

# Mississippi River Commission

## High Water Inspection

### *Baton Rouge, Louisiana*

April 16, 2010

**Col. Alvin “Al” Lee**  
*Commander, New Orleans District*



®

US Army Corps of Engineers  
**BUILDING STRONG**®

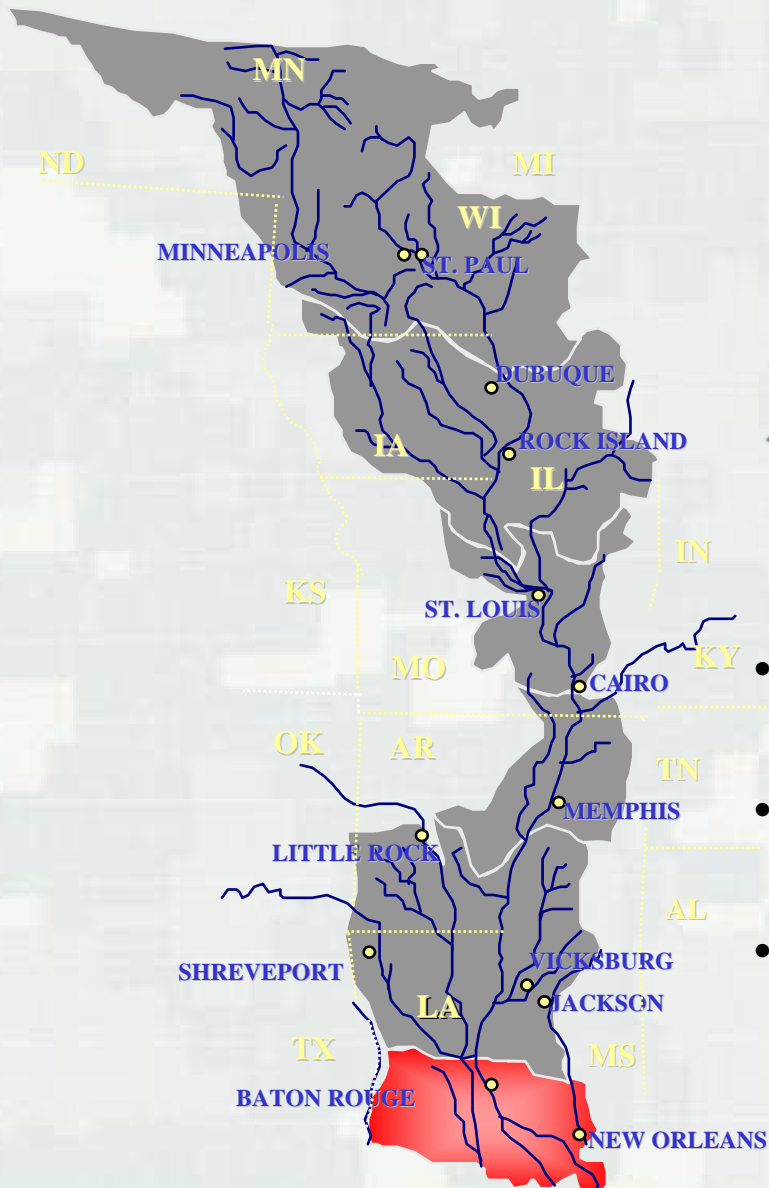




US Army Corps of Engineers

