

# **Appendix A**

## **Figures**



**U.S. Army Corps of Engineers  
Memphis District**

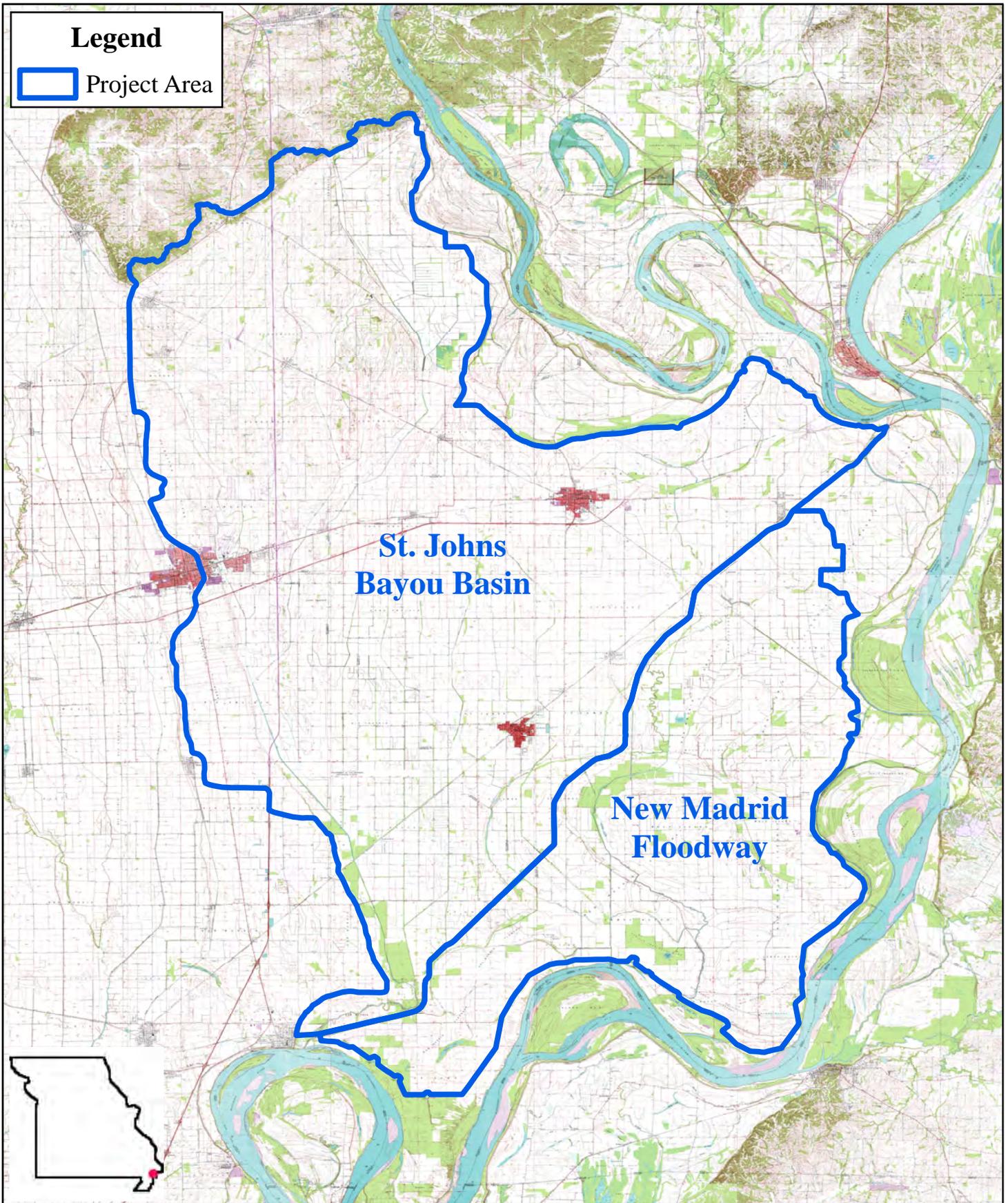


Figure: 1.1

0 2 4 Miles

# St. Johns Bayou Basin and New Madrid Floodway Project Area



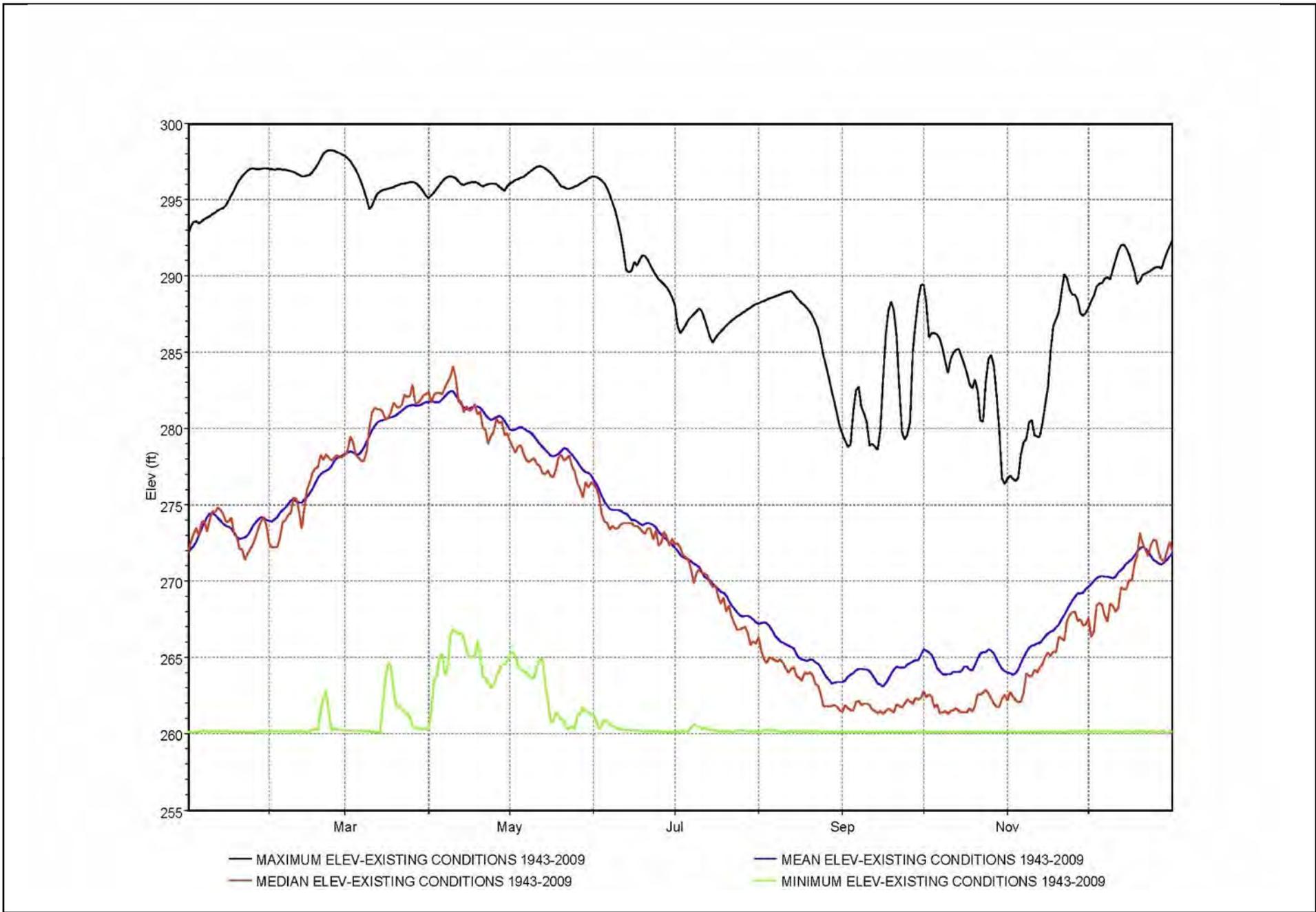


Figure: 1.2

St. Johns Bayou Basin Hydrograph of Maximum, Mean, Median, and Minimum Elevations for Each Day During the 1943 - 2009 Period of Record

