



FEMA

Levee Certification Status in FEMA Region VI

MISSISSIPPI RIVER & TRIBUTARIES LEVEE PARTNERING MEETING

MARCH 6, 2008

AR Northeastern College, Blytheville, AR

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Outline – Levee Certification Region VI

FLOOD MAP
MODERNIZATION

- Background
- Responsibilities
- FEMA Region VI Approach
- Mapping & Certification Status in FEMA Region VI
- Questions

Background – Levee Certification

- Levee Certification is not a new requirement.
 - Interim Levee Policy (February 10, 1981)
 - 44CFR65.10 (August 25, 1986)
- Integrating Levee Certification into the Map Modernization Program is new.
 - Procedure Memorandum 34 (August 22, 2005)
 - Interim Guidance for Studies Including Levees
 - Procedure Memorandum 43 (September 25, 2006)
 - Revised Procedure Memorandum 43 (March 16, 2007)
 - Guidelines for Identifying Provisionally Accredited Levees
- Over half of the total population (nearly 19 million people) in Region VI is located within counties/parishes that have levees that show protection from the base flood.

FEMA Responsibilities

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FEMA is responsible for the following:

- Establishing/reflecting appropriate risk zone determinations on flood maps
 - Accredit levees that meet the criteria of 44CFR65.10 as providing protection from the 1% annual chance flood based on the certification provided by levee owner
 - Not accredit levees as providing protection that are not or cannot be shown to meet criteria of 44CFR65.10
- Establishing mapping standards

Responsibilities of Others

FEMA is not responsible for any of the following:

- CERTIFYING LEVEES
- Designing, constructing, operating, or maintaining levee systems
- Examining levees
- Determining how a structure or system will perform in a flood event

FEMA Region VI Process Guidance Document, Version 2

FLOOD MAP
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FEMA Region VI Levee Certification and Accreditation Process

Version 2.0

August 10, 2007



Region VI Studies with Levee Certification Issues (w/o FY08)

FLOOD MAP MODERNIZATION

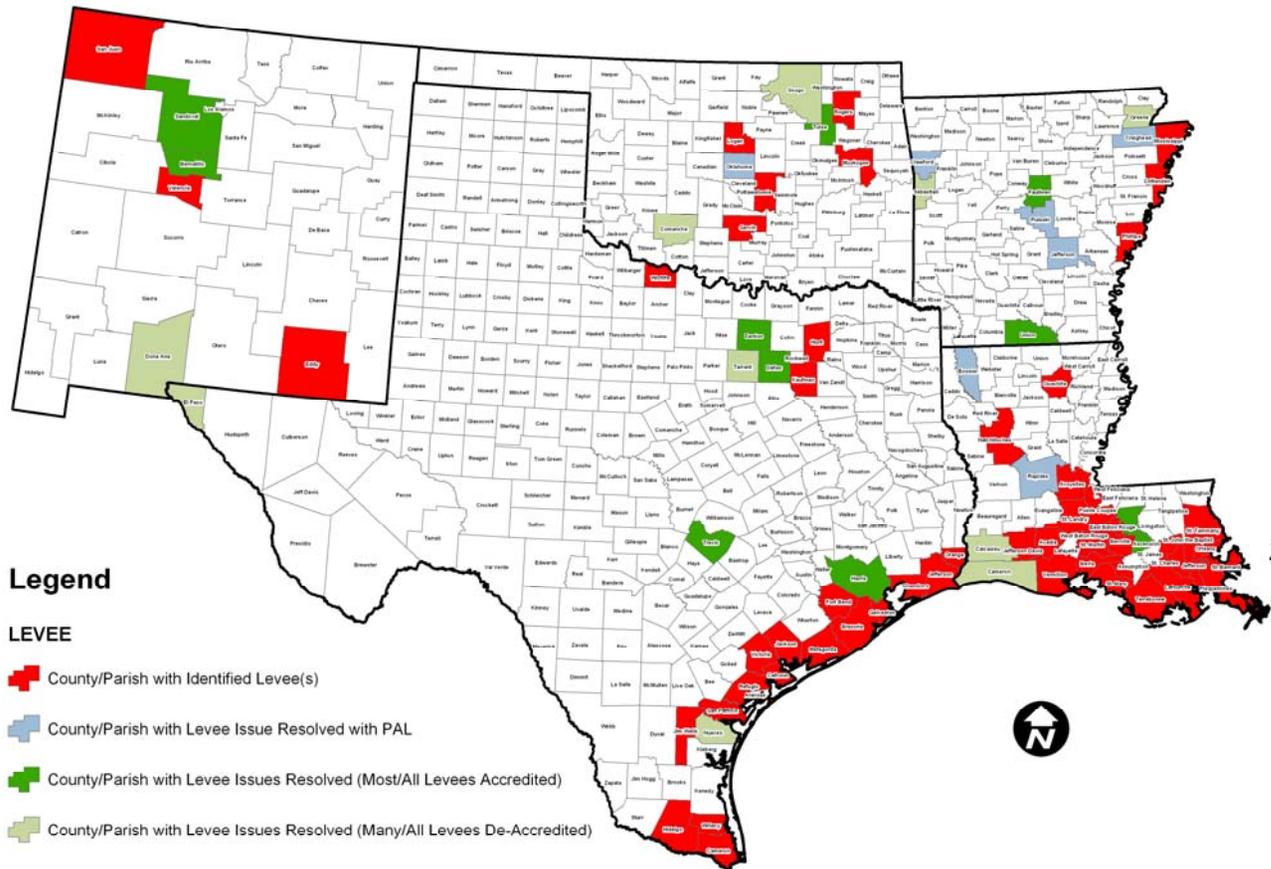
Population of Current and FY07 Studies with Levees Showing Protection on Effective FIRMs

