

DRAFT
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 2017-2026



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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 ¹	None	None
Fred Bollow CA	None	None	None
Pin Oak CA	None	None	None

¹ 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) ¹	2
Fred Bollow CA	None	None (foot access only)
Pin Oak CA	None	1

¹ 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 ²	None	None known	None observed	None
Fred Bollow CA	Yes ¹	Yes ²	None	None known	None observed	None
Pin Oak CA	None	Yes ²	None	None known	None observed	None

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

² 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)

VIII. Administrative Considerations

Challenges and Opportunities:

- 1) No legal roadway access to Fred Bollow CA.
- 2) Maintain area boundaries.
- 3) Consider land acquisition, when available.

Management Objective 1: Consider costs and benefits of improving access to Fred Bollow CA.

Strategy 1: Analyze options for providing better public access to Fred Bollow CA. (Wildlife, Design and Development)

Management Objective 2: Keep boundary lines adequately posted.

Strategy 1: Area staff should repost boundaries as signs are removed or damaged. (Wildlife, Forestry)

Lands Proposed for Acquisition:

When available, adjacent land may be considered for acquisition from willing sellers. Tracts that improve area access, provide public use opportunities, contain unique natural communities and/or species of conservation concern, or meet other Department priorities, as identified in the annual Department land acquisition priorities, may be considered.

MANAGEMENT TIMETABLE

Strategies are considered ongoing unless listed in the following table:

	FY17	FY18	FY19	FY20	FY22	FY23	FY24	FY25	FY26
Terrestrial Resource Management Considerations									
<i>Objective 2</i>									
Strategy 1		X							
Strategy 2		X							

APPENDICES

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 1. Shelby County Conservation Areas Less Than 155 Acres

Shelby County Conservation Areas Less Than 155 Acres



Appendix 2. Arrow-Wood CA Background

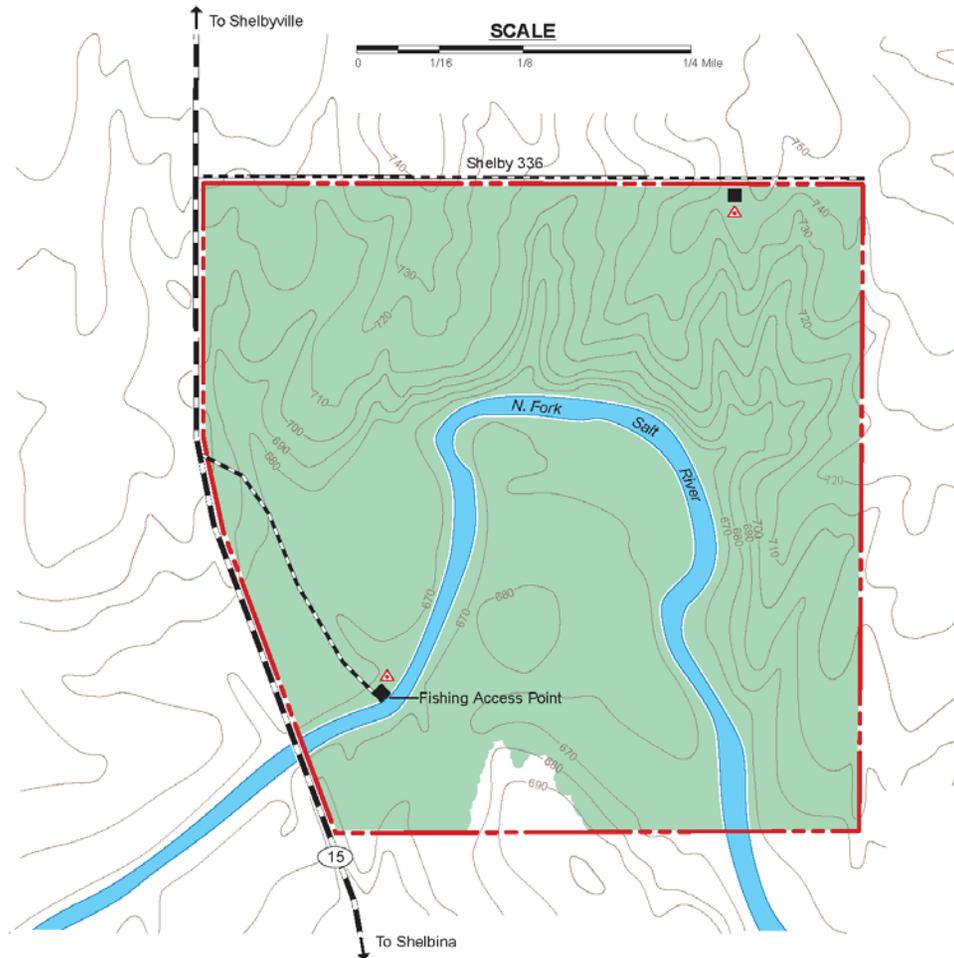
Arrow-Wood Conservation Area (CA) was purchased by the Department in January 1988. The mostly wooded 153-acre property was primarily purchased to protect a species of conservation concern on the tract. In addition, the area provides opportunity for hunting and access to the North Fork Salt River for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

