

# FISH MISSOURI IDENTIFICATION KEY Ebook

**fish missouri identification key** is an essential resource for anglers, biologists, and outdoor enthusiasts interested in accurately identifying fish species found throughout the Show-Me State. Missouri's diverse freshwater habitats—from the Ozark streams to the Missouri and Mississippi rivers—support a wide variety of fish, each with unique characteristics. An effective identification key simplifies the process of distinguishing between species, ensuring proper conservation efforts, research, and recreational activities. In this article, we will explore the key features used to identify Missouri fish, discuss common species, and provide practical tips for using an identification key effectively.

## Understanding Fish Identification in Missouri

Before diving into the specifics, it's important to understand what an identification key is and why it is vital for Missouri fish species.

### What Is a Fish Identification Key?

A fish identification key is a systematic tool that guides users through a series of choices based on physical characteristics—such as body shape, fin configuration, coloration, and scale type—to accurately identify fish species. These keys are typically dichotomous, meaning each step offers two options, leading the user to the correct species through a series of simple decisions.

### Why Is Fish Identification Important?

Proper identification of fish species is crucial for:

- Conservation and management of native and invasive species
- Ensuring legal compliance with fishing regulations
- Conducting scientific research
- Enhancing recreational fishing experiences
- Promoting awareness of biodiversity

## Key Features Used to Identify Fish Species in Missouri

Identifying fish involves observing specific morphological and anatomical features. Here are the main characteristics used in Missouri fish identification:

## Body Shape and Size

- Body form: elongated, compressed, deep-bodied, or slender
- Size: juvenile vs. adult, with maximum length and weight noted

## Fin Arrangement and Type

- Number of dorsal fins: single or multiple
- Position of fins: anterior, posterior, dorsal, pectoral, pelvic, anal, caudal fin
- Fin rays: soft or spiny rays, number of rays

## Coloration and Patterns

- Color patterns: spots, stripes, bars, or uniform color
- Color changes: breeding vs. non-breeding seasons

## Scale Type and Covering

- Scales: ctenoid, cycloid, or scaleless
- Presence of lateral line system: prominent or subtle

## Head and Mouth Characteristics

- Shape of head: rounded, elongated, or flattened
- Mouth position: terminal, superior, inferior
- Jaw structure: protractile or fixed

## Common Fish Species in Missouri and How to Identify Them

Missouri's freshwater fish community includes native species, introduced species, and invasive species. Here, we highlight some of the most common and easily recognizable fish, along with tips for identification.

### Native Fish Species

#### Smallmouth Bass (*Micropterus dolomieu*)

- Body shape: robust, deep-bodied with a slightly compressed profile
- Coloration: bronze or brownish with vertical dark bars
- Distinct features: smallmouths have a large mouth extending past the eye, and a series of dark vertical bars on the sides

### **Largemouth Bass (*Micropterus salmoides*)**

- Body shape: stocky, with a slightly compressed body
- Coloration: greenish with a horizontal dark stripe along the side
- Distinct features: large mouth extending past the eye, with a more prominent lateral stripe than smallmouths

### **Bluegill (*Lepomis macrochirus*)**

- Body shape: laterally compressed, oval-shaped
- Coloration: bluish-green body with a dark spot at the base of the dorsal fin
- Distinct features: black opercular flap with a blue or purple hue

### **Channel Catfish (*Ictalurus punctatus*)**

- Body shape: deep and laterally compressed
- Coloration: gray to bluish-gray with a smooth, scaleless skin
- Distinct features: barbels around the mouth resembling cat whiskers, forked tail

### **Walleye (*Sander vitreus*)**

- Body shape: elongated, sleek
- Coloration: olive-green with a pattern of irregular, dark vertical bars
- Distinct features: sharp teeth, large glassy eyes adapted for low-light hunting, and a spiny dorsal fin

## **Invasive and Introduced Species**

### **Common Carp (*Cyprinus carpio*)**

- Body shape: large, deep-bodied fish

- Coloration: golden-brown to grayish
- Distinct features: barbels on the upper jaw, heavy scales, and a prominent dorsal fin

### **Asian Silver Carp (*Hypophthalmichthys molitrix*)**

- Body shape: elongated and silvery
- Coloration: silver with a shiny body
- Distinct features: eyes positioned low on the head, large head, and a slightly upturned mouth

