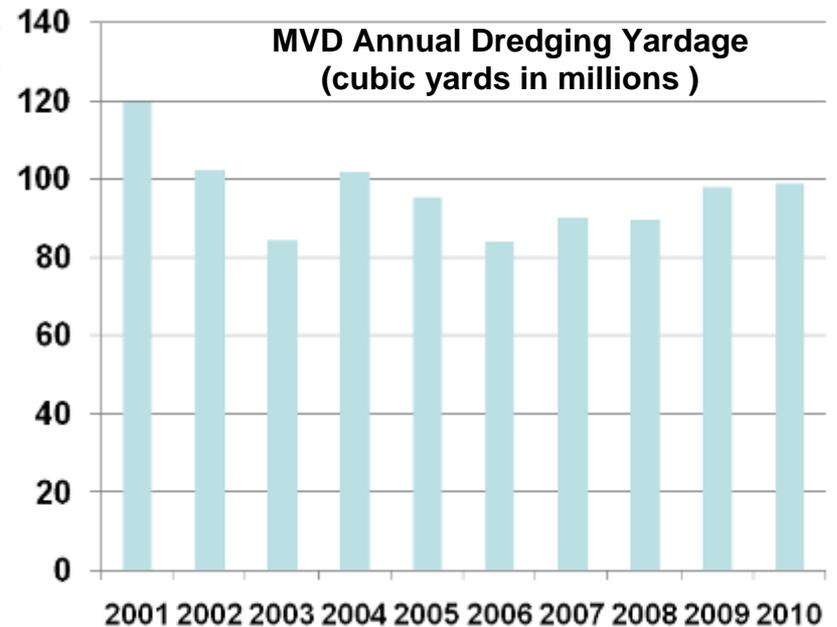


Dredging Statistics

Average Yardage
100 million



Average Cost
\$200 million





Cutterhead Dredges

\$115 mil /year

Pooled Areas

Harbors

Tributaries

Coastal Channels



Dustpan Dredges

\$35 mil / year

Lower Miss River



Hopper Dredges

\$50 mil / year

Deep Draft Open Seas
Mouth of Mississippi River



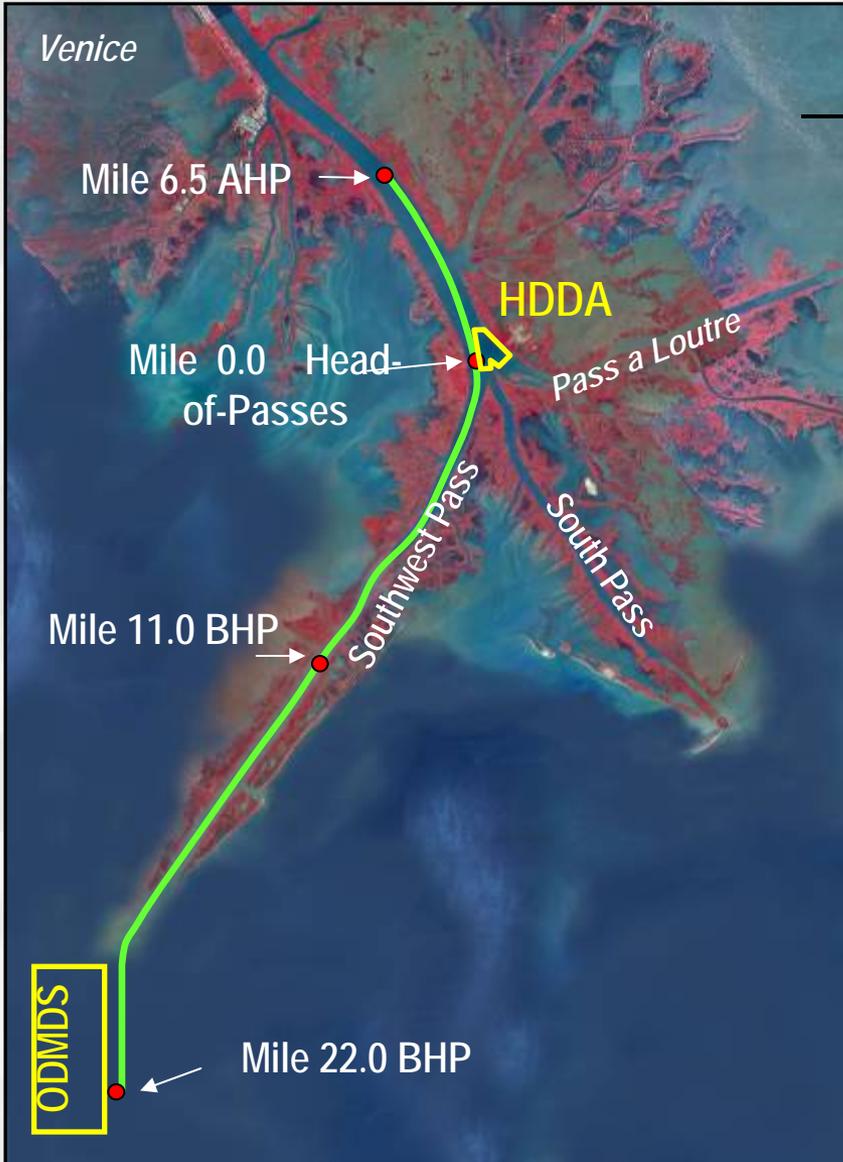


Mississippi River, Baton Rouge to the Gulf of Mexico

- #1 Largest Port Complex in the United States
- U.S. Rankings:
 - #1 - Port of South Louisiana
 - #6 - Port of New Orleans
 - #13 - Port of Plaquemines
 - #14 - Port of Baton Rouge
- 500 M Tons of Cargo/year
- 27 Deep Draft Vessels/Day entering/exiting Southwest Pass