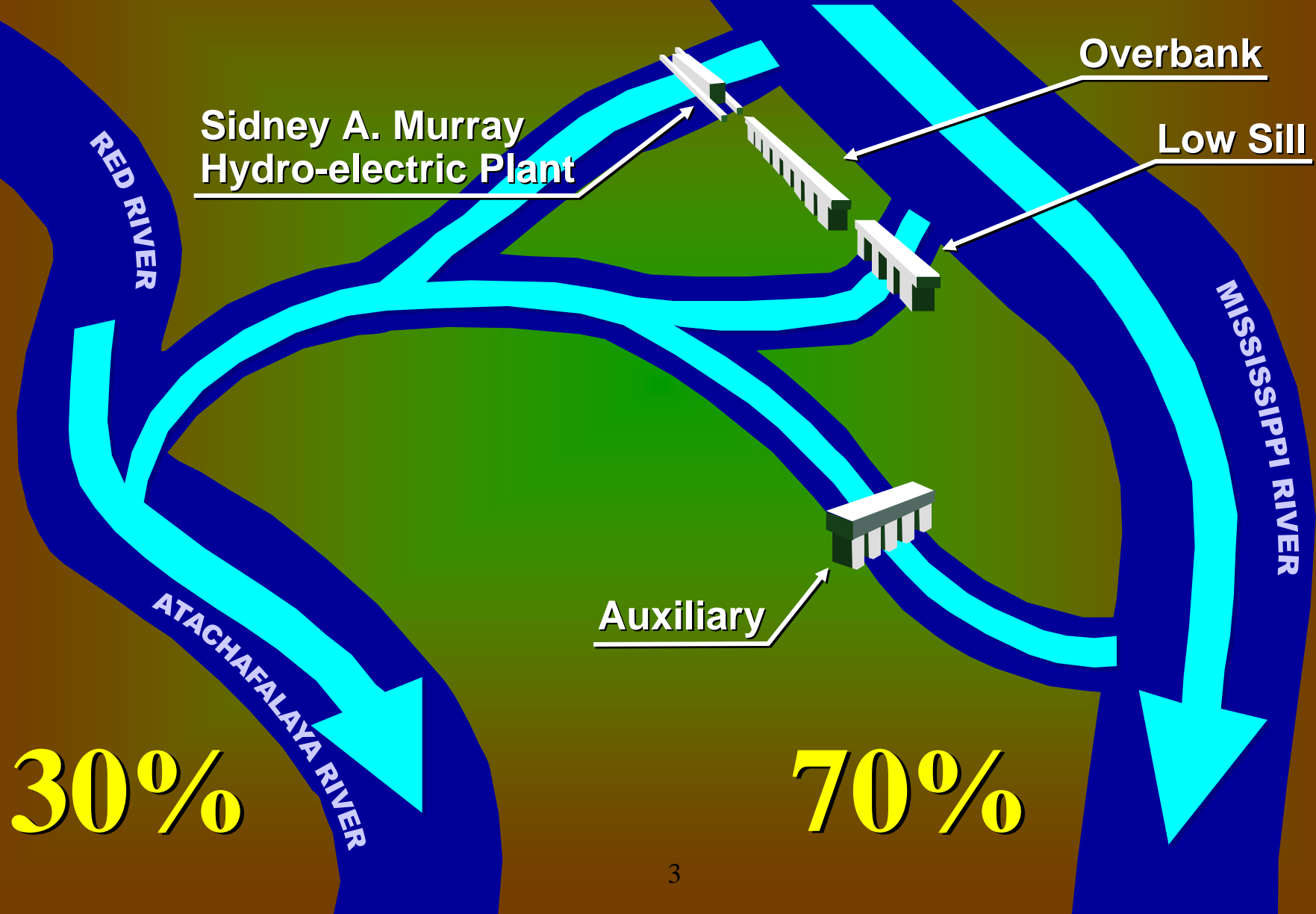


# New Orleans District



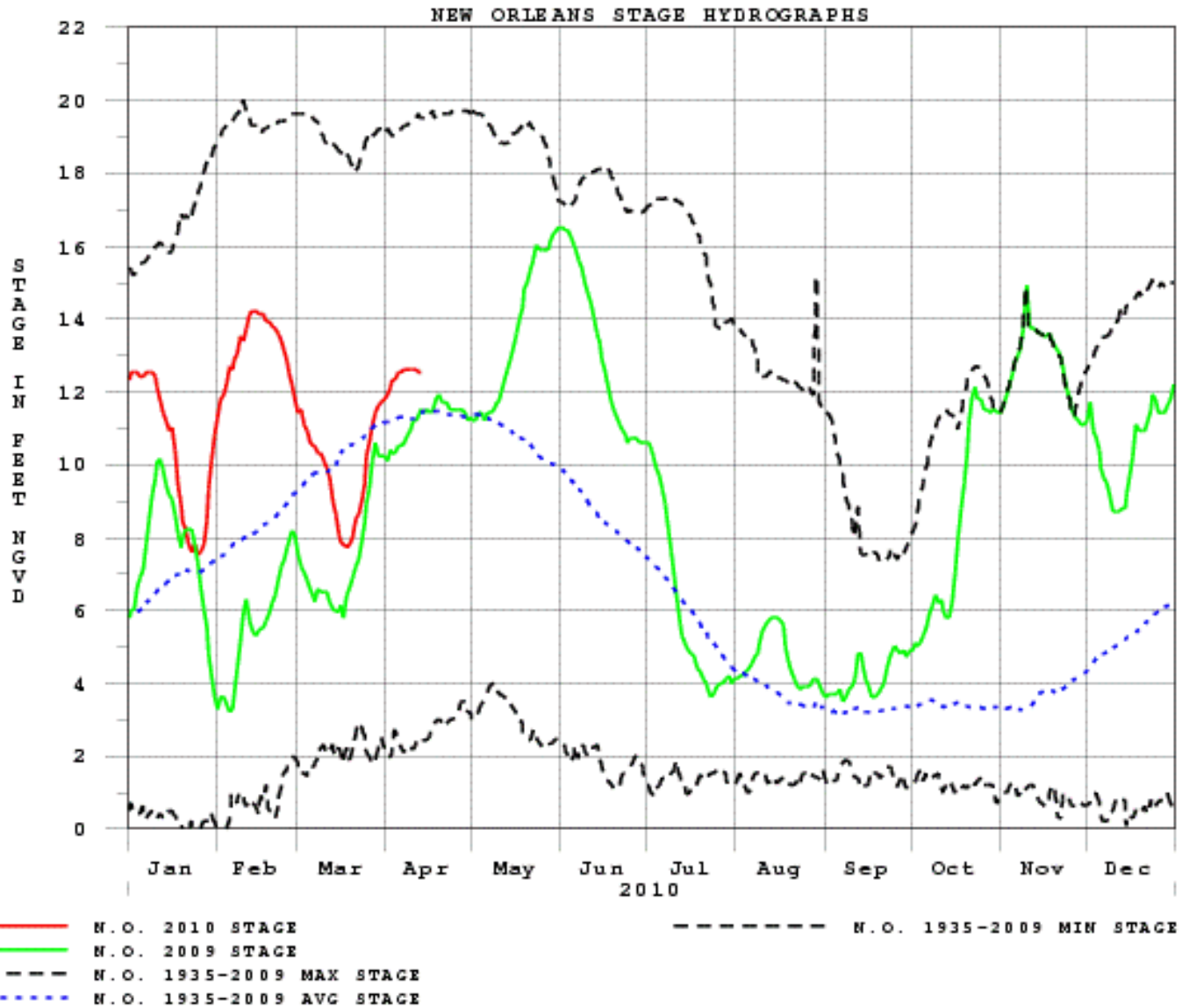
- 2,800 miles of navigable channel
- 14,500 miles of coastline
- 973 MR&T miles of levees
- 325 miles of hurricane levees
- 18 locks and control structures
- 15 pumping plants
- 13 recreation areas

