

Tywappity Community Lake and Towersite

Ten-Year Area Management Plan
FY 2016-2025



Lisa M. Allen
Forestry Division Chief

5-23-17
Date

Tywappity Community Lake and Towersite Management Plan Approval Page

PLANNING TEAM

Leother Branch, Conservation Agent

Ryan Dirnberger, Wildlife Management Biologist

Bruce Henry, Natural History Biologist

Rocky Hayes, Forestry Regional Supervisor

Salvador Mondragon, Fisheries Management Biologist

Brad Pobst, Private Land Conservationist

SOUTHEAST REGION

RCT Chair



Signature

4-27-17

Date

FORESTRY DIVISION

Forest Management Chief



Signature

5-22-17

Date

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 ^a	1 ^a	1 ^a	2.5 miles	1 (37 acres)
Tywappity Towersite	None	None	None	None	None	None	None

^a 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 ¹	Yes ²	None known	None observed	None observed	None
Tywappity Towersite	None	Yes ³	Yes ⁴	None known	None observed	None observed	Yes ⁵

¹ 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.

² Southeast Missouri Electric Cooperative easement.

³ 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.

⁴ Road easements across private land to access Tywappity Towersite.

⁵ 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
Terrestrial Resources Management										
Objective 1										
Strategy 2				X						
Strategy 3					X					
Aquatic Resource Management										
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

Appendix A. Tywappity Community Lake and Towersite Management Plan Public Comments

Public Input Summary:

The draft Tywappity Community Lake and Towersite Management Plan was available for a public comment period December 1–31, 2015. The Missouri Department of Conservation received comments from two respondents (Appendix A). The Tywappity Community Lake and Towersite 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 Tywappity Community Lake and Towersite public comment period

Suggests adding a food plot or forest opening for deer and turkey.

At Tywappity the topography does not lend itself to food plots or forest openings. The area consists of very steep slopes with narrow ridges with almost no level or flat areas to make a food plot. The only flat spot on the area is on the towersite and is already maintained as a forest opening. Also, the soils on the area are extremely erosive and creating additional forest openings would only increase soil erosion into the lake. Since fishing is the primary objective for the area, maintaining a healthy forested watershed is our main priority.

Suggests adding signs to the area (a sign that specifies boat trailer parking only, signs for no parking so there is enough room for a boat trailer to turn around, signs that gas motors are not allowed).

These suggestions are valid concerns and we will install a sign to address the boat trailer parking only issue. We already use a sign “Electric Motors Only” at the bottom of the boat ramp which addresses the concern about gas motors not being allowed, but this sign may have not been present when you visited the area. One issue we constantly face on this area is vandalism. We continually have to replace signs which have been torn down or defaced. We inspect the area twice a week but still there are periods of time when signs may be missing. We appreciate help from local citizens informing us of missing signs and would also appreciate information on who has caused this vandalism. Your suggestion about no parking signs so there is enough room for a boat trailer to turn around needs further study. We’ve never had this concern brought to our

attention before, but we will look into it. Putting up no parking signs at the top of the ramp and not allowing folks to park in the prime parking spots on the area does not seem like a good use of space. If the width of the parking lot does not allow for one to turn around when all parking spaces are full, then we will look into reconfiguring the parking spaces or possibly widening the parking lot.

Suggests painting some reference stripes down the concrete ramp.

This proposal has merit, although we may need further clarification on where these reference stripes should go. Historically, we have not painted stripes on our single lane boat ramps, but adding painted stripes along the sides of the ramp would be easy to do. We do however paint stripes down the middle of double wide boat ramps.

Suggests adding a safety fence to the left of the boat ramp.

This proposal can be addressed by installing a short safety fence with signage to the left of the boat ramp where there is a steep bank.

