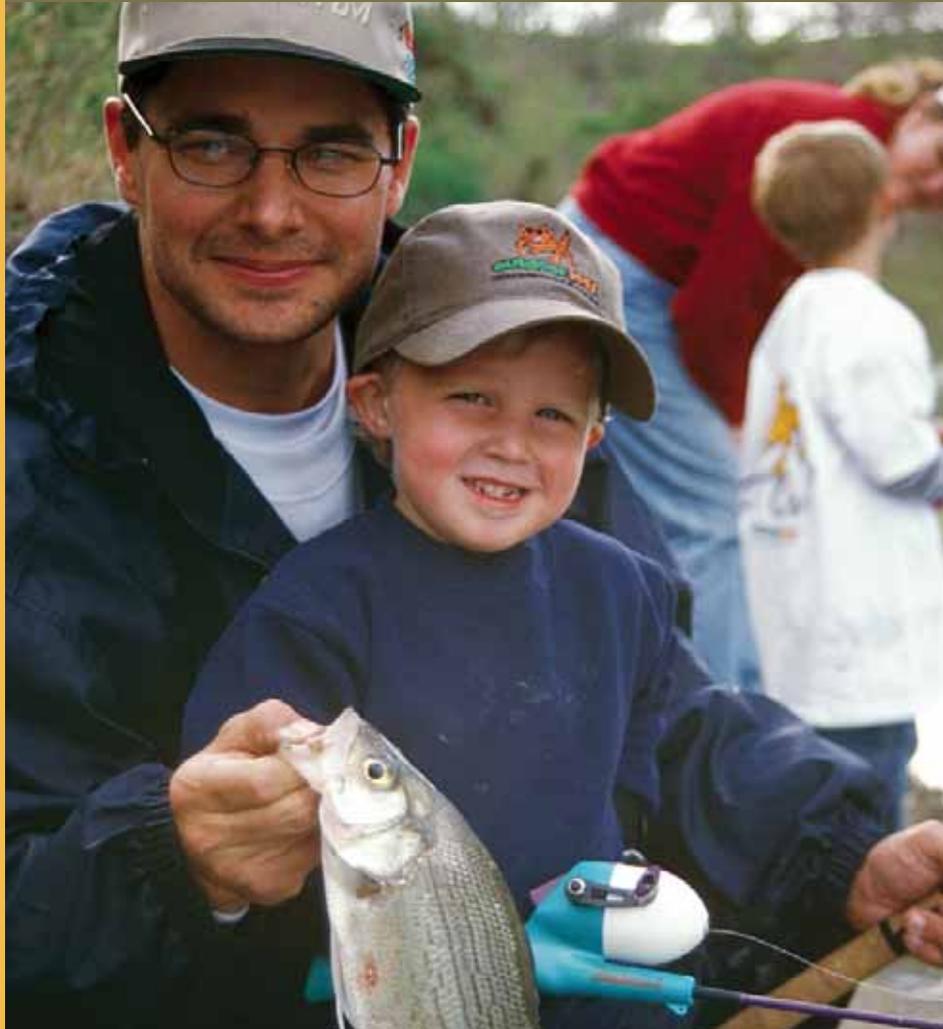


"take me fishing"™



A Basic Guide for
the Beginning Angler

WELCOME TO FISHING IN TEXAS!

Learning to fish can be as simple as tying your shoe. You may find yourself sitting on the bank of a river or pond using a cane pole and a can of worms, or using a fully-rigged boat with state-of-the-art equipment. Either way, with some basic knowledge and a minimum of skill, a beginning angler can embark on a lifetime of fun, relaxation, and camaraderie with other anglers.

In the next few pages, we'll discuss several styles of fishing, types of rods, reels, knots, baits, lures, fresh and saltwater fish, and aquatic habitats. You'll find tips to improve your skills and what you can use to have a fun, exciting, and successful fishing trip. You'll also learn how you can help protect our state's precious aquatic resources.

And don't forget – fishing isn't just about catching fish! As experienced anglers will tell you, fishing is one of the best ways families and friends relax together as they enjoy being outdoors and learning new skills.



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Hooks

Hooks come in an assortment of sizes and styles and must be kept sharp to be effective. If you plan to release your catch, bend down the barb to make it easier to remove the hook. Choose the size of hook for the species of fish you are trying to catch and the type of bait you are using. Ask a seasoned angler or a bait and tackle dealer for suggestions.

Line

Fishing line comes in pound-test, (the line size or strength). The larger the line size the stronger it is. Six-pound test line is more flexible but is not as strong as 12-pound test line. Match your fishing line to your rod and reel capability and the species of fish you want to catch. Using heavier line or higher pound test than needed may reduce the number of hits or strikes you get because heavier line is more visible to fish.

Sinkers

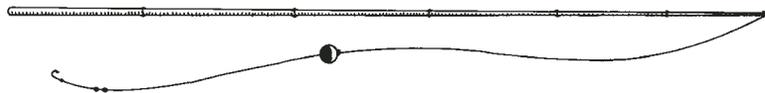
Sinkers are weights used to cast your bait, take bait to the bottom, hold bait in place, or keep your bobber upright. Sinkers are designed in several different shapes and sizes and are used for various types of fishing techniques. They range in size from BB split shot to five pounds, something short of a cannon ball. In many cases, you will place your sinker 4 to 8 inches above your hook to allow live bait to look natural to the fish.

Bobbers

Bobbers, floats and corks are used for three reasons. They keep your bait where the fish are biting, keep bait off the bottom, and they tell you when you're getting a bite or strike by bobbing up and down. Bobbers come in various shapes from round, to pencil or quill, to popping, and oblong. Most bobbers are spring-loaded and attach to your fishing line with a clip. Some are tied directly to your line or allow the line to slip entirely through for slip-cork fishing.

Rods come in several varieties, each with its own advantages. Choosing a rod is a personal choice. You can fish with a can and string or a fancy rod and reel. One of the simplest and easiest fishing rods is the cane pole.

Cane Poles



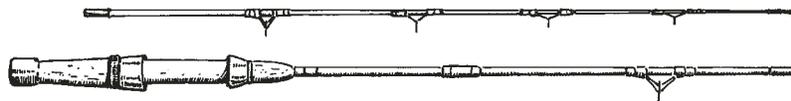
Cane poles are simply a pole or straight rod with a fishing line tied on to it. Use cane poles mainly for shoreline fishing since you're restricted to depth and distance you can reach. Cane poles can be made of bamboo, fiberglass, graphite or even a straight tree branch. Cane poles work, are easy to use and are inexpensive.

Spincasting and Baitcasting Rods



Casting rods have "spincast" or "baitcast" reels and line guides mounted on top. Spincasting rods are easy to handle and perfect for Junior Anglers. These rods have straight handles and small line guides. Spincast tackle is the most popular. Baitcasting rods have either a pistol-grip or straight handle. The baitcast rod with its more complex reel is more difficult to control and is better suited for an experienced angler.

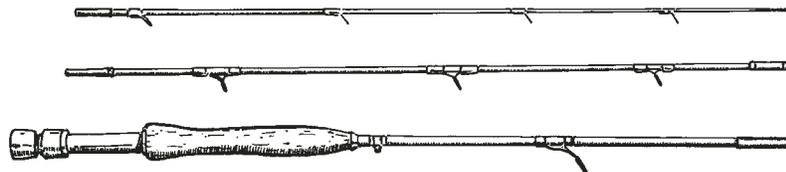
Spinning Rods



STRAIGHT HANDLE, LINE GUIDES ON BOTTOM

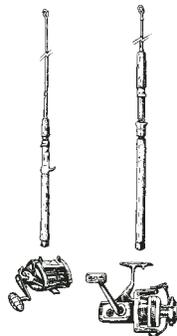
Spinning rods have straight handles with large line guides and reels mounted on the bottom. Spinning reels cast quickly and long distances, making this rod suitable for all types of freshwater and saltwater fishing.

Fly Rods



LONG FLEXIBLE ROD, LINE GUIDES ON BOTTOM

Fly rods are very long, flexible rods. In flyfishing, you cast the line, not the lure. You'll see anglers develop almost artistic casting techniques, adding to the appeal of the sport. Line guides and reel are mounted on bottom of the rod. Fly rods come in various weight classes and lengths, suited for different locations and fish.



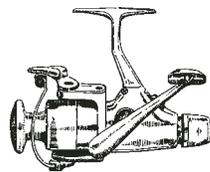
Saltwater Tackle

Going after saltwater fish involves a little change in the strength of the equipment. The rods, reels, hooks, line and lures or baits vary just as in freshwater fishing, but they can be stronger and heavier, built to withstand larger fish and natural or artificial structures.



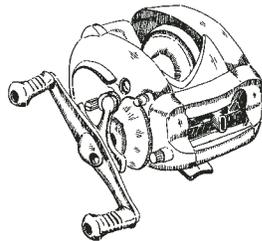
Spincast

This popular reel is ideal for beginners. Known as a "closed-faced reel," it's the easiest reel to use.



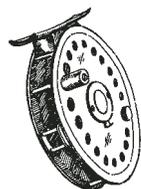
Spinning

This "open-face reel" mounts under the rod. Fishing line spools off quickly allowing longer casts. This reel is able to cast lighter baits and lures.



Baitcast

Baitcast tackle is suitable for all types of fish and fishing. The spool turns when you cast, however, and can entangle the line if not properly adjusted. You'll need to practice with this model.



Fly reel

The fly reel is designed to allow fluid movement of the fishing line. This reel is mounted on the bottom of the rod.

