

# **DRAFT**

# **Tywappity**

# **Community Lake and**

# **Towersite**

**Ten-Year Area Management Plan**  
**FY 2016-2025**



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## OVERVIEW

Area Name	Area Number	Year Acquired	Acreage	County	Administrative Responsibility	Maintenance Responsibility
Tywappity Community Lake	5708	1957	119.6	Scott	Forestry	Forestry
Tywappity Towersite	6823	1968	64.3	Scott	Forestry	Forestry

### Statements of Purpose:

#### A. Strategic Direction

Manage forestry, fisheries and wildlife resources while providing compatible recreational opportunities.

#### B. Desired Future Condition

The desired future condition of Tywappity Community Lake (CL) and Tywappity Towersite is a healthy forest/watershed.

#### C. Federal Aid Statement

N/A

## GENERAL INFORMATION AND CONDITIONS

### I. Special Considerations

Area Name	Priority Areas	Natural Areas
Tywappity CL	None	None
Tywappity Towersite	None	None

### II. Important Natural Features and Resources

Area Name	Species of Conservation Concern	Caves	Springs
Tywappity CL	None	None	None
Tywappity Towersite	None	None	None

### III. Existing Infrastructure

Area Name	Concrete Ramp	Floating Dock	Parking Areas	Privy	Shelter	Hiking Trail	Fishing Lake
Tywappity CL	1	2 (1 ADA accessible)	1 <sup>a</sup>	1 <sup>a</sup>	1 <sup>a</sup>	2.5 miles	1 (37 acres)
Tywappity Towersite	None	None	None	None	None	None	None

<sup>a</sup> Americans with Disabilities Act (ADA) accessible

**IV. Area Restrictions or Limitations**

Area Name	Deed Restrictions	Federal Interest	Easements	Cultural Resources	Hazards	Endangered Species	Boundary Issues
Tywappity CL	None	Yes <sup>1</sup>	Yes <sup>2</sup>	None known	None observed	None observed	None
Tywappity Towersite	None	Yes <sup>3</sup>	Yes <sup>4</sup>	None known	None observed	None observed	Yes <sup>5</sup>

<sup>1</sup> Federal funds were used in the development of Tywappity Community Lake, or a portion thereof. The Department must maintain the developed project throughout its useful life. Federal funds may also 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.

<sup>2</sup> Southeast Missouri Electric Cooperative easement.

<sup>3</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.

<sup>4</sup> Road easements across private land to access Tywappity Towersite.

<sup>5</sup> Establishing accurate and identifiable boundary markers is a priority for this property.

**MANAGEMENT CONSIDERATIONS**

**V. Terrestrial Resource Management Considerations**

Management of Tywappity CL and Towersite focuses on providing watershed protection and maintaining a healthy forest and wildlife community.

**Challenges and Opportunities:**

- 1) Provide adequate watershed protection.
- 2) Manage forest, fish and wildlife communities.
- 3) Provide access to Tywappity Towersite.

**Management Objective 1:** Provide adequate watershed protection by maintaining the existing forest cover and increasing the watershed protection area, if land acquisition opportunities arise.

**Strategy 1:** Manage existing upland mesic forest to grow high quality hardwoods and provide watershed protection. (Forestry)

**Strategy 2:** Conduct forest inventory according to inventory schedule. (Forestry)

**Strategy 3:** Conduct forest stand improvement. (Forestry)

**Strategy 4:** Install Best Management Practices after timber harvest. (Forestry)

**Strategy 5:** Monitor, identify and address invasive species infestations. (Forestry)

**Strategy 6:** Increase watershed protection through land acquisition, if feasible. (Forestry)

**VI. Aquatic Resource Management Considerations**

**Challenges and Opportunities:**

- 1) Grow and maintain a healthy and sustainable fishery.
- 2) Provide quality fish habitat.

**Management Objective 1:** Provide quality fish populations that provide diverse angling opportunities for the public.

**Strategy 1:** Conduct spring electrofishing surveys on a three rotation according to standardized protocols to assess largemouth bass and sunfish populations. Strive to meet the following parameters (EF CR = electrofishing catch rates, PSD = proportional stock density, RSD = relative stock density): (Fisheries)

Species	EF CR	PSD	RSD	3-Year Stock Length (inches)
Largemouth bass	100-150	40-60	10-30	11.5-14.5
Bluegill	100-200	40-60	>10	1

**Strategy 2:** Conduct standardized fall trap-netting surveys every two to three years to assess the crappie community. Strive to meet the following parameters (RSD9 = 9” relative stock density, RSD10 = 10” relative stock density): (Fisheries)

Species	RSD9	RSD10	2+-Year Stock Length (inches)
Black/white crappie	30-60	15-25	>8.5

**Strategy 3:** Conduct standardized hoop-netting surveys every two to four years to assess the channel catfish community. Strive to meet the following parameters (HN CR = hoop-netting catch rate, PSD = proportional stock density, GII = growth increment index): (Fisheries)

Species	HN CR	PSD	3-d Tandem GII
Channel catfish	40-100	30-60	0+

**Strategy 4:** Continue the annual supplemental stocking of channel catfish. The stocking rate may be adjusted periodically to maximize numbers for angler satisfaction and to meet the parameters listed in Strategy 3. (Fisheries)

**Management Objective 2:** Maintain beneficial aquatic vegetation at a level not to exceed 30 percent coverage and no more than 10 percent of the shoreline coverage, where bank angling is accessible during the growth months.