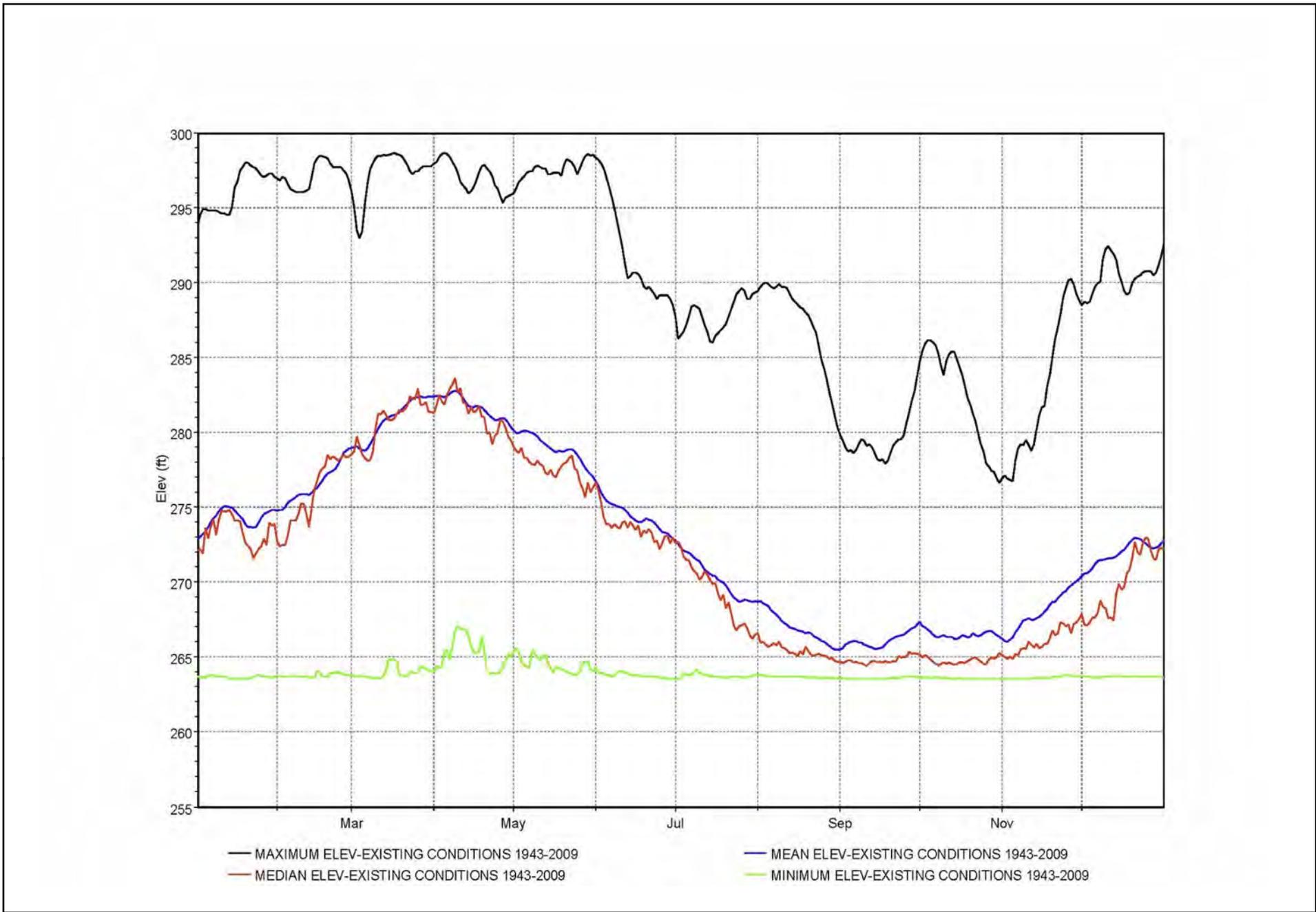
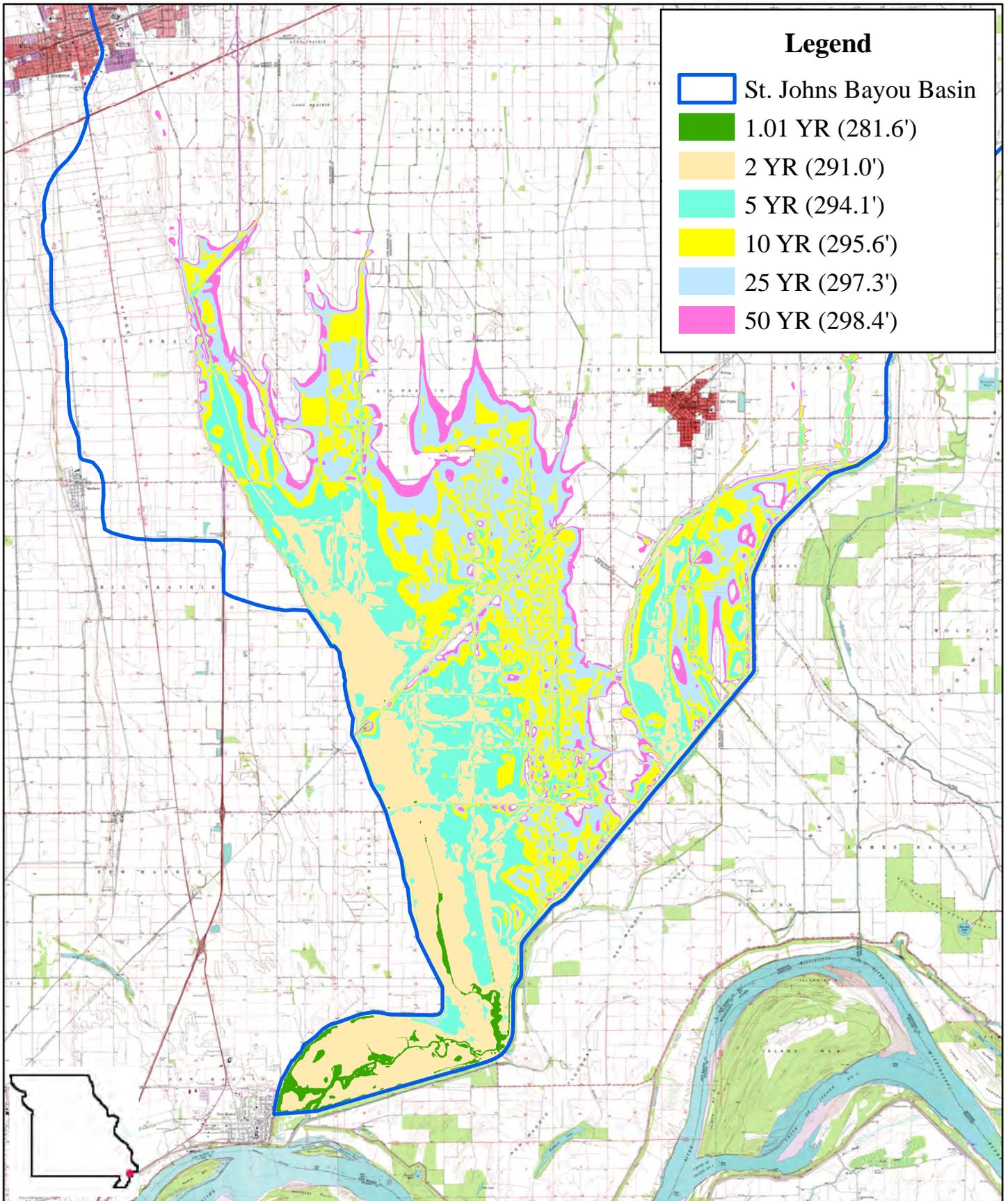


Figure: 1.3 New Madrid Floodway Hydrograph of Maximum, Mean, Median, and Minimum Elevations for Each Day During the 1943 - 2009 Period of Record



**Legend**

- St. Johns Bayou Basin
- 1.01 YR (281.6')
- 2 YR (291.0')
- 5 YR (294.1')
- 10 YR (295.6')
- 25 YR (297.3')
- 50 YR (298.4')



