



# Missouri 4-H

University of Missouri  
4-H Center for Youth Development

## Sportfishing Project Brief

### Learning Objectives

- 4-H Sport Fishing comprises four knowledge and skill areas. Members are expected to complete activities in each of the four areas to meet the requirements of project completion.

These are:

o Angling skills - the basic skills of a successful fisherperson

- o Tackle craft - assemble from kits, custom build or modify current equipment
- o Aquatic ecology - healthy habitat for fish and other water life
- o People and fish - fishing ethics, fisheries management and folkways

### Fair Projects

- Display of lure types- w/brief description
- Fishing log-record of your fishing experiences
- Lures made by you
- Watershed map (yours)
- Educational exhibit on stream macro-invertebrates
- Lure retriever, hook remover, lure protector, secchi disk, minnow trap, lead sinkers, or other accessories you have made.
- Photo display - of fish species caught, or special places you've fished, etc.
- Collection (fishing related) - antique lures, old reels, manufacturer patches, memorabilia, etc.

### Demonstration Ideas

- Jig head Powder Painting
- Making an In-line Spinner
- Stocking a Tackle Box
- Selecting Your Rod & Reel
- How to Clean a Fish
- Casting Techniques
- Cooking/preparing Fish - Fish recipes

### Field Trips

- A state fish hatchery
- Visit/fish one of the state trout parks
- Wonders of Wildlife Museum - Springfield
- Attend a large fishing expo, such as KC Sport Show
- Observe fisheries management in action, such as electro- shocking, stream sampling, etc. (Contact MDC Fisheries biologist)

### Speech Topics

- Ethics in the Outdoors
- Threats to Missouri Streams
- Saving the Pallid Sturgeon
- Fishing Tournaments, the Good & the Bad

### Critical Thinking

- Selecting the appropriate equipment, accessories, method for the species & location.
- How weather and water conditions affect fishing
- What causes fish to bite?

### Community Service

- Active Stream Team member
- Assist at a special fishing day event
- Conduct a Fish Fry to raise funds for a worthy cause.

### Science & Technology

How can science and technology be used in this project area?

Examples:

- Understanding fish anatomy and biology
- Using a dichotomous key to identify fish
- How oxygen content, turbidity, temperature affects water quality
- Estimating fish populations.
- Techniques used in managing freshwater fisheries
- Aquatic food chains/webs
- Stream, pond, and/or river ecology

## Show Me Character

**Trustworthiness** - includes honesty, promise keeping and loyalty.

- Observe all rules and regulations
- Return any equipment you borrow, rent or use in same shape as you got them.
- Be on time

**Respect** - includes courtesy and proper treatment of people and things.

- Thank those that help, assist, teach, or guide you.
- Always treat others the way you want to be treated, practice fishing courtesy & etiquette
- Respect the resource, return fish to the water in a healthy condition or utilize it to the best of your ability. Don't waste or abuse your catch.

**Responsibility** - includes the pursuit of excellence, accountability and perseverance.

- Learn how you can be the healthiest "you" possible
- Increase your knowledge of aquatics & fisheries, and your fishing skill set.
- Protect the environment through responsible actions.

**Fairness** - involves consistently applying rules and standards appropriately for different age groups and ability levels.

- Follow the fishing rules and regulations established by MDC; and of the fishing competition or event in which you participate.
- Don't "butt in" on others fishing spots; don't push out younger kids
- Clean your share of the catch(or more).

## Resources

### 725 Sport Fishing Unit 1

Y7250 Take the Bait!

### 726 Sport Fishing Unit 2

Y7260 Reel in the Fun

### 727 Sport Fishing Unit 3

Y7270 Cast Into the Future

**Caring** - promoting the well being of people and things in a young person's world. It denotes action and not just feelings.

- Be supportive and help friends and family practice a healthy lifestyle
- Share your time and knowledge with a younger or less experienced fisherperson.

**Citizenship** - includes making the home community and county a better place to live for themselves and others.

- Do your part in keeping the environment clean and healthy.
- Volunteer to assist with community events
- Educate yourself on current issues relating to the environment by listening to the news, reading magazine and newspapers.

## Show Me Standards

Missouri 4-H members will acquire the knowledge and skills to gather, analyze and apply information and ideas, communicate effectively, recognize and solve problems, make decisions and act as responsible members of society.

4-H members will acquire a solid foundation which includes knowledge of:

- **Science** - characteristics and interactions of living organisms; impact of science, technology and human activity on resources and the environment.
- **Communication Arts** - participating in formal and informal presentations and discussions of issues and ideas.
- **Health/Physical Education** - diseases and methods for prevention, treatment and control.

## All Units

Y620 4-H Project Record

Y7200 Sportfishing Helper's Guide

Supplemental material may be requested when placing an order for the Sportfishing project curriculum.

Y7254 An Introduction to Fishing

Y7252 Introduction to Missouri Fishes

Missouri 4-H Sportfishing Project

<http://4h.missouri.edu/projects/projects4.htm#Fishing>

## To Order

Extension Publications online at <http://extension.missouri.edu/explore/shop/> or by phone 1-800-292-0969

For additional resources check with your local University of Missouri Extension Center or the 4-H Source Book at

<http://www.4-hmall.org/educationalresources.aspx>.