is the world’s largest industry. In the United States more than 21 million people work in some phase of the industry, from growing food to selling it at a supermarket. UConn students study a range of topics related to animal science including:

- Raising beef cattle and pigs for better quality meat
- Breeding and feeding dairy cattle to produce greater quantities of milk
- Improved reproductive efficiency of livestock
- Understanding the biology of animal growth
- Improving the safety of animal-based food products

TEST YOUR KNOWLEDGE OF THE ANIMALS AT UCONN BY CIRCLING THE CORRECT ANSWER.

A. What is the breed of the black and white dairy cows?
   - Holstein
   - Guernsey
   - Ayrshire
   - Jersey
   [Circle your answer]

B. What product do we get from sheep?
   - Eggs
   - Piglets
   - Hay
   - Wool
   [Circle your answer]

C. The height of a horse is measured by?
   - Feet
   - Hands
   - Inches
   - Armes
   [Circle your answer]

D. Which product is not made from milk?
   - Cheese
   - Barley
   - Butter
   - Yogurt
   [Circle your answer]

E. What is the name of a group of chickens?
   - Flock
   - Herd
   - Boar
   - Mare
   [Circle your answer]

MATCH GAME
Find a word that best matches the female and male animals of each species and draw a line to connect the two.

- Sow <-> Ewe
- Rooster <-> Cow
- Ram <-> Stallion
- Mare <-> Boar
- Bull <-> Hen

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DAIRY AND BEEF CATTLE

At UConn, we raise both dairy and beef cattle. Female cattle are called cows, males are bulls and babies are calves. Dairy cattle are used primarily for the production of milk. Beef cattle are raised for their meat.

There are five different breeds of dairy cattle: Ayrshire, Brown Swiss, Holstein (the most popular in the U.S.), Shorthorn and Jerseys. At UConn, we have 200 Holstein and Jersey cows. Holsteins are black and white and Jersey cows are light brown. Different types of cows produce different amounts and qualities of milk. Milk from different kinds of cows is blended to provide milk with consistent flavor and nutritional quality. For instance, the Jersey cow produces milk with low volume and more fat and the Holstein cow produces high volume with less fat.

An adult dairy cow weighs between 1,000 and 1,500 pounds. Cows eat hay, corn, and grains usually blended together to make a complete feed that provides the necessary nutrients. Cows eat about 90 pounds of food each day...that's the same as one person eating 480 hamburgers or 1,440 slices of bread! Cows drink between 20-25 gallons of water each day...nearly an entire bathtub full!

Cows have a unique digestive system that allows them to eat fibrous plant materials including hay and corn. The cow has four stomachs. As food and water pass through each of these stomachs it is digested and nutrients are extracted to help the cow grow and to begin milk production.

All cows produce milk but they only do so once they have given birth to a calf. Dairy cows are milked 2 or 3 times a day. At UConn, visitors can view milking from 12:30 to 3:00 PM. Cows are milked using a milking machine. Suction cups are attached to the cow's udder and gently tugged to draw the milk out similar to a sucking calf.

At UConn, a cow will produce about 90 pounds of milk each day. This is equal to 10-11 gallons. At UConn, a cow lives about 6 years and during her lifetime she will have 4 calves and produce nearly 29,000 pounds of milk each year. Milk is processed to separate the cream from the milk. The cream and milk is then further processed to make ice cream, cheese, yogurt, and butter. Milk products are excellent sources of vitamin D and calcium for strong bones.

Students learn how to feed, clean, breed, and milk cows as well as show the animals at annual agriculture fairs. Cows may look alike but each animal's markings are like a fingerprint...no two cows have exactly the same pattern of spots. The numbered ear tags are attached to a cow's ear to also help us identify them. Cattle are herding animals and therefore are easy to move from place to place because they just follow each other.