# Latitude Flows at Old River



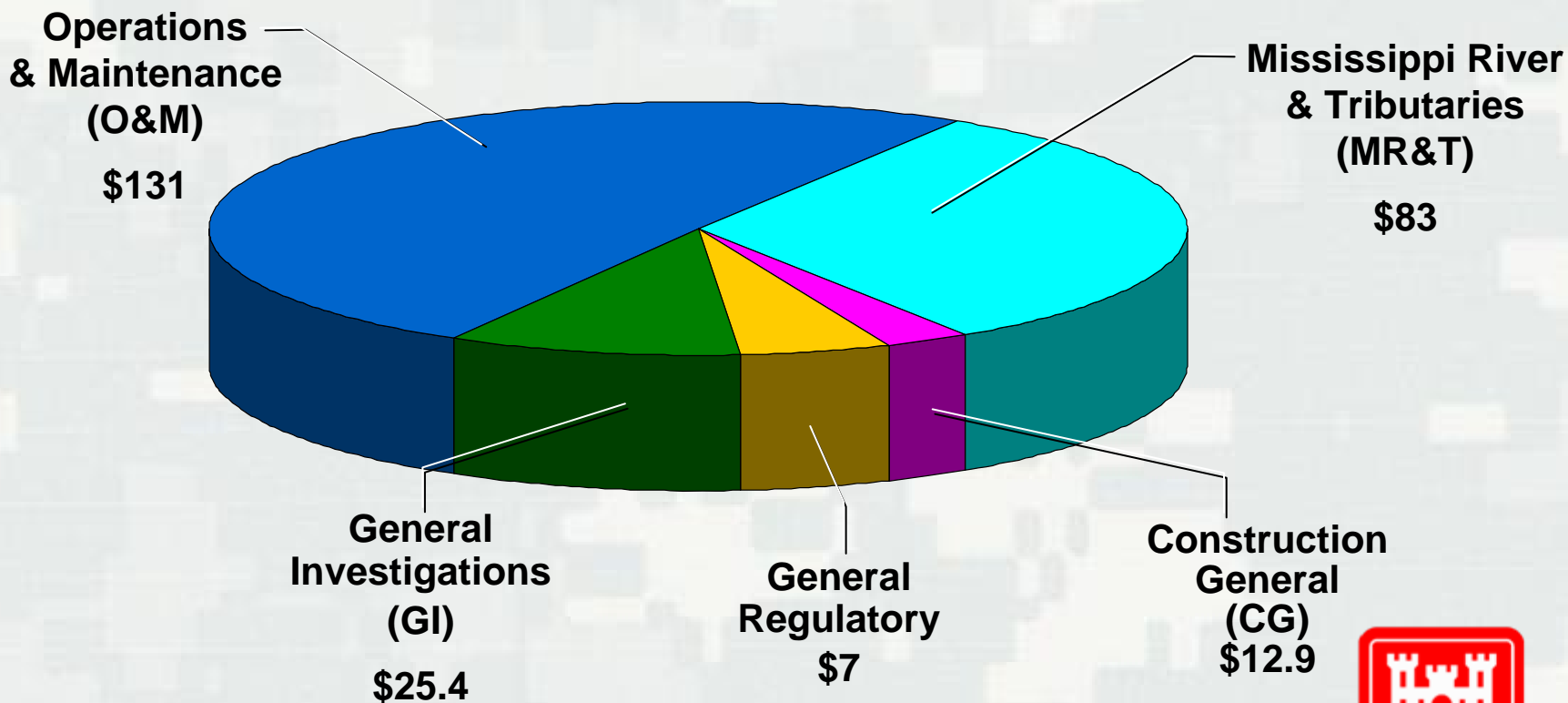


# River Stage at New Orleans Carrolton