### **Bighead Carp (*Hypophthalmichthys nobilis*)**

- Similar to silver carp but with a larger head and more pronounced body size

## **Using an Identification Key Effectively**

To accurately identify fish species in Missouri, follow these practical steps:

### **Gather Necessary Equipment**

- A good quality fish identification guidebook or dichotomous key
- A measuring tape or ruler
- A camera or smartphone for photographs
- A magnifying glass (optional)

### **Observe the Fish Carefully**

- Note the body shape and size
- Examine fin placement and number
- Observe coloration and patterns
- Check for distinctive features like barbels, teeth, or scales

### **Use a Step-by-Step Approach**

- Start with broad characteristics (body shape, fin configuration)
- Narrow down options based on color patterns and specific traits
- Cross-reference findings with images or descriptions in your identification resource

## Record and Confirm

- Take photographs from multiple angles
- Record specific measurements
- Consult experts or local fisheries departments if unsure

## Additional Resources for Missouri Fish Identification

For comprehensive identification, consider consulting:

- Missouri Department of Conservation's Fish Identification Guides
- Field guides such as "Freshwater Fishes of Missouri" by David W. Hubble
- Online databases and apps designed for fish identification
- Local fishing clubs and herpetological societies

## Conclusion

The **fish Missouri identification key** is an invaluable tool for recognizing the diverse array of fish species inhabiting Missouri's waters. By understanding the key features—body shape, fin arrangement, coloration, scale type, and head characteristics—anglers and scientists can accurately identify fish, contributing to better management and conservation efforts. Remember, careful observation combined with a systematic approach enhances the accuracy of identification, making your fishing and research experiences more enjoyable and scientifically meaningful. Whether you're exploring Ozark streams or fishing in the Missouri River, mastering the fish identification key will deepen your appreciation of Missouri's rich aquatic biodiversity.

### Fish Missouri Identification Key: A Comprehensive Guide for Enthusiasts and Researchers

Understanding the diverse aquatic life inhabiting Missouri's waters is both a fascinating and essential endeavor for anglers, conservationists, researchers, and recreational fishers alike. Central to this pursuit is the Fish Missouri Identification Key, an invaluable tool designed to facilitate accurate identification of fish species within the state's varied freshwater ecosystems. This article aims to explore the intricacies, applications, and scientific underpinnings of this key, providing an in-depth analysis suitable for both casual enthusiasts and professional ichthyologists.

## Introduction to Fish Identification in Missouri

Missouri's freshwater systems, including rivers, lakes, ponds, and streams, harbor over 200 native fish species alongside numerous introduced and invasive species. Accurate identification is crucial

for ecological monitoring, fisheries management, conservation efforts, and recreational fishing. The Fish Missouri Identification Key serves as an essential instrument in this context, offering a systematic approach for distinguishing among species based on morphological features, habitat preferences, and other biological traits.

Identification keys are dichotomous or multi-access tools that guide users through a series of choices, narrowing down options at each step until reaching the correct species. They are particularly valuable in regions like Missouri, where morphological similarities among certain species can lead to misidentification without careful analysis.

## The Importance of a Regional Identification Key

While global or national fish identification guides exist, regional keys such as the Fish Missouri Identification Key account for local species diversity, endemic species, and regional morphological variations. Several benefits underscore their importance:

- Enhanced Accuracy: Localized keys incorporate regional morphological characteristics, reducing confusion among similar species.
- Conservation and Management: Accurate species identification informs conservation strategies, especially for threatened or invasive species.
- Educational Value: They serve as educational tools for students, anglers, and citizen scientists.
- Research Precision: Facilitates scientific studies requiring precise species data.

## Overview of the Fish Missouri Identification Key

The key is typically structured as a dichotomous guide, progressing through a series of morphological, behavioral, and habitat-based questions. Features commonly used include:

- Body shape and size
- Fin configuration and placement
- Scale type and count
- Mouth position and structure
- Coloration and markings
- Habitat preferences (e.g., riverine, lentic, benthic)

The key covers both native and introduced species, providing a comprehensive resource for Missouri's freshwater ichthyofauna.