| STATE | COUNTY | POPULATION |
|-------------------------|----------------------|-------------------|
| Arkansas | Crawford | 43,146 |
| Arkansas | Crawford | 53,247 |
| Arkansas | Crittenden | 50,888 |
| Arkansas | Faulkner | 86,014 |
| Arkansas | Greene | 37,331 |
| Arkansas | Jefferson | 84,278 |
| Arkansas | Mississippi | 51,879 |
| Arkansas | Phillips | 26,445 |
| Arkansas | Pulaski | 205,474 |
| Arkansas | Sebastian | 115,071 |
| Arkansas | Union | 45,829 |
| Louisiana | Acadia | 56,861 |
| Louisiana | Ascension | 76,827 |
| Louisiana | Assumption | 41,431 |
| Louisiana | Bossier | 86,310 |
| Louisiana | Calcasieu | 183,577 |
| Louisiana | Cameron | 9,991 |
| Louisiana | East Baton Rouge | 412,882 |
| Louisiana | Iberia | 73,296 |
| Louisiana | Iberville | 33,320 |
| Louisiana | Jefferson | 455,466 |
| Louisiana | Jefferson Davis | 31,430 |
| Louisiana | Lafayette | 88,874 |
| Louisiana | Lafourche | 36,080 |
| Louisiana | Orleans | 446,874 |
| Louisiana | Ouachita | 147,250 |
| Louisiana | Plaquemines | 26,737 |
| Louisiana | Pontrechaud | 22,763 |
| Louisiana | Rapides | 126,337 |
| Louisiana | St. Bernard | 67,229 |
| Louisiana | St. Charles | 48,072 |
| Louisiana | St. John the Baptist | 43,044 |
| Louisiana | St. Landry | 87,700 |
| Louisiana | St. Martin | 48,583 |
| Louisiana | St. Mary | 53,500 |
| Louisiana | St. Tammany | 193,268 |
| Louisiana | Terrebonne | 104,503 |
| Louisiana | Verde | 53,807 |
| Louisiana | West Baton Rouge | 21,801 |
| New Mexico | Bernalillo | 556,878 |
| New Mexico | Concha Area | 174,802 |
| New Mexico | Eddy | 51,658 |
| New Mexico | San Juan | 113,801 |
| New Mexico | Sandoval | 89,296 |
| New Mexico | Valencia | 86,152 |
| Oklahoma | Comanche | 114,568 |
| Oklahoma | Garvin | 27,210 |
| Oklahoma | Logan | 33,824 |
| Oklahoma | Nowata | 68,451 |
| Oklahoma | Oklahoma | 655,443 |
| Oklahoma | Osage | 44,437 |
| Oklahoma | Pfaffwaller | 65,521 |
| Oklahoma | Rogers | 79,841 |
| Oklahoma | Tulsa | 563,269 |
| Texas | Brazoria | 241,767 |
| Texas | Cathart | 36,847 |
| Texas | Cameron | 325,223 |
| Texas | Chambers | 26,031 |
| Texas | Dallas | 2,218,899 |
| Texas | Denton | 432,976 |
| Texas | El Paso | 679,822 |
| Texas | Fort Bend | 364,452 |
| Texas | Galveston | 250,158 |
| Texas | Harris | 2,430,373 |
| Texas | Hidalgo | 569,402 |
| Texas | Hunt | 76,596 |
| Texas | Jackson | 14,391 |
| Texas | Jefferson | 292,061 |
| Texas | Jim Wells | 36,328 |
| Texas | Kaufman | 37,913 |
| Texas | Maricopa | 37,687 |
| Texas | Nueces | 213,645 |
| Texas | Orange | 84,566 |
| Texas | Refugio | 7,828 |
| Texas | San Patricio | 67,138 |
| Texas | Tarrant | 1,446,219 |
| Texas | Texas | 812,280 |
| Texas | Victoria | 84,088 |
| Texas | Wichita | 123,664 |
| Texas | Willacy | 20,082 |
| TOTAL POPULATION | | 18,817,980 |