Figure: 1.4  
 0 1 2 Miles

**St. Johns Bayou Basin  
 Existing Flood Return Intervals**



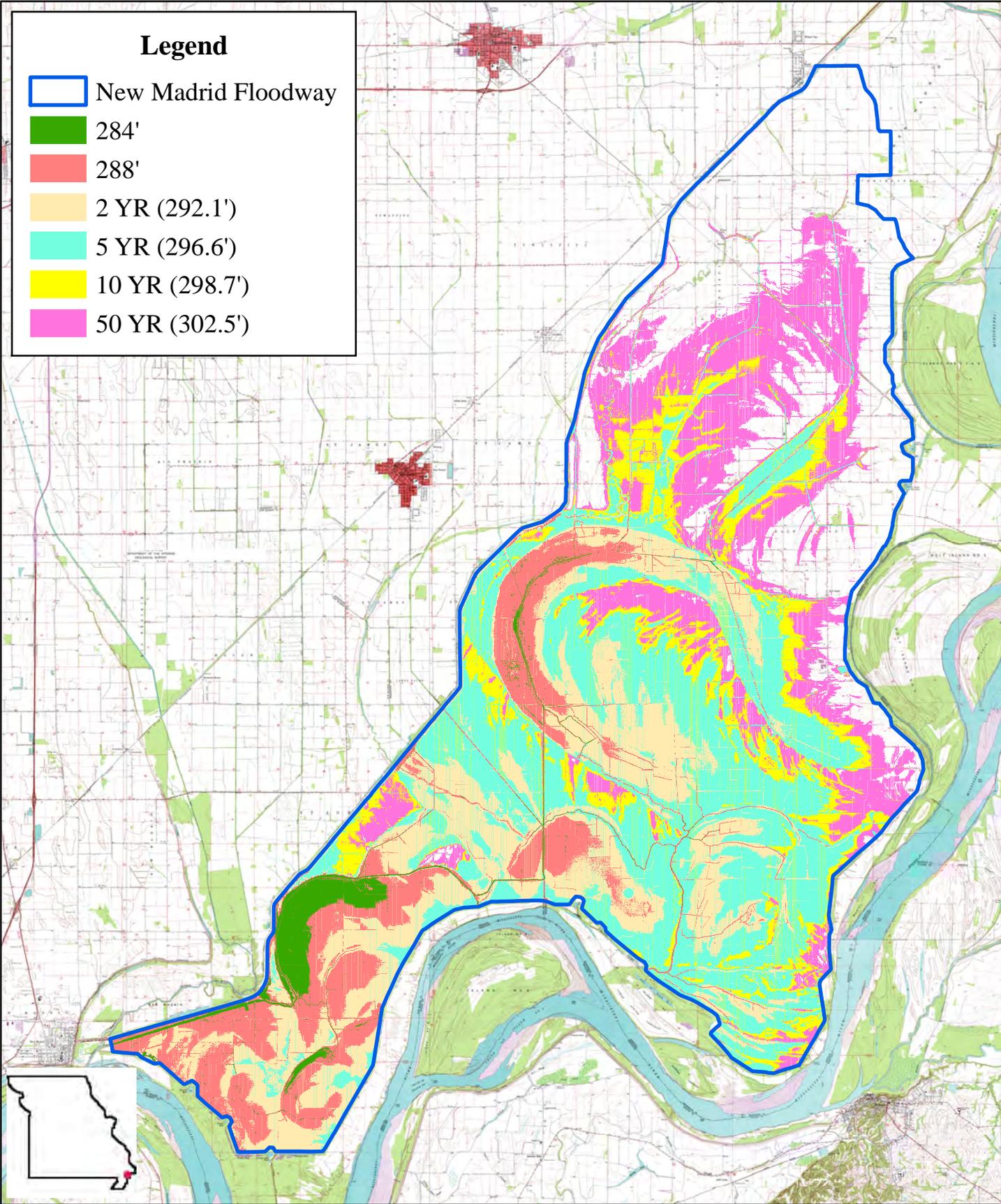
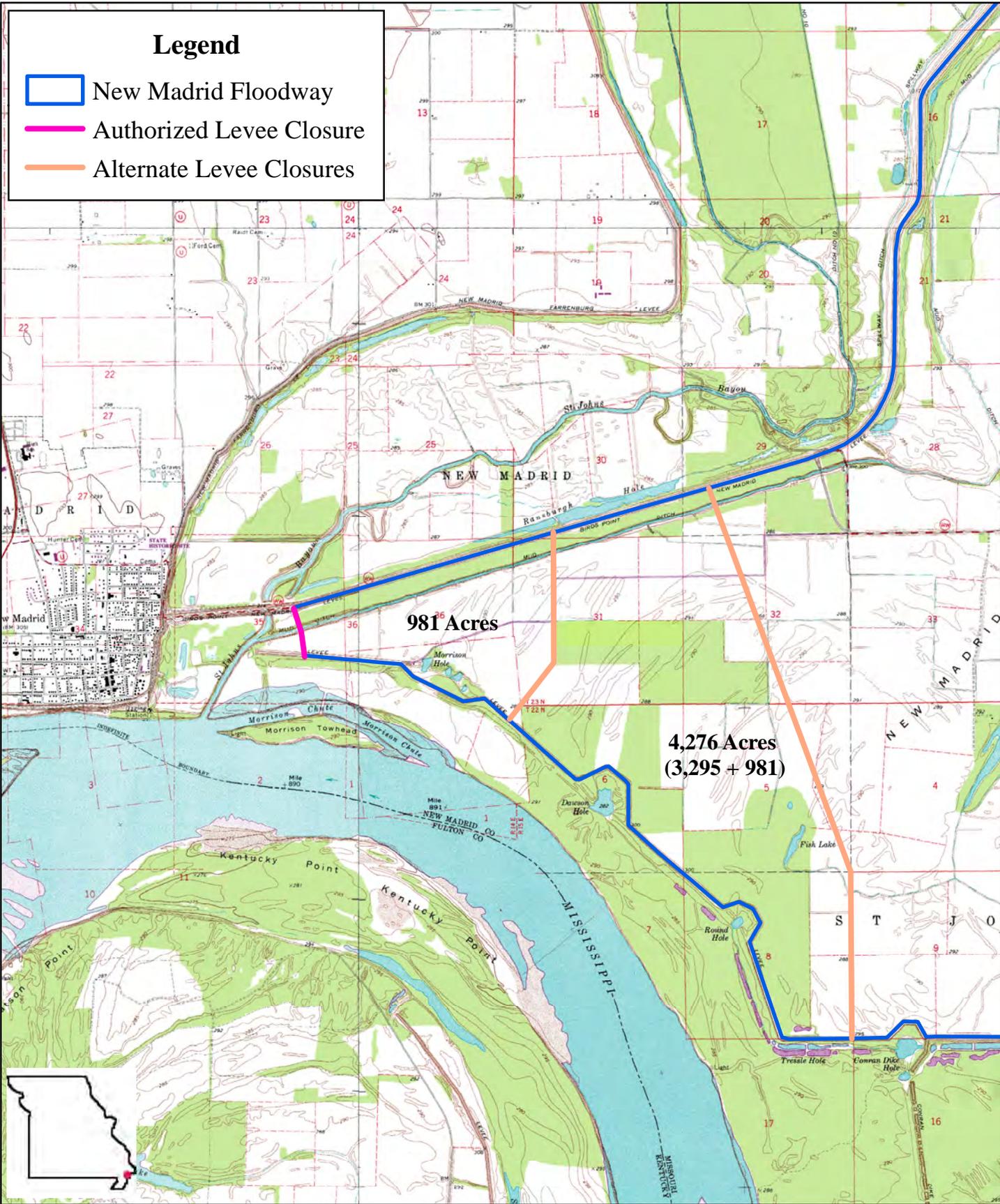


