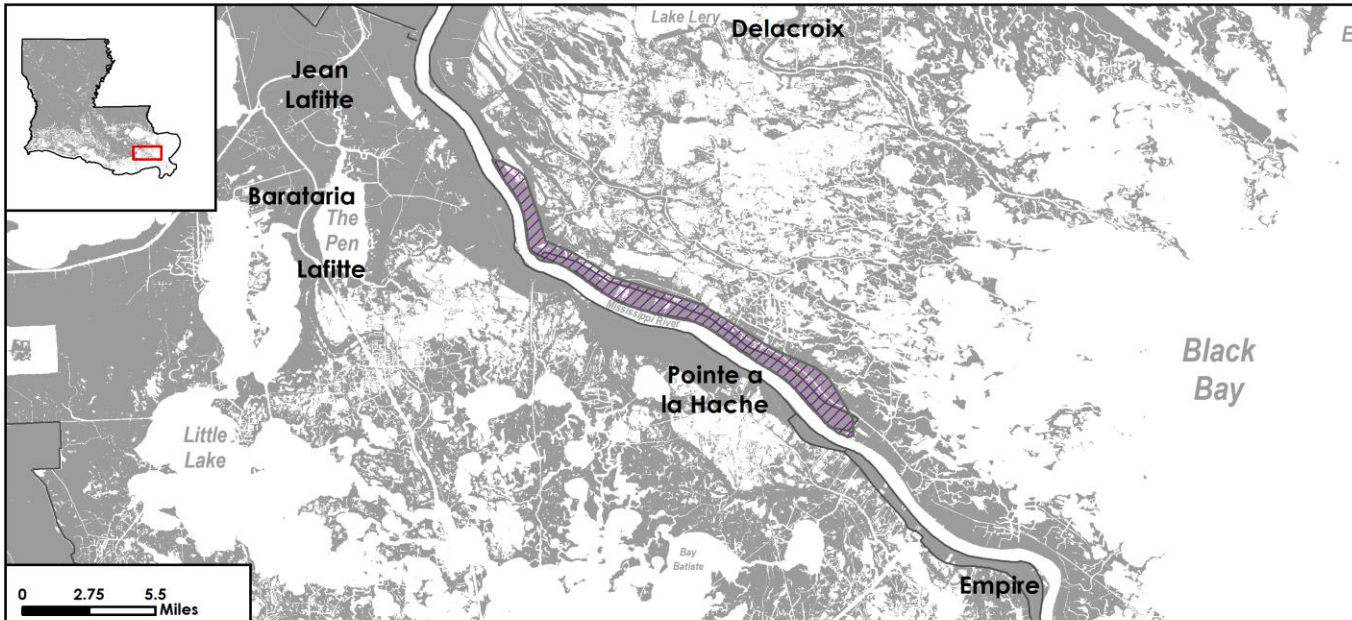


Plaquemines - Phoenix/Pointe A La Hache

Nonstructural Risk Reduction

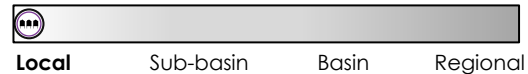
Project ID: PLA.05N



Description

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

Scale of Influence



Project Location

Plaquemines Parish

Project Duration

Construction is estimated to take 2 years.

Note:

Cost Estimate does not represent specific residential or commercial structures to be mitigated.

Project Cost Estimate

| Voluntary Measure | Structures Mitigated | Estimated Cost |
|-------------------------------|----------------------|---------------------|
| Non-residential Floodproofing | 0 | \$0 |
| Residential Elevation | 163 | \$24,400,000 |
| Residential Acquisition | 24 | \$13,900,000 |
| Total | 187 | \$38,300,000 |

Other Nearby Projects in the Master Plan



Other Project Area Statistics

| | |
|--|-----|
| Estimated Current Population <i>U.S. Census (2010), U.S. Dept. of Energy Oak Ridge National Laboratory, Land Scan (2011)</i> | 929 |
| Percent of Population who are Low-to-Moderate Income <i>American Community Survey (2006-2010)</i> | 82% |
| Number of Severe Repetitive Loss Properties <i>Governor's Office of Homeland Security (2015)</i> | 7 |

Plaquemines - Phoenix/Pointe A La Hache

Nonstructural Risk Reduction



Project ID: PLA.05N

Economic Damage

Nonstructural risk reduction projects are evaluated by how they reduce Expected Annual Damage (EAD) for a particular area. EAD represents the average direct economic damage projected to result from storm surge flooding events, from Category 1 or greater storms, in any given year, taking into account both the expected damage and the overall frequency of such storms occurring. EAD is a summary measure of the potential damage averaged over the entire distribution of possible flood events. Damage is also summarized at various return periods (DRP), e.g., 100-year damage being the damage with a 1% chance of occurring or being exceeded in a given year. The following are the economic damage summaries for the Future Without Action (FWOA) and Future With Project (FWP) conditions for EAD (Table 1) and by return period (Table 2). EAD and DRP values are reported in millions of dollars.

Table 1: Expected Annual Damage

| Year | FWOA | FWP | Difference |
|------|--------|--------|------------|
| 0 | \$2 M | - | - |
| 10 | \$6 M | \$5 M | \$1 M |
| 25 | \$10 M | \$8 M | \$2 M |
| 50 | \$15 M | \$13 M | \$2 M |

Table 2: Economic Damage by Return Period

| Year | 50 Year | | 100 Year | | 500 Year | |
|------|---------|---------|----------|---------|----------|---------|
| | FWOA | FWP | FWOA | FWP | FWOA | FWP |
| 0 | \$9 M | - | \$16 M | - | \$28 M | - |
| 10 | \$218 M | \$165 M | \$242 M | \$183 M | \$246 M | \$226 M |
| 25 | \$228 M | \$202 M | \$229 M | \$211 M | \$229 M | \$213 M |
| 50 | \$200 M | \$186 M | \$200 M | \$187 M | \$200 M | \$187 M |