Total Population of Region VI: 33,263,896
Percent of Total Population Affected by Levees in Counties: 56.6%

Total No. of Counties = 80

Region VI Studies with Levees



Legend

LEVEE

- County/Parish with Identified Levee(s)
- County/Parish with Levee Issue Resolved with PAL
- County/Parish with Levee Issues Resolved (Most/All Levees Accredited)
- County/Parish with Levee Issues Resolved (Many/All Levees De-Accredited)

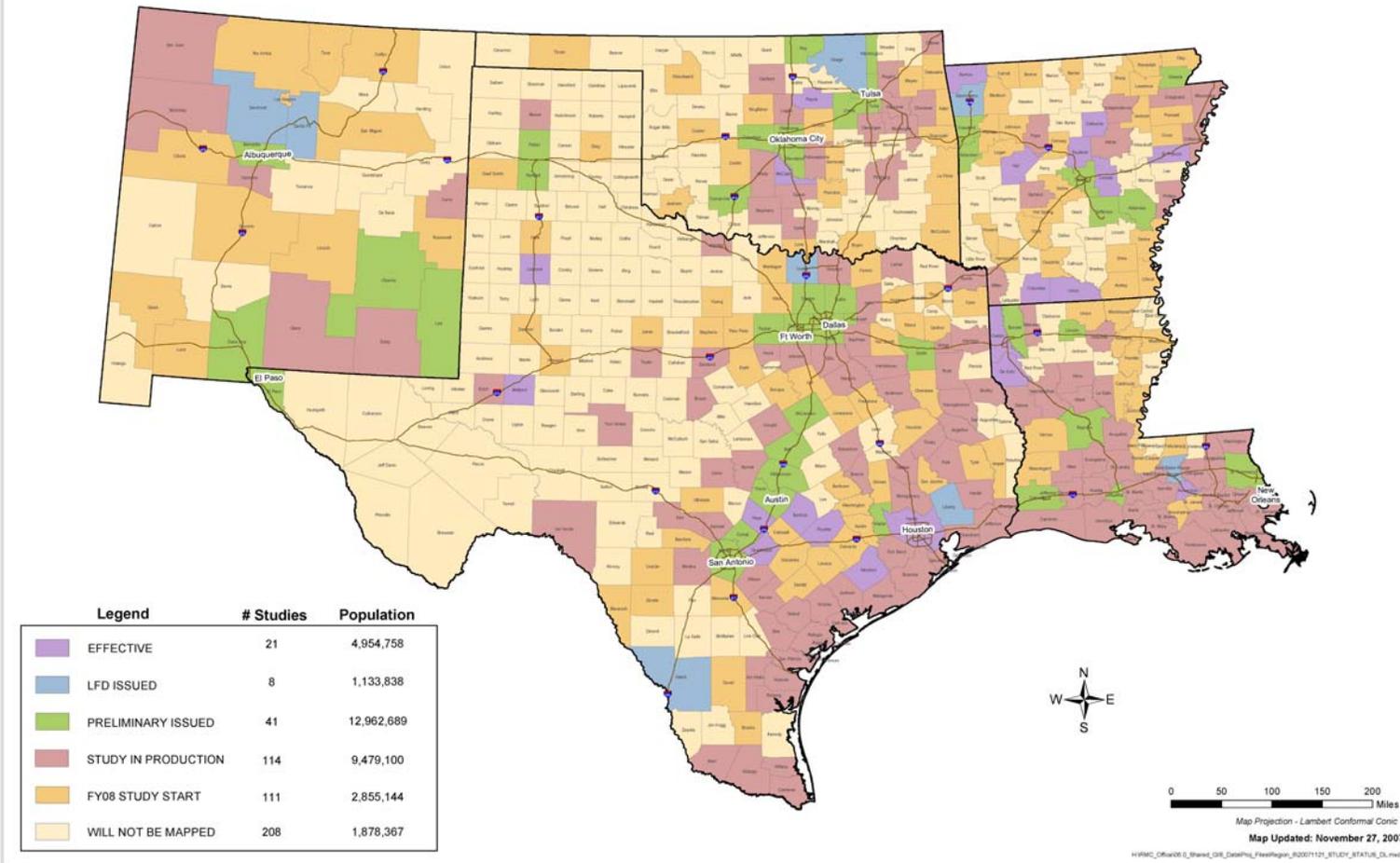
Map Updated: November 27, 2007
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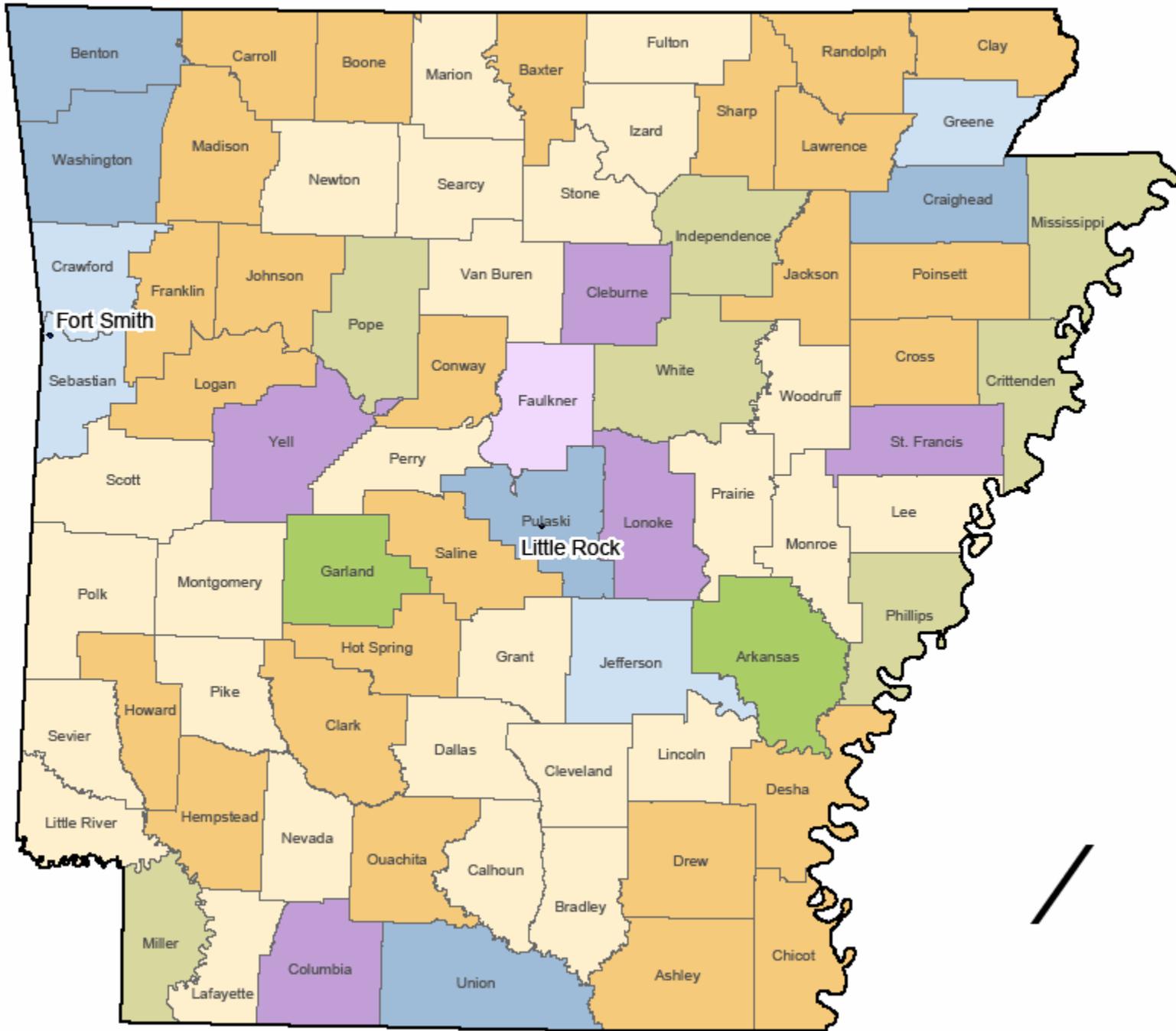
0 100 200 300 400
Miles