**Strategy 1:** Use herbicide if all other vegetation control measures fail or are not applicable. Apply spot treatment of aquatic approved glyphosate herbicide where plant densities dictate. (Fisheries)

**Management Objective 3:** Provide littoral and deep-water woody cover to diversify fish habitat and improve angler success.

**Strategy 1:** Assist Forestry Division with periodically felling large hardwood trees into the lake. (Fisheries)

**Strategy 2:** Periodically construct and place brush piles near the fishing docks, in the coves and in other locations. Small- to moderate-sized hardwoods and Christmas trees may be used to make the brush piles. (Fisheries)

## VII. Public Use Management Considerations

### **Challenges and Opportunities:**

- 1) Maintain areas and boundaries in a desirable condition.
- 2) Provide for a variety of uses at the areas. Inform the public of opportunities available at these areas. Promote public use and satisfaction.

**Management Objective 1:** Maintain areas in a safe and suitable condition.

**Strategy 1:** Maintain signage, access road and parking area in accordance with Missouri Department of Conservation (Department) policy (Forestry).

**Strategy 2:** Maintain boundaries with a combination of signs and paint on a four-year cycle (Forestry).

**Strategy 3:** Maintain lake dam in accordance with Department of Natural Resource's dam and reservoir safety regulations (Design & Development).

**Strategy 4:** Maintain trails in a safe and suitable condition on a yearly cycle (Forestry).

**Management Objective 2:** Investigate opportunities to reduce Department maintenance at these areas.

**Strategy 1:** Partner with Stream Teams and Master Naturalists for minor area maintenance. (Forestry)

**Strategy 2:** Explore possibility of individuals or groups to adopt the trail. (Forestry)

**Management Objective 3:** Balance recreational area uses with natural community and habitat management.

**Strategy 1:** Encourage and support recreational uses such as bird watching, geocaching, hiking, nature study and photography. (Forestry)

**Strategy 2:** Provide adequate hunting opportunities on Tywappity Towersite. (Wildlife)

**Management Objective 4:** Increase public awareness of the area and angling opportunities to promote public use and satisfaction.

**Strategy 1:** Prepare news releases, as needed, for regulation changes and to inform the public of fishing opportunities. (Fisheries)

**Strategy 2:** Prepare annual fishing prospects for inclusion in *Fishing Prospects at Selected Missouri Lakes and Streams*. (Fisheries)

**Strategy 3:** Work with local media specialist to highlight underutilized resources. (Fisheries)

## VIII. Administrative Considerations

### **Challenges and Opportunities:**

- 1) Ensure all easements are properly documented.
- 2) Evaluate land offered as additions to these areas.

### **Lands Proposed for Acquisition:**

When available, adjacent land may be considered for acquisition from willing sellers. Tracts that improve watershed protection, 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:”

	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
<b>Terrestrial Resources Management</b>										
Objective 1										
Strategy 2				X						
Strategy 3					X					
<b>Aquatic Resource Management</b>										
Objective 1										
Strategy 1		X		X		X		X		
Strategy 2	X			X			X			X
Strategy 3	X	X	X			X			X	