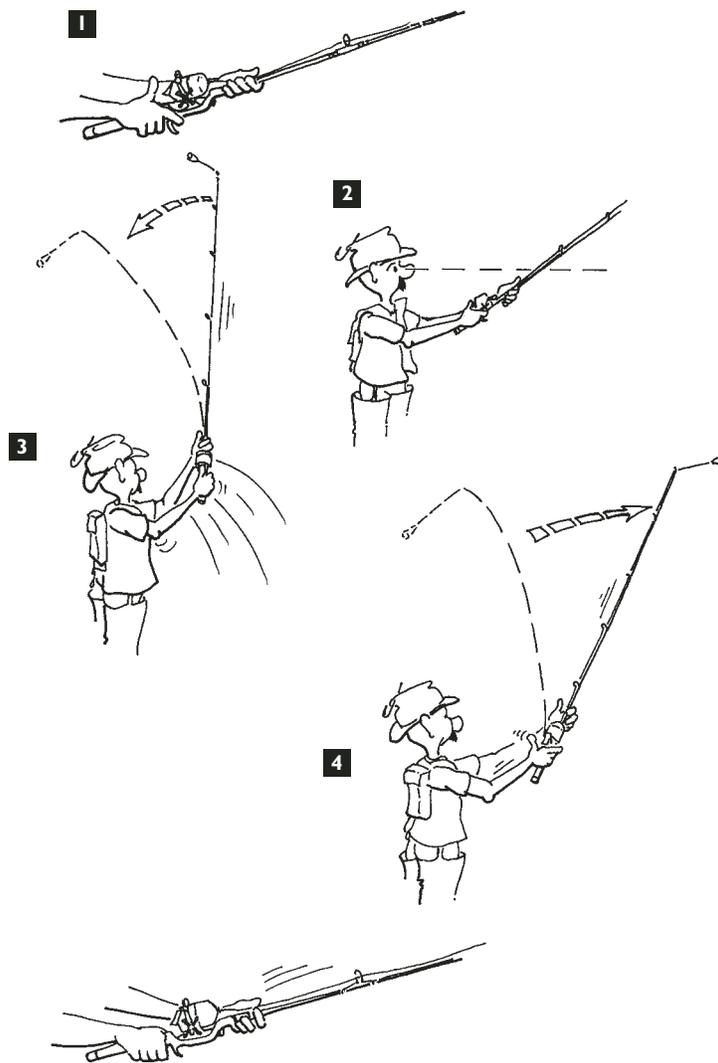
Spincasting

A spincasting reel has a button that you push with your thumb to release the line.

1. Grasp the rod's handle or pistol grip with one hand. Push the reel's thumb button down and hold it in.
2. Face the target area with your body turned to a slight angle, about a quarter turn. Aim the rod tip toward the target, about level with your eyes.
3. Swiftly and smoothly bend your arm at the elbow, raising your hand with the rod until it almost reaches eye level. When the rod is almost straight up and down, it will be bent back by the weight of the practice plug. As the rod bends, move your forearm forward with a slight wrist movement.
4. When the rod reaches eye level, release the thumb button.

If the plug landed close in front of you, you released the thumb button too late. If the plug went more or less straight up, you released the thumb button too soon.

SPINCASTING



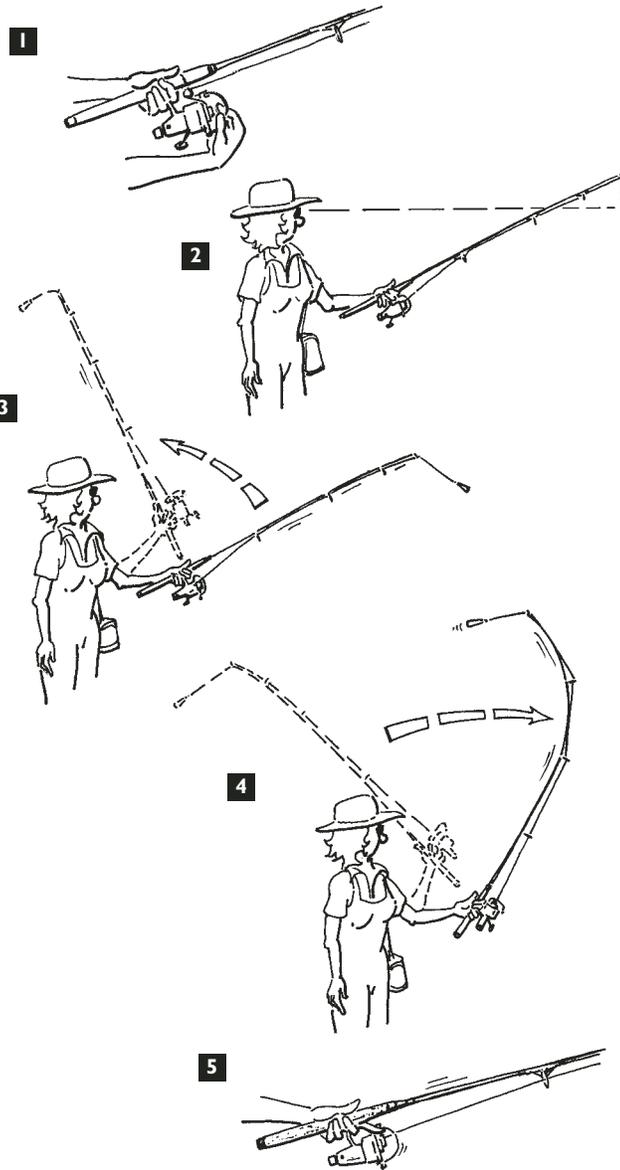
Spinning

With a spinning reel, you use your finger to release the line.

1. Grasp the rod's handle, placing the reel "stem" that attaches the reel to the rod between your middle fingers. Extend your forefinger to touch the spool cover. Open the reel's bail with your other hand.
2. Face the target area with your body turned at a slight angle, about a quarter turn. The arm holding the rod handle should be closest to the target. Aim the rod tip toward the target at about eye level.
3. Swiftly and smoothly, using just one motion, bend your casting arm at the elbow and raise your forearm so that your hand is almost at eye level.
4. When the rod is almost straight up and down, it will be bent by the weight of the practice plug. As the rod bends, move your forearm forward with a slight wrist movement.
5. When the rod reaches eye level, straighten your forefinger to release the line.

If the plug landed close in front of you, you straightened out your index finger to release the line too late. If the plug went more or less straight up or behind you, you straightened your index finger too soon.

SPINNING



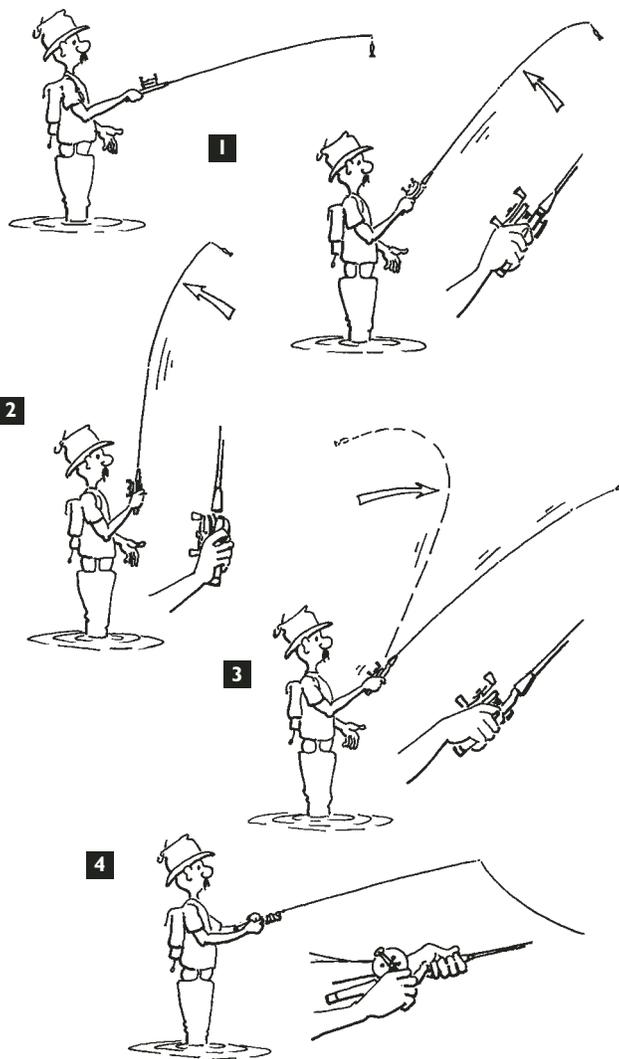
Baitcasting

The baitcasting reel has a button either on the top right-hand side of the reel or a "thumb" button behind and center of the spool that you push with your thumb to release the line.

1. Grasp the rod's pistol grip or handle with one hand. Push the reel's thumb button down and move your thumb on the spool. Release the line so that the casting plug falls to the ground. Adjust the spool tension knob (located on the side of the reel) so that the spool stops when the plug hits the ground. It may take a couple of times to accomplish this and adjust it correctly. This will reduce the reel from backlashing when cast. Backlashing occurs when momentum from the cast allows the spool to keep rotating causing line to ball up once the plug hits the water or ground.
2. Face the target area with body turned at a slight angle, about a quarter turn. Aim the rod tip toward the target, about level with your eyes.
3. Swiftly and smoothly bend your arm at the elbow, raising your hand with the rod until it almost reaches eye level. When the rod is almost straight up and down, it will be bent back by the weight of the practice plug. As the rod bends, move your forearm forward with a slight wrist movement.
4. When the rod reaches eye level, release your thumb off the spool. As the practice plug hits the ground, place your thumb back on the spool to reduce backlash.

If the plug landed close in front of you, you released your thumb too late. If the plug went more or less straight up, you release your thumb too soon.

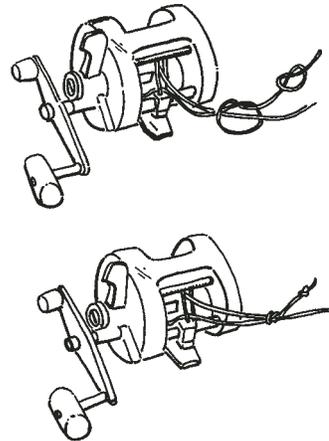
BAITCASTING



Arbor Knot

Quick, easy connection for attaching line to the reel spool.

1. Pass the line around the reel arbor (spool).
2. Tie an overhand knot around the main line.
3. Tie a second overhand knot in the tag (loose) end.
4. Pull the knot in the tag end tight and clip off the excess line.

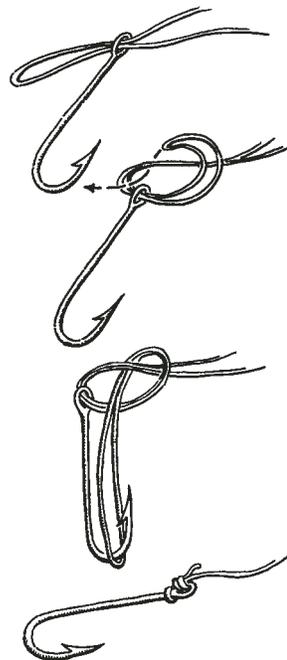


Snug down the first overhand knot on the reel.

Palomar Knot

The easiest to tie and the strongest knot known to hold terminal tackle.

