tions essful hat and





STANDARDIZED ANI

- Provides consistency in single planning questic best to capture sedime
- Reduces computation
- Easier to determine ca outcomes across multi sizes and structure typ



73%

Great By ope mainte of the t

0.1%

Close The div cfs) for

2012





RING GROUP PUR

iment Diversion Operations Expert Working C cument the complex environmental, social, ec volved with the operation of a sediment divers



The WG does not attempt t Operation Plan, but instead on strategies and options to



Shirley Laska Social Sciences

University of New Orleans Lowlander Center



Earl Melancon, Jr. *Oysters and Shellfish* Nicholls State University

tiC d

ersity





Alox MaCoroundala



Lo

Andy Alympian

XPERTS

- erts, selected
- nembers,
- n meetings
- their expertise.

MEETINGS

An all-day meeting was held every month for 8 months (from Sept 2015 through April 2016). Each meeting focused on a key topic of importance to operating a sediment diversion.

CASE STU

The Mid-Barata **Sediment Diver** used as a case it was the first of begin the engin design phase. that the diversion to be constructed







or operating a n other primary or nould be developed.

Science should heavily inform





DISTRIBUTARY CHANNEL NETWORK WATER LEVELS EROSION







An estimated 5-10 years is needed to develop a distributary channel network that can move 75,000 cfs through the basin without causing backwater flooding. Operations should ramp up to 75,000 cfs over time to The diversion channel will be flowing into already fragmented, degraded wetlands. In some of these areas, water levels are already high at certain times. Research is needed on how long it will take water levels to even out The outfall of the diversion consists of weak, highly erodible marshes. The jet plume that enters the basin will cause some scour in the channel and immediate outfall area. Efforts should be made to anticipate this erosion and limit it to areas



OVER 600,000 CFS

41% 14 2+ WINTER PEAKS 3+

BETWEEN 500,000 AND 600,000 CFS

6 79% 6 FER PEAK 2+ WINTER PEAKS 3+

LENGTH OF PEAKS

ER PEAK

D = t = 0

Operations during spring and summer require a more intricate and balance of



Provide adequate dry period for especially at the start of growing



Optimize denitrification – rates a and concentrations in the river a



Minimize negative net effects on Include predictions of effect, res mitigation options and communi-(or actual effects) to the public.



Alligators, once estab and can be impacted



Blue crab spawn in N



erating on the rising limb would result in:

56% 72% of the sediment diverted

compared to operating on both the rising and falling limbs o

flood p



IN BARATARIA BASIN

Water Quality

Salinity, temperature, nutrients and suspended sediment are all key variables to a healthy ecosystem.









Accelerate Studies

Dialogue with Affected Partie

ISH & WILDLIFE SPECIES

YDROLOGY & GEOLOGY





Public Con

ississippiriverdelta.org/diversion