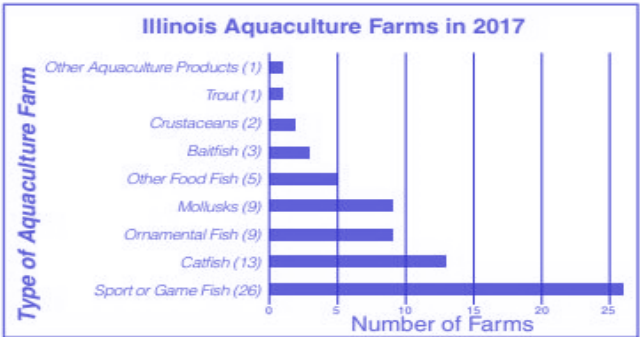


# Agriculture Adventure for Families

Whether you’re looking for food to take on your vacation or bait to put on your fishing line, this month’s topic is sure to be of interest to you. Just as food doesn’t magically appear at the grocery store, bait doesn’t magically appear on your fishing pole. Once again, advances in agriculture are responsible for providing everything from fish to plants to foods.

## What is Aquaculture?

Aquaculture is the production of aquatic animals and plants under controlled conditions including fish, shrimp, salmon, trout, tilapia, aquatic plants, algae and other organisms. Aquaculture can take place in the open ocean, in ponds, bays, greenhouses, and can even take place in a pool. Globally, more than half of all seafood now comes from aquaculture. Aquaculture is the fastest-growing form of food production on the planet, growing at an annual rate of 6%. The projected growth of aquaculture in the United States between 2010 and 2030 is 40%. Aquaculture is primarily divided into two groups: freshwater and marine.



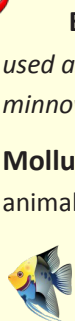
Source: [www.agintheclassroom.org/TeacherResources](http://www.agintheclassroom.org/TeacherResources)

## Aquaculture Words:

**Trout:** Trout are mainly freshwater fish that grow very fast. Most trout can survive water temperature as low as 35 degrees Fahrenheit.



**Crustaceans:** Crustaceans form a large, diverse group of invertebrate animals which include crab, shrimp, and lobsters.



**Baitfish:** Baitfish is a common term used to describe small fish used as bait for sport fishing. Golden shiners, goldfish, and fathead minnows are examples of fish raised as bait.



**Mollusks:** Mollusks are a large group of invertebrate animals. Snails, clams, and squids are examples of mollusks.

**Ornamental Fish:** Attractive, small, and colorful fish that are typically kept in an aquarium.

**Catfish:** Catfish are one of the most common fish we eat. There are many different species of catfish available. They are rapidly growing and accounted for just over \$1 million in sales in 2017.

**Sport or Game Fish:** Sport or game fish are raised to become replenishment stock for natural sport fisheries including trout, bass, pike, catfish, walleye and muskellunge. In 2017, Illinois had 26 farms that raised sport or game fish and made \$6.1 million in sales.

Source: [www.agintheclassroom.org/TeacherResources](http://www.agintheclassroom.org/TeacherResources)

## Aquaponics

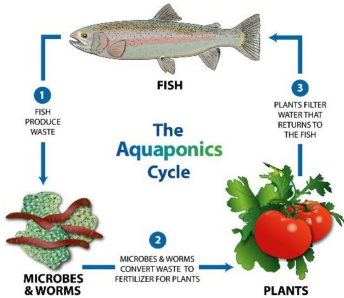
## What is an Aquaculturist?

Aquaculturists raise an assorted selection of aquatic plants and animals in controlled or semi-controlled settings. Raising these organisms can be for production of food, for stocking public bodies of water, home aquariums, or for biomedical applications. Aquaculturists stock production units (ponds or tanks), ensure adequate nutrition, monitor water quality, check for diseases, harvest plants or animals, and maintain equipment. They may also supervise workers, plan production schedules, purchase feed and equipment, and plan harvesting, processing, and marketing.

Source: [USDA Food, Agriculture, and Natural Resources Careers](http://USDA Food, Agriculture, and Natural Resources Careers)

## What is Aquaponics?

Aquaponics is a form of agriculture that combines raising fish in tanks (recirculating aquaculture) with soilless plant culture (hydroponics). In aquaponics, the nutrient-rich water from raising fish provides a natural fertilizer for the plants and the plants help to purify the water for the fish. Aquaponics can be used to sustainably raise fresh fish and vegetables for a family, to feed a village or to generate profit in a commercial farming venture, year ‘round, in any climate.



Source: [www.aquaponics.com/aquaponics-information/](http://www.aquaponics.com/aquaponics-information/)

## August Word Search

T P A Z G W R X H C Z N Y H W  
B N C Q W U K E O X O Z Z Y S  
L B E A U M M N T I F C Y D M  
V F O M T A T A T A F S D R S  
V Z X I P R C I R E W E R O I  
E K L D O I R U E I M F D P N  
R Z A L Z T U H L O N G V O A  
T R L W U P V Q K T S E W N G  
S E P N Y W O L E R U F B I R  
D Q L N O I T C U D O R P C O  
Q U A L I T Y T U O R T E S F  
F J N N R D T A N K D W M R H  
T H T M N Q O G W Z Y W E P S  
C B S O N B S K A B P S P G I  
H O P Z S K V P S Z H Q R H F

Aquaculture  
Controlled  
Equipment  
Fish  
Fresh  
Hydroponics  
Marine  
Nutrition

Organisms  
Plants  
Pond  
Production  
Quality  
Tank  
Trout  
Water

Name: \_\_\_\_\_

Phone #: \_\_\_\_\_

Membership #: \_\_\_\_\_

(Membership # is located on front of paper)

If you were to win, check your preference:

\_\_\_ Beggar's Pizza GC \_\_\_ HRI GC \_\_\_ 3 Movie Tix

(If a choice is not made, movie tickets will be sent)

Deadline is the 20th of each month.

Choose your prize:

Choices include a \$25 Beggar's Pizza Gift Card, a \$25 Home Run Inn Gift Card, OR \*3 AMC Movie Tickets \*AMC Yellow tickets not valid in California, New York & New Jersey.

Complete the Word Search puzzle for your chance to win! Winners will be contacted by mail.

Mail to: Cook Co. Farm Bureau

Ag Adventures Word Search

6438 Joliet Rd

Countryside, IL 60525

Fax to: 708-579-6056

Email to: [FBCooperator@gmail.com](mailto:FBCooperator@gmail.com)

Complete and submit an entry every month all in 2019 and your name is automatically entered into an "End of Year" drawing for a gift basket full of ag themed goodies.

Good luck!

Last Month's Word  
Search Winner Is...

Margaret Novak

