

# Shelby County Conservation Areas (Less Than 155 Acres)

Arrow-Wood Conservation Area

Fred Bollow Conservation Area

Pin Oak Conservation Area

## Ten-Year Area Management Plan FY 2018-2027



*Lisa B. Allen*

Forestry Division Chief

*10-24-17*

Date

*[Signature]*

Wildlife Division Chief

*10/31/17*

Date

## Shelby County Conservation Areas Management Plan Approval Page

### PLANNING TEAM

Chad Smith, Wildlife Management Biologist

Kyle Monroe, Resource Forester

Darren Thornhill, Fisheries Management Biologist

Krista Noel, Natural History Biologist

Kevin Lockard, Conservation Agent

### NORTHEAST REGION

RCT Chair

Matt Combes  
Signature

30 August 2017  
Date

### FORESTRY DIVISION

Forest Management Chief

Justin Gachua  
Signature

10/23/17  
Date

### WILDLIFE DIVISION

Wildlife Management Chief

Michael D. Schwen  
Signature

9/7/17  
Date

## OVERVIEW

This plan covers three conservation areas in Shelby County in the Northeast Region: Arrow-Wood Conservation Area (CA), Fred Bollow CA, and Pin Oak CA.

Area Name	Area Number	Year Acquired	Acreage	County	Administrative Responsibility	Maintenance Responsibility
Arrow-Wood CA	8822	1988	153	Shelby	Forestry	Forestry
Fred Bollow CA	7113	1971	41	Shelby	Wildlife	Wildlife
Pin Oak CA	6505	1963	66	Shelby	Wildlife	Wildlife

### Statements of Purpose:

#### A. Strategic Direction

Arrow-Wood CA, Fred Bollow CA, and Pin Oak CA's provide compatible outdoor recreational activities, including hunting and fishing. Arrow-Wood CA provides bank and wadefishing access to the North Fork of the Salt River. Sound forestry practices are implemented on these areas to enhance forest health and wildlife habitat.

#### B. Desired Future Condition

The desired future condition of these conservation areas is to provide a healthy forest and woodland community with functioning riparian and floodplain areas.

#### C. Federal Aid Statement

N/A

## GENERAL INFORMATION AND CONDITIONS

### I. Special Considerations

Area Name	Priority Areas	Natural Areas
Arrow-Wood CA	North Fork Salt River Aquatic Conservation Opportunity Area	None
Fred Bollow CA	None	None
Pin Oak CA	None	None

### II. Important Natural Features and Resources

Area Name	Species of Conservation Concern	Caves	Springs
Arrow-Wood CA	Yes <sup>1</sup>	None	None
Fred Bollow CA	None	None	None
Pin Oak CA	None	None	None

<sup>1</sup> Species of conservation concern are known from this area. Area Managers should consult the Natural Heritage Database annually and review all management activities with the natural history biologist.

### III. Existing Infrastructure

Area Name	Boat Access	Parking Area #
-----------	-------------	----------------

Arrow-Wood CA	1 (gravel) <sup>1</sup>	2
Fred Bollow CA	None	None (foot access only)
Pin Oak CA	None	1

<sup>1</sup> Unimproved access suitable for launching small boats and canoes on the North Fork Salt River

**IV. Area Restrictions or Limitations**

Area Name	Deed Restrictions	Federal Interest	Easements	Cultural Resources	Endangered Species	Boundary Issues
Arrow-Wood CA	None	Yes <sup>2</sup>	None	None known	None observed	None
Fred Bollow CA	Yes <sup>1</sup>	Yes <sup>2</sup>	None	None known	None observed	None
Pin Oak CA	None	Yes <sup>2</sup>	None	None known	None observed	None

<sup>1</sup> Donated with the intent “to be held in trust, for the use and benefit of the public forever.”

<sup>2</sup> Federal funds may be used in the management of this land. Fish and wildlife agencies may not allow recreational activities and related facilities that would interfere with the purpose for which the State is managing the land. Other uses may be acceptable and must be assessed in each specific situation.

**MANAGEMENT CONSIDERATIONS**

**V. Terrestrial Resource Management Considerations**

**Challenges and Opportunities:**

- 1) Active forest management is limited by poor access to Fred Bollow CA and Pin Oak CA.
- 2) Wooded riparian corridors provide many important ecological functions along stream channels.
- 3) Invasive species pose a threat to habitats on these conservation areas.