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

Current Land and Water Types:

Land/Water Type	Acres	Miles	% of Area
Forest and Woodland	150		98
Old Field	3		2
Totals	153		100
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



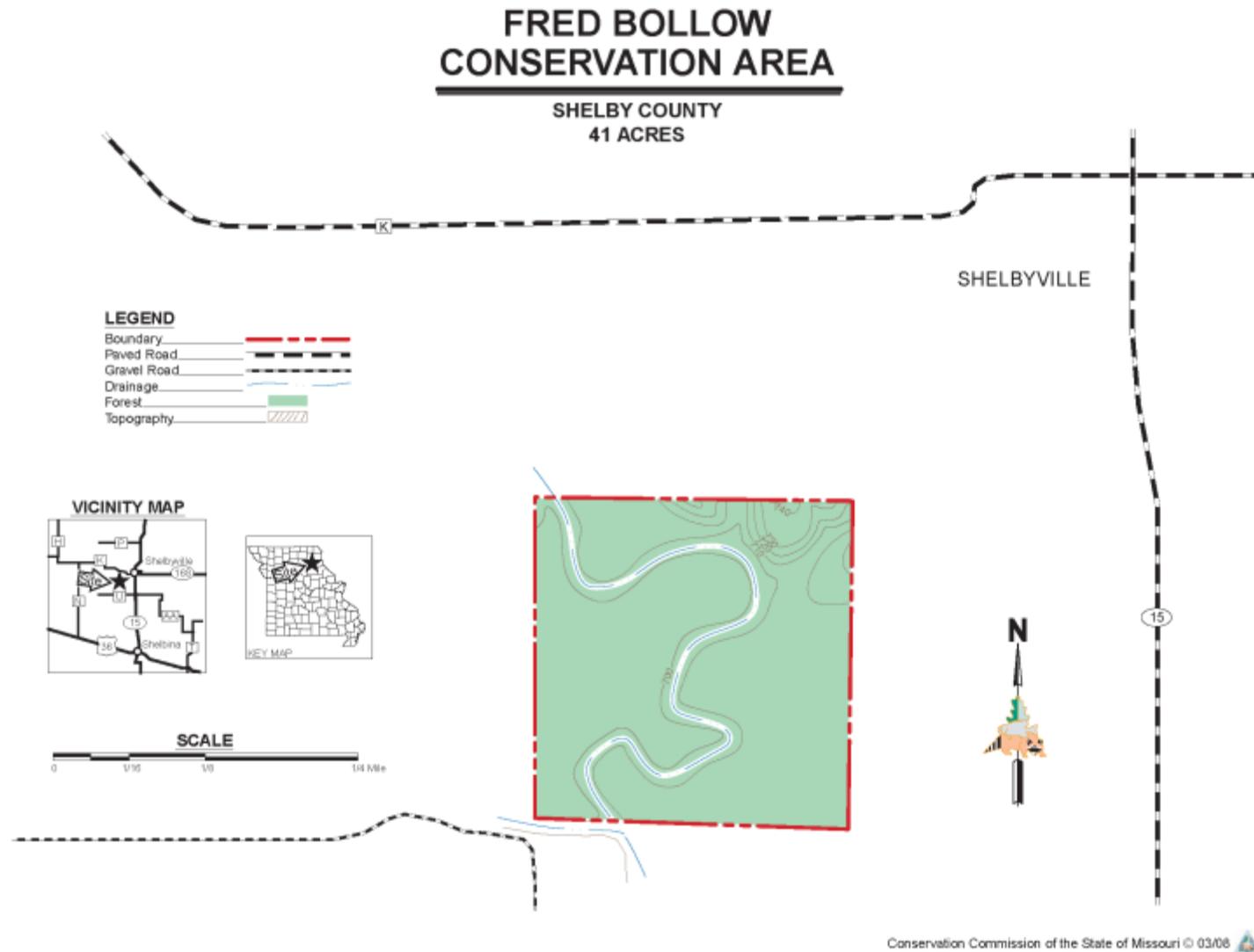
Appendix 4. Fred Bollow CA Background

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.