Gauge



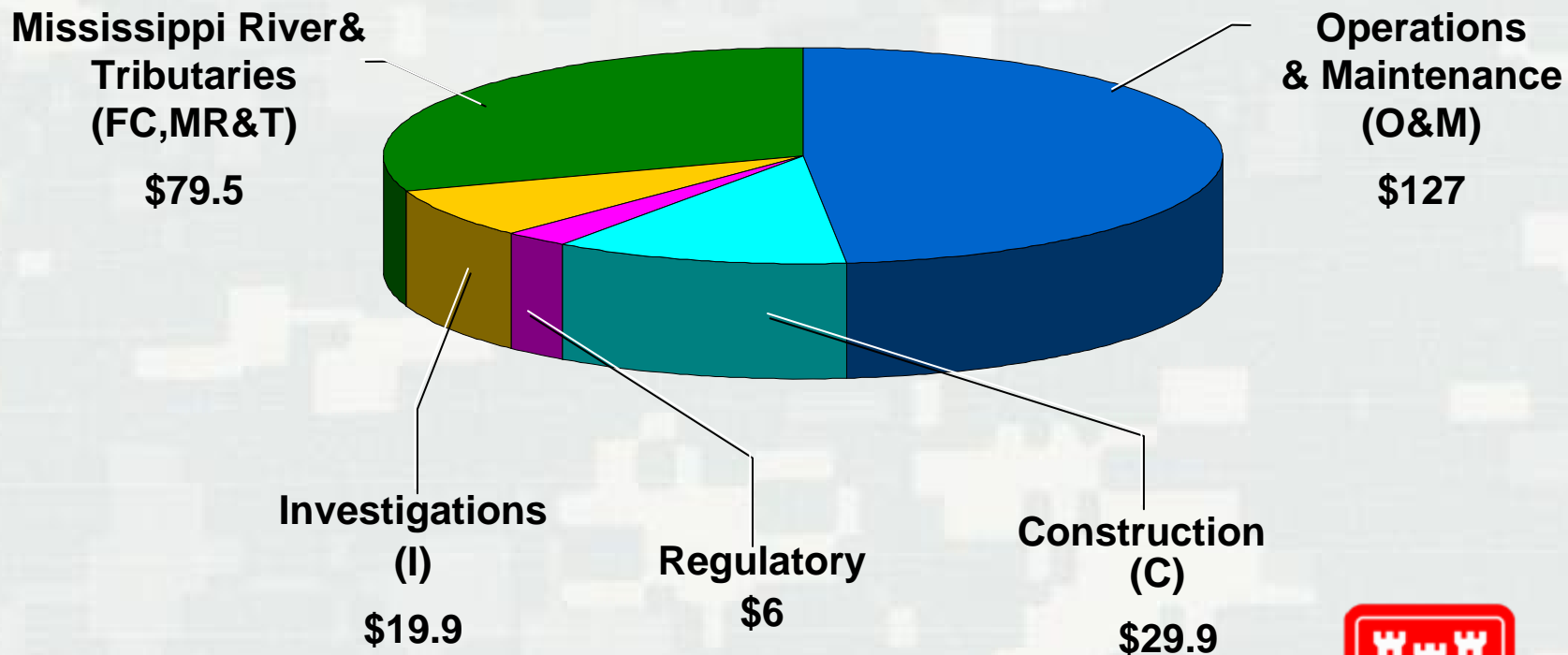
# New Orleans District FY 2010 Program Regular Civil Works (\$ Millions)