## Core Morphological Features Used in Identification

Understanding the morphological traits used in the key is essential for accurate identification. Below is an overview of major features:

## Body Shape and Size

- Fusiform (torpedo-shaped): typical of fast-swimming predatory fish like bass.
- Laterally compressed: common in fish that navigate complex habitats.
- Deep-bodied: such as sunfish, which are adapted for maneuverability.

Size ranges vary widely, from small minnows less than 10 cm to large catfish exceeding 1 meter.

## Fin Configuration

- Number and placement of dorsal fins
- Presence of adipose fin (common in salmonids and some catfish)
- Anal fin structure
- Pectoral and pelvic fin positioning

## Mouth and Jaw Morphology

- Terminal, superior, or inferior mouth
- Mouth size and gape
- Presence of barbels (notably in catfish)

## Scales and Skin

- Type: ctenoid, cycloid, or scaleless
- Scale count along lateral line
- Skin coloration and patterns

## Coloration and Markings

- Body coloration: silvery, greenish, brownish
- Distinctive markings: spots, stripes, or blotches

## Key Fish Species in Missouri and Their Identification

The key encompasses a wide array of species. Here, we highlight some prominent groups:

## Game Fish

- Largemouth Bass (*Micropterus salmoides*): Large mouth extending past eye, greenish body with dark lateral stripe.
- Smallmouth Bass (*Micropterus dolomieu*): Smaller mouth, bronze coloration, vertical bars.
- Bluegill (*Lepomis macrochirus*): Deep-bodied sunfish with a dark spot at the base of dorsal fin.

## Common Benthic Fish

- Channel Catfish (*Ictalurus punctatus*): Deep forked tail, barbels on the upper lip, scaleless skin.
- Flathead Catfish (*Pylodictis olivaris*): Broad head, flattened snout, similar to channel catfish but larger.

## Minnow and Cyprinid Species

- Golden Shiner (*Notemigonus crysoleucas*): Silver body, streamlined, with a single lateral line.
- Fathead Minnow (*Pimephales promelas*): Short, rounded fins, and a prominent black spot at the dorsal fin base.

## Invasive and Non-native Species

- Asian Carp (*Hypophthalmichthys* spp.): Large size, silvery appearance, inferior mouth.
- Zebra Mussels (*Dreissena polymorpha*): Although not fish, often associated with freshwater habitats and can be identified by their distinctive shell.

## Applications of the Fish Missouri Identification Key

The practical uses of the identification key extend across multiple domains:

### Fisheries Management and Conservation

- Monitoring species populations
- Detecting invasive species early
- Developing species-specific management plans



## Research and Scientific Studies

- Biodiversity assessments
- Ecological niche modeling
- Genetic studies correlating morphological features

## Recreational and Educational Use

- Angler education on target species
- Citizen science projects
- Schools and outreach programs

## Challenges in Fish Identification

Despite its utility, the identification process faces certain challenges:

- Morphological Variability: Fish can exhibit phenotypic plasticity based on environment or age.
- Hybridization: Some species hybridize, creating intermediate forms that complicate identification.
- Invasive Species: Rapidly spreading non-natives may resemble native species.
- Limited Visibility: Turbid waters or nocturnal behavior can hinder visual identification.

To address these issues, supplementing morphological keys with molecular tools such as DNA barcoding is increasingly common.

## Future Directions and Enhancements

Advancements in technology and research methods offer promising avenues to refine the Fish Missouri Identification Key:

- Digital and Interactive Keys: Mobile applications with image libraries and decision trees.
- Artificial Intelligence (AI): Machine learning algorithms for automated identification based on photographs.
- Citizen Science Integration: Platforms enabling the public to contribute observations, aiding data collection and validation.

Continued collaboration between ichthyologists, conservation agencies, and citizen scientists is

essential for maintaining and improving the accuracy and usability of regional identification tools.

## Conclusion

The Fish Missouri Identification Key stands as a cornerstone resource for accurately discerning the state's rich freshwater fish diversity. Its systematic approach, rooted in morphological traits and habitat information, empowers users to make precise identifications, fostering effective conservation and sustainable fisheries management. As technological innovations emerge and ecological challenges intensify, ongoing refinement and dissemination of such tools will remain vital. Whether for scientific research, conservation efforts, or recreational enjoyment, mastering the use of this key enhances our understanding and stewardship of Missouri's aquatic ecosystems.