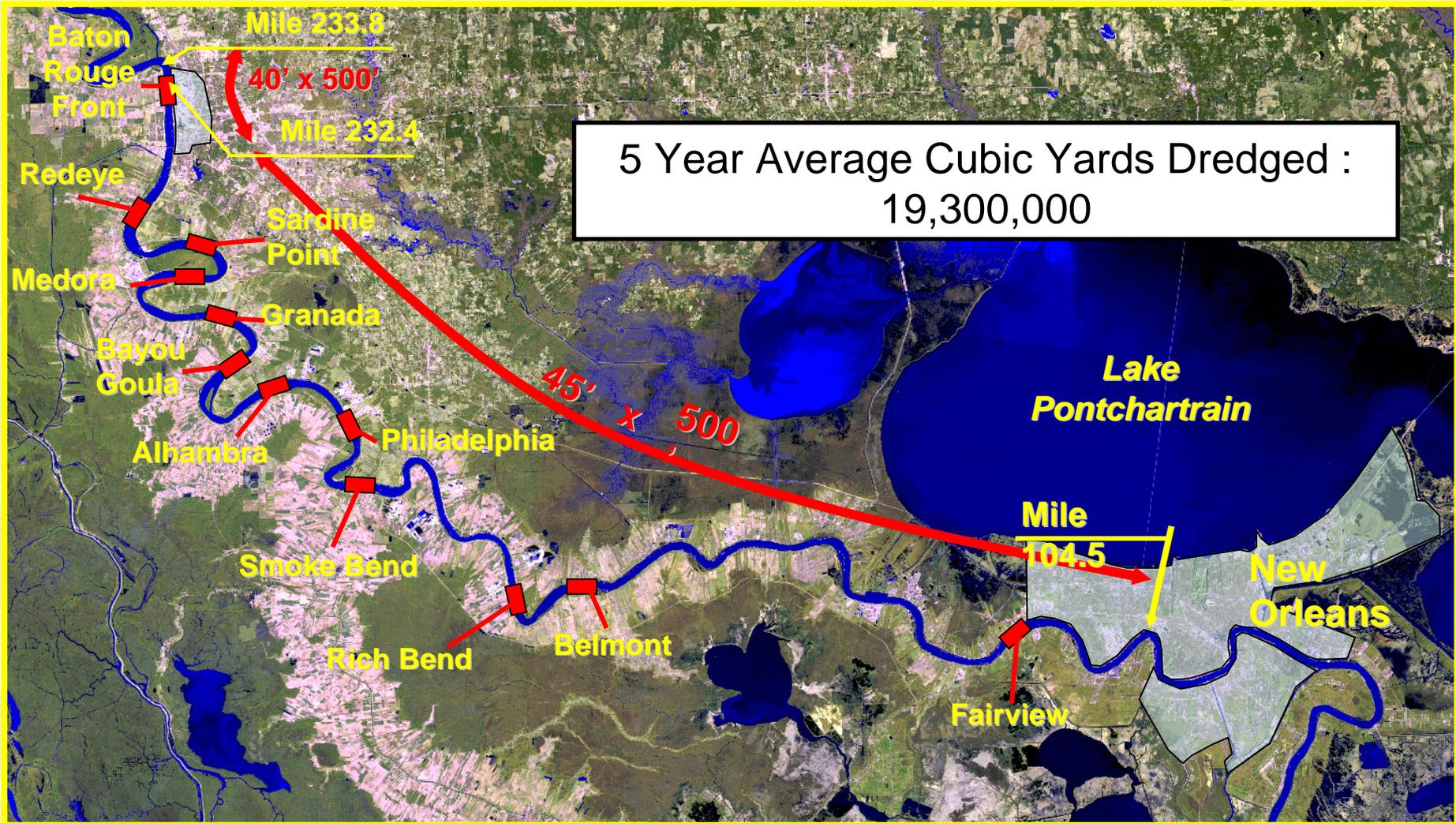
Mouth of Mississippi River



- Numerous outlets; without structures or dredging Depth <20'
- Only one route for Deep Draft Navigation
- Southwest Pass
- Eads originally jettied South Pass
- **27 Deep Draft plus Hundreds more shallow Vesselsdraft pass through Southwest Pass daily**
- During high water shoals can shoal as much as 10' in a day.