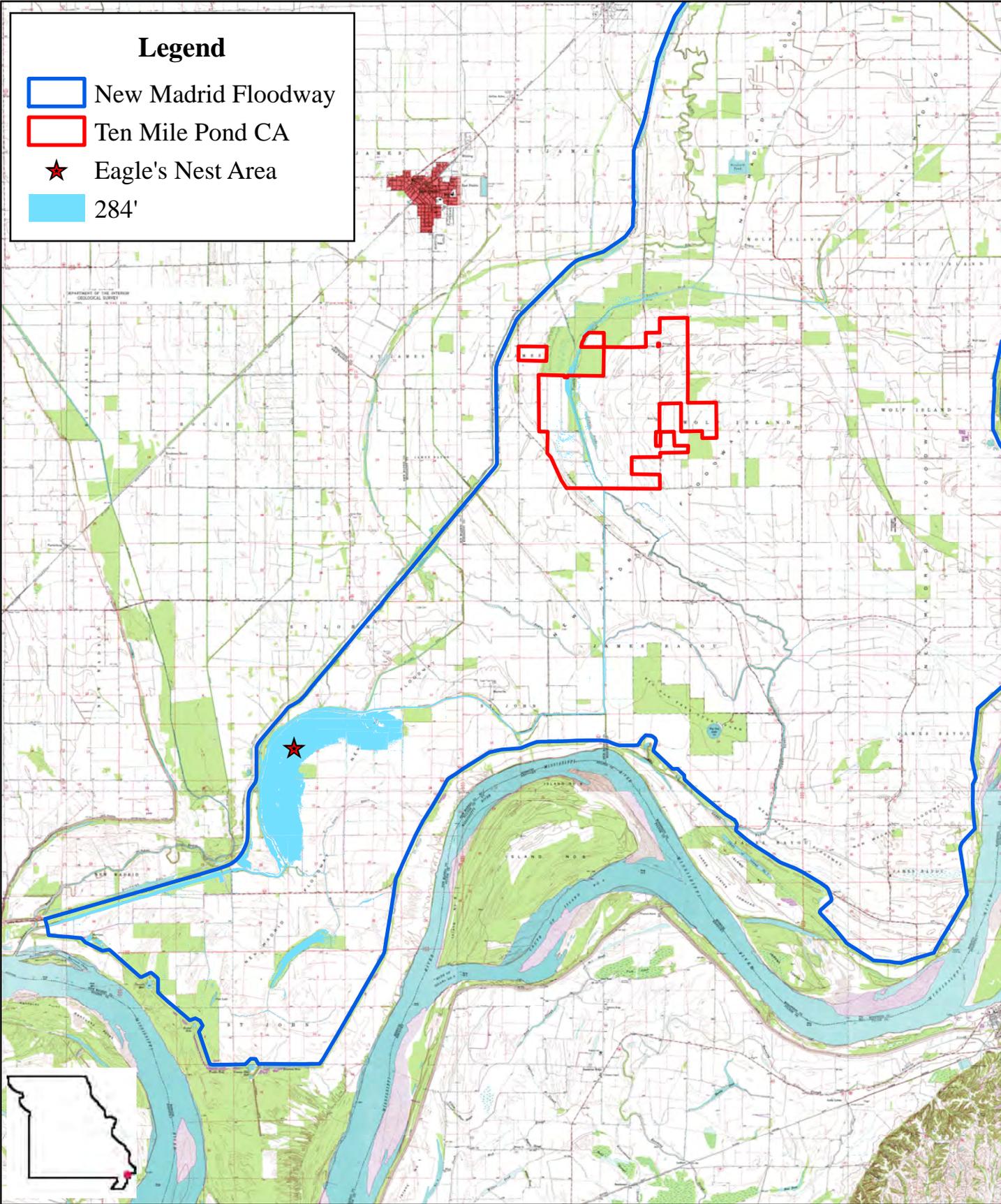
Figure: 1.5

0 1.5 3 Miles

New Madrid Floodway  
Existing Flood Return Intervals







**Legend**

-  New Madrid Floodway
-  Ten Mile Pond CA
-  Eagle's Nest Area
-  284'



Figure: 2.2

 Miles  
0 1 2

**New Madrid Floodway  
Inundation at 284' and Below**



**Legend**

-  New Madrid Floodway
-  Remainder of Year (280')
-  Late Spring (284')
-  Early Spring (288')
-  Winter Period (289.5')

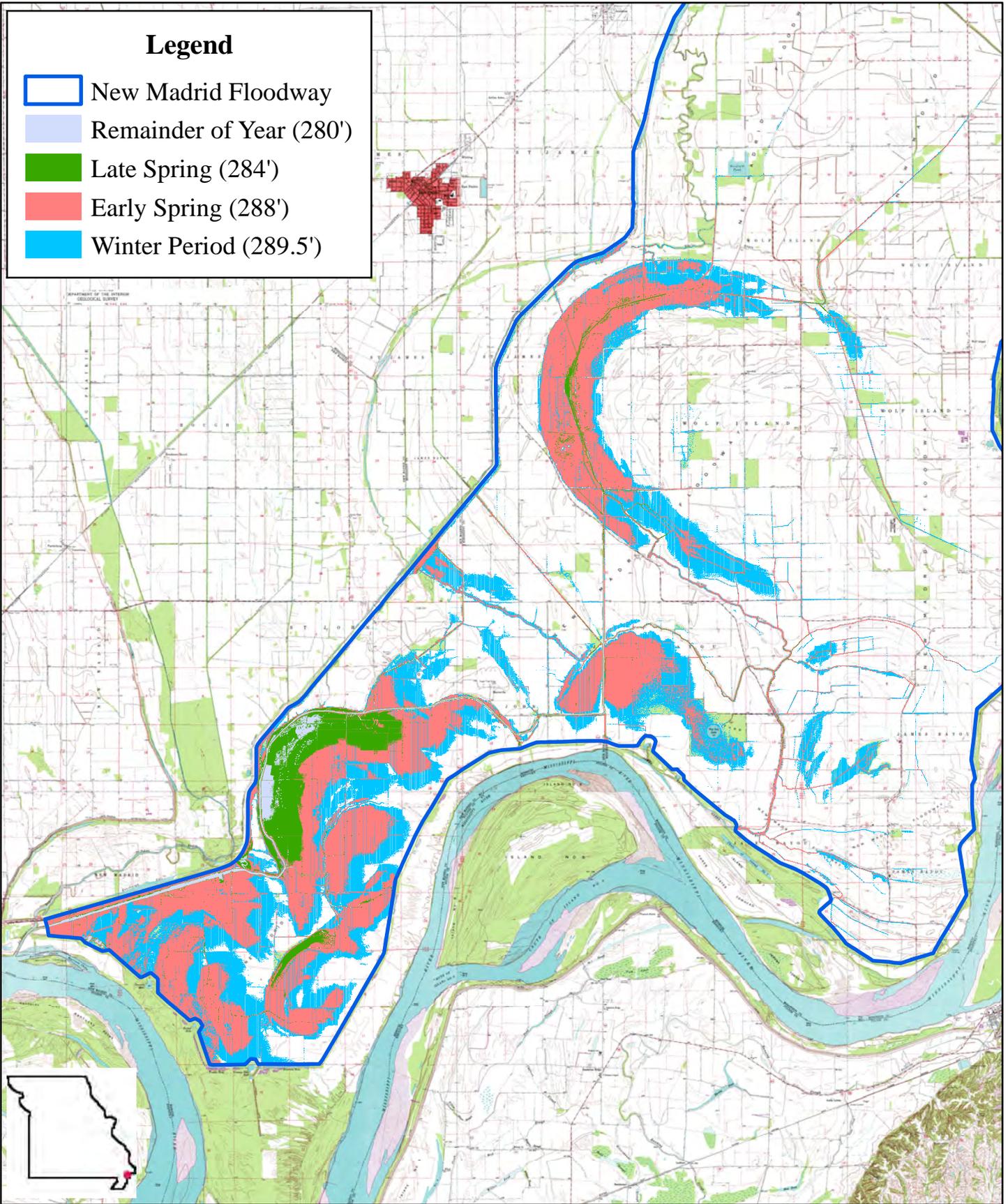
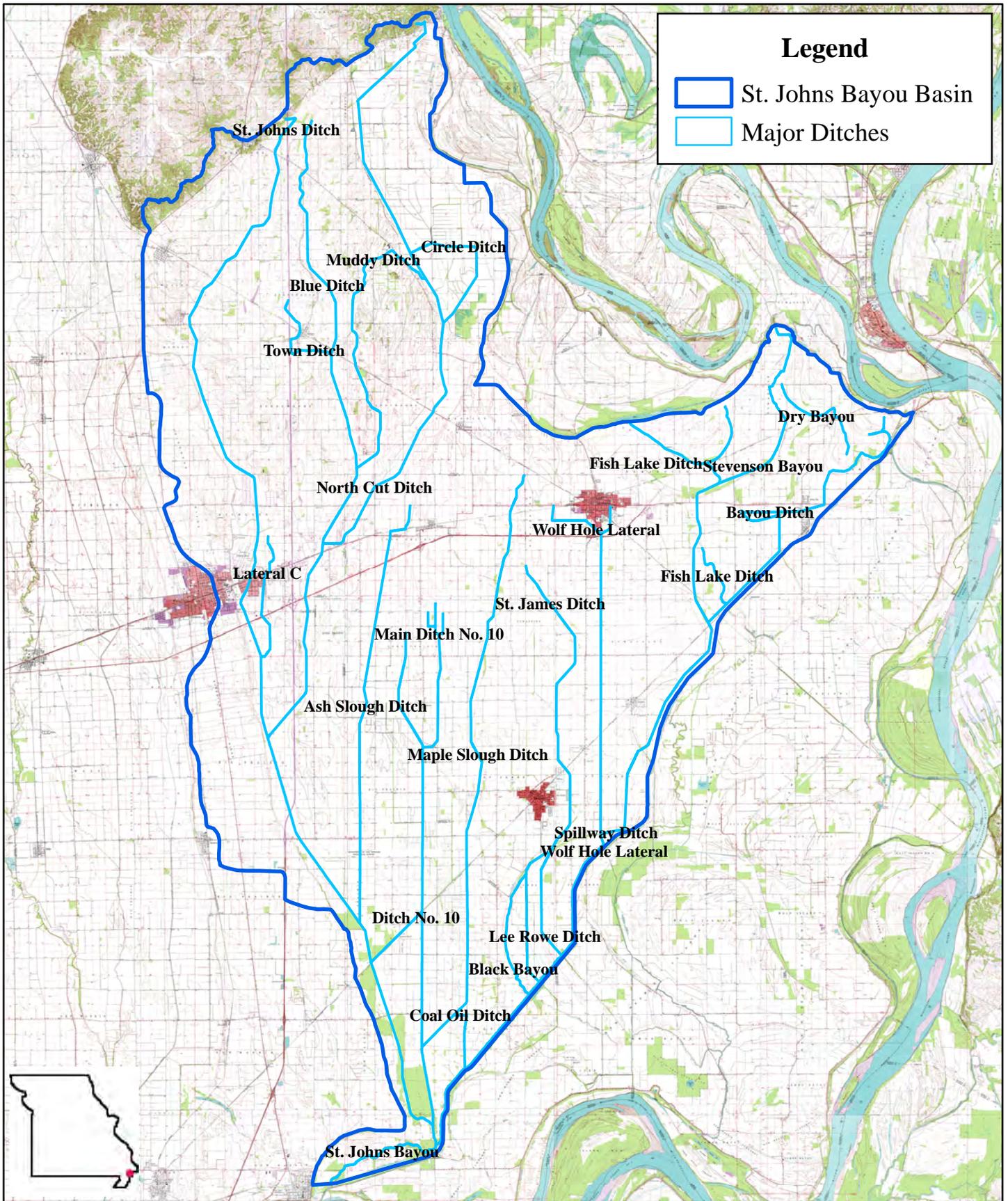