1. Double 4 inches of line to form a loop and pass the loop through the eye of the fishing hook. Let the hook hang loose.
2. Tie an overhand knot in the doubled line. Don't twist or tighten line.
3. Pull the loop far enough to pass it completely over the hook.
4. Wet the line.
5. Hold the hook carefully, and pull the loose end with the standing line slowly to tighten the loose end.

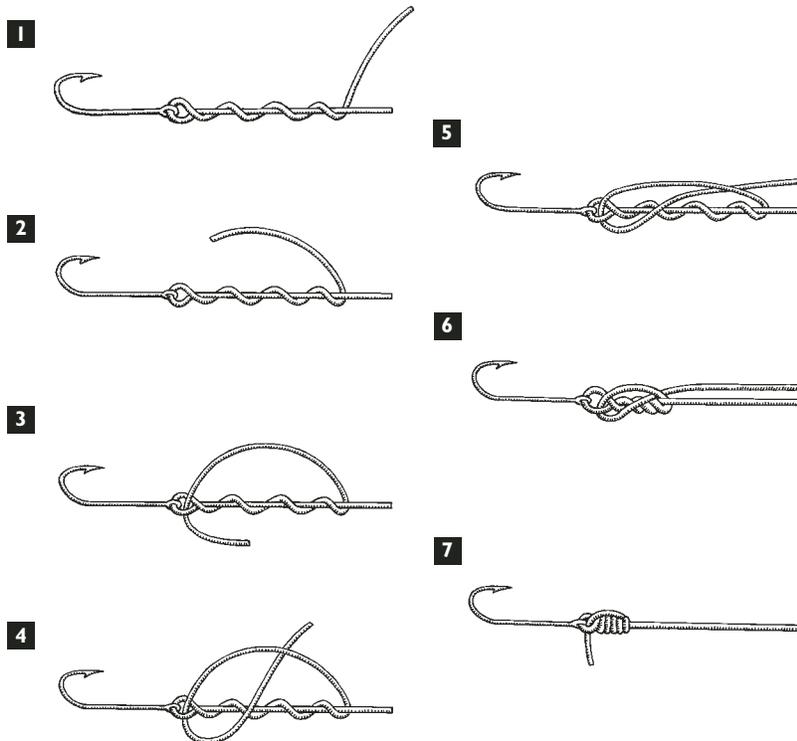


Improved Clinch Knot

An "old standby" known as the fisherman's knot.

1. Pass the line through the hook eye and, with the tag end, make 5 turns around the standing line.
2. Insert the loose end of the line between the eye and the first loop formed.
3. Bring the end through the large second loop formed.
4. Wet the line and tighten the knot slowly while holding the loose end of the line end between thumb and index finger so the knot is partly closed before it's secured against the eye.

Clip the loose end of the line.

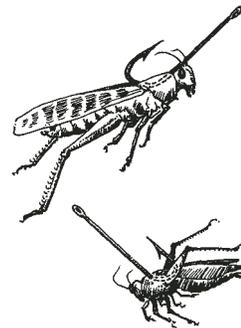


Always check current fishing regulations (see page 46) to make sure your choice of bait is legal.

COMMON FRESHWATER BAITS

Crickets and Grasshoppers

These are excellent choices for sunfish, bass and catfish. Both of these insects can be caught by hand or with an insect net. Look for them in thick, tall grass or at night under lights. Laying a cloth, towel, cardboard or newspaper on the grass will attract crickets. You want to use thin wire hooks for sunfish (#6-#10) and medium-sized hooks for bass and catfish (#1 or #2). Make sure the point of the hook is completely covered to increase bites.



Worms

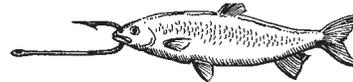
Whether it's an earthworm, red wiggler or nightcrawler, worms are a favored choice for the majority of freshwater fish in Texas.

You can either raise your own in a compost pile, dig them from your garden or purchase from bait shops and fishing tackle stores. Remember to cover the point of the hook when fishing for sunfish to keep them from pulling the worm off the hook. Store live, leftover worms in the refrigerator for the next time you go fishing.



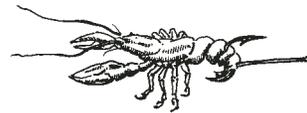
Minnows

Varieties of minnows are used to catch both fresh and saltwater fish. Keep minnows in an aerated minnow bucket and don't crowd them. Remember to change the water often to keep the minnows lively. Hook them through the lips or under the dorsal fin. Avoid hooking through the backbone because this will kill the minnow.



Crayfish

Crayfish, known as crawfish, crawdads or mudbugs, are used for catching large-mouth and smallmouth bass, white bass, catfish and freshwater drum. They can be caught in small ponds, roadside ditches or where depressions hold water frequently and usually after a rain. These can be fished either live, dead or using just the tail. Hook through the underside of the tail so the point protrudes through the top. Catfish and freshwater drum don't mind if it's live or dead. Grasp the crayfish, and pull the tail away from the head, threading the hook through its tail or both sides of body. Freshwater drum prefer crayfish to any other type of live or dead bait.



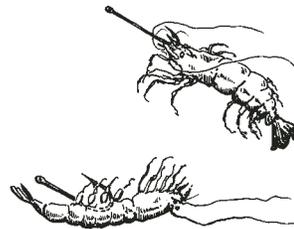
PREPARED BAITS

From homemade concoctions to commercially-made baits, these are primarily used for catching bottom-feeding fish like catfish and carp. Your choices include canned corn, stink bait, cottonseed cake, hot dogs, dough balls – the list goes on with this type of bait. Fishing with treble hooks works best to keep the bait from being flung off during casting.

COMMON SALTWATER BAITS

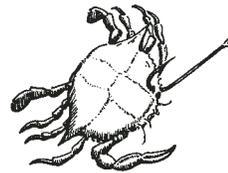
Shrimp

Shrimp are widely-used bait for saltwater fishing. Shrimp can be either alive or dead. Hook shrimp under the rostrum "horn" on the head to fish with live shrimp. You can either peel or leave the shell on fresh dead shrimp for fishing on the bottom. Many anglers fishing for freshwater catfish use dead shrimp for bait.



Crab

Different species are used for saltwater fishing to catch sheepshead, black drum, cobia and snapper. Sheepshead and snapper go after hermit and fiddler crabs hooked through the body. Black drum and cobia have a liking for blue crabs. Break in half or quarters for black drum and hook through the body sections. Use small, whole, live blue crab for cobia by removing the pinchers and hook through the body.



Squid

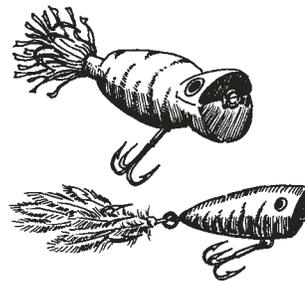
You can purchase dead squid for saltwater bottom-fishing. Fish such as gafftopsail, catfish, and snapper are good examples. Hook the squid two or three times in and out through body to avoid small fish stealing the bait.

Many companies make fishing lures in different types, patterns, sizes and colors. "How to" instructions are either on the package or inside with the lure. Both fresh and saltwater anglers use lures interchangeably to catch a variety of fish.

Plugs

black bass, crappie, striped, white and hybrid bass, seatrout, red drum, flounder and several offshore species

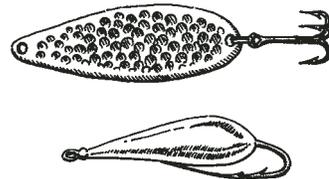
Plugs can be made of various materials such as plastic, wood and sometimes cork. Plugs are classified as topwater and crankbaits (shallow diving, medium diving and deep diving). Either two or three treble hooks are attached to plugs to cover the fish's striking area.



Spoons

black bass, striped, white and hybrid bass, seatrout, red drum, flounder and several offshore species

Spoons are metal, spoon-shaped lures made to resemble a swimming or injured baitfish. You can jig them (jiggle them up and down), cast and reel them in, or troll them behind a boat (let it drag on a fishing line behind the boat). Many anglers attach a swivel to the spoon to prevent it from twisting their line during retrieval.



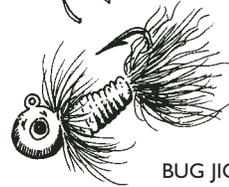
Jigs

black bass, striped, white and hybrid bass, crappie, seatrout, red drum, flounder and several offshore species

Jigs have weighted metal or lead heads with a body and tail made of rubber skirts, feathers, soft plastic or animal hair. Numerous sizes, colors and patterns are used to catch a large majority of fresh and saltwater fish.



RUBBER SKIRT

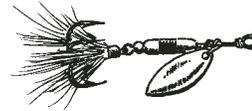
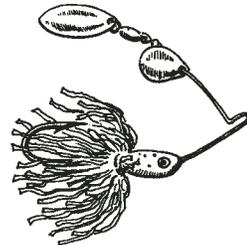


BUG JIG

Spinnerbaits

black bass, rainbow trout, crappie on small in-line spinners

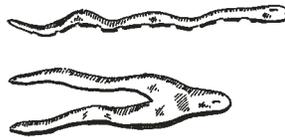
Spinnerbaits have one or more blades that spin or rotate around a straight wire or "safety pin" type shaft. Nearly all spinnerbaits have tails and bodies made of rubber skirts, animal hair, soft plastic, feathers or other materials.



Soft Plastics

black bass, seatrout, red drum and flounder

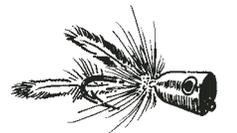
Soft plastics are pliable lures made into worms, grubs, lizards, crayfish, minnows, shrimp, crabs and many others, resembling what fish eat. Plastics are available in different sizes, colors, and some with fish-attracting scent. They can be used with or without bullet weight sinkers, jig heads or spinnerbaits.



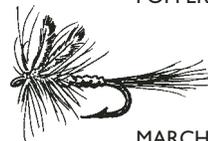
Flies and Poppers

almost all common sport fish will strike a fly or popper of some variety

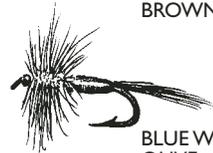
Flies and poppers are small, very light, almost weightless lures used primarily for flyfishing. A spincast or spinning rod and reel outfitted with a "bubble" (clear bobber) placed four to five feet above the lure works well if you don't have a fly rod. These lures are excellent for sunfish and bass, but most any fish can be caught on these baits.



