

**SAMPLE QUESTIONS**  
*2009 Florida Farm Bureau Youth Quiz Bowl*

1. In a 10-20-10 mixture of fertilizer, 20 is a measure of what nutrient?
2. What is the gas waste produced by photosynthesis?
3. What is the name of the exposed muscle surface seen when a side of beef is cut between the 12<sup>th</sup> and 13<sup>th</sup> rib?
4. Which common vegetable contains a mild antibiotic that fights infections, soothes burns and relieves the itch of athlete's foot?
5. What term refers to the pattern of meteorological conditions over a broad area developed over many years?
6. Which baby pig teeth are clipped shortly after birth?
7. What term refers to the rate of flow of grain and straw through a combine?
8. What is the term for an enlarged part of a stem that grows underground?
9. Giving an animal fluid by mouth is called \_\_\_\_\_.
10. What do you call the genetic makeup of a plant or animal?
11. What is the U.S. satellite system that allows GPS to be possible?
12. What term refers to the amount of seed that is planted per acre?
13. What are the primary macro-nutrients in plant production?
14. This cattle breed is noted for its hump-back, large drooping ears and loose skin under its neck.
15. What is the term for pollution of surface water with unwanted nutrients?
16. What percentage of U.S. currency is made of cotton?
17. What is the second compartment of the ruminant stomach?
18. What percent of average soil is air?
19. These cattle have white faces with red bodies; selected for high yield of beef.
20. Which U.S. president signed legislation in 1862, establishing the first U.S. Department of Agriculture?
21. What are the two most common types of roots?
22. What biologically active chemical compounds occur in plants and act to repel or control insects, prevent plant diseases and control fungi and adjacent weeds?
23. What is the normal weight of a cotton bale?
24. What disease caused by bacteria is of greatest concern in home canned foods?
25. What part of an animal's leg connects the cannon with the foot or hoof?
26. How many acres are in a section?
27. Research on which animal species led to the development of the CAT scan?
28. What is a nonprofit business organization that is owned and controlled by the members for their mutual benefit called?
29. Which underground geological formation holds and transmits water?
30. Which type of connective tissue is commonly where fat is stored on an animal?
31. How frequently do layers produce an egg?
32. What is the term for intramuscular fat?
33. Which type of reproduction requires only one parent?
34. What is an agreement to deliver a specified amount of grain at a specified price, time and location?

35. What category are foods that are broken down to simple sugars through digestion?
36. What livestock disease was first reported in the U.S. in 1870?
37. An acre is said to be the amount of land that an ox could plow in what amount of time?
38. Which plant pest is a sucking insect that secretes a sticky honeydew substance?
39. What was John Deere's profession prior to manufacturing plows?
40. How many miles must a hive of bees fly to produce one pound of honey?
41. How many pounds are in a ton?
42. Where was the first Farm Bureau formed in 1911?
43. What are two items found in an animal cell but not in a plant cell?
44. What is the process of checking a cow for pregnancy by touch?
45. What is the common term for a castrated male hog?
46. What hormone can be injected to stimulate contractions in female animals?
47. In what year was Federal Meat Grading established?
48. Cheese was first made about 4,000 years ago on what continent?
49. A disease and infection that can be transmitted from animals to humans is called a \_\_\_\_\_.
50. Corn is grown on every continent except which one?
51. What are two factors that result in an animal or plant's phenotype?
52. What is an example of a plant that multiplies using stolons?
53. What nutrient is most likely deficient when lower leaves on a plant are reddish-purple and the stalk is short and slender?
54. Which plant growth regulator promotes ripening and maturation?
55. What is the name of the group of plants that can tolerate and grow in extremely wet soils?
56. In 1779 the first variety of sweet corn was acquired from which Indian tribe for general use in America?
57. Cooperatives are owned and controlled by who?
58. In what country did soybeans originate?
59. What process utilizes fluorescent dyes to identify sperm cells containing the sex chromosome and those that lack it?
60. What bacterial disease in cattle, also known as Bang's disease, can result in abortions?
61. A census of agriculture is taken every how many years?
62. What is the spot in the yolk portion of the egg containing the genetic material from the hen?
63. What is an organism that is an exact genetic copy of another organism?
64. Name the top U.S. quality grade of beef.
65. Gross ratio equals total expenses divided by what?
66. On average, how long is a cow's estrus cycle?
67. Corn for silage should be harvested at what percent whole plant moisture?
68. Net capital ratio equals total assets divided by what?
69. What type of device uses silicon to capture and convert light energy to electricity?
70. What is young livestock called that is purchased or raised for the purpose of being fed until they reach slaughter weight?
71. What is the term for the first milk produced after a female delivers her young?