Figure: 2.3

 Miles  
0 1 2

**New Madrid Floodway  
Alt. 3.1 Gate and Pump Management**





**Legend**

- St. Johns Bayou Basin
- Major Ditches



Figure: 3.1

0 2 4 Miles

## Major Ditches in the St. Johns Bayou Basin



A)



B)

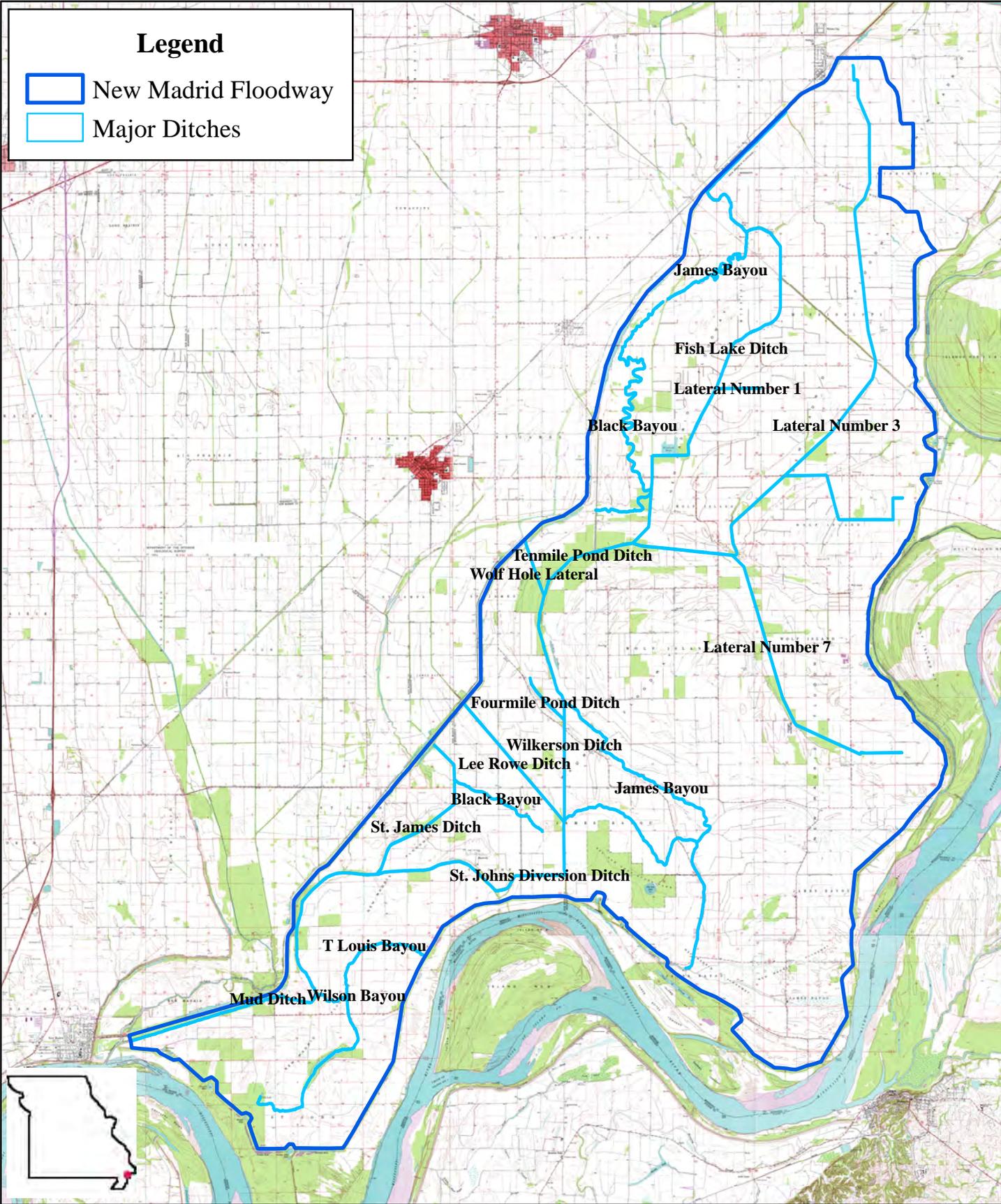


C)



Figure: 3.2

St. Johns Bayou Basin Ditches: St. Johns (A),  
Setback Levee (B), and St. James (C)