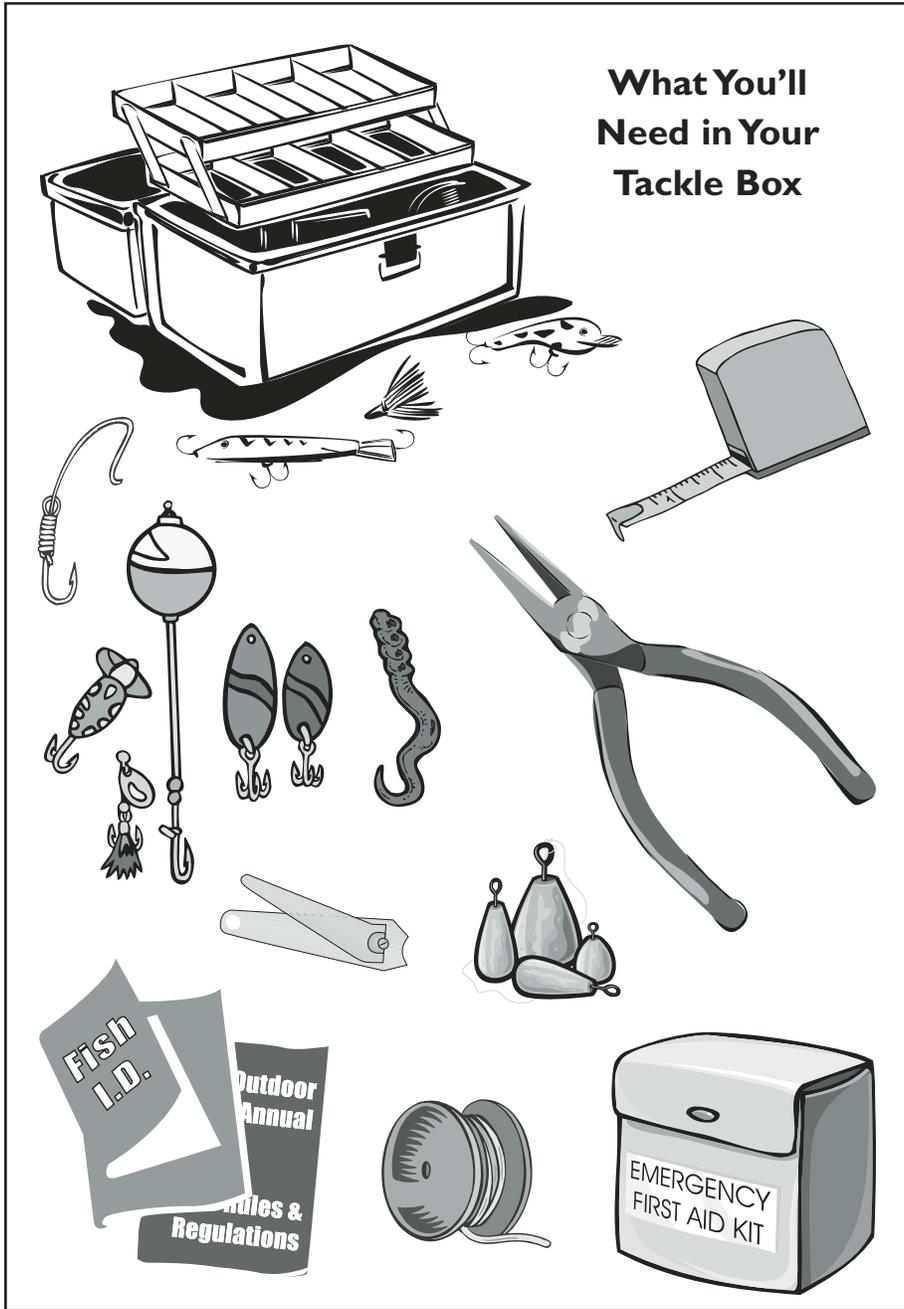
POPPERS



MARCH BROWN



BLUE WING OLIVE



Pliers

Nail clippers (to clip line)

Small first aid kit

Hooks (various sizes, depending on the type of fish you are targeting)

Bobbers

Weights (sinkers)

Snap swivels

Artificial lures

(plugs, spinners, spoons or soft plastics)

Stringer for keeping fish

(only if you plan to keep and eat the fish)

Measuring tape

Outdoor Annual – Rules and Regulations

Fish identification card or booklet

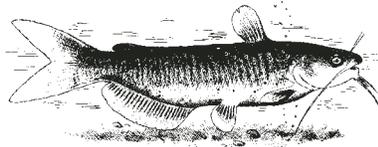
Small spool of monofilament fishing line
and oil for lubricating the reel



Selection of artificial lures will depend on what fish you are targeting. When selecting artificial lures, it is wise to choose lures that are designed to fish at different water levels, such as top water poppers and diving plugs.

Other items to take along with you on your fishing trip:

- Camera
- Small can of bug repellent
- Cell phone

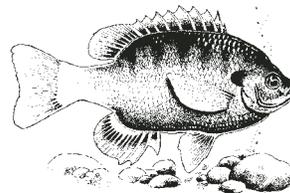


Channel Catfish

Ictalurus punctatus

Other names: channel, willow cat, fiddler cat, twister

Fishing Tips: Most active in the evening or early night. Easily attracted and caught during the day by baiting holes with soured grain, cottonseed cake, hard dog food or alfalfa cubes. Use worms, cutbait, shrimp, liver, blood or stink baits.

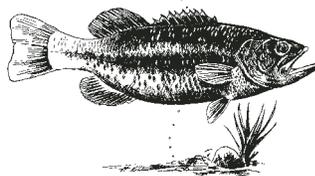


Bluegill

Lepomis macrochirus

Other names: bream, perch, tiger sunfish, gills

Fishing Tips: The simplest of tackle is all that is needed to catch these feisty, hand-sized fish. Preferred baits are worms, crickets, mealworms, small jigs, spinners, miniature insect crankbaits or flyfishing tackle (i.e. flies, poppers, worm imitations, etc.).

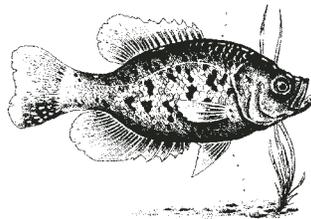


Largemouth Bass

Micropterus salmoides

Other names: bass, largemouth, bigmouth, bucketmouth

Fishing Tips: They will strike artificial baits including crankbaits, spinner baits, jigs, soft plastics, spoons, flies and other various live bait look-alikes. Largemouth bass relish live baits such as minnows, earthworms, crawfish, leeches, frogs, lizards, insects and even small mice when the opportunity offers itself.

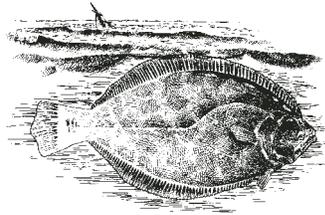


Black Crappie

Pomoxis nigromaculatus

Other names: crappie, white perch, papermouth

Fishing Tips: Black crappie are fond of small minnows, small streamer flies, small marabou or plastic jigs and worms.

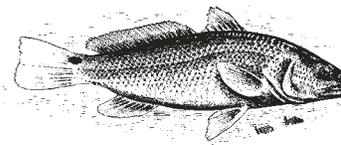


Southern Flounder

Paralichthys lethostigma

Other names: flounder

Fishing tips: Fish with live finger mullet, mud minnows, live shrimp or artificial lures close to the bottom. May also be gilled in shallow water along reefs or shorelines during low moon phases with a tide movement using a lantern or some other artificial light.



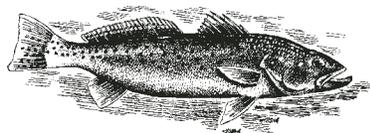
Red Drum

Sciaenops ocellatus

Other names: redbfish, reds, bull red, rat red

Fishing tips: Use live finger mullet, cut mullet, live croaker, live or dead shrimp and lures fished close to the bottom. Gold and silver spoons also work well.

Note: There are stocked red drum in a few of our fresh water impoundments.

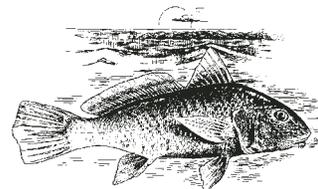


Spotted Seatrout

Cynoscion nebulosus

Other names: Specks, speckled trout, trout, spotted weakfish

Fishing tips: Use live shrimp, live finger mullet, live croaker or artificial baits (i.e. shrimp/shad imitations).



Atlantic Croaker

Micropogon undulatus

Other names: golden croaker, croaker

Fishing tips: Offer peeled shrimp fished close to the bottom. In fall, catch larger fish during migration to the Gulf.

Texas Farm Ponds

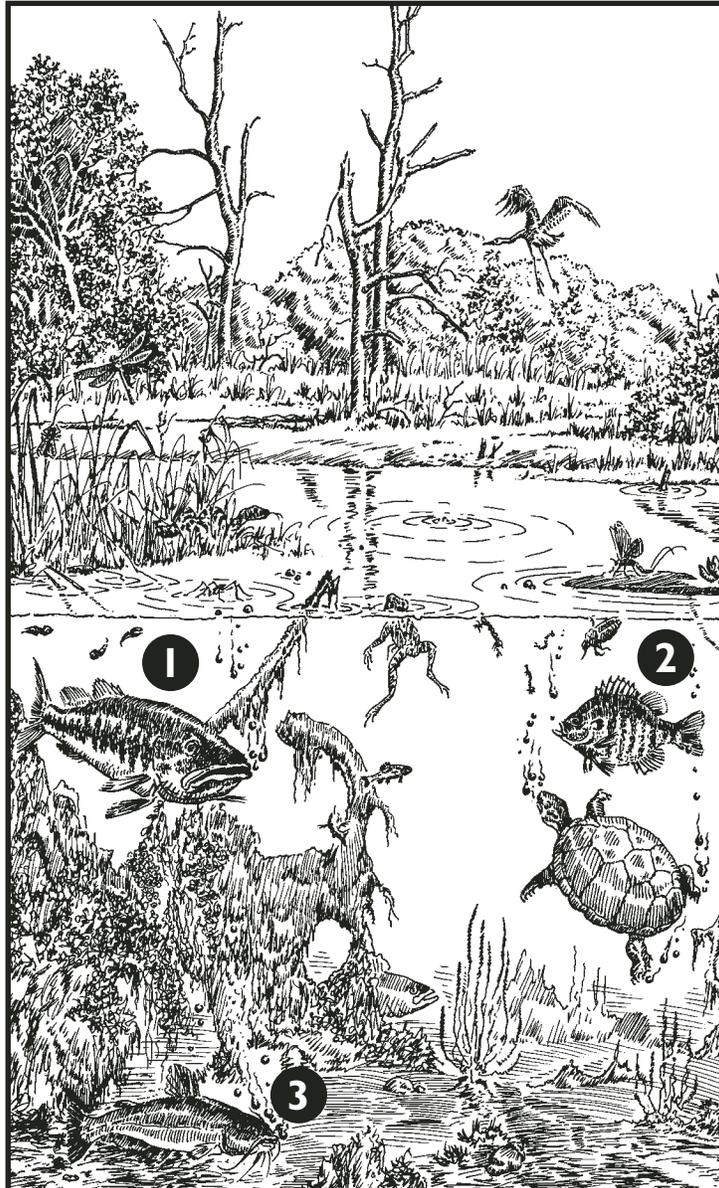
Farm ponds are common in Texas. They vary widely in size, water quality and the habitats they offer aquatic life. Most are less than an acre in size, but even these small ponds can be home to sport fish like largemouth bass, sunfish and catfish.