- Sometimes as many as 7 dredges needed to maintain depth.



Mississippi River Deep Draft Crossings



FY 2011 Dredging Schedule

President's Budget \$ 62,969,000.00
Oil Spill Mitigation - Cutterhead \$ 10,000,000.00
Tot. Obligated \$ 1,127,914.00
Available \$ 71,841,086.00

Complete
Base
Option

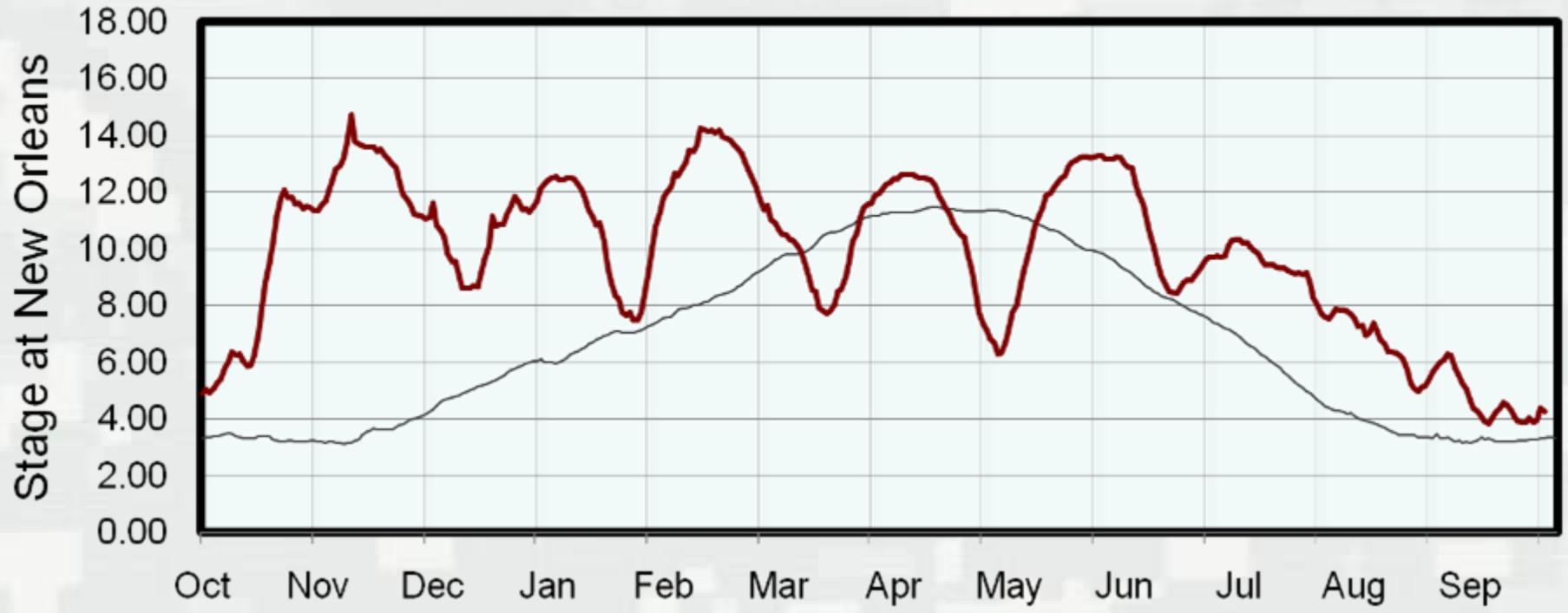
— Hydrograph
— Predicted Stages
--- 1935-2010 Avg Stage