**Legend**

-  New Madrid Floodway
-  Major Ditches

James Bayou

Fish Lake Ditch

Lateral Number 1

Black Bayou

Lateral Number 3

Tenmile Pond Ditch  
Wolf Hole Lateral

Lateral Number 7

Fourmile Pond Ditch

Wilkerson Ditch  
Lee Rowe Ditch

Black Bayou James Bayou

St. James Ditch

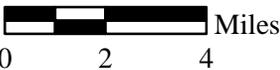
St. Johns Diversion Ditch

T Louis Bayou

Mud Ditch Wilson Bayou



Figure: 3.3



**Major Ditches in the  
New Madrid Floodway**



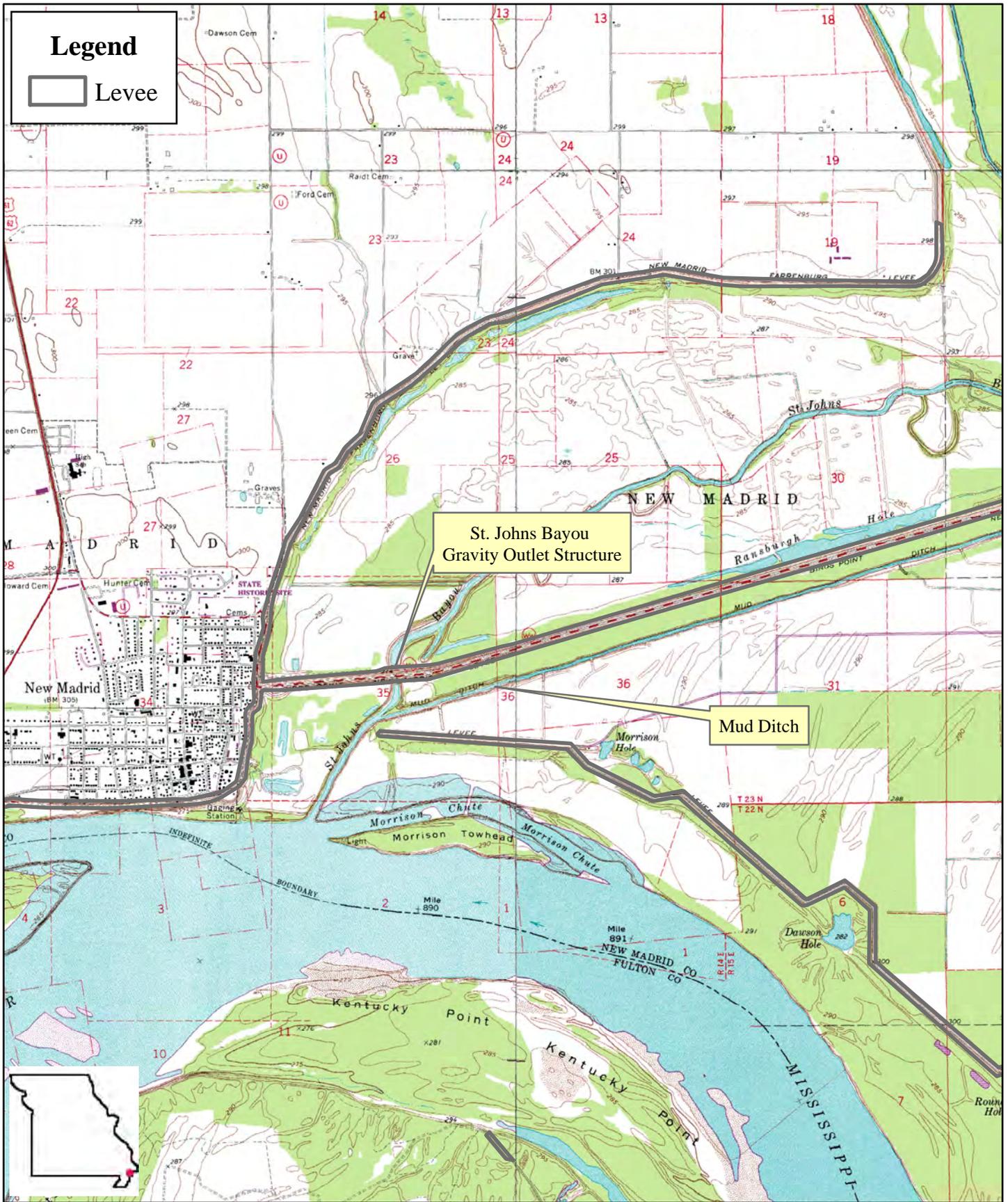


Figure: 3.4  
 0 0.25 0.5 Miles

### St. Johns Bayou Gravity Outlet Structure and Mud Ditch



A)



B)

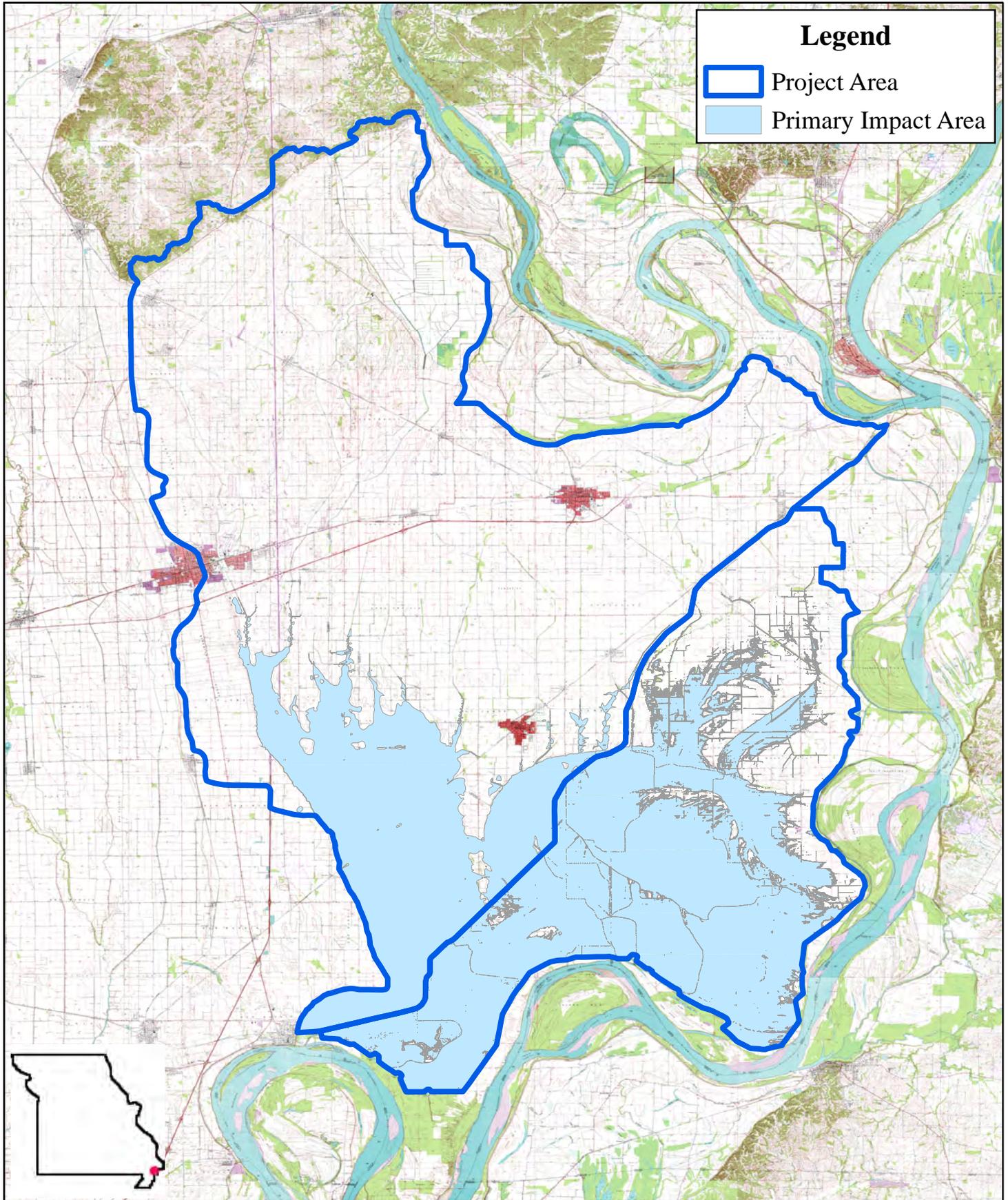


C)



Figure: 3.5

New Madrid Floodway Ditches: Mud (A),  
Wilkerson (B), and Ten Mile Pond (C)



**Legend**

-  Project Area
-  Primary Impact Area



Figure: 3.6

 Miles  
0 2 4

# Primary Impact Area



### Legend

- |  |   |  |
|--|---|--|
|  Project Area     |  Low BLH, BL Lakes   |  Savanna                 |
|  High BLH         |  MO Historic Prairie |  Slope Forest            |
|  High BLH Levee   |  Prairie             |  Terrace Hardwood Forest |
|  Intermediate BLH |  Riverfront Forest   |  |