**Management Objective 1:** Maintain the forests of Fred Bollow CA and Pin Oak CA as old growth forests due to poor access.

**Strategy 1:** No active vegetation manipulation will occur on Fred Bollow CA and Pin Oak CA, allowing for natural processes to occur. (Wildlife, Forestry)

**Management Objective 2:** Maintain healthy trees and woodlands at Arrow-Wood CA with management emphasis on wildlife habitat and improved tree health and diversity.

**Strategy 1:** Conduct a complete forest inventory on Arrow-Wood CA that will be used to guide future management decisions. (Forestry)

**Strategy 2:** Implement appropriate management to benefit species of conservation concern and forest community’s activities, as identified in the

inventory. Management activities include, but are not limited to, use of prescribed burning, snag retention, and maintenance of a multilayered canopy with small gaps. (Forestry)

**Strategy 3:** Utilize Best Management Practices while conducting forest management as described in the Department's manuals: *Missouri Watershed Protection Practice* manual (Missouri Department of Conservation 2014) and the *Missouri Forest Management Guidelines Voluntary Recommendations for Well-Managed Forests* (Missouri Department of Conservation 2014) (Forestry)

**Management Objective 3:** Maintain an adequate riparian corridor on all streams running through these conservation areas.

**Strategy 1:** Maintain a forested corridor through natural regeneration. In flood prone areas, a minimum 200-foot corridor should be maintained, where feasible. In upland bluff areas, a minimum of 100-foot corridor should be maintained, where feasible. (Wildlife, Forestry)

**Strategy 2:** Where access roads or parking lots are in the stream corridor, they should be relocated outside of the corridor, if feasible. (Design and Development)

**Management Objective 4:** Monitor and control invasive species on the conservation areas.

**Strategy 1:** Continue to monitor for the presence of invasive plant species and remove invasive plants using an integrated pest management strategy as needed. (Forestry, Wildlife)

## VI. Aquatic Resource Management Considerations

### **Challenges and Opportunities:**

- 1) The North Fork Salt River flows approximately 0.8 miles through Arrow-Wood CA and is the major aquatic resource on the area.
- 2) Black Creek flows approximately 0.7 miles through Fred Bollow CA. The reach of Black Creek on the conservation area has not been channelized, but a channelization attempt on private land near the conservation area may divert a portion of high-stream flows around the area.

**Management Objective 1:** Maintain the high quality streams on the area.

**Strategy 1:** All management activities on the area will follow the *Watershed and Stream Management Guidelines for Lands and Waters Managed by the Missouri Department of Conservation* (Missouri Department of Conservation, 2009). (Wildlife, Forestry, Fisheries)

**Management Objective 2:** Monitor existing wetland on Pin Oak CA and explore options to enhance their functionality as seasonally flooded wetlands.

**Strategy 1:** Provide habitat for migratory birds and resident wetland wildlife using available management techniques. (Wildlife)

**Strategy 2:** Monitor for invasive species and develop an integrated pest management strategy as necessary (Wildlife, Forestry, Fisheries)

**Management Objective 3:** Maintain fishless ponds on Pin Oak CA.

**Strategy 1:** Monitor ponds for invasive exotic species. Suppress any infestations that may develop. (Fisheries)

**Strategy 2:** Provide suitable habitat for amphibians and reptiles in ponds with no fisheries management potential. (Wildlife, Fisheries)

## VII. Public Use Management Considerations

### **Challenges and Opportunities:**

- 1) Maintain areas to ensure that they are inviting to the public including areas frequently used for bank fishing and primitive camping.
- 2) Inappropriate use often occurs on some of these areas. Littering is the biggest enforcement challenge on these areas.
- 3) A sand deposit allows small boats and canoes to be launched for floating and fishing on the North Fork Salt River at Arrow-Wood CA.