## References

- Missouri Department of Conservation. (2020). Fish Identification Guide. Missouri Department of Conservation.
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- Nelson, J. S., & Paetz, M. J. (1992). Fishes of the Great Lakes Region. University of Michigan Press.

Note: For practical use, users are encouraged to consult the latest regional guides and digital resources, and when uncertain, seek expert consultation for species confirmation.

**Question** What is the purpose of a fish Missouri identification key? A fish Missouri identification key helps users accurately identify different fish species found within Missouri by providing distinguishing features and characteristics. **Answer** How can I use a fish identification key effectively? To use a fish identification key effectively, follow the step-by-step dichotomous choices based on physical traits such as fin shape, scale type, and coloration until you arrive at the correct species. Where can I find a reliable fish Missouri identification key online? Reliable fish Missouri identification keys can often be found on state wildlife agency websites, university extension sites, or reputable fish identification field guides available online. Are fish identification keys helpful for beginners? Yes, fish identification keys are designed to be user-friendly and can help beginners learn to distinguish different species through simple, step-by-step identification processes. What are common features used in a fish Missouri identification key? Common features include fin placement and shape, scale type, body shape, coloration, mouth position, and presence of specific markings or patterns. Can a fish identification key help identify invasive species in Missouri? Yes, a fish identification key can assist in identifying invasive species by highlighting distinctive features that differentiate them from native species. Is there a printable version of the fish Missouri identification

key available? Many fish identification keys are available in printable PDF formats through state wildlife agencies or educational resources for easy offline use. Why is it important to correctly identify fish species in Missouri? Correct identification is important for conservation, ecological research, fishing regulations, and ensuring the protection of native and invasive species within Missouri waterways.

**Related keywords:** fish identification Missouri, Missouri fish guide, freshwater fish Missouri, Missouri aquatic life, fish species Missouri, Missouri fish identification, Missouri fish catalog, freshwater fish guide, Missouri fish taxonomy, fish identification guide Missouri

## ABOUT FISH A GUIDE FOR CHILDREN

### about fish a guide for children

Fish are fascinating creatures that live in water all around the world. They come in many shapes, sizes, and colors, and they play very important roles in our environment. If you're curious about fish and want to learn more, you're in the right place! This guide will introduce you to the wonderful world of fish, helping you understand what they are, how they live, and some fun facts about them.

## What Are Fish?

### Definition of Fish

Fish are animals that live in water. They are part of a large group called aquatic animals, which means they spend most or all of their lives in water. Fish have gills, which help them breathe underwater, and fins, which help them swim.

### Types of Fish

There are many different types of fish. They can be broadly divided into two main groups:

- **Jawless Fish:** These are some of the earliest fish, like lampreys and hagfish. They don't have jaws and usually have soft, jelly-like bodies.
- **Jawed Fish:** Most fish we see today belong to this group. They have jaws, scales, and fins. Examples include sharks, goldfish, and tuna.

## Where Do Fish Live?

## Freshwater Fish

Freshwater fish live in rivers, lakes, and ponds. They usually have adaptations that help them survive in water that has a low salt content. Examples include:

- Goldfish
- Carp
- Trout

## Saltwater Fish

Saltwater fish live in the ocean or seas. They are adapted to survive in water with high salt content. Examples include:

- Clownfish
- Sharks
- Tuna

## Brackish Water Fish

Some fish live in brackish water, which is a mix of freshwater and saltwater, like estuaries and mangroves.

## How Do Fish Survive and Thrive?

### Breathing Underwater

Fish breathe using gills, which are special organs that extract oxygen from water. Water flows over the gills, and oxygen is absorbed into the fish's blood.

### Moving in Water

Fins help fish move smoothly through water. Different fins have different jobs:

- **Caudal fin:** The tail fin helps fish move forward.
- **Pectoral fins:** These fins help with steering and balance.
- **Pelvic fins:** They help with stability.

## Eating Habits

Fish are diverse in what they eat:

- Some are herbivores and eat plants or algae.
- Others are carnivores and eat smaller fish or insects.
- Some are omnivores and eat both plants and animals.

## Protection and Camouflage

Many fish have special features to protect themselves:

- **Camouflage:** Some fish blend into their surroundings to hide from predators.
- **Spines and scales:** These make them harder to eat.
- **Bright colors and patterns:** Some use colors to warn predators or attract mates.