Study Status

FEMA REGION VI - STATUS OF STUDIES AS OF DECEMBER 2007

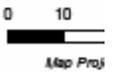




end

and Prior

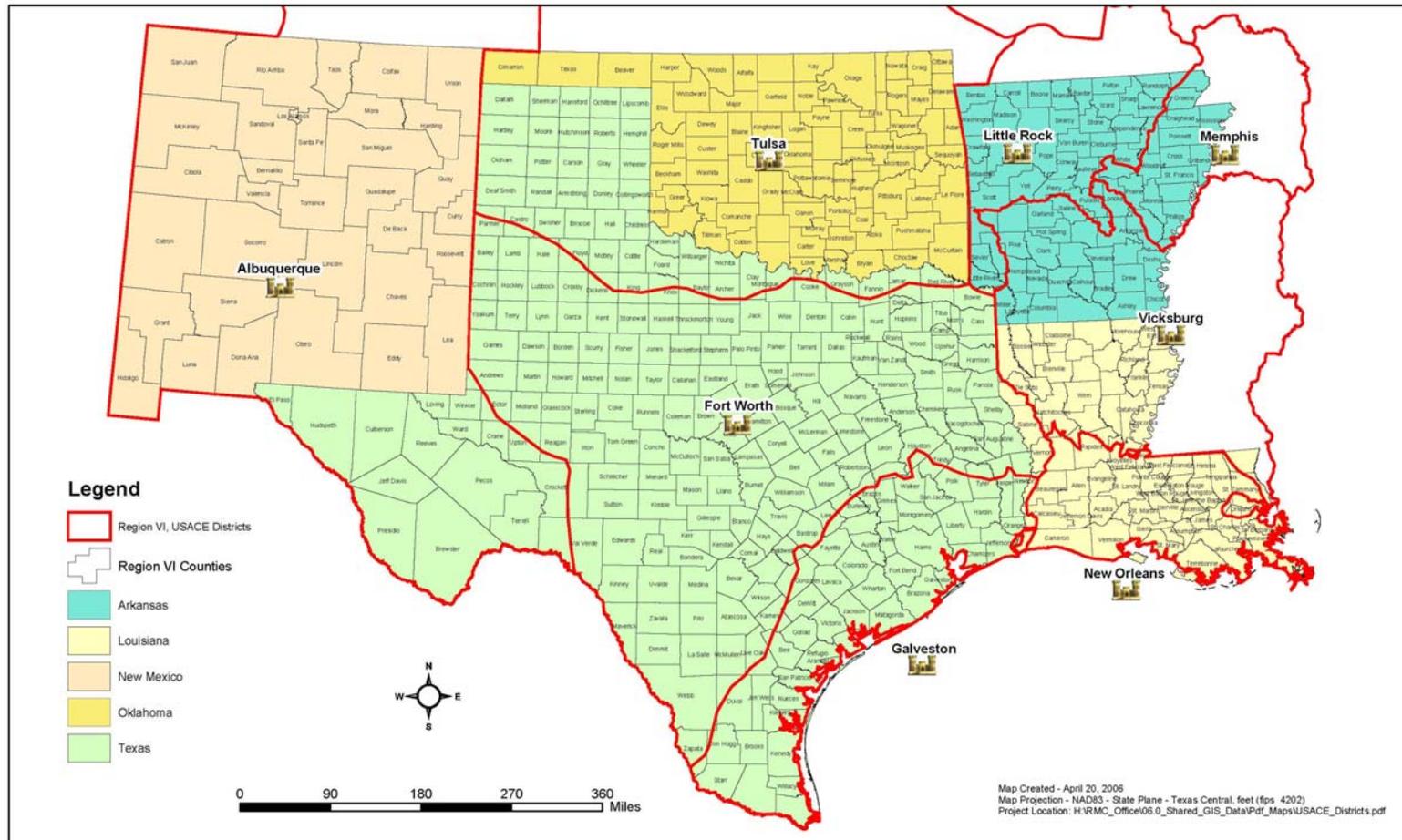
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USACE Districts in Region VI