## **APPENDICES**

### **Appendices:**

Appendix 1. Map of Tywappity Community Lake and Towersite

Appendix 2. Tywappity Community Lake Area Background

Appendix 3. Tywappity Towersite Area Background

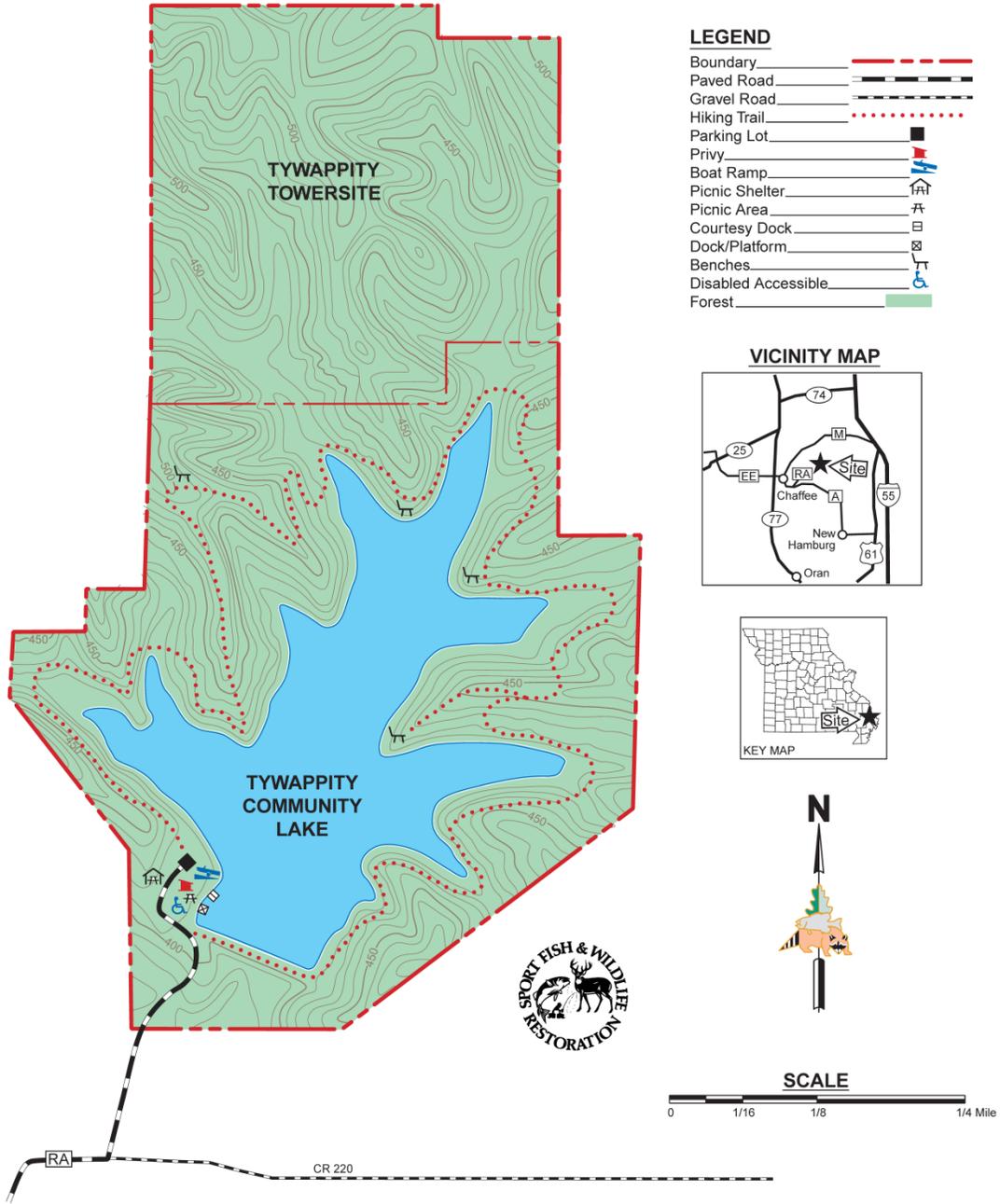
### **References:**

Missouri Department of Conservation. (2015). 2015 Fishing prospects at Selected Missouri Lakes and Streams. Jefferson City, Missouri: Missouri Department of Conservation.

Appendix 1. Map of Tywappity Community Lake and Towersite

# TYWAPPITY COMMUNITY LAKE AND TOWERSITE

SCOTT COUNTY  
184 ACRES



## Appendix 2. Tywappity Community Lake Area Background

Tywappity Community Lake was purchased from willing sellers in 1957 as a public fishing lake and has provided significant public use since that time. The area also includes upland forest on the slopes surrounding the lake, providing valuable watershed protection.

Legal Description: Township 29 North, Range 13 E, Section 8.

Area Location: Tywappity Community Lake is located approximately 1.0 mile northeast of Chaffee at the end of State Highway RA.

### Current Land and Water Types:

Land/Water Type	Acres	% of Area
Forest	82.6	69
Lake	37.0	31
<b>Total</b>	<b>119.6</b>	<b>100</b>

### **Appendix 3. Tywappity Towersite Area Background**

Tywappity Towersite was purchased from a willing seller in 1968 as a fire towersite. The fire tower was removed in the late 1980s. The area consists of very productive upland mesic forest, which provides hunting opportunities and valuable watershed protection for Tywappity Community Lake.

Legal Description: Township 29 North, Range 13 E, Section 8.

Area Location: Tywappity Towersite is located approximately 2 miles northeast of Chaffee at the end of State Highway RA.

#### **Current Land and Water Types:**

<b>Land/Water Type</b>	<b>Acres</b>	<b>% of Area</b>
Forest	64	100

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