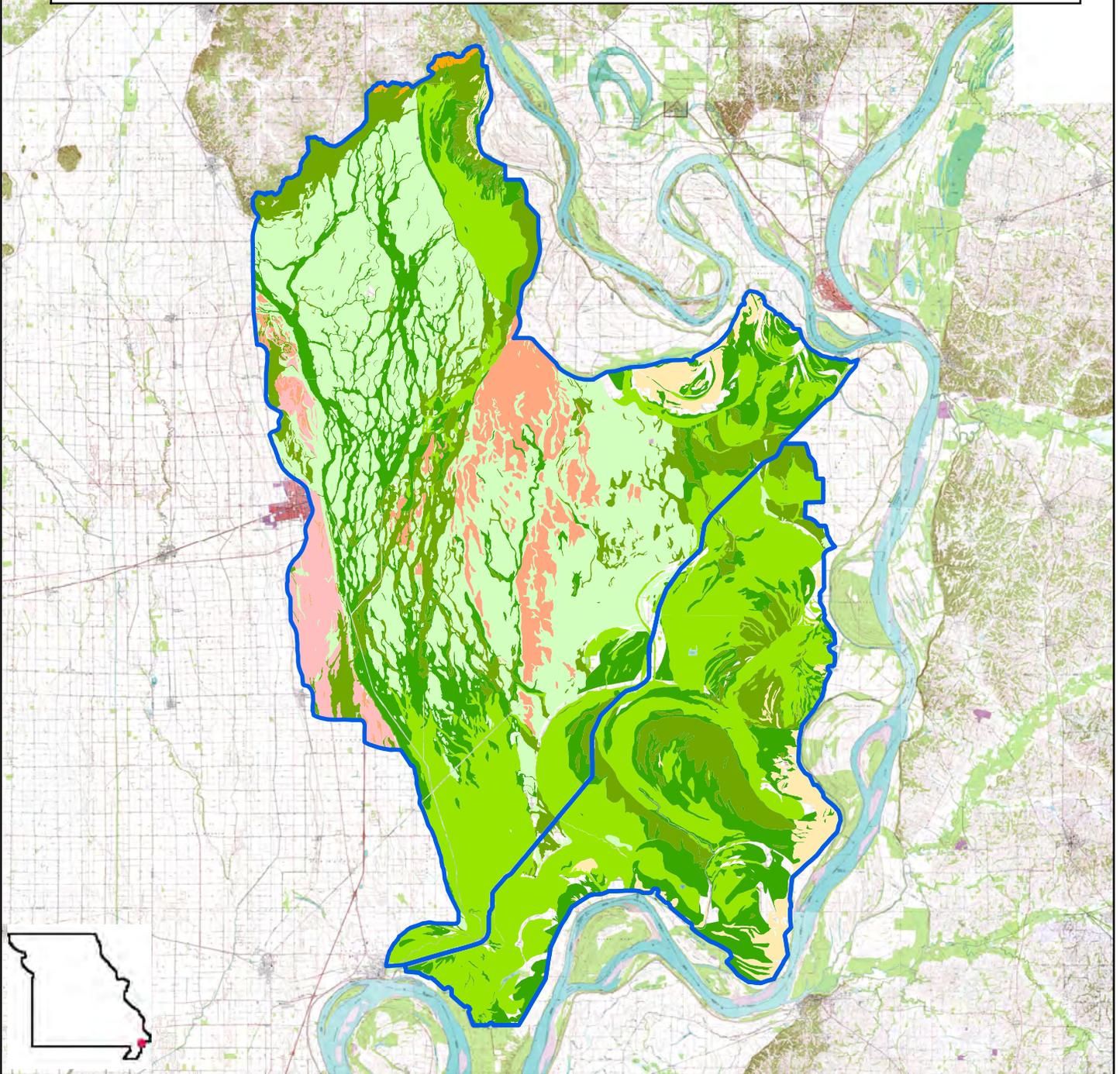


Figure: 3.7

0 3.5 7 Miles

## Land Use Map of Presettlement Conditions



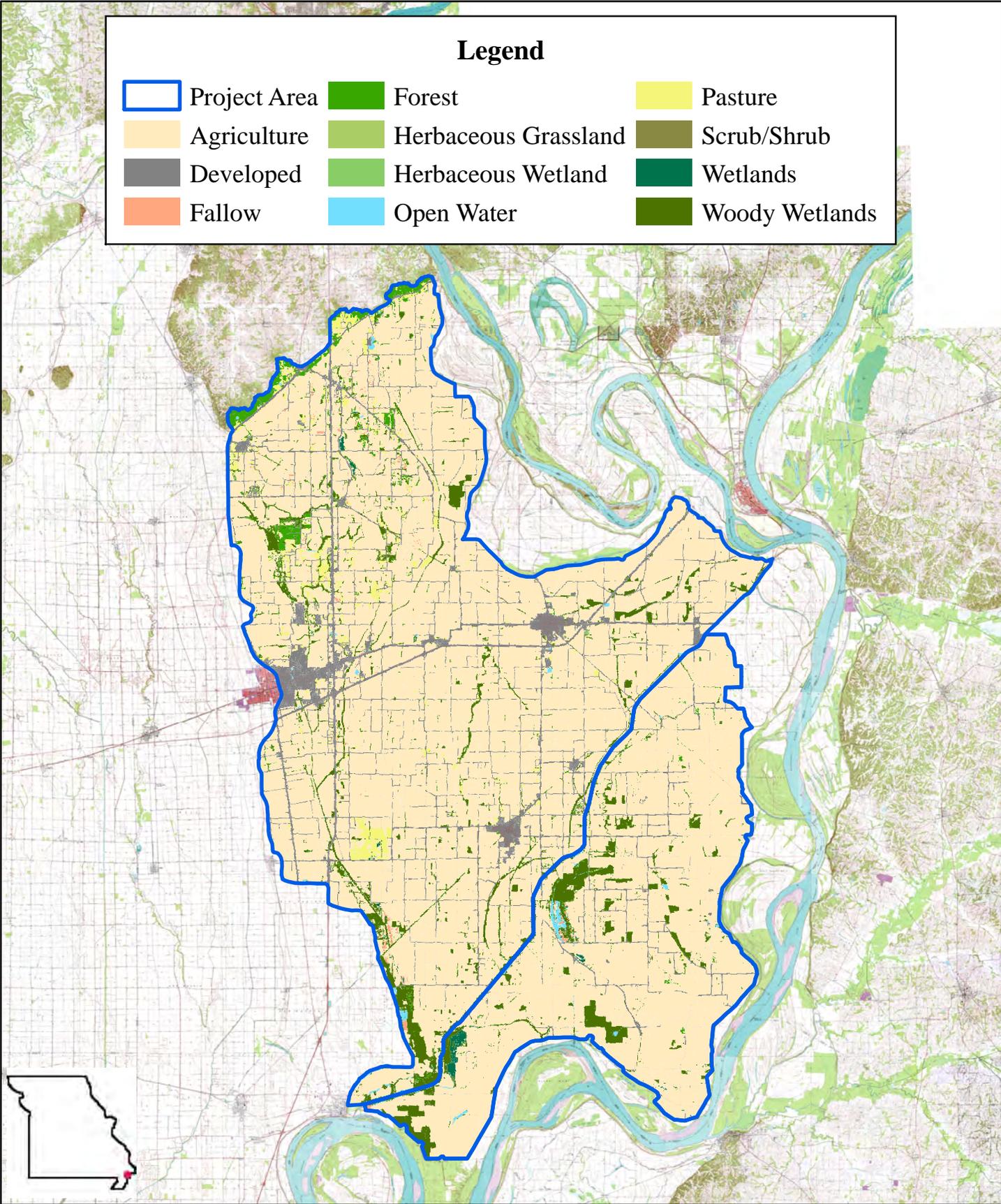
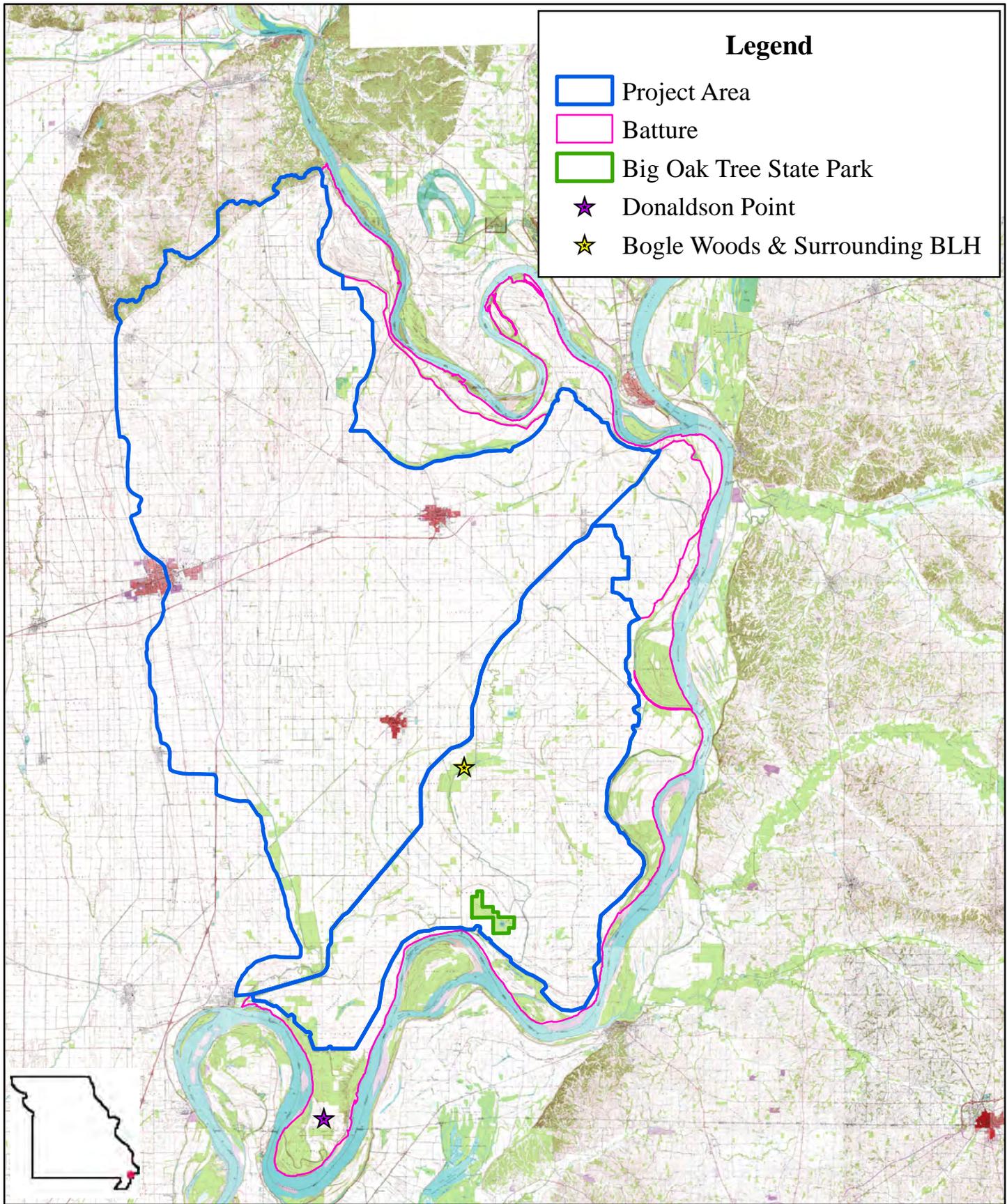