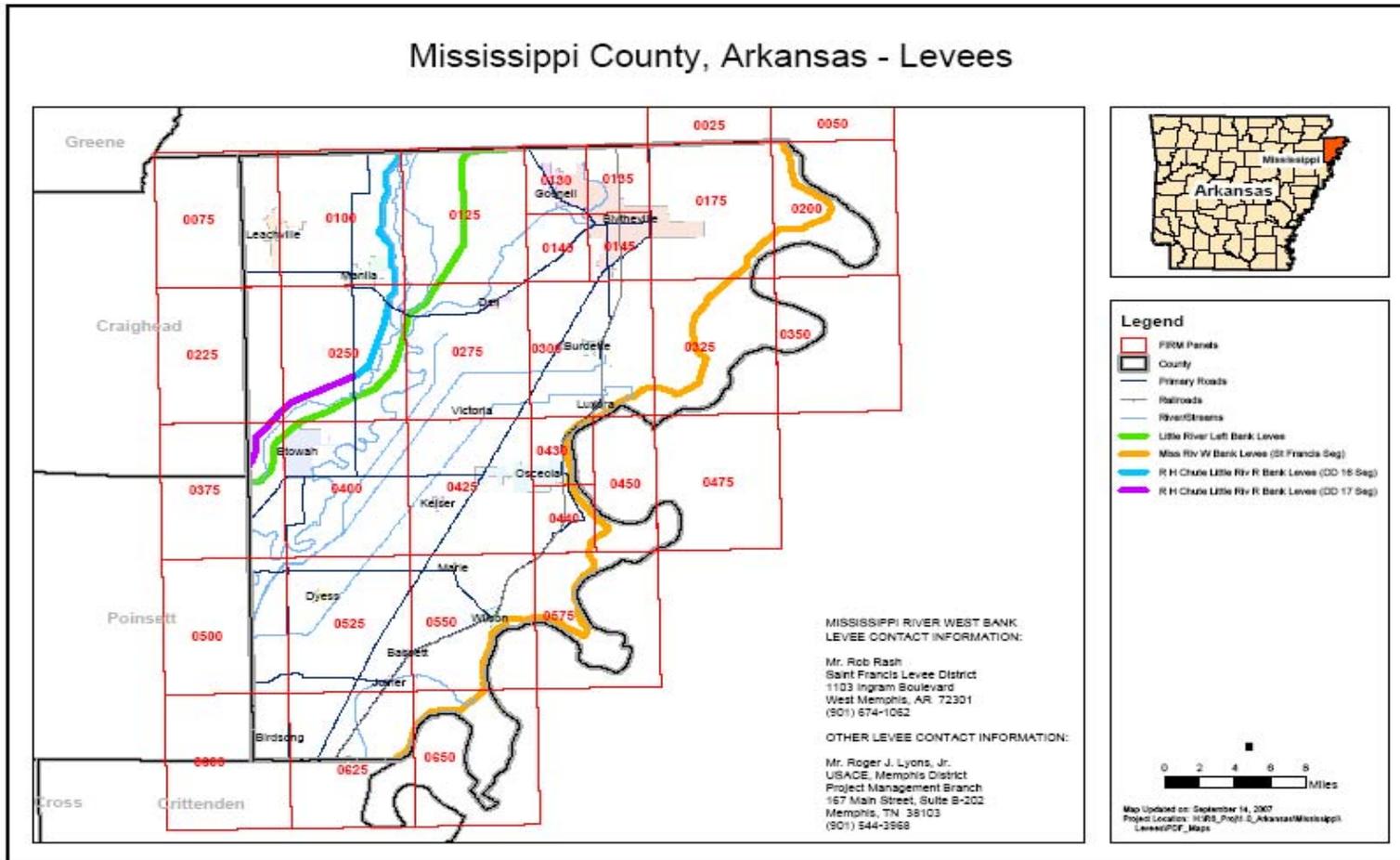
FLOOD MAP
MODERNIZATION

US Army Corps of Engineers Districts in Region VI



Mississippi County, AR Levees Sample Map

FLOOD MAP
MODERNIZATION



Region VI Levee Certifications Current Status

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- Region VI studies with levees (80 studies w/ ~ 231 levees)
- Many levee owners have not or cannot certify their levees and they have then been de-accredited by FEMA.
(15 levees in 10 counties)
- Some certifications are expected to occur between Preliminary DFIRM & LFD, thus will show protection on the new Effective DFIRMs.
- Eight county maps have now been released preliminary as a result of obtaining the PAL agreements

Summary of Certification Status

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Overall number of studies resolved for Preliminary release

- PM 34 Certification = 8
- PM 34 & PAL Certification = 2
- PAL only Certification = 5
- PAL & De-accreditation = 1
- PM 34 & De-accreditation = 2
- PM 34, PAL, & De-accreditation = 1
- De-accreditation = 8

- Unresolved = 53 (many are FY07 study starts)

Signed PAL Agreements Memphis District

FLOOD MAP
MODERNIZATION

Signed PAL Agreements

| Community | County/ Parish | Date of PAL Letter Signed | Scenario | Levee(s) |
|-----------|-------------------|------------------------------------|----------|----------|
|-----------|-------------------|------------------------------------|----------|----------|

Arkansas

| | | | | |
|---|-----------|-----------|---|--|