ITEM	FY 11 Funds	Cubic Yards To Date	October	November	December	January	February	March	April	May	June	July	August	September	Carrollton Gage - Ft		
SWP HOPPER DREDGE #1-11	\$9,000,000	3,500,000														17.0	
SWP HOPPER DREDGE #2-11	\$4,500,000	1,750,000														16.0	
SWP HOPPER DREDGE #3-11	\$4,500,000	1,750,000														15.0	
SWP HOPPER DREDGE #4-11	\$4,500,000	1,750,000														14.0	
SWP HOPPER DREDGE #5-11	\$4,500,000	1,750,000														13.0	
																12.0	
																11.0	
WHEELER	\$6,650,000	2,500,000		Wheeler Shipyard 30 Nov - 21 Jan												10.0	
																9.0	
Oil Spill Mitigation - Cutterhead	\$10,000,000	3,000,000														8.0	
NEW ORLEANS HARBOR #1-11	\$4,000,000	1,000,000														7.0	
																6.0	
DUSTPAN (PINE BLUFF) Wallace McGeorge	\$10,200,000	6,000,000														5.0	
1-Dustpan Dredge (Jadwin or Hurley)	\$5,300,000	6,000,000														4.0	
																3.0	
Operations and Maintenance	\$9,819,000																2.0
																1.0	
																0.0	
FY 11 TOTAL:	\$72,969,000	29,000,000															



New Orleans Carrollton Gauge Stage Hydrographs

--- 1935-2008 Average — FY2010



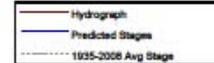
FY 10 Budget : \$52M
FY 10 Funded : \$118M