Figure: 3.8

 Miles  
0 3.5 7

Land Use Map of Existing Conditions





**Legend**

- Project Area
- Batture
- Big Oak Tree State Park
- ★ Donaldson Point
- ★ Bogle Woods & Surrounding BLH



Figure: 3.9



## Large Forested Tracts in the Project Area



### Legend

-  Project Area
-  All areas are prime farmland
-  Not prime farmland
-  Prime farmland if drained
-  Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if irrigated
-  Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
-  Prime farmland if protected from flooding or not frequently flooded during the growing season

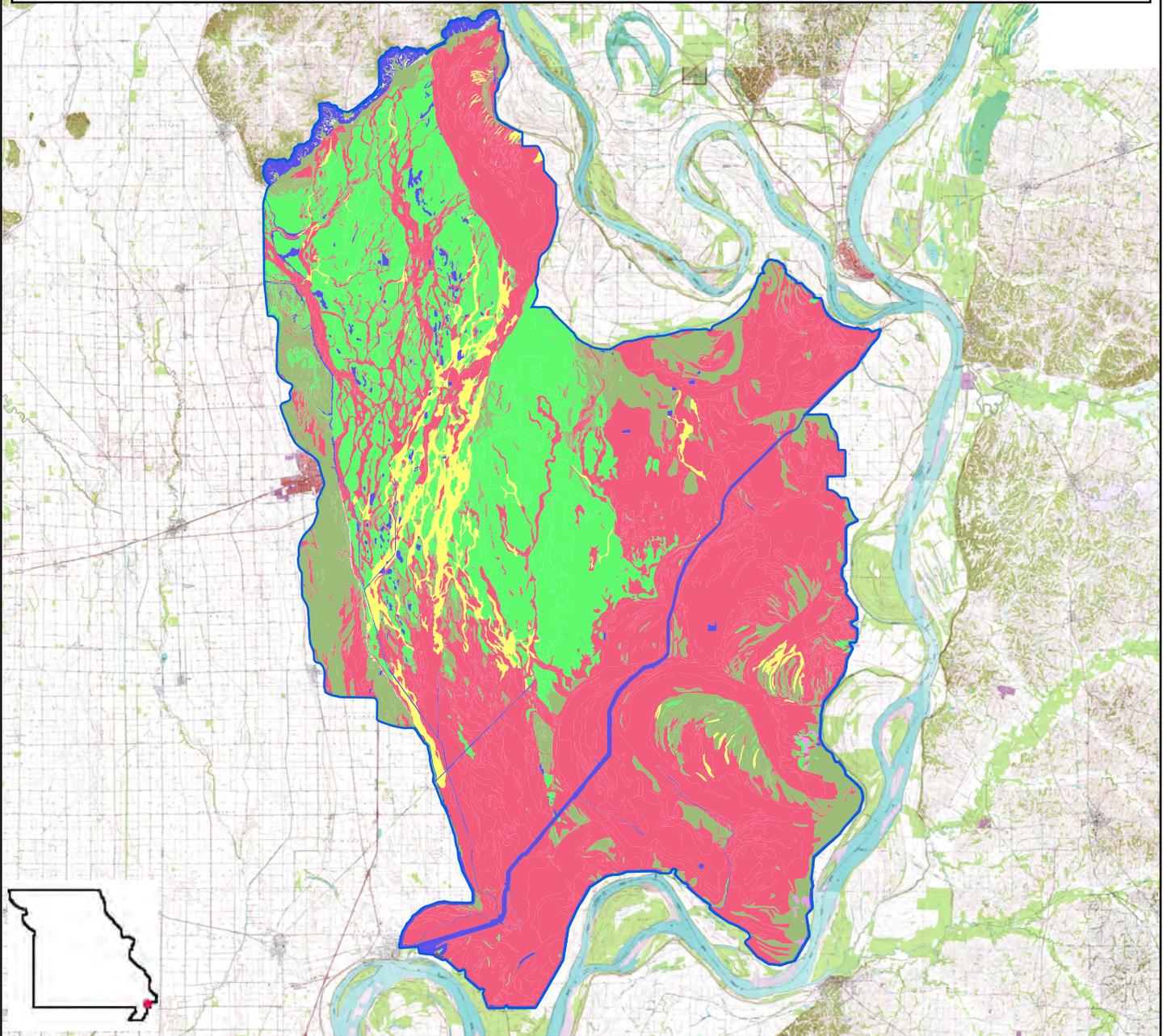
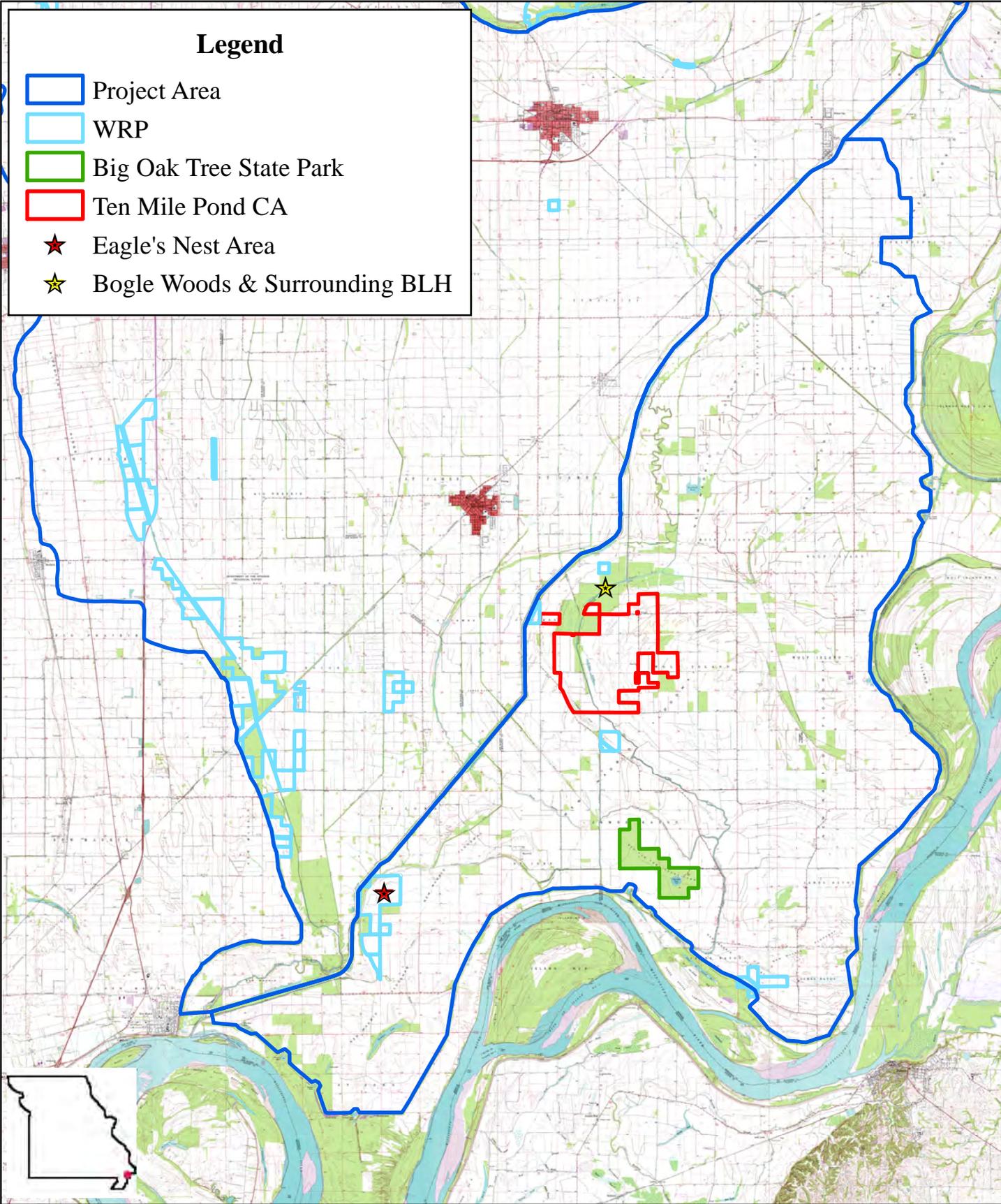


Figure: 3.10

 Miles  
0 3.5 7

## Prime Farmland in the Project Area





**Legend**

- Project Area
- WRP
- Big Oak Tree State Park
- Ten Mile Pond CA
- ★ Eagle's Nest Area
- ★ Bogle Woods & Surrounding BLH



Figure: 3.11  
 Miles  
 0 1.5 3

Natural Habitat Locations  
 Within the Project Area