| Craighead County, Arkansas, Town of Lake City | Craighead | 3/20/2007 | B | Thompson Creek and West Levee |
| Craighead County, Arkansas | Craighead | 4/9/2007 | B | Buffalo Island Drainage District No. 9- Left Bank of the St. Francis River |
| Greene County, Arkansas | Greene | 3/22/2007 | B | Eight Mile Drainage District No.5 |

FEMA Map Mod Studies 2007-2008

FLOOD MAP
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| <i>Memphis USACE District</i> | | <i>Map Mod Program Levee Impacts</i> | |
|--|-------------|--------------------------------------|---|
| State | County | Fiscal Year | Status |
| Arkansas | | | |
| | Mississippi | 2007 | FEMA Letters will go out to communities and levee boards in February 2007. |
| | Crittenden | 2007 | FEMA Letters will go out to communities and levee boards in February 2007. |
| | Phillips | 2007 | FEMA Letters will go out to communities and levee boards in February 2007. |
| | White | 2007 | Levees do not show protection on Effective Maps |
| | | | so will not be considered for accreditation. |
| | | | |
| | | Proposed 2008 Studies | 2008 information is based on 1st review . |
| | | | |
| | Jackson | 2008 | Effective Panel 90,95,330 and Panel 2(Diaz) and Panel 1 (Jacksonport), and Panels 1 & 4 (Newport) |
| | Poinsett | 2008 | No levees |
| | Cross | 2008 | Effective Panels 3,5,6,8,& 9 |
| | Clay | 2008 | Effective Panels 01B-9B (all) |
| | Desha | 2008 | No levees |
| | | | |
| Note: FEMA notification to communities for FY 2008 studies with levees will go out in late 2008 or early 2009. | | | |



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