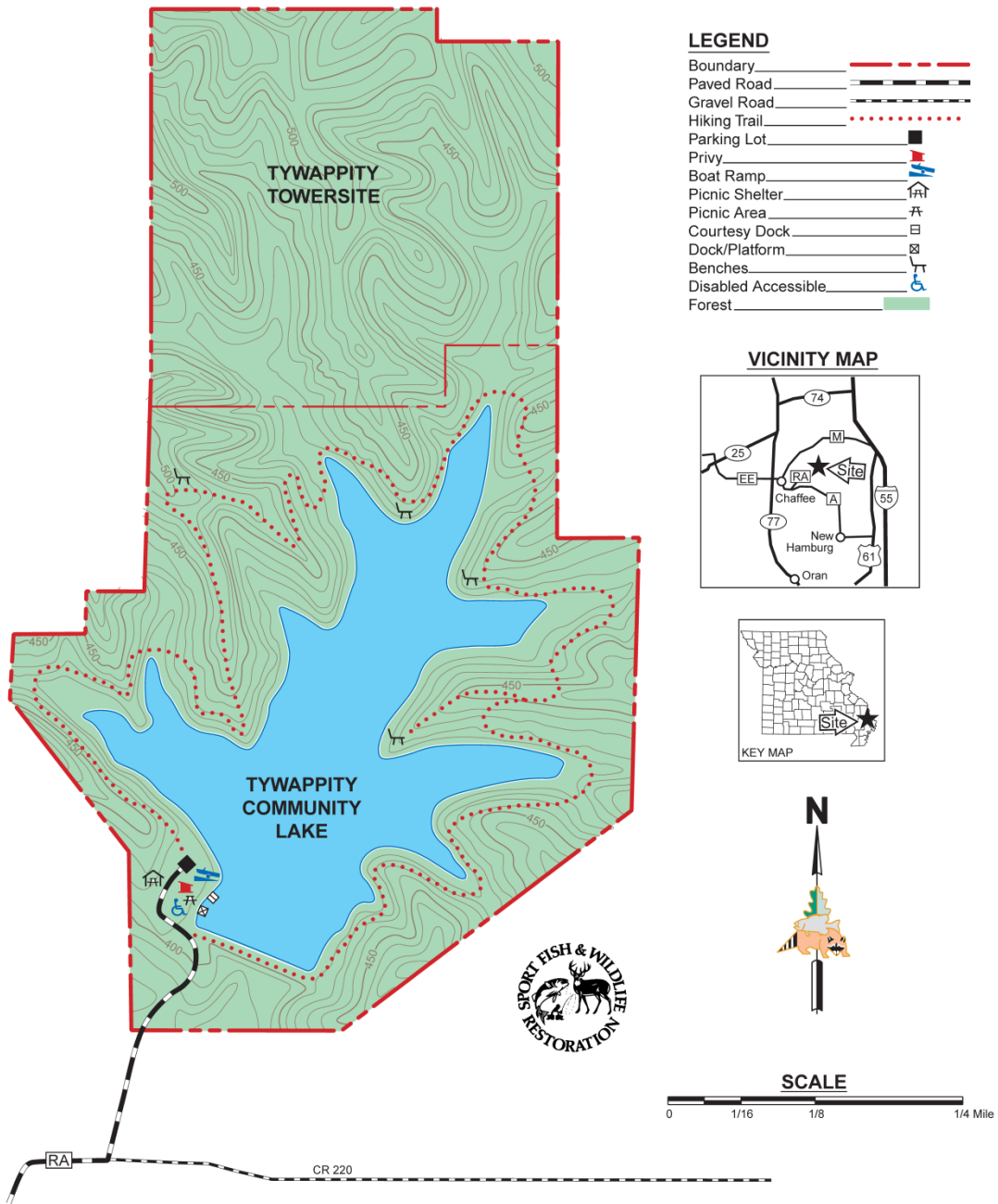
References:

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
Total	119.6	100

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:

Land/Water Type	Acres	% of Area
Forest	64	100

Appendix A. Tywappity Community Lake and Towersite Management Plan Public Comments

Received during public comment period (December 1-31, 2015):

I would like to see a small opening or two in the timber to allow for a food plot or bedding area for deer and turkey!

(email sent to Rocky Hayes 12/9/15): Just a couple comments about the conservation area at Twappity.

1. Put up a sign at the end of the parking lot that specifies parking for those pulling boat trailers.
2. Also not allow parking in front of the information sign for say 50 feet or so that those of us who pull boats can get turned around and back down the ramp.
3. Paint a couple stripes down the ramp for a reference point. It's kind of hard to back your boat using just the sides on the concrete.
4. I'd put up a kind of safety fence to the left of the boat ramp when looking down the ramp. Put it up on the hill. The water right there is pretty deep right by shore and it is easy to slide down that slope and into the deep water. A friend of mine did. he just disappeared and then came swimming around the corner.
5. Maybe put up a sign or two more to make it plain not to use gas motors on the lake.

Great lake to fish. Do enjoy it.