**Total: \$259.3**



**US Army Corps  
of Engineers.**

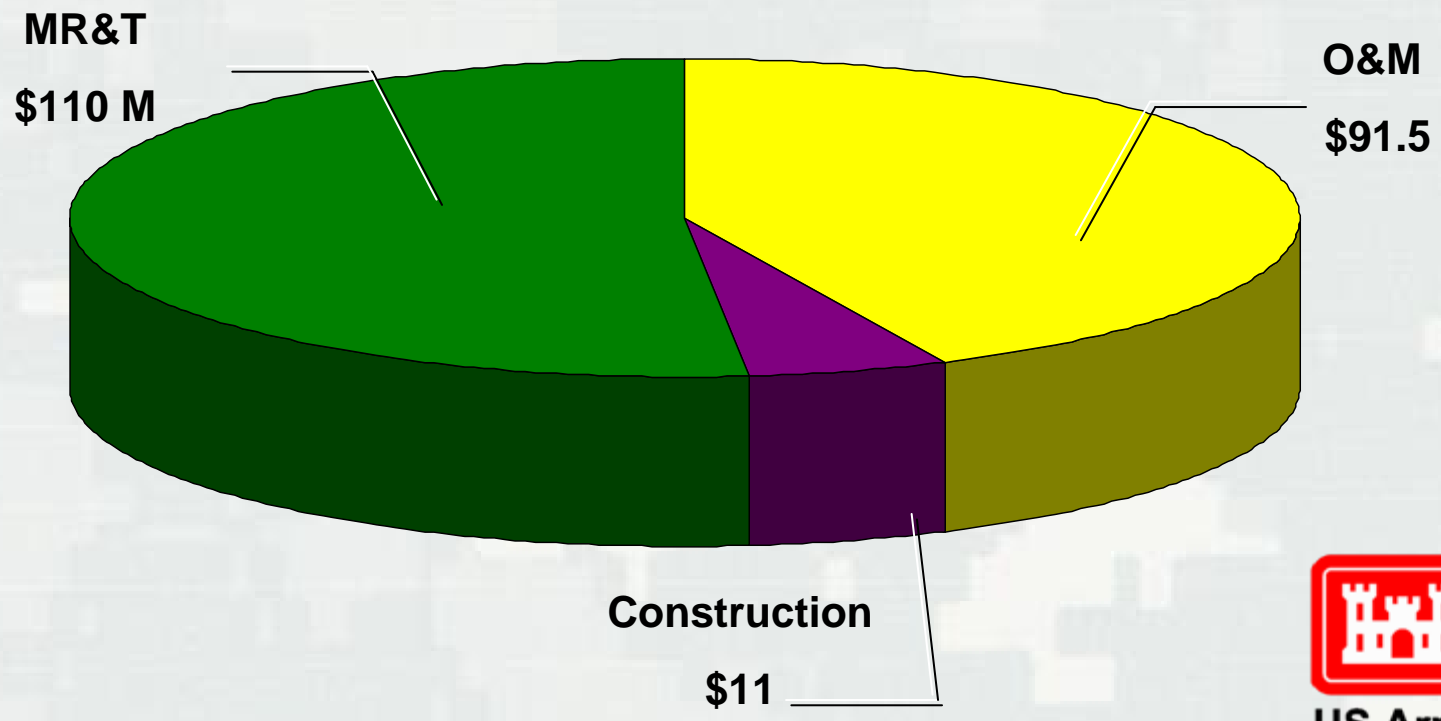
# New Orleans District FY 2011 President's Budget - Reg Civil Works (\$ Millions) Total: \$256.2



US Army Corps  
of Engineers®

# New Orleans District American Recovery & Reinvestment Act (Recovery Stimulus) (\$ Millions)

**Total: \$212 M**



**US Army Corps  
of Engineers®**

# MR & T Studies in the New Orleans District



Donaldsonville, LA to the Gulf of Mexico Feasibility Study

Morganza, LA to the Gulf of Mexico Study Area



# Donaldsonville, LA to the Gulf of Mexico

## Possible Hurricane Levee Alignments



- Mod Ridge
- Ridge
- Hwy 90
- Pipeline Canal
- GIWW
- Existing Hurricane Protection Levee