Report Date: 6-Jan-10

2010 Mississippi River, Baton Rouge to the Gulf Project Status

Complete Base - Funded Option - Funded Unfunded



ITEM	FY 10 Funds Anticipated	Cubic Yards To Date	October	November	December	January	February	March	April	May	June	July	August	September	Carrollton Gate - Ft	
SWP HOPPER DREDGE #10-08 Mansoni	\$3,800,400	1,338,197	80 Awd 1022 1022	1024	1025	1026									Unfunded	17.0
SWP HOPPER DREDGE #11-09 Mansoni	\$10,340,000	738,626	80 Awd 1118 1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	\$ 3,364,200	16.0
SWP HOPPER DREDGE #11-10 Great Lakes	\$12,788,420	0	80 Awd 1211 1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	\$ 4,100,140	15.0
SWP HOPPER DREDGE #3-10	\$4,850,000	0	80 Awd												\$ 1,750,000	14.0
SWP HOPPER DREDGE #4-10	\$4,850,000	0	80 Awd												\$ 1,750,000	13.0
SWP HOPPER DREDGE #5-10	\$4,850,000	0	80 Awd												\$ 4,850,000	12.0
SWP HOPPER DREDGE #6-10	\$4,850,000	0	80 Awd												\$ 4,850,000	11.0
SWP HOPPER DREDGE #7-10	\$4,850,000	0	80 Awd												\$ 4,850,000	10.0
SWP CUTTER DREDGE #1-09 White	\$10,291,841	0	80 Awd 1217 1221												\$ 2,383,370	9.0
MCFARLAND	\$3,000,000															8.0
WHEELER	\$8,800,000	442,214													\$ 8,800,000	7.0
NEW ORLEANS HARBOR #1-09 Weeks	\$0	207,823	80 Awd 925 925	926	927	928	929	930	931	932	933	934	935	936	\$ 1,160	6.0
NEW ORLEANS HARBOR #1-10	\$4,000,000														\$ 4,000,000	5.0
NEW ORLEANS HARBOR #5-10	\$4,000,000														\$ 4,000,000	4.0
HSP HUDA CV CUTTER Great Lakes	\$0	503,842	80 Awd 817 817	818	819	820	821	822	823	824	825	826	827	828	Funded to FY 09	3.0
Operations and Maintenance	\$10,536,905															2.0
MR XINGS LEASED DUSTPAN (PINE BLUFF) Wallace McGeorge	\$8,100,000	3,377,280	822 822 823 823 824 824	825 825 826 826 827 827	828 828 829 829 830 830	831 831 832 832 833 833	834 834 835 835 836 836	837 837 838 838 839 839	840 840 841 841 842 842	843 843 844 844 845 845	846 846 847 847 848 848	849 849 850 850 851 851	852 852 853 853 854 854	855 855 856 856 857 857	\$ 6,228,571	1.0
JADWIN	\$10,594,000	1,047,310	818 818 819 819	820 820 821 821	822 822 823 823	824 824 825 825	826 826 827 827	828 828 829 829	830 830 831 831	832 832 833 833	834 834 835 835	836 836 837 837	838 838 839 839	840 840 841 841	\$ 8,000,000	0.0
FY 10 TOTAL:	\$112,892,216	7,375,482													FY 10 Total Unfunded \$ 80,524,281	



BUILDING STRONG®

MISSISSIPPI RIVER

5 YEAR FUNDING

Year	Conference Allocation	Supplementals/ Re-programmings	Total Funded
2006	\$ 48,648,000	\$ 6,300,000	\$ 54,948,000
2007	\$ 51,830,000		\$ 51,830,000
2008	\$ 54,973,000	\$ 60,179,000	\$ 115,152,000
2009	\$ 51,354,000	\$ 127,727,000	\$ 179,081,000
2010	\$ 51,740,000	\$ 66,300,000	\$ 118,040,000
Average	\$ 51,709,000	\$ 52,101,200	\$ 103,810,200
2011	\$62,969,000*	\$10,000,000 (Beneficial Use)	

Hurricane Katrina
Supp.

High Water Supp.

ARRA/
Hurricane Supp.

Supplemental
/Re-Programming

*Presidents Budget



Mississippi River, Baton Rouge to the Gulf Channel Change in Management Plan

HISTORIC MANAGEMENT PLAN:

The Mississippi River management plan was to maintain the navigation channel to full project dimensions at all times. Before shoaling occurred that threatened the channel, dredges were called out to preserve full project dimensions using the Miss. River annual budget, supplemental funds, or reprogramming funds from other projects.

FY 2011 NEW MANAGEMENT PLAN:

In FY 2011, we will manage the Mississippi River within the annual budget. We will schedule dredging assignments for the crossings, New Orleans Harbor and Southwest Pass for historical peak shoaling months to minimize adverse impacts to industry. We anticipate channel restrictions (both draft and width) will occur.



Questions