Good fishing requires good pond management. Careful stocking and proper harvest help maintain the balance of predatory fish and their prey. Control of aquatic plants keeps a balance between shelter and open water.

To receive a Texas Parks and Wildlife pond management packet, call (800) 792-1112, Ext. 4444. Or, for more information about farm ponds or private ponds, visit www.tpwd.state.tx.us/faq/landwater/fisheries/.

**Can you identify the numbered
fish in the illustration?**

(Answers are in back)



POND LIFE

Texas Hill Country Streams

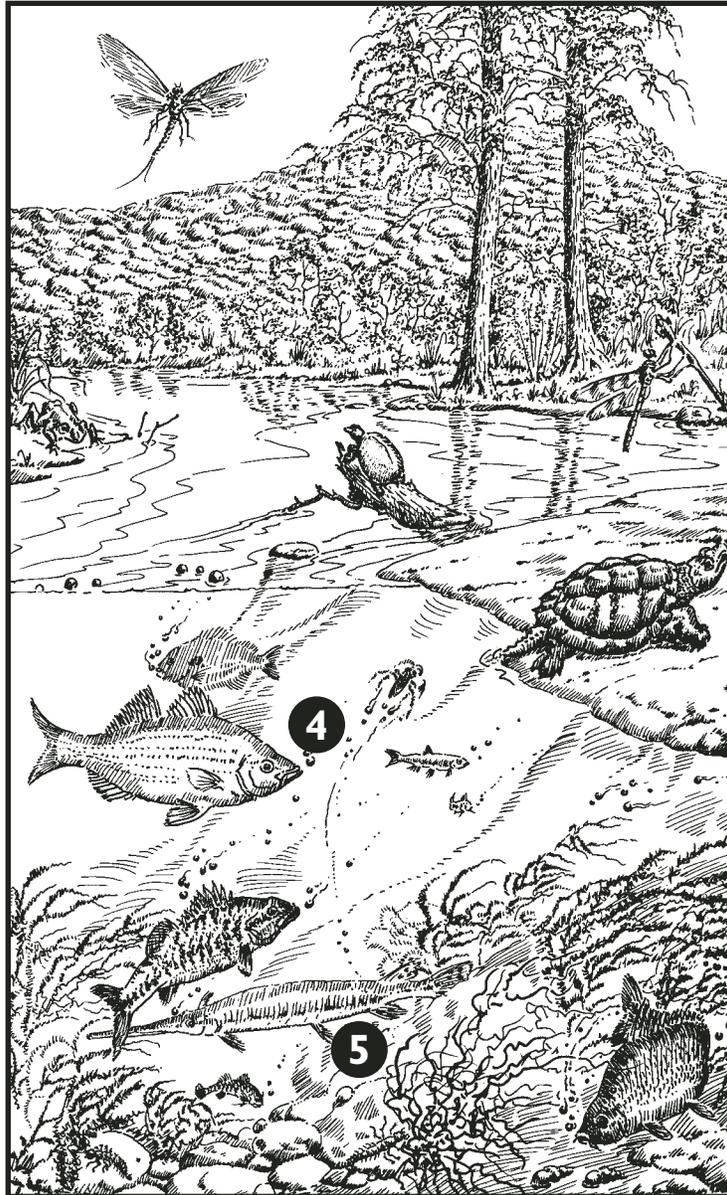
Many of the streams that run swiftly through the rocky, tree-shaded hills of Central Texas are fed by springs. These streams are home to many species of fish, amphibians, plants and insects, which depend on a steady flow of clean water for survival. Some of these species (salamanders in particular) are found only in these special spring-fed environments. Our state fish, the Guadalupe bass, is found in several streams and rivers of Central Texas.

Hill Country streams provide good cover for fish with tree roots, branches and other vegetation along the edges and uneven, rocky bottoms. Insect larvae like to hide under rocks to catch bits of food in the current. These larvae, in turn, become food for fish. Many fish lay their eggs in the streams' shallow, gravelly riffles. Anglers can expect to catch bluegills, bass and catfish in the Hill Country on a variety of baits.

Hill Country streams have always been popular among people who love to fish, paddle, swim or watch nature. Many community groups have organized to help keep these streams clean, healthy, and flowing through wise water use and land use planning.

**Can you identify the numbered
fish in the illustration?**

(Answers are in back)



A TYPICAL HILL COUNTRY AQUATIC COMMUNITY

East Texas Streams

Streams wander between the hills and across the plains of East Texas, through banks lined with pines, hardwoods and brush. Leaf litter and muddy bottoms cause the water to be cloudy, but they also add vital nutrients, providing for a healthy ecosystem.

East Texas streams include a number of different habitats – riffles, runs, open water pools and sloughs, as well as oxbow lakes (remnants of streams cut off from the main channel). Seasonal flooding of nearby bottomlands provides yet another habitat for the catfish, sunfish, bass and other species that thrive there. Catfish are especially adapted to this environment and can be caught by fishing near the bottom using worms, stink-bait or shrimp.

West Texas Streams

West Texas streams are part of a very fragile ecosystem, dependent upon a scarce water supply, often fed by springs. As in other parts of the state, these streams provide a variety of habitats, from shallow, swift-flowing areas to deeper, slow-moving pools supporting a variety of fish, reptiles, amphibians, insects and mammals. Because water is scarce in West Texas, the riparian areas (banks of a river, stream or lake) team with wildlife.

Human activities can affect these streams in several ways. First, overuse of water from aquifers can lower the water table to the point that springs stop flowing and streams dry up. Second, groundwater can carry pollutants to these streams if care is not taken to contain or dispose of pollutants properly. Third, any action that destroys vegetation along stream banks or disturbs streambeds will reduce cover and food for fish. Some of the best fishing spots in West Texas streams are located just downstream from an undisturbed riffle, where the water begins to slow.

**Can you identify the numbered
fish in the illustration?**

(Answers are in back)



A FRESHWATER RIVER AQUATIC COMMUNITY

Reservoirs

Did you know that Texas has only one natural lake – Caddo Lake? All other lakes are “reservoirs,” made when streams or rivers are dammed for flood control, public water supply, agriculture and recreation.

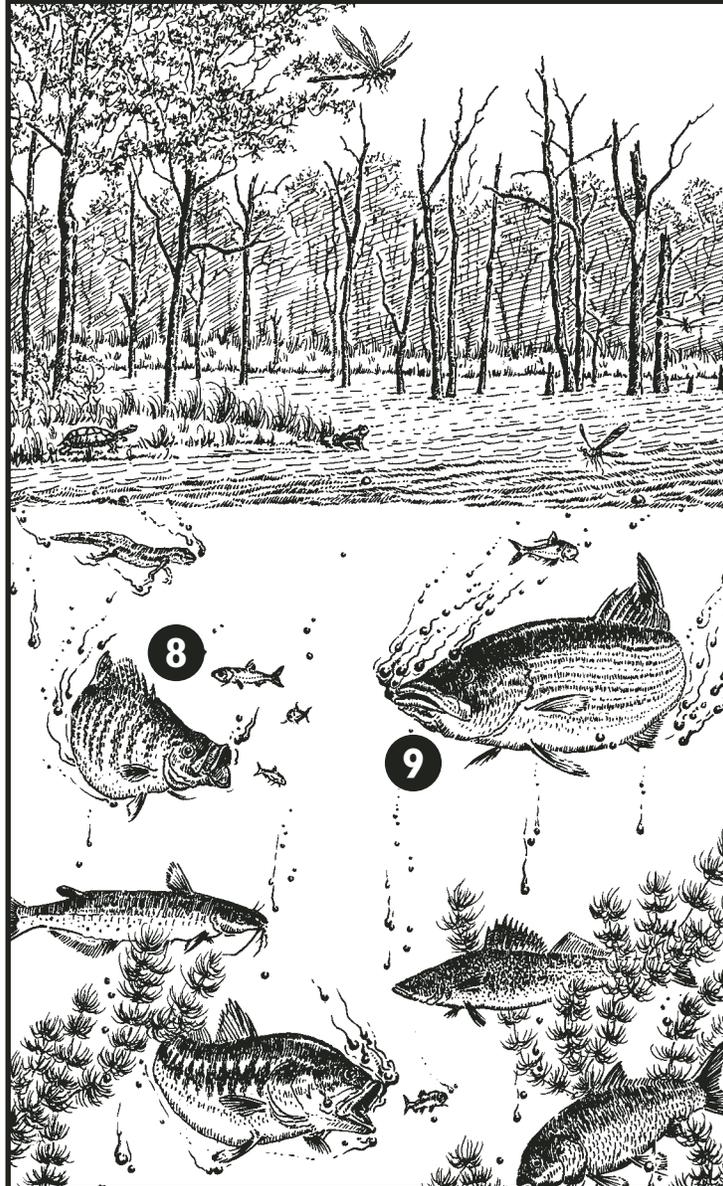
Texas reservoirs vary in size, shape, depth and clarity across the state. In the west, they tend to be broad, flat, shallow and somewhat cloudy with sediments, their water level changing with amounts of rainfall. Central Texas reservoirs are often steep-sided and deep. These waters are relatively clear, depending upon amounts of storm water run-off. Water levels can fluctuate dramatically on some lakes during drought and flood events. East Texas reservoirs are shallow and relatively clear with a more constant water level.