## Fun Facts About Fish

- Some fish can change their color to hide or communicate, like chameleons do.
- The largest fish in the world is the whale shark, which can grow up to 40 feet long!
- Clownfish, made famous by movies, live in sea anemones and are immune to their stings.
- Fish have been around for hundreds of millions of years, even before dinosaurs existed!
- Some fish, like the salmon, migrate thousands of miles to spawn (lay eggs) in the same place where they were born.
- Electric fish, like electric eels, can produce electric shocks to defend themselves or catch prey.

## Why Are Fish Important?

### Environmental Role

Fish help keep water ecosystems healthy. They are part of the food chain:

- They eat plants, insects, and smaller fish.
- They are food for many larger animals, including humans.

### Economic Importance

Many people rely on fish for food and livelihood. Fishing is an important industry in many countries.

## **Recreation and Education**

People enjoy fishing, watching fish in aquariums, and learning about aquatic life. Fish also help scientists understand water health and biodiversity.

## **How To Care for Fish as Pets**

### **Setting Up a Fish Tank**

If you want to keep fish at home, you'll need:

- A clean tank
- Clean water
- Proper temperature
- Appropriate food

### **Feeding Fish**

Feed fish the right amount of food?usually a little once or twice a day. Overfeeding can harm fish and dirty the water.

### **Keeping Fish Healthy**

Regularly clean the tank, check water quality, and watch for signs of illness.

## **Respecting Fish and Their Habitats**

### **Protecting Fish and Water Environments**

It's important to keep water clean and avoid pollution. Overfishing and habitat destruction threaten many fish species.

### **How Kids Can Help**

You can:

- Participate in local clean-up days

- Learn about endangered fish species
- Support conservation efforts

## Conclusion

Fish are amazing creatures that live all around us in oceans, lakes, and rivers. They come in many shapes, sizes, and colors, and they're a vital part of our planet's health. Whether you're watching fish swim in an aquarium, exploring the beach, or learning about their lives in school, there's always something new and exciting to discover about fish. Remember, respecting and protecting fish and their habitats helps keep our water ecosystems healthy and full of life for generations to come!

### About Fish: A Guide for Children

Fish are fascinating creatures that live in water all around the world. From tiny minnows to giant sharks, fish come in many shapes, sizes, and colors. If you're curious about these amazing animals, you've come to the right place! In this guide, we'll explore what fish are, where they live, the different types of fish, and fun facts that will help you understand and appreciate these aquatic animals even more. Whether you love swimming in the pool or exploring the ocean, learning about fish can open up a whole new world beneath the water's surface.

### What Are Fish?

Fish are animals that live in water and breathe using gills. They are part of a large group called vertebrates, which means they have a backbone. Fish are different from other water creatures like whales or dolphins because they are cold-blooded, have fins, and usually lay eggs.

### Key Features of Fish

- Gills: Fish breathe by taking in oxygen from the water through their gills.
- Fins: These help fish swim and steer in different directions.
- Scales: Many fish have scales that cover their bodies and protect them.
- Swim Bladder: A special internal organ that helps fish stay buoyant, or float, at different water depths.
- Lateral Line: A line of sensors along the fish's body that detects movement and vibrations in the water.

### Where Do Fish Live?

Fish live in almost every kind of water environment on Earth. From the icy waters of the Arctic to the warm tropical seas, fish are everywhere!

## Types of Fish Habitats

### Freshwater Fish

- Lakes: Fish like bass and trout live here.
- Rivers and Streams: Salmon and catfish are common in flowing waters.
- Ponds: Small fish such as goldfish often live in ponds.

### Saltwater Fish

- Oceans: The largest habitats for fish, including sharks, tuna, and clownfish.
- Coral Reefs: Brightly colored fish like angelfish and clownfish thrive in these vibrant ecosystems.
- Deep Sea: Some fish, like anglerfish, live in the dark depths of the ocean.

## Types of Fish

Fish are incredibly diverse. Here are some of the main groups of fish you might hear about:

### Cartilaginous Fish

- Definition: Fish with skeletons made of cartilage, the same flexible material in human noses and ears.
- Examples: Sharks, rays, and skates.
- Fun Fact: Sharks have been around for more than 400 million years?long before dinosaurs!