We have up to 55 mature beef cattle at UConn, mostly Black Angus and Herefords. Mature beef cows can weigh between 1,200 – 1,600 pounds. They eat the same plant foods as dairy cattle. From one steer a variety of products are made including meat (hamburger, steaks, ribs, roasts...) and leather from the hides for things such as shoes, belts, and furniture. Beef cattle provide milk to their calves but are not milked for human use.

About 85 horses live in UConn's Lorettoz Stables and other barns on Horsebarn Hill. Most of our horses are Morgans, Thoroughbreds or Quarter Horses and these animals are used for educational purposes, riding lessons, and polo games. Students learn how to ride, feed, breed, clean and train horses. Horses and riders learn how to perform basic paces such as walk, trot, canter and gallop as well as how to jump both for fun and in competition.

A male horse is called a stallion and a female is called a mare. A foal is a baby horse. It takes 11 months for a horse to be born. A group of horses is called a herd. Most horses are born at night under the cover of darkness as protection for the foal. Horses eat grains such as corn, oats and hay. Adult horses are fed twice a day and eat approximately 30 pounds of feed daily and drink 10-12 gallons of water per day.

Horses range in size and the height of a horse is measured in "hands". One hand is equal to 4 inches. The average horse is 15 hands, or 60 inches tall and is measured at the withers (or high point of the shoulder). Horses weigh approximately 1,000 pounds. Horses are large yet gentle animals, they respond to their names and prefer soft voices. A horse can live for over 30 years. Horses wear shoes that need to be changed every 6-8 weeks.

There are over 150 varieties of chickens in the world. At UConn, we have over 500 chickens most of which are Leghorns and Bantam breeds. Bantams are 1/2 to 1/3 the size of standard breeds. We currently have some Buff Cochins, Silkie, and Americana Bantams. Our poultry barns are not open to the public due to biosecurity issues. Especially the threat of Avian Influenza.

A male chicken is called a rooster, a female is a hen, and a baby is a chick. A group of chickens is a flock, and a group of chucks is a brood or clutch. It takes 21 days for a chicken egg to hatch. Chicken eggs can be white, brown, pink and even blue or green! Eggs have either single or double yolks and UConn's fresh farm eggs can be purchased at our Dairy Bar. Chickens used for meat purposes are very different in breed/type from those used for egg production.

Chickens cannot fly far as their wings are too short to carry their weight. They eat a mixture of grains and seeds. Chickens produce eggs and meat for us to eat, and feathers for pillows and mattresses. Within a henhouse there is a boss chicken and below the boss are sub-bosses and so on. Chickens peck one another to maintain this chain of command, referred to as the "pecking order". Chickens, like all birds, do not have teeth and eat small pebbles and sand which are stored in their gizzard which then acts as the chickens teeth to grind their food. There are more chickens in the world than people -- and in the United States there are 250 million people but over 8.5 billion chickens reared each year -- that's almost 35 chickens per person.

There are only 25 pigs at UConn from the end of August through the second week of November and they are used for teaching purposes.

Pig, swine and hog are all names for the same animal without regard to gender, size, or breed. A male pig is called a boar, a female is a sow and a baby is a piglet. A piglet takes 3 months, 3 weeks and 3 days to be born. A sow can have as many as 14 piglets in a litter. Piglets nurse for 3-6 weeks and always suckle from the same nipple or teat.

Pigs grow quickly and eat meals consisting of soybean, barley, wheat, alfalfa meal and corn. An adult pig can weigh 600 pounds. Pigs have sensitive skin and no sweat glands. They roll around in the mud to keep their skin cool and protected from the sun. When the wind blows the water evaporates and cools them.

It is difficult to sneak up on a pig. A pig's field of vision is exceptional as they have eyes on the sides of their heads. They also have very good hearing and a keen sense of smell. Pigs are able to learn their names and can be trained like a dog.

Some of the products derived from pigs are meats such as pork roast, hot dogs, and bacon. The skin, or hide, of a pig is also used for things such as footballs. That is why a football is sometimes referred to as a pigskin! Hair from pigs is used to make hair brushes (boar's bristle brushes).

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