Each reservoir’s combination of water, aquatic vegetation and substrate, or bottom, provides habitat for fish and other aquatic organisms. The fish draw anglers who support a statewide, multi-billion dollar sportfishing industry.

Many reservoirs are stocked with fish such as striped bass, largemouth bass, crappie and catfish. Anglers use a wide variety of tackle and fishing techniques. Check with local marinas and bait shops for current fishing forecasts and tips. You can also check the weekly fishing reports on the Texas Parks and Wildlife Web site: www.tpwd.state.tx.us/fishreport

**Can you identify the numbered
fish in the illustration?**

(Answers are in back)



AQUATIC LIFE IN A RESERVOIR

Coastal Bays and Marshes

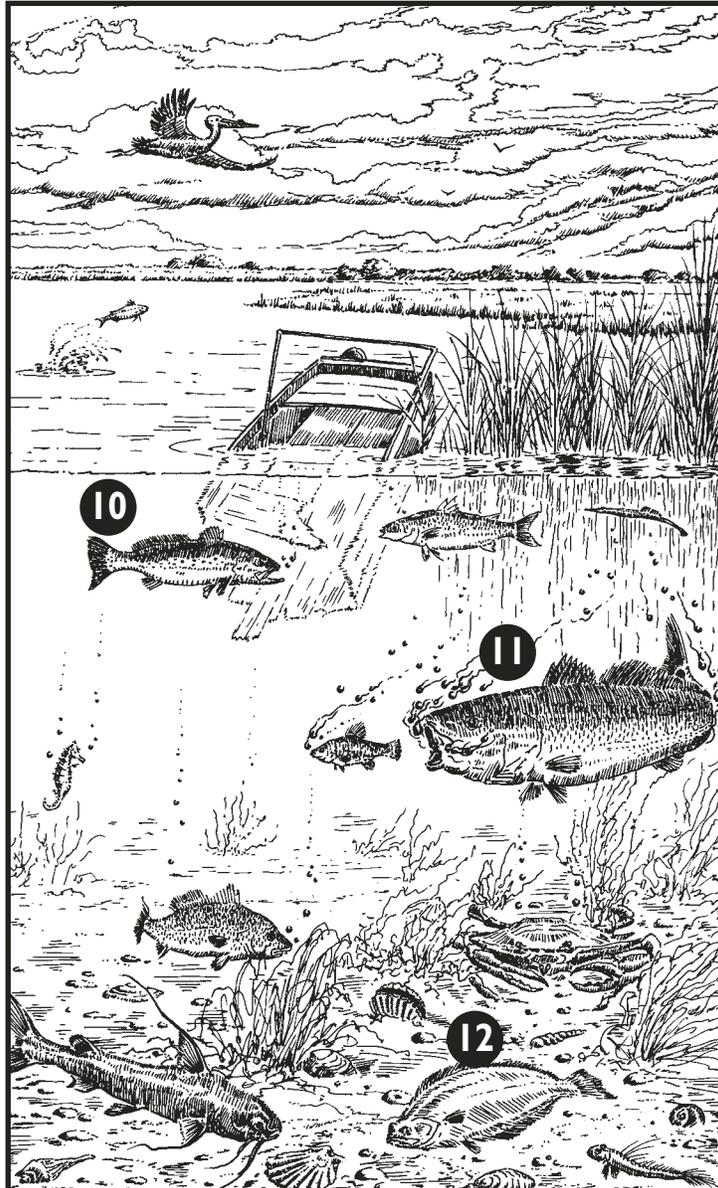
Coastal wetland habitats contain the largest diversity of plants and animals of any aquatic ecosystem. This is due in large part to the diversity of habitats that make up coastal wetlands. In the bays, water is salty, but fairly shallow, with seagrass beds providing important cover for fish, crabs, shrimp and shellfish. Sandbars, spoil islands and shell reefs also provide structure. Tidal movements influence the feeding activity of all species.

At the mouths of rivers and streams, the water is less salty with cattails and salt-tolerant reeds providing cover. The flow of freshwater helps maintain a fragile balance of water chemistry that many plants and animals have become adapted to and dependent upon. These areas are the nurseries for many saltwater fish, crabs, shrimp, and shellfish and their importance can't be overstated. In addition to aquatic species, coastal wetlands also support a diversity of bird life such as shore birds, wading birds, gulls, terns and pelicans. Songbirds migrating in the spring often travel great distances across the Gulf of Mexico before landing safely on Texas shores. Sadly, coastal wetland habitats are being destroyed at an alarming rate as a result of development, decreases in water quality and other threats. Communities and resource professionals are teaming up to conserve these productive habitats.

Anglers will find exciting fishing opportunities in these more shallow saltwater habitats. Spotted seatrout, red drum and southern flounder are a few of the more popular species to catch. Anglers use striped mullet, sheepshead minnows, shrimp and blue crab for bait along with a variety of lures.

**Can you identify the numbered
fish in the illustration?**

(Answers are in back)



COASTAL BAY AND MARSH HABITAT

Fishing is best in water that provides good fish habitat:
food, oxygen, water, shelter, and space.

Food

Food sources vary for different species of fish. Food can include plants, plankton, insects and insect larvae, smaller fish, crayfish, worms, and freshwater shrimp.

Learn more about the particular food favored by different fish species on pages 18-23 (baits or lures) or read about different fish species on the Texas Parks and Wildlife Web site, www.tpwd.state.tx.us/landwater/water/aquaticspecies

Oxygen

Oxygen levels in the water vary with water temperature, water movement, and with the amount of algae present. In the summer when water temperatures are high and flow is low, algal blooms can cause oxygen levels to dip at night, causing a fish kill. Oxygen levels are increased when water moves over water falls or riffles.

Water

Water quality is also important and sometimes difficult to determine by just looking. If the water is very muddy, light can't penetrate, making it hard for many fish to find food. However, some catfish can thrive in water that is not clear because they can find their food mainly by smell. Also, particles in the water protect a catfish's skin from being sunburned.

"Clean" looking water, however, may have harmful chemicals, too much or too little salt, or may be too acidic or basic. A healthy ecosystem helps maintain a good balance of nutrients and chemical composition in water, making it ideal for fish.

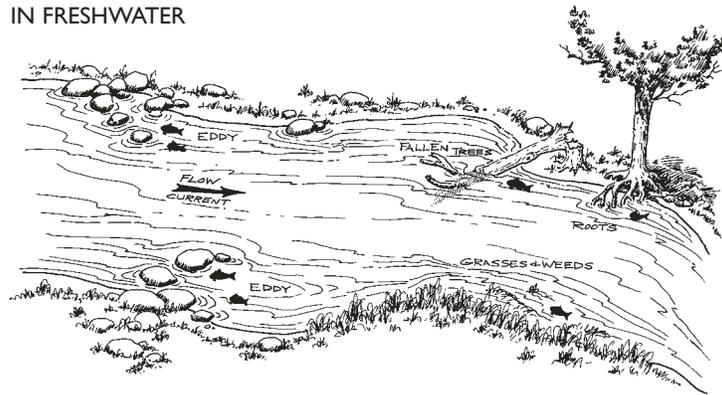
Shelter

All fish need "**structure**" such as rocks, stumps, aquatic plants, and piers to provide cover from predators or to hide out and wait for prey. If the water is flowing, try fishing downstream below one of these structures. In saltwater, fish deal with currents and tides. Near the shoreline, find a fishing spot down-current from structures such as jetties, piers, and rocks where fish are somewhat protected and can catch food floating by. In bays and other shallow areas, seagrass meadows provide good cover for small fish, crabs, and shrimp. These organisms attract larger predatory fish like spotted seatrout and red drum.

Space

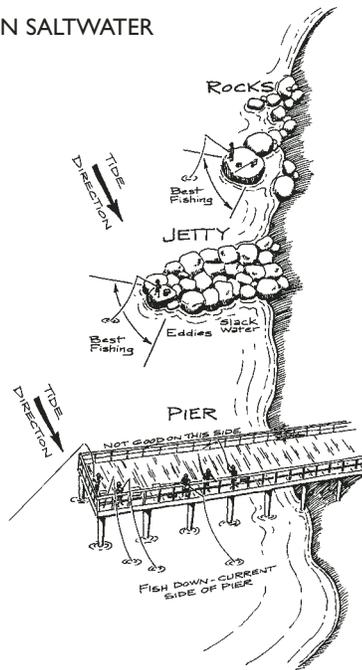
Fish, like people, can't handle being too crowded. Good fish habitat has enough space to provide a good arrangement of structure for protection and rest, not only for them, but for their prey species as well.

IN FRESHWATER



IN SALTWATER

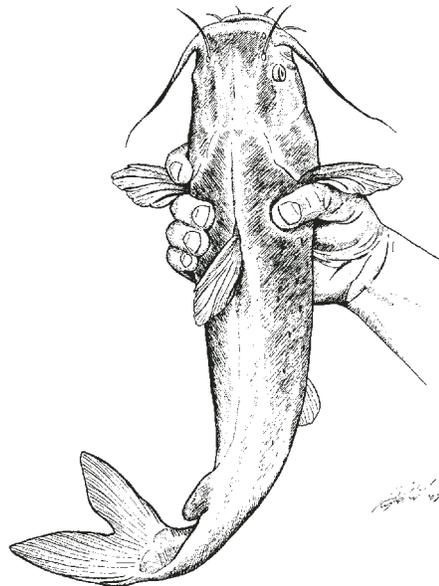
Try fishing down-current from "structures" such as rocks, trees and stumps, jetties and piers.



Handling fish properly protects both you and the fish. Some fish have sharp fins or teeth that can cut you if you don't hold them correctly. Thus, different fish species need to be handled in different ways. Hold some fish by the jaw, such as bass or trout, and others along the body, such as a catfish. Learn by watching an experienced angler, but keep the following rules in mind:

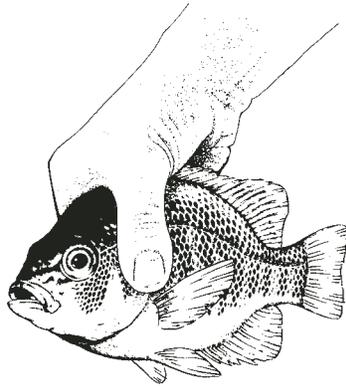
1. Always wet your hands first before handling fish. Wet hands are less likely to damage the protective coating of mucous on the outside of the fish. This slimy layer helps protect the fish's skin from disease and makes it glide easily in the water.
2. Don't allow fish to flop around on the bank, the dock, or the floor of the boat. If keeping fish, put them on ice or in a bucket of cool water.
3. If you are not keeping the fish, take the fish off the hook as soon as possible. Gently lower it into the water until it begins to swim away. If it isn't ready to swim, you may need to slowly swish it in the water first. Remember, no fish is a "junk" or "trash" fish. All fish play important roles in the aquatic ecosystem.
4. If you are not keeping the fish, using barbless hooks can make it easier to take the fish off the hook.