72. How often is the USDA Census of Agriculture conducted?
73. What is the science of plants, their characteristics, functions, life cycles and habits?
74. What is the period of her cycle during which a female animal is receptive to mating?
75. What is the term for the physical characteristics of a plant or animal that can be seen and measured?
76. What does EPD stand for in livestock production?
77. Other than fossil fuels, what fuels come from organic material?
78. What is the major protein in milk?
79. What does pH in a soil test stand for?
80. One meter is approximately how many yards?
81. About how many kernels of corn are on each ear of corn?
82. What is the approximate capacity of a rumen in gallons?
83. In 1994, Congress approved legislation referred to as GATT, which helped to liberalize world trade. What does GATT stand for?
84. His idea for this machine came while he was watching a cat trying to catch a chicken in the barnyard. The cat's unsuccessful attempt left him with a claw-full of feathers and no chicken. This inventor then decided to try a similar approach with cotton. He basically wanted to "rake" the fiber from the seeds. His machine, operated by a hand-crank, revolutionized the production of cotton. Who is this inventor and what did he invent?
85. What act in 1862 gave each state thirty thousand acres of public land per seat held in Congress to help build and maintain agricultural colleges?
86. What was created in 1862, termed the "people's department" by President Lincoln, and was created to "acquire and to diffuse among the people of the United States useful information on subjects connected to agriculture"?
87. Who was considered the Nation's first mule breeder, using animals given to him by the King of Spain?
88. Who is known as the father of the Green Revolution and is credited with saving more lives than any other person in history?
89. Who invented the self polishing plow?
90. Who said, "Agriculture is our wisest pursuit, because it will in the end contribute most to rural wealth, good morals and happiness"?
91. Florida ranks \_\_\_\_\_ in net farm income nationally.
92. How many pounds are in a bushel of corn?
93. How many acres are in a section?
94. How many square feet are in an acre?
95. \_\_\_\_\_ crops are grass crops grown for their seed.
96. \_\_\_\_\_ crops are legumes that are podded crops that have nitrogen fixation ability in the root system and are grown for their seed.
97. Where does photosynthesis take place in the plant cell?
98. What plant cell parts are not found in animal cells?
99. What is another name for maize?
100. The use of light energy to convert non-nutritious inorganic compounds, such as carbon dioxide and water, into essential or nutritious foodstuffs for use by plants, animals and humans is known as what?

101. What is the raw material for photosynthesis that enters through the stomata?
102. What is the tillage system that leaves 30% or more of the soil surface covered with crop residue at planting time to reduce soil and water loss?
103. What does DDG stand for?
104. What does the Florida Farm Bureau acronym CARES stand for?
105. What does GMO stand for?
106. Total Maximum Daily Load or TMDL refers to water \_\_\_\_\_.
107. Who is the current Florida Commissioner of Agriculture?
108. As of 2003, Agricultural lands constituted approximately what percentage of Florida's 35 million acres?
109. How many Water Management Districts does Florida have?
110. The specific land area that drains water into a river system or other body of water is known as a \_\_\_\_\_.
111. What is the process of removing salt, usually from sea water to make it drinkable?
112. What is water that is collected and treated after human use called?
113. What is the most common and generally most efficient irrigation method for citrus?
114. Excluding the Keys, how many miles of coastline does Florida have?
115. What county is home to Florida's highest point?
116. How many rivers are in Florida?
117. What is Florida's longest river?
118. How long is the St. John's River?
119. How many named lakes are in Florida?
120. What is Florida's largest lake?
121. What is the age range for the Florida Farm Bureau Young Farmer & Rancher Program?
122. Where was the first Florida Farm Bureau Collegiate Chapter established?
123. In what year was the Florida Farm Bureau established?
124. This Florida Farm Bureau program was established to protect and further agricultural interests through the active participation of Farm Bureau members in government relations activities at the federal, state and local levels.
125. This annual event organized by Florida Farm Bureau allows members to visit their elected officials in Washington.