**Management Objective 1:** Provide areas that are safe and attractive to the public.

**Strategy 1:** Ensure area parking lots are mowed and litter is removed according to Department maintenance standards. (Wildlife, Forestry)

**Strategy 2:** Ensure area users comply with area regulations. (Protection)

**Management Objective 2:** Inform public about area regulations and other important information.

**Strategy 1:** Maintain signs according to Department policy. (Wildlife, Forestry)

**Strategy 2:** Maintain accurate and timely information on the Department's Atlas Database. Review information annually. (Wildlife, Forestry)



## APPENDICES

### **Public Input Summary:**

The draft Shelby County Conservation Areas Management Plan was available for a public comment period June 1–30, 2016. The Missouri Department of Conservation received comments from one respondent (Appendix A). The Shelby County Conservation Areas Planning Team carefully reviewed and considered these ideas as they finalized this document. A brief summary of public input themes, including how they were incorporated or why they were not, can be found below. Rather than respond to each individual comment, comments are grouped into general themes and are addressed collectively.

Department responses to themes and issues identified through the Shelby County Conservation Areas public comment period.

### **Concerned that Fred Bollow Conservation Area is too small to allow firearms hunting. Suggests allowing archery hunting only.**

Fred Bollow Conservation Area was donated to the Missouri Department of Conservation. The intent of the donation was to provide a hunting opportunity to local youth and for public benefit. Maximizing hunting opportunity by allowing all statewide hunting methods is one way of providing this hunting opportunity to all area users. With no designated public access, parking lot, or signage along a public roadway, public use will continue to be minimal.

### **Concern with trespass from Fred Bollow Conservation Area users onto private land. Suggests better marking of the area boundaries.**

As highlighted in Management Objective 2 under Administrative Considerations, boundaries will continue to be monitored and maintained by staff periodically. Signs are replaced that have fallen into disrepair. Any trespassing should be immediately reported to the conservation agent or county sheriff.

### **Concerned with lack of decent access point to Fred Bollow Conservation Area.**

As outlined in the Administrative Considerations section, land for sale adjacent to Fred Bollow Conservation Area that provides better access to the area would be evaluated for purchase by the Department.



**References:**

Missouri Department of Conservation. (2009). *Watershed and stream management guidelines for lands and waters managed by Missouri Department of Conservation*. Jefferson City, MO: Missouri Department of Conservation.

Missouri Department of Conservation. (2014). *Missouri Forest Management Guidelines Voluntary Recommendations for Well-Managed Forests*. Jefferson City, Missouri: Conservation Commission of the State of Missouri.

Missouri Department of Conservation. (2014). *Missouri watershed protection practice recommended practices for Missouri forests: 2014 management guidelines for maintaining forested watersheds to protect streams*. Jefferson City, Missouri: Conservation Commission of the State of Missouri.