### Bony Fish

- Definition: Fish with skeletons made of bone.
- Examples: Goldfish, trout, salmon, and tuna.
- Features: Most common type of fish, with scales and a swim bladder.

### Jawless Fish

- Definition: The oldest type of fish, without jaws.
- Examples: Lampreys and hagfish.
- Interesting Fact: They look very different from most fish and sometimes resemble eels.



## Fish Life Cycle

Understanding how fish grow and reproduce is an exciting part of learning about them.

The Fish Life Cycle Includes:

- Eggs: Most fish lay eggs in water. Some eggs hatch quickly, while others take longer.
- Larvae: The young fish hatch from eggs and often look very different from adult fish.
- Juvenile: Fish grow bigger and start to look more like adult fish.
- Adult: Fish are fully grown and ready to reproduce and start the cycle again.

Fun Fact:

Some fish, like salmon, are known as anadromous because they hatch in freshwater, migrate to the ocean to grow, and then return to freshwater to lay eggs.

## Why Are Fish Important?

Fish are not only interesting animals but also extremely important to the planet and humans.

## Environmental Role

- Food Chain: Fish are a vital part of the food chain, feeding smaller creatures and being prey for larger animals like birds, seals, and humans.
- Ecosystems: Fish help keep water environments healthy by cleaning up algae and controlling insect populations.

## Human Benefits

- Food: Fish like salmon and tuna are eaten all over the world.
- Recreation: Many people enjoy fishing or watching fish in aquariums.
- Scientific Study: Fish help scientists understand biology, evolution, and marine environments.

## Fun Facts About Fish

- The clownfish is immune to the stings of sea anemones, which it lives among for protection.
- The parrotfish can change its gender from male to female or vice versa.

- The lionfish has venomous spines to protect itself from predators.
- The goby fish can walk on land for short distances!
- The arapaima in the Amazon River can grow up to 15 feet long?that?s as long as a small car!

## How Do Fish Keep Safe?

Like all animals, fish have ways to protect themselves from danger.

## Defense Mechanisms

- Camouflage: Many fish have colors and patterns that help them blend into their environment.
- Speed: Some fish, like tuna, can swim very fast to escape predators.
- Spines and Stingers: Fish like lionfish have sharp spines to deter attackers.
- Schooling: Fish often swim in large groups called schools, which makes it harder for predators to catch one.

## How To Observe Fish Safely

If you want to see fish up close, here are some safe ways to do it:

- Visit an Aquarium: A great place to see many different kinds of fish in one place.
- Go Snorkeling or Diving: In clear water, you can swim with fish in their natural habitat.
- Fish in a Pond or Lake: Use a fishing rod or simply watch the fish swimming.

Remember: Always be gentle and respectful of water animals and their homes.

## Summary: Why Fish Are Amazing

Fish are some of the most diverse and interesting animals on Earth. They live in many different environments, have unique features, and play crucial roles in ecosystems. Learning about fish helps us appreciate the beauty and importance of our aquatic world. Whether you love watching colorful tropical fish or are fascinated by the mighty sharks, there?s always something new to discover about fish!

## Final Thoughts

Now that you know more about fish, you might want to explore further by reading books, watching documentaries, or even visiting an aquarium. Remember, fish are incredible creatures that deserve our respect and protection. So, next time you see a fish swimming in a pond or ocean, think about

how amazing it is and how important they are to life on Earth.

Happy exploring the underwater world!

**QuestionAnswer** What are fish and where do they live? Fish are animals that live in water, such as lakes, rivers, and oceans. They have fins to help them swim and gills to breathe underwater. How do fish breathe underwater? Fish breathe underwater using their gills, which filter oxygen from the water so they can stay alive and swim happily. What do fish eat? Fish eat a variety of foods depending on the type. Some eat plants, while others eat smaller fish, insects, or tiny creatures in the water. Why do fish have scales? Fish have scales to protect their bodies from injuries and help them glide smoothly through the water. Can all fish live in saltwater and freshwater? No, some fish live in saltwater like the ocean, some live in freshwater like lakes and rivers, and a few can live in both! Why are fish important to our environment? Fish are important because they help keep water ecosystems healthy and provide food for many animals, including humans.

**Related keywords:** fish, children, guide, aquatic animals, marine life, learning about fish, beginner's guide, underwater creatures, fish habitats, fun facts about fish

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