CATFISH

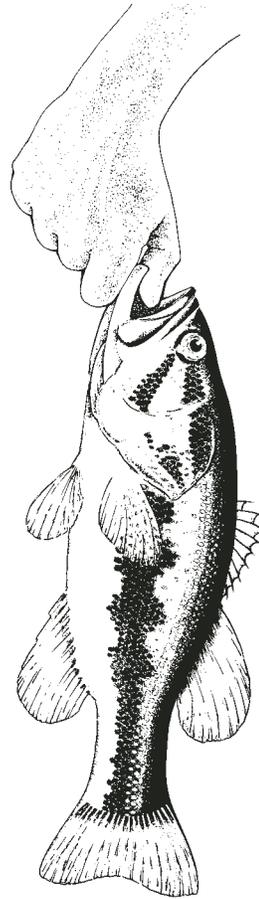


BASS

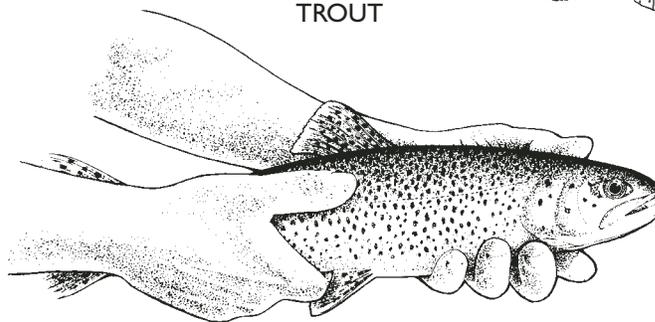
For bass three pounds or more, support its body with your other hand.



SUNFISH



TROUT



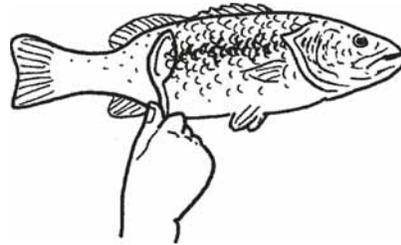
It's fun to learn to clean and cook your fish. Ask an adult for help and be careful with the knife. Keep cleaned fish ice-cold.

Scaling

For most fish, you'll want to remove the scales if they are not skinned.

To scale fish:

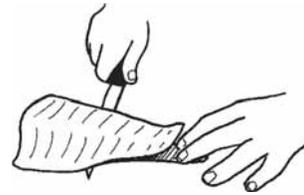
Hold the fish by its tail and scrape from tail to head with a fish scaler, butter knife or table-spoon. Cut around the head with a sharp knife.



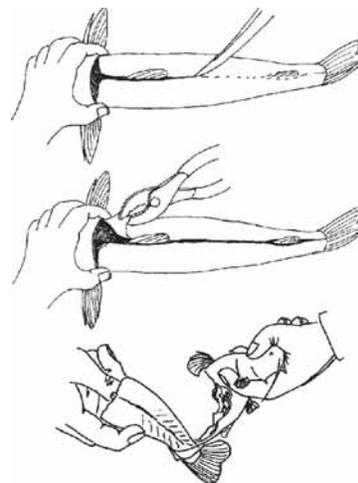
Remove the head and insides.

Skinning

Skin a fillet by placing it skin-side down on the cutting board. Start at the tail and keep a tight grip on the skin. With the knife at an angle, saw the flesh off the skin.



Catfish have tough skins and you need pliers to pull them off. First, cut around the head with a sharp knife, then pull the skin back with the pliers. Finally, remove the head and insides.



Filleting

Always cut away from yourself.

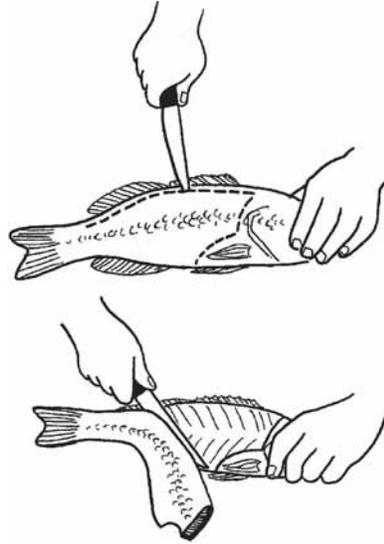
To make boneless fillets:

Cut down to the backbone behind the head and along the side of the fish.

Slice the meat off the bones.

Turn the fish over and repeat.

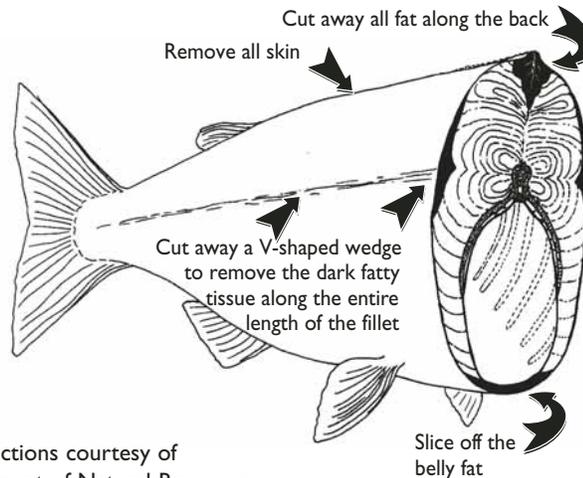
The cheek meat just behind the eye is a delicacy in some households.



Proper Cleaning

Trimming fat reduces your intake of PCBs, which accumulate in fatty tissue. Mercury accumulates in muscle tissue, the part you eat, so limit your consumption. For consumption bans and advisories, visit the Texas Department of State Health Services Web site:

www.dshs.state.tx.us/seafood/



Fish cleaning instructions courtesy of Wisconsin Department of Natural Resources.
Illustrations by Linda Pohlod; text by Theresa Stabo.

1. Youth should only go fishing under adult supervision.
2. Keep at least one rod's length between you and the next angler before, during and after you cast.
3. Look behind you and to the side before casting to avoid hooking anyone or anything.
4. Consider fishing with barbless hooks or have an adult bend the barbs down with pliers. If you hook yourself, anyone else, or a fish, a barbless hook will be easier to remove.
5. Wear a properly fitting Personal Flotation Device (PFD or life jacket) and fasten it securely. Eighty-five percent of drowning victims would be alive today if they were wearing a PFD.
6. To rescue a person who falls into the water: **Reach** the person with something they can hang on to; **Throw** a flotation device to them; **Row** out to them if you are in a boat; and then **Go** – for help! Don't jump in and risk drowning yourself.
7. Use the "buddy system" when fishing. If something happens to you like slipping down a bank, your buddy can help.
8. When fishing in hot or cold weather, protect head, eyes, hands, feet, and skin from exposure to wind and sun. In hot months, wear light-colored clothing, hat, sunscreen, and take plenty of water with you. In cold months, wear layers of clothing, gloves, a knit hat and water-proof shoes.
9. If your line gets snagged when you have cast it out, gently jiggle your line back and forth and from side to side to loosen it. If you pull too hard, the hook and line could come loose with such force that it could fly back at you and hit you (or someone else).
10. When cleaning a fish, always use safety glasses and gloves to protect eyes and hands. Always cut away from your body when using a knife. The regulations booklet has good fish-cleaning tips for you.

Take the Right Path

Which way will you go when faced with tough choices while fishing? Your ethics are the rules or values you use to help you choose behavior that is fair to others and to yourself. We practice ethical behavior when we "do the right thing" even when we think we won't be caught or punished for our behavior.

To decide if your behaviors are ethical, ask yourself the following questions.

- Is it legal?
- Would it be good if everybody did it?
- Would it make you proud?

Be Considerate of Others

1. Respect other anglers' rights. Don't crowd another angler or make loud noises when another person is fishing.
2. Always get permission before fishing on private land.
3. Always leave your fishing area cleaner than when you arrived so that other anglers can enjoy it as you did.

Conserve Fish and Aquatic Ecosystems

1. Remember that all native fish (even the ones you may consider nuisance fish) play important roles in aquatic ecosystems and should be released carefully.
2. If you are not going to use the fish you catch, gently place them back in the water as quickly as possible. (See Handling Fish on page 36 and 37)
3. Place excess fishing line, bait boxes, and litter in trash cans or pack it out with you. A major cause of injury for fish and wildlife along waterways is getting tangled in abandoned fishing line.

Fishing regulations are important for several reasons. First, many regulations help assure that certain types of fish or certain areas will not be over-fished. Second, some regulations protect certain sizes of fish, allowing for better fish reproduction. Finally, fishing regulations protect the rights of all anglers as well as the rights of landowners. Below are answers to some of the most frequently asked questions about fishing regulations.

1. Where do I find all fish and wildlife regulations for the state of Texas?

Fishing regulations are found in the Texas Parks and Wildlife Outdoor Annual, which is free to everyone and available when you purchase your fishing or hunting license. These regulations are also available online at www.tpwd.state.tx.us/regulations

If you have a question that is not answered in these materials you can call your local game warden or district or regional Texas Parks and Wildlife law enforcement office. You can find those numbers in your Outdoor Annual or online at www.tpwd.state.tx.us/leoffices

2. At what age do I need to purchase a fishing license?

When you turn 17, you must have a fishing license in order to fish legally in public waters.

3. How often do I need to renew my fishing license?

A fishing license is good for one year, with two options available. You can purchase a license that is good from September 1 to August 31. Or you may purchase a license that is good for one year from the date of purchase.

4. Do I need a fishing license to fish from my private property?

Yes, you will need a license if you are fishing into public waters (such as lakes and rivers) even if you are on private land. But you don't need a license to fish on private property in a private pond unless the landowner requires it.

5. What does a "daily bag limit" for fish mean?

It is the amount of fish that one person can have in their possession in a 24-hour period (midnight to midnight).