**Appendices:**

Appendix 1. Shelby County Conservation Areas Less Than 155 Acres

Appendix 2. Arrow-Wood CA Background

Appendix 3. Area Map of Arrow-Wood CA

Appendix 4. Fred Bollow CA Background

Appendix 5. Area Map of Fred Bollow CA

Appendix 6. Pin Oak CA Background

Appendix 7. Area Map of Pin Oak CA

Appendix 8. Shelby County Conservation Areas Management Plan Public Comments

Appendix 1. Shelby County Conservation Areas Less Than 155 Acres

## Shelby County Conservation Areas Less Than 155 Acres



**Appendix 2. Arrow-Wood CA Background**

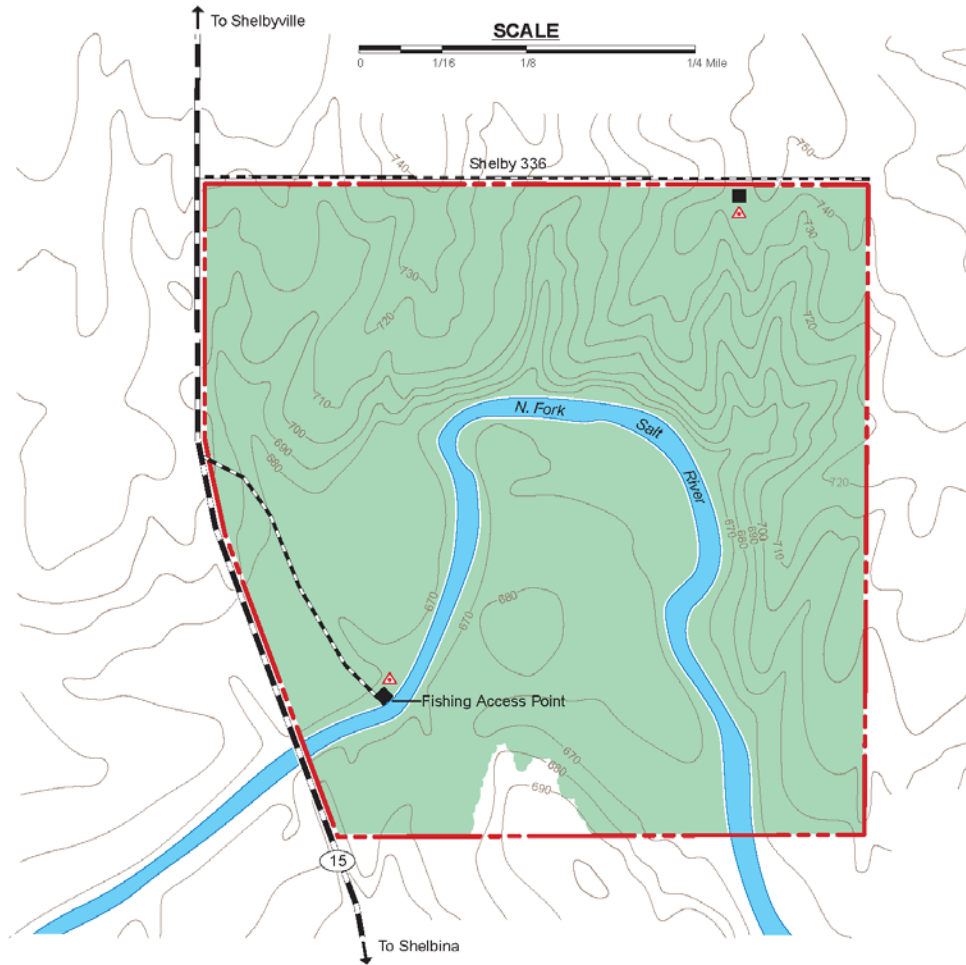
Arrow-Wood Conservation Area (CA) was purchased by the Department in January 1988. The mostly wooded 153-acre property was primarily purchased to protect a species of conservation concern on the tract. In addition, the area provides opportunity for hunting and access to the North Fork Salt River for stream fishing.

Arrow-Wood CA is adjacent to Highway 15, 3.5 miles north of Shelbina, in Shelby County.

**Current Land and Water Types:**

<b>Land/Water Type</b>	<b>Acres</b>	<b>Miles</b>	<b>% of Area</b>
Forest and Woodland	150		98
Old Field	3		2
<b>Totals</b>	<b>153</b>		<b>100</b>
Stream Frontage – North Fork of the Salt River		0.8	

### Appendix 3. Area Map of Arrow-Wood CA



## ARROW-WOOD CONSERVATION AREA

SHELBY COUNTY  
153 ACRES

### LEGEND

- Boundary
- Paved Road
- Gravel Road
- Parking Lot
- Primitive Camping Area
- Forest
- Topography

