ACROSS Water + space + food + shelter = _ A unique State Natural Area, in Lake County (2 words) Water + soil = ____ A ____land contains water and water-loving plants. The structure that holds and extends your fishing line A Conservation _____ Officer may check your license. A tubular fish with no ventral fins A painted _____ is a reptile of wetlands. A shallow gravel bar in a creek or stream The total number of fish produced in a given period of time Two hydrogen atoms bonded with one oxygen atom =_____ 23. A body of water 1 acre or smaller in size Water in a frozen state Largemouth and smallmouth _____ are two fish species. Device used to steer and propel a boat RESOURCES, CROSSWORD PUZZLE Sense organ found on the side of the head Female-produced reproductive cell An external parasite, this blood-sucking annelid is found in wetlands. This large waterfowl species, the Canada _____, is often seen flying in v-shaped flocks. Tool used to hunt bullfrogs Fin found on the ventral side of the fish, near the caudal fin water has very little salt content. Rainbow, brook and brown are types of _____ The maximum number of fish or ducks that can be harvested per day Structure in a fish to help it control its depth in the water (2 words) A common aquatic crustacean with large chelae This type of tree produces acorns used for food by migrating ducks. Series of pits on the side of a fish to detect vibrations and pressure changes (2 words) Visit the Dunes at Artificial bait used to attract and catch fish Fine soil particles that may be carried and deposited by water FOOD The bald _____ needs large wetland areas to hunt and nest. **PYRAMID** A structure that holds back water, forming a pond or lake State Park 8 A type of goose or frozen precipitation What a predator feeds on The Spanish word for sun 10 12 This metal has been used in shot and sinkers. Light, heat and electricity are forms of An amphibian with a tail as an adult 1 Pound A diatomic gas in air, soil and water needed by plants and animals Label the parts of a fish. 17 16 to live Bluegill *7*7. A primitive fish with diamond-shaped scales 10 Pounds A common name for the muskellunge 18 GIANT WATER BUG Mussels are _____ feeders—they strain particles from Insects the water. 100 Pounds Mouth Not common **GREAT BLUE HERON BEAVER** A number of fish of the same species swimming in a group **Microscopic Animals Dorsal** fin 2 The place where two different habitat types meet **1,000 Pounds** A _____ is a device used to help people skim over the water's surface. The gizzard _____ is sometimes used as bait. 26 **Anal fin** Water that has condensed from the air and covers the surface of objects 32 30 Fishing aide that lets you know when you have a bite A sandy spot along a lake Caudal (tail) fin Mollusk with a single shell (univalve) 34 Good for catching fish but bad for wildlife when left in the trees or on the shore **Pectoral fin** 38 39 This mammal appears "masked." The horse_____ is a plant the pioneers used to scour dirty dishes. Pelvic fin 42 43 41 A measure of how good or bad something is, like water _____ 102. The only venomous aquatic snake in Illinois Operculum (gill cover) A _____boat pushes barges on rivers. 44) A series of energy transfers involving producers and consumers (2 words) CAT-TAIL CRAYFISH MONARCH Structure to help a fish move, maintain position, protect itself or steer 48 45 46 49 BUTTERFLY 112. Source of all the energy on earth Flotation device that should be worn when in a boat (2 words) 50 Wetlands mammal with luxurious fur SILVER MAPLE _ Fishing Days are in June 118. An internal organ for gas exchange 120. 52 53 121. A female white-tailed deer Device that may be used to mark a captured animal 122. 57 59 At flood stage the gates of a dam are _____ to let water flow past. Visit The horn in your boat may help you _____ down help in case of trouble. **Jake Wolf** 61) DRAGONFLY Practice safety: attend a hunter, boater, trapper or 125. A mollusk having two shells snowmobile safety class. **Memorial Fish** A group of ducks 128. 129. A legless reptile Hatchery. The dragon____ is an insect of wetlands. 131. A body of water greater than 1 acre in size 68 69 133. The eggs of a fish Limb modified to achieve lift (flight) 134. 70 Large reservoir south of Mount Vernon, ____ Lake A large salamander found in water the **2** An insect-eating wetlands bird, the spotted _____ RIVER OTTER 143. A type of boat Wildlife The _____ is a short-billed rail (bird) sometimes seen 146. in Illinois **Preservation** The most numerous group of animals in the world 81 The county where Lusk Creek and the Smithland Lock and **Fund on Your** Dam are found **Illinois State** A unique habitat found along the Cache River 83 The trumpeter _____, a large white bird, winters **Income Tax** Form. 84 85 DOWN Who Must Have a **WATER SNAKE** 88 Support State Parks. A female duck A) 14yrs and over A large rodent with a flat tail B) 15yrs and over 92 95 Buy an Environmental License Plate. 93 C) 16yrs and over A large fish-eating bird of prey with a dark eyestripe An area covered by water at least part of the year The large body of water bordering Cook and Lake counties _thyology is the study of fishes. The _____-winged blackbird is often found in marshes and fields. You must purchase a _____ to fish, hunt or trap. This Illinois mammal likes to "play" (2 words). COTTONWOOD The muskie is a member of the _____ family. 102 103 Worms, minnows, liver, spinners, jigs, crickets, etc. A river that flows through Kendall and Kane counties 106 Holds your fishing line for easy casting Microscopic organism - when it "blooms" fish kills can occur Structure for gas exchange in a fish CHANNEL The flower spike of this common wetland plant may produce over one 109 million seeds. **CATFISH** __ is a wetland tree. The sweet ___ Opposite of out WHITE A flowing body of water smaller than a river OAK fish, an exotic species, is related to the carp. 116 114 The thin protective plates covering most fishes A tree of the swamp, used for making caskets A clothing closure previously made from mussel shells This fossil fuel is often found where wetlands once existed. This wetland plant can be used to make a type of fishing pole. **ADULT** A _____boat uses wind power to move. 51. The state fish MAYFLY 122 121 Green-winged or blue-winged are types of this duck. A _____ and reel help you to catch fish. **RED** 124 A parasitic fish in Lake Michigan A large bird that scavenges for food near water Population numbers so low that extinction is possible OAK 125 126 127 Fish, snakes, ducks and people do it. A cavity-nesting duck (2 words) The _____ River borders the western edge of Illinois. MAYFLY If a bluegill lays 18,000 WATER ____, made of nitrogen or phosphorous compounds, can pollute a wetland. NYMPH STRIDER Nesting area for herons and egrets eggs of which 5,000 are Scaleless, bottom-feeding fish with barbels The most common duck in Illinois eaten by predators and 2737 13) This tiny, energetic bird often nests in wetland vegetation. 2,000 die due to being too RACCOON Going...going...._ A deep water area in a river or stream hot, what percent remain? The winding or turning of a river The Mississippi _____ is a bird that nests in southwestern Illinois. The Ohio _____ joins the Mississippi near Cairo. 137 Movement of soil by wind and water It wasn't a great white but one of these fishes was once caught **SKUNK** The Asiatic ____ is an exotic species found in Illinois waters. How to Tie a Clinch Knot A small bush found on the edges of wetlands The American _____ is a white-flowered plant with floating leaves. 143 Contains an aft, stern, port and bow The great blue _____ is a common wetland wading bird. 1. Put the end of the line through the eye of 145 This boat uses oar power. the hook and bring it back toward the line. The process plants use to capture the sun's energy in glucose The river that flows past Superman's city 2. Make 5 "S" twists around the line. This dry-skinned amphibian lives on land as an adult **Visit Little Grassy** The water is an insect that seems to skate across the water's surface. Fish Hatchery. **107.** Mollusks use their mantle to secrete their 3. Take the end back toward the hook and push **108.** A tree found on the edges of wetlands, its twigs are often used to make baskets. it through the first loop nearest the eye. 110. Some people _____ beavers, muskrats and mink for their fur/pelts. 147 148 113. This structure is made by a large aquatic rodent with branches it has gnawed from trees (2 words). Bring the end back through the big loop 150 A belted, fish-eating bird 116. The least _____ is a small, fish-eating bird related to gulls. **118.** Leopard, cricket and crayfish are types of this amphibian. 151 Holding the hook and the line, pull the knot 119. The largest frog in Illinois tight until it looks like the knot shown. **121.** Tiny flowering plants that float as a mat on still water Silver and sugar are types of this tree. The ____fin is a primitive fish of sluggish waters. **127.** Another name for the bottom of a lake, river or other body of water This fish originally came from China and is related to the goldfish. 131. Massac State Park is on the bank of the Ohio River. This type of foot helps beavers and ducks swim. 134. This tool helps you land the monster bass you caught. A member of the catfish family that is rarely over 4" long ILLINOIS Device to transport water from a river, lake or well to a water treatment 139. Walleye, sauger, logperch and a "yellow" variety are members of this family. River that enters the Ohio River south of New Haven **142.** Not the African mammal, but the exotic mussel 144. A structure built to hold eggs Exhibits depicting aquatic areas may be seen at the Illinois State _ A type of small salamander whose immature form is called an eft **149.** The time when fish lay their eggs Equal opportunity to participate in programs of the Illinois Department of Natural Resources (IDNR) and those funded by the U.S. Fish and Wildlife Service and other agencies is available to all individuals regardless of race, sex, national origin, disability, age, religion or other non-merit factors. If you believe you have been discriminated against, contact the funding source's civil rights office and/or the Equal Employment Opportunity Officer, IDNR, One Natural Answers found on back. Resources Way, Springfield, IL 62702-1271; 217-785-0067; TTY 217/782-9175.