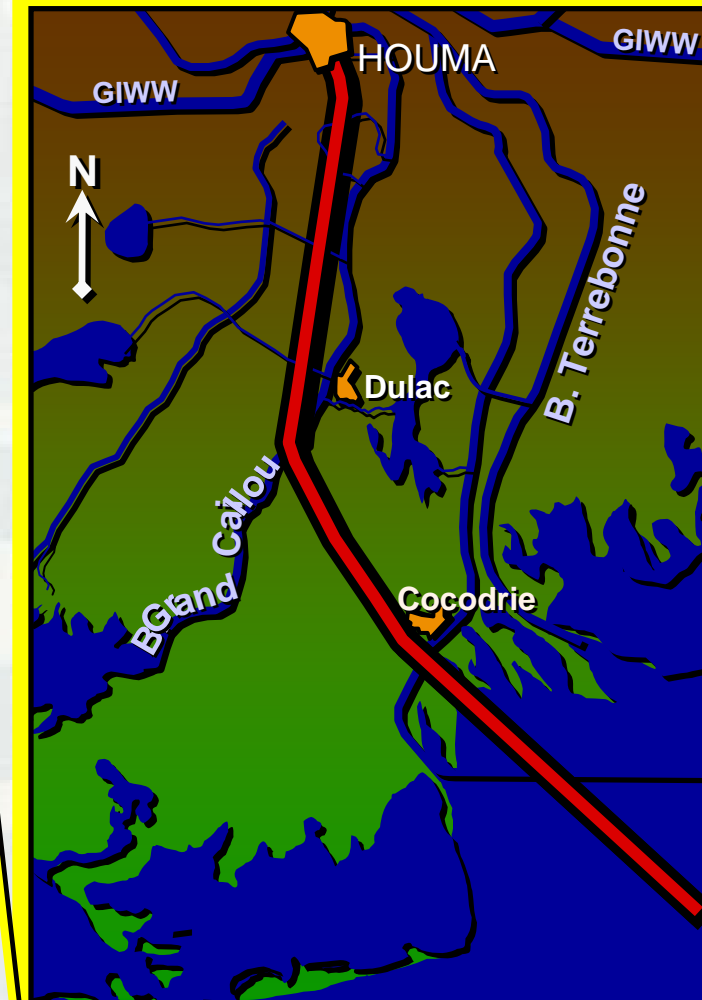
# Houma Navigation Canal, LA



ENI Alaskan Process Module (est. 3,800 tons)



ENI Alaskan Utility Module (est. 3,600 tons)







# Bayou Sorrel Lock Project Status

## Preconstruction Engineering and Design



# Levee Safety Program Mission



**Assess** the integrity and viability of levees and recommend **actions** to assure that levee systems do not present unacceptable risks to the public, property, and the environment.

## Program Objectives:

- Hold Public Safety Paramount
- Reduced Economic Impacts
- Maximize Cost Effectiveness
- Develop Reliable and Accurate Information
- Build Public Trust and Acceptance







# Operations & Maintenance of Completed Works

- **Inspection of Completed Works - initiatives**
- **Inspections & Reports**



**US Army Corps  
of Engineers®**



An aerial photograph of a Mississippi River levee system. The river is on the left, with a long levee extending from the foreground into the distance. To the right of the levee is a residential and commercial area with houses, trees, and buildings. The sky is clear and blue.