### VICINITY MAP



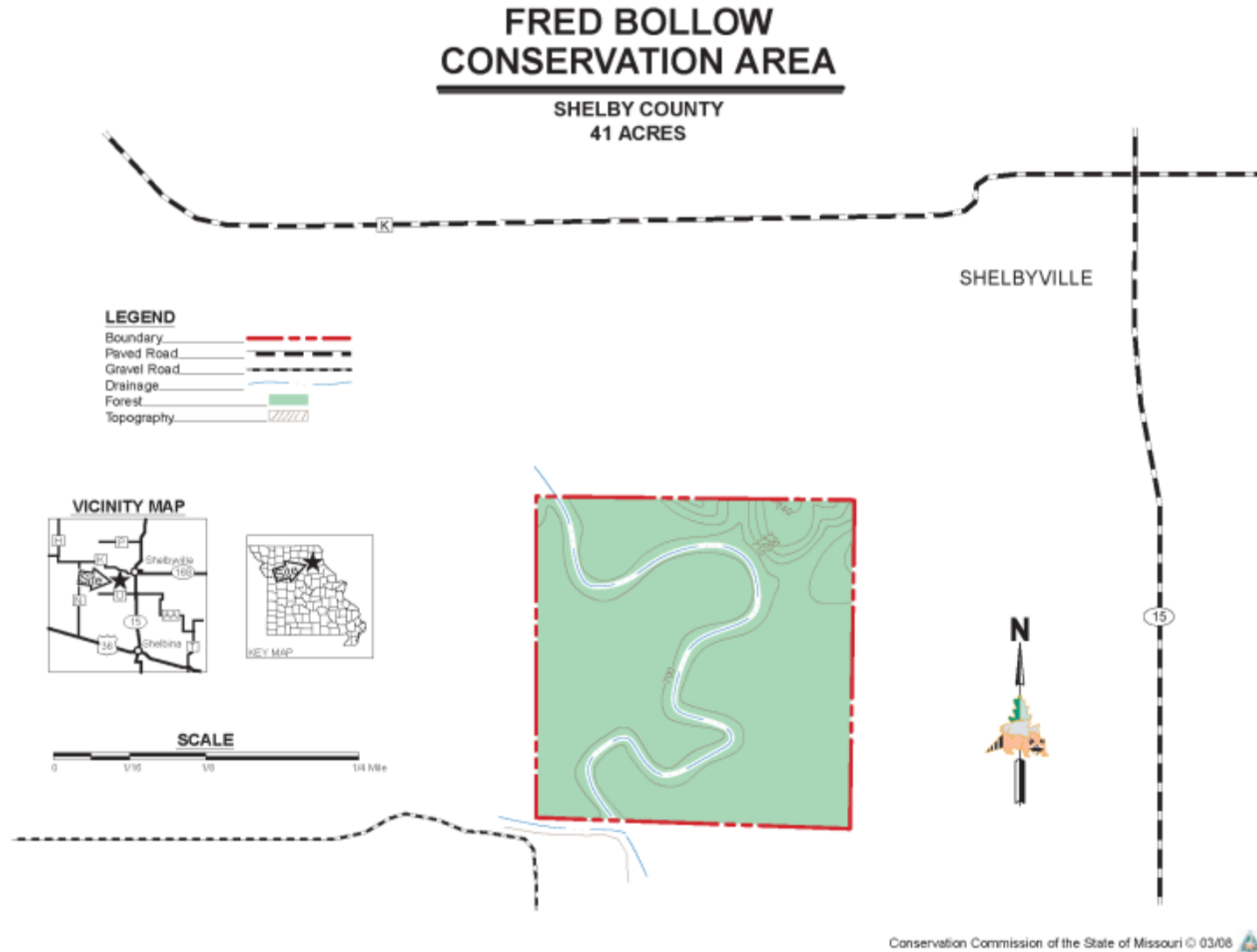
#### Appendix 4. Fred Bollow CA Background

The 41-acre Fred Bollow Conservation Area (CA) was donated to the Conservation Commission by Fred and Mary Bollow in March 1971, “to be held in trust, for the use and benefit of the public forever.” The tract was grazed before its donation to the Department in 1971.

#### Current Land and Water Types:

Land/Water Type	Acres	Miles	% of Area
Forest	41		100
Stream Frontage		0.6	

Appendix 5. Area Map of Fred Bollow CA



**Appendix 6. Pin Oak CA background**

The land that comprises the Pin Oak Conservation Area (CA) was donated to the Department by S. P. Glover and W. P. Forman of Shelbyville in 1963. The donation was comprised of two tracts: a 15-acre tract and a 66acre pin oak tract. The 15-acre tract was land-locked and was sold at a public auction. This left the 66acre pin oak tract.