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DEPARTMENT OF

NATURAL RESOURCES



RESOURCES A CROSSWORD

ou may wish to provide resource materials for students to use when working on the puzzle. A map of Illinois, field guides, a dictionary and other reference items would be valuable tools.



Salamander

Oxygen

Muskie

Filter

Rare

School

Edge

Gar

Swan

DOWN Beaver Tadpole Osprey Wetland Lake Michigan Ich Red 14 License 19 River otter Pike 21 Bait Fox Predator Reel Algae 31 Gill 33 Cattail Gum In 37 Creek38 Gold

41 Scales

Cypress

Button

Oil

Cane **49** Sail

Bluegill

55 Lamprey

60 Endangered

Wood duck

Mississippi

68 Rookery

Catfish

Wren

Gone

78 Pool**79** Meander

Mallard

53 Teal

Rod

Gull

Swim

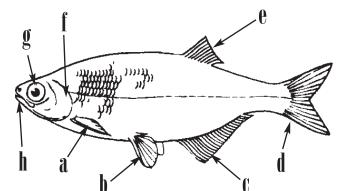
80 Kite83 River85 Erosion 87 Shark Clam 91 Buttonbush 92 Lotus 93 Boat94 Heron Row 100 Photosynthesis Ohio Toad 105 Strider Shell 108 Willow Trap 113 Beaver dam 115 Kingfisher 116 Tern Frog 119 Bullfrog 121 Duckweed Maple Bow Bed Carp Fort Web Net **137** Madtom 138 Pipe 139 Perch 140 Wabash

 Zebra Nest

Newt

145 Museum

Label the parts of a fish



h Mouth
e Dorsal fin
C Anal fin
g Eye

d Caudal (tail) fin
a Pectoral fin
b Pelvic fin
f Operculum (gill cover)

If a bluegill lays 18,000 eggs of which 5,000 are eaten by predators and 2,000 die due to being too hot, what percent remain?



61% remain