# Mississippi River Levees

**Project Authority: Flood Control Act of 1928  
and subsequent amendments.**

**Ongoing work includes:**

- **Levee elevations to authorized grade**
- **Addressing seepage areas**

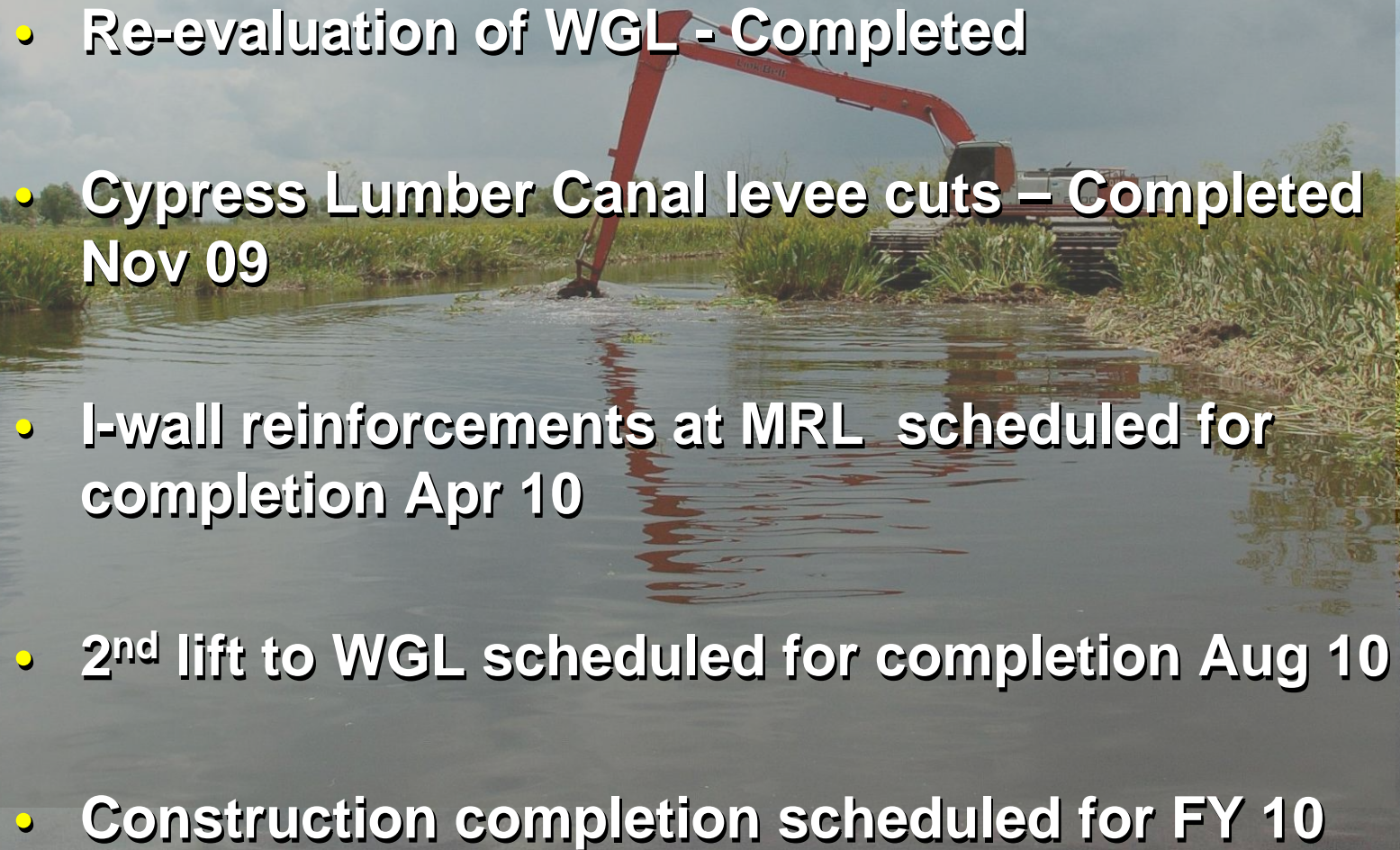


**US Army Corps  
of Engineers**





# Davis Pond Freshwater Diversion

- 
- Re-evaluation of WGL - Completed
  - Cypress Lumber Canal levee cuts – Completed Nov 09
  - I-wall reinforcements at MRL scheduled for completion Apr 10
  - 2<sup>nd</sup> lift to WGL scheduled for completion Aug 10
  - Construction completion scheduled for FY 10



An aerial photograph of the Mississippi River. The river is brown and flows from the top left towards the bottom right. A long, straight dike runs parallel to the river on the right side. In the foreground, there are large areas of grey stone stability berms along the riverbank. A small boat is visible in the water near the berms. The background shows a green landscape with trees and some buildings.

# Mississippi River Channel Improvements

- 4,800 feet of Foreshore Dike at Olga
- 4,089 feet of Revetment Reinforcement at Buras
- 3,543 feet of Revetment Maintenance
- 9,420 feet of Stone stability berms at Buras, Gravolet and Reserve



US Army Corps  
of Engineers®





# Atchafalaya Basin Project

**Project Authority: Flood Control Act of 1928  
and subsequent amendments.**

**Remaining work includes:**

- **Levee elevations to authorized grade**
- **Lock modification at Bayous Sorrel and Boeuf, & Berwick**
- **Floodgate modification at Charenton & Calumet**



**US Army Corps  
of Engineers.**





# Water Management Units

- Buffalo Cove
- Beau Bayou
- Cocodrie Swamp
- Flat Lake
- Henderson Lake



US Army Corps  
of Engineers.



# Public Access

- Myette Point in St. Mary Parish – under construction
- Bayou Sorrel in Iberville Parish
- Public Access Feature roads Engineering Documentation Report and Design underway
- WRDA 2007 authorized
  - Class “A” Interpretive center
  - Eagle Point
  - Melville boat landing



US Army Corps  
of Engineers.



# Atchafalaya Basin Bank Stabilization

## Completed Work:

- 2,108 feet revetment at Woodside
- Revetment at Otis Landing

## Ongoing Work:

- Hard point dike at Otis Landing
- 1,850 feet armoring at Stouts Pass



US Army Corps  
of Engineers.





US Army Corps  
of Engineers.

Morgan City

Lower  
Atchafalaya  
River

Bayou  
Boeuf

Bayou  
Black

Bayou  
Chene

# Atchafalaya River and Bayous Chene, Boeuf and Black

Atchafalaya  
Bay

Atchafalaya  
Bar

POINT AU FER  
ISLAND







# Demonstration Channel Alignment Structure (DCAS)



US Army Corps  
of Engineers.