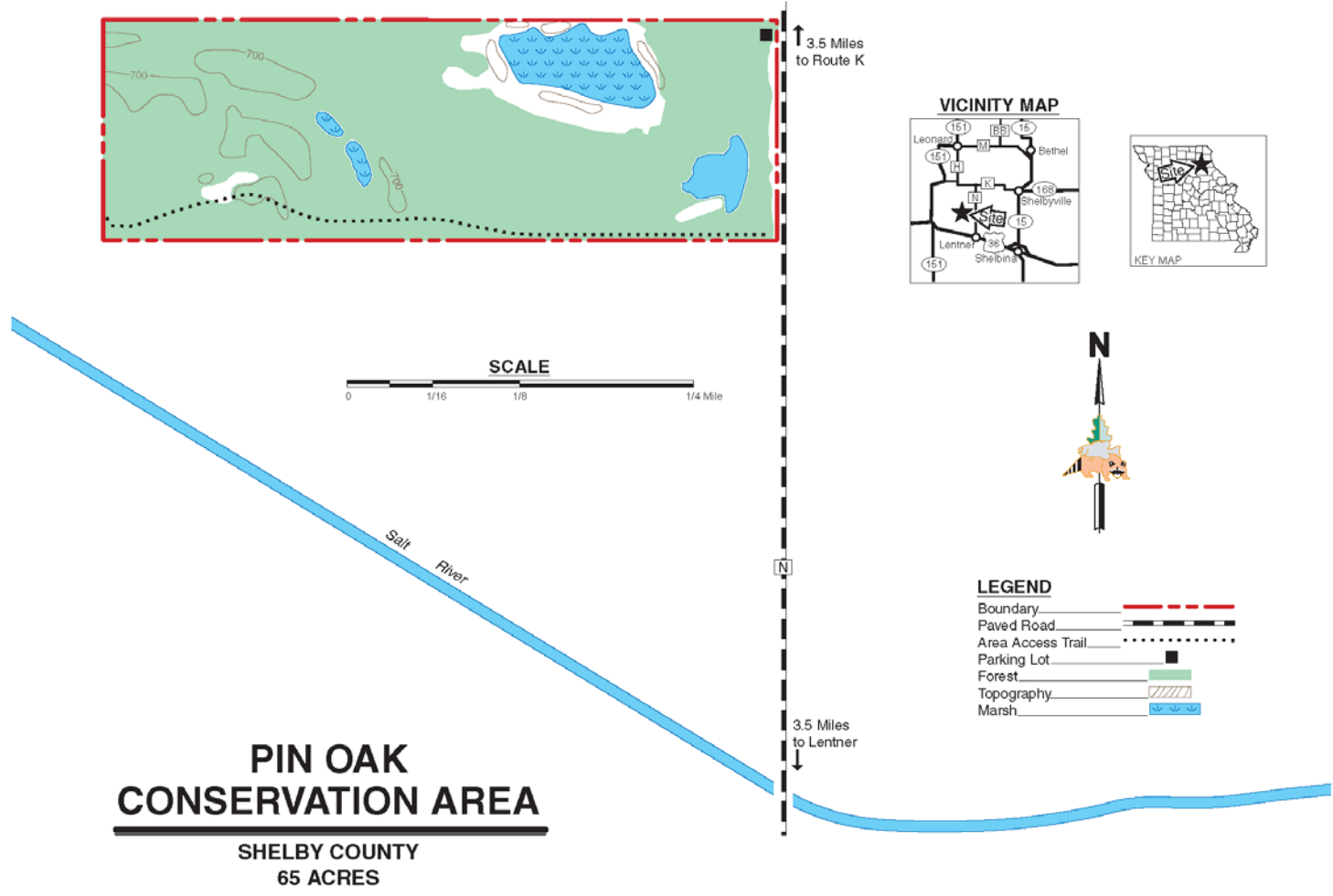
The 66acre area lies in the North Fork Salt River bottom, 4 miles north of Lentner on the west side of Route N. It is subject to frequent seasonal flooding.

There are two shallow pools on the area that were built for waterfowl hunting before the Department acquired the area. The smallest pool is located nearest the road and is about 0.5 acres in size. The larger pool is located near the north edge of the property and is 2.5 acres in size. The area also has several oxbows and sloughs.

**Current Land and Water Types:**

<b>Land/Water Type</b>	<b>Acres</b>	<b>Miles</b>	<b>% of Area</b>
Forest and Woodland	63		95
Wetland	3		5
<b>Totals</b>	<b>66</b>		<b>100</b>
Stream Frontage		0	

Appendix 7. Area Map of Pin Oak CA





**Appendix 8. Shelby County Conservation Areas Management Plan Public Comments**

Received during public comment period (June 1-30, 2016):

(Hardcopy Comment Received 6/10/2016): This C.A. of 41 acres is far too small for gun hunting. Every year we have shots coming into my property. It is likewise a doormat to my property. We have had many trespassing over the years from this property. If they are going to continue to have hunting, it should be BOW only. This property doesn't even have a decent access point. If a deer is killed many hunting simply cross my ground with it, because it is the easiest to travel. The signs need to be reprinted showing the boundaries of the ground. As you can tell I am very disappointed with the lack of management of the property.

Sincerely