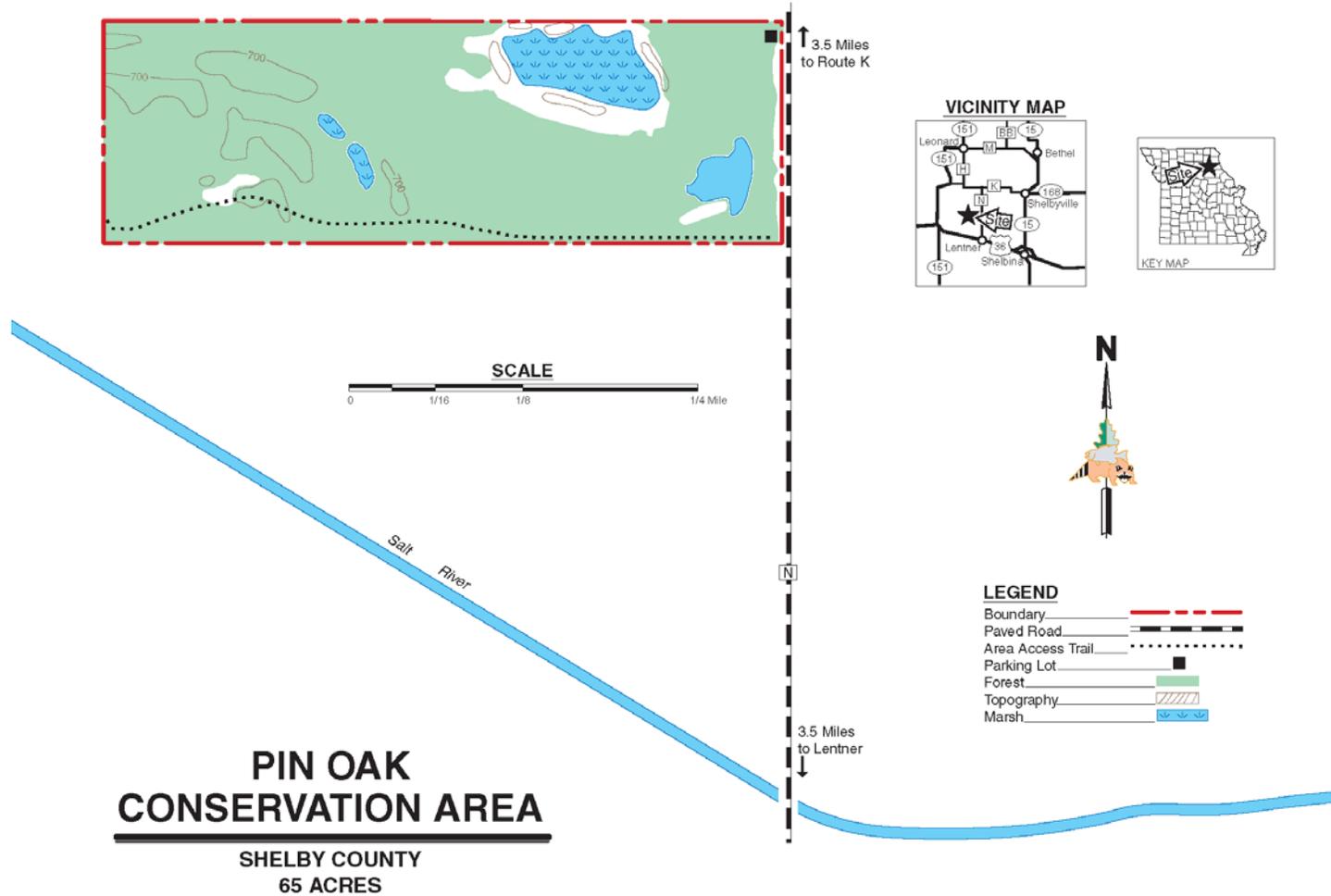
The 66acre area lies in the North Fork Salt River bottom, 4 miles north of Lentner on the west side of Route N. It is subject to frequent seasonal flooding.

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:

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

Appendix 7. Area Map of Pin Oak CA



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