6. What does "possession limit" for fish mean?

*It is the maximum amount of fish (2-day limit) that one person can have in their possession when they are not in the act of fishing (like in the ice chest or at camp). **It is illegal to be in possession of a number of fish that exceeds the daily limit while actually fishing.***

7. Do I need a fishing license or related stamps to fish with a cane pole or to catch shrimp or crabs or to gather oysters?

Yes, regardless of the method you are using to fish, you must have a fishing license to fish in public waters. You must also possess a freshwater stamp to fish in inland waters and/or a saltwater stamp to fish in coastal waters.

8. Can I give another person my fish if I don't want to bring them home?

Yes, but you need to give them a Wildlife Resource Document along with the fish you're giving them. A WRD form can be found in your Outdoor Annual or it can be hand written on a piece of paper. It must have the following information:

- *Name, signature, address, and fishing or hunting license number, as required, of the person who caught or killed the wildlife resource*
- *Name of the person receiving the fish*
- *Description of the fish (number and type of species or parts)*
- *Date fish was caught or killed*
- *Location where fish was caught or killed (name of county, lake, area, bay, stream or ranch)*

9. What if I catch a fish that is under the size limit, but it dies. Can I keep it then?

No, if a fish dies while in your possession but it does not meet the size or bag limits, the law requires that you must still release it in the water where it will become food for other animals.

10. What should I do with a fish that I catch in a public waterway that I don't want to keep because I consider it an undesirable fish?

You should put it safely back in the water. It is not legal to catch and purposefully kill non-game fish or fish that don't meet the legal bag and size requirements.

11. What does "slot limit" mean?

There are two different types of slot limits:

- 1. Freshwater** – Slot limits mean you must release any fish between the slot limit numbers. For instance, a largemouth bass at a particular lake has a 14" – 21" slot limit. That means you must release largemouth bass between 14 and 21 inches. Depending on the fish species, some lakes, reservoirs, rivers and streams have exceptions to statewide freshwater harvest regulations. See the Outdoor Annual for those exceptions.
- 2. Saltwater** – Slot limit means you may keep any fish between the slot limits. For example, a black drum with a 14" – 30" slot limit means you may retain any black drum between 14 and 30 inches. All others must be released.

Remember to check your state bag and size limits before going fishing.

2007–2008 RECREATIONAL FISHING REGULATIONS Effective 9-1-07 thru 8-31-08

For **CURRENT** regulations and additional information, refer to the latest edition of the Texas Parks and Wildlife Outdoor Annual or visit our Web site at www.tpwd.state.tx.us

No person while actually fishing on the public waters of Texas may have in immediate possession fish in excess of any daily bag limit. Possession limits are twice the daily bag limit.

*Check current Outdoor Annual for special bag, possession and size limits on certain waters.

**All species in the aggregate, including their hybrids.

FRESHWATER SPECIES	Daily Bag	Length in inches (Min.)	Length in inches (Max.)
Bass: Black*, Largemouth & Smallmouth	5**	14*	No lim.
Guadalupe & Spotted*	5**	No lim.	No lim.
Striped*	5**	18	No lim.
White*	25	10	No lim.
Catfish: Channel* & Blue*	25**	12	No lim.
Flathead*	5	18	No lim.
Crappie*	25	10	No lim.
Drum, red (only on Braunig, Calaveras, Colorado City, Fairfield, Coleta Creek, Tradinghouse)	3	20	No lim.
Trout: Rainbow & Brown	5	No lim.	No lim.
SALTWATER SPECIES	Daily Bag	Length in inches (Min.)	Length in inches (Max.)
Amberjack	1	32	No lim.
Cobia	2	37	No lim.
Drum, Black	5	14	30
Drum, Red	3	20	28*
Flounder	10**	14	No lim.
Gafftopsail	No lim.	14	No lim.
Goliath Grouper	0	Catch and Release Only	
Mackerel: King	2	27	No lim.
Spanish	15	14	No lim.
Marlin: Blue	No lim.	131	No lim.
White	No lim.	86	No lim.
Spotted Seatrout	10	15	25* One trout over 25* may be retained
Shark	1**	24	No lim.
Sheepshead	5	13	No lim.
Snapper: Lane	No lim.	8	No lim.
Red	4	15	No lim.
Vermillion	No lim.	10	No lim.
Snook	1	24	28
Tarpon	1	85	No lim.
Tripletail	3	17	No lim.

MORE INFORMATION ON FISHING IN TEXAS

Fishing in State Parks

At more than 70 state parks, Texas Parks and Wildlife Department is waiving fishing license requirements as part of an on-going celebration called Family Fishing Celebration. Many parks will be providing loaner equipment. www.tpwd.state.tx/familyfish

Fishing Events

There will also be all kinds of fishing events at parks throughout the year – from kids' fishing derbies to "Learn to Fish" seminars. Find out about events statewide where freshwater and saltwater fishing events are offered. www.tpwd.state.tx.us/fishevents

Fishing Reports

Find out what's biting on more than 90 freshwater lakes and saltwater bays with these local fishing condition reports which are updated each week. www.tpwd.state.tx.us/fishreport

Stocking Schedule

Find out where TPWD is stocking catfish, bass, or trout in streams and lakes throughout Texas. www.tpwd.state.tx.us/stockings

Where To Fish

Find out all the fishing spots in your area with our online maps and listing. www.tpwd.state.tx.us/takemefishing

Angler Education

Become an Angler Education Instructor, teaching youth and families the basics of fishing. TPWD provides free training, equipment and materials to community leaders who want to share their love of fishing. Contact Angler Education at (512) 389-4732 or visit www.tpwd.state.tx.us/anglered

Aquariums and Fisheries Centers

Texas Freshwater Fisheries Center – Athens, Texas

Discover the mysteries of underwater life in this world-class aquarium and hatchery. Also explore our wetlands area and catch a fish at our well-stocked fishing pond. www.tpwd.state.tx.us/tffc

Sea Center Texas – Lake Jackson, Texas

See the ocean without getting wet! See some of the biggest fish you can imagine in our marine aquarium. Our fish hatchery, gift shop and education center are also worth the trip. www.tpwd.state.tx.us/seacenter

Free E-mail Subscription Service

Finally a free E-mail Subscription Service that lets you select E-mail updates on fishing topics you are most interested in! Whether you want to receive E-mails when there are trout stockings, updates on Family Fishing Celebration events, stories from the current issue of the *Texas Parks & Wildlife* magazine, or you just want to be notified when there is an emergency park closing, you can sign up for these and much more on the new TPWD E-mail Subscription Service. Plus you can change your online profile at any time to add or delete topics. Just visit our Web site at www.tpwd.state.tx.us/email

STATE PARKS NEAR YOU WITH FREE FISHING!



ANSWERS FOR FISH IDENTIFICATION

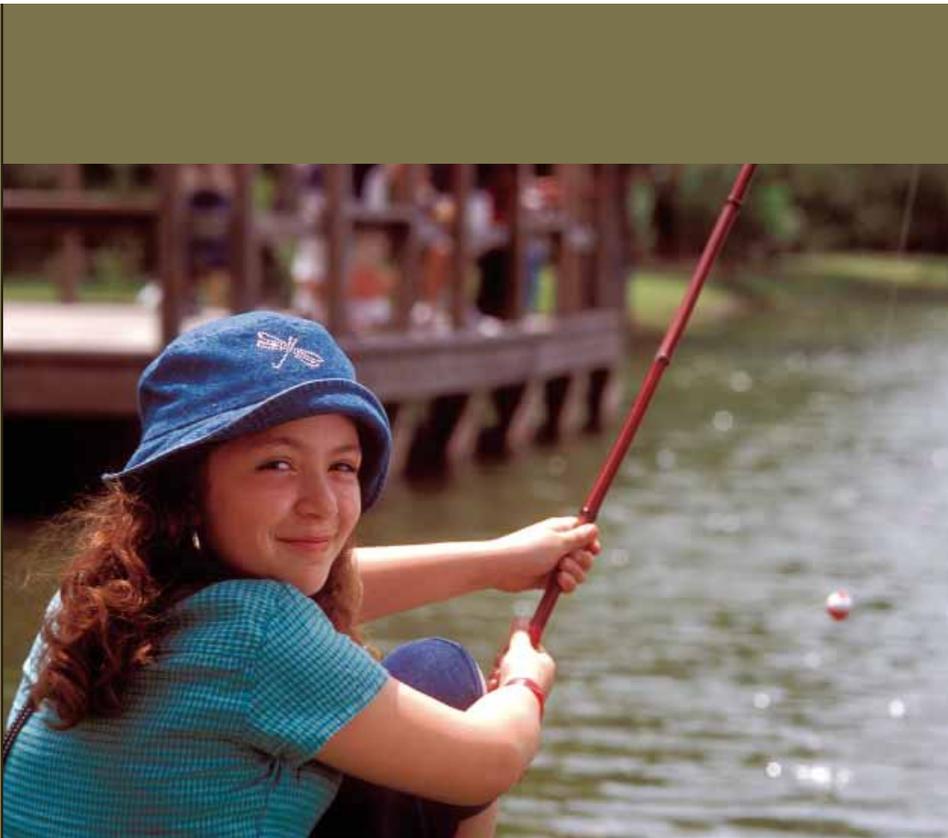
- | | |
|----------------------------|----------------------------|
| 1. largemouth bass | 7. catfish |
| 2. sunfish | 8. crappie |
| 3. channel catfish | 9. bass (white or striped) |
| 4. bass (white or striped) | 10. spotted seatrout |
| 5. longnose gar | 11. redfish |
| 6. largemouth bass | 12. flounder |



Your angler dollars help clean up rivers and streams, restore fish populations, and create public access to waterways. Every purchase of fishing tackle carries a tax that goes from the U.S. Fish and Wildlife Service to state fish and wildlife agencies for fisheries research, habitat improvement, aquatic resource education programs and fishing and boating access.

NOTICE

TPWD receives federal assistance from the U.S. Fish and Wildlife Service and other federal agencies. TPWD is therefore subject to Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title II of the Americans with Disabilities Act of 1990, the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, in addition to state anti-discrimination laws. TPWD will comply with state and federal laws prohibiting discrimination based on race, color, national origin, age, sex or disability. If you believe that you have been discriminated against in any TPWD program, activity or event, you may contact the U.S. Fish and Wildlife Service, Division of Federal Assistance, 4401 N. Fairfax Drive, Mail Stop: MBSP-4020, Arlington, VA 22203, Attention: Civil Rights Coordinator for Public Access.



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