# 2010-2011 Dewaterings



## Freshwater Bayou Lock

31 May 10 – 20 June 2010

11 Aug 10 – 31 Aug 10

## Old River Lock

15 Oct 10 - 13 Nov 10

## Algiers Lock

01 Jun 11 – 30 Aug 11



US Army Corps  
of Engineers®

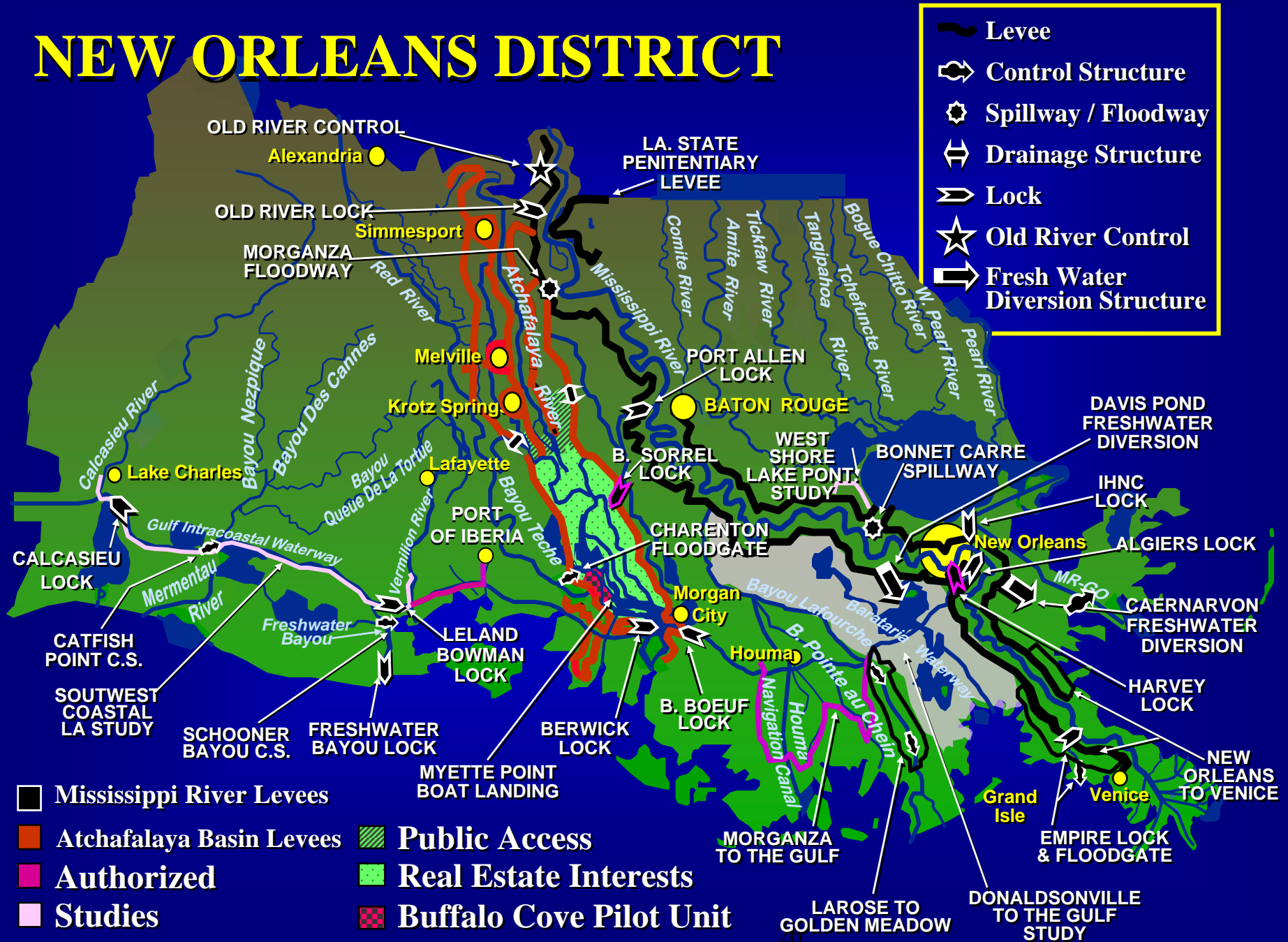


US Army Corps  
of Engineers®



**US Army Corps of Engineers**  
**BUILDING STRONG®**

# NEW ORLEANS DISTRICT



- Levee
- Control Structure
- Spillway / Floodway
- Drainage Structure
- Lock
- Old River Control
- Fresh Water Diversion Structure

- Mississippi River Levees
- Atchafalaya Basin Levees
- Authorized
- Studies
- Public Access
- Real Estate Interests
- Buffalo Cove Pilot Unit