

**HOLSTEIN FOUNDATION
AYRSHIRE QUIZ BOWL
2012 PRACTICE QUESTIONS**

1. What is often the first warning sign of a cow becoming sick?
Fever (Dairy Herd Management 2010)
2. Domino's pizza says that online orders account for what percent of all purchases?
20% (Dairy Herd Management February 2010)
3. What percentage of all milk sold in the U.S. is pasteurized?
99% (Hoard's Dairyman 2010)
4. Which bedding will harbor more flies in calf housing: sawdust or wet straw?
Wet Straw (Hoard's Dairyman 2010)
5. What is the number one nutrient needed to make milk; the cow's requirement increases significantly when it gets hot?
Water (Dairy Herd Management 2010)
6. Based on research when is the best time to apply manure to an alfalfa field?
Prior to seeding (Hoard's Dairyman 2010)
7. A rolling herd average is based on how many months?
12 months (Hoard's Dairyman 2010)
8. What is the name of the official publication of the Ayrshire Breeders' Association?
Ayrshire Digest (Ayrshire 2010)
9. DNA testing is a means of verifying parentage. What type of sample is needed for the lab to best identify DNA markers?
Hair sample from switch (Ayrshire 2010)
10. The cost of feed traditionally makes up what percent of the cost of production?
55 to 60% (Dairy Herd Management 2011)
11. As a calf grows what happens to the percent of the body that is water?
Decreases (Hoard's Dairyman 2010)
12. What season is the ideal time to collect soil samples?
Fall (Hoard's Dairyman 2010)

13. A hundred weight (cwt) weighs how many pounds?
100 pounds (VA QB Study Materials 2010)
14. What is the normal incidence of retained placentas in most dairy herds?
5 to 15% (Dairy Herd Management 2010)
15. How many pairs of ribs do cows have?
13 pairs (Hoard's Dairyman 2010)
16. Sales of yogurt and yogurt drinks continue to grow. What company accounts for 67 percent of U.S. sales?
Dannon (Hoard's Dairyman February 2010)
17. Spoiled milk is often referred to as what?
Sour (Hoard's Dairyman 2010)
18. Dairy producers invest what amount per hundred pounds of milk sold in dairy checkoff programs?
15 cents per hundredweight (DMI 2010)
19. Where is the vulva located?
Beneath tail or immediately below the anus (Other 2010)
20. What month is National Grilled Cheese Month?
April (DMI 2010)
21. To reduce stillbirths, calving pens should be checked at least how often?
Every two hours (Hoard's Dairyman 2010)
22. What percent of all energy consumed by a dairy cow is eventually converted to methane and is released through the nostrils or mouth?
6 to 10% (Hoard's Dairyman 2010)
23. Looking forward into a cross section of the cows body cavity, the abomasum lies on which side near the floor of the abdomen?
Right Side (Dairy Herd Management 2010)
24. True or False: Sampling milk tanker trucks without opening the top hatch has been approved by FDA?
True (Hoard's Dairyman 2010)
25. One serving of milk is equal to how many ounces?
8 ounces (DMI 2010)

26. Dairy cows are generally in labor for how long?
2 to 6 hours (Dairy Herd Management 2010)
27. What is the most common complaint from school children on how milk is served?
Too warm (Hoard's Dairyman 2010)
28. A microwave oven can be useful in doing what to colostrum?
Thawing (Hoard's Dairyman 2010)
29. True or False: Cows are ruminants, which are cud chewing mammals.
True (Hoard's Dairyman 2010)
30. Total mixed rations typically contain what percent concentrates?
40 to 60 percent (Hoard's Dairyman 2010)
31. The developing calf places its greatest nutritional demand on the cow during which trimester of pregnancy?
Last trimester (Dairy Herd Management 2010)
32. Gestations vary how many days among breeds?
8 days (Hoard's Dairyman 2010)
33. More cows die in what two months?
July and August (Hoard's Dairyman 2010)
34. In what city was the first ice cream parlor located?
New York City (Other 2010)
35. Name the Ayrshire Breeders' Association vice-president.
Doug Evans (Ayrshire 2011)
36. In regards to calf care, which aspect of calf raising has the greatest impact on the concentration of airborne bacteria in the calf pen?
Pen size (Hoard's Dairyman 2010)
37. What state made it illegal to dock the tail of any horse or cow in January of 2010?
California (Dairy Herd Management October 2009)
38. Who is the U.S. Secretary of Agriculture?
Tom Vilsack (Hoard's Dairyman 2010)
39. A cow's peak milk production occurs at 4 to 6 weeks after calving, but many reach their maximum feed intake at how many weeks?
9 to 10 weeks (Hoard's Dairyman 2010)

40. Dry matter is the amount of feed left after what is removed?
Water (Hoard's Dairyman 2010)
41. How often should silage dry matter be tested?
Once or twice a week (Hoard's Dairyman 2010)
42. Multiple Choice: How many servings of dairy does the average American consume per day: 1.6, 2.2 or 3.1?
1.6 servings (DMI 2010)
43. The loss of what mineral in the feces of a calf with diarrhea is the main cause of dehydration?
Sodium (Hoard's Dairyman 2010)
44. Name the hereditary units that are passed on to offspring via sperm and egg which influence the expression of specific traits, like hair or eye color.
Genes (Hoard's Dairyman 2010)
45. What does productive life tell producers?
How long daughters of bulls typically stay in the herd (Dairy Herd Management 2010)
46. What is a cow's natural buffer?
Saliva (Hoard's Dairyman 2010)
47. In the right composting environment, decomposition of a mature dairy cow carcass will take approximately how many months?
6 to 8 months (Dairy Herd Management 2010)
48. How many inches of lunging space does a large cow require to rise with reasonable comfort?
30 to 40 inches (Hoard's Dairyman 2010)
49. Not all cows that look healthy are healthy. In many cases, fevers develop how many hours before other clinical signs of common fresh-cow problems?
24 to 36 (Dairy Herd Management 2010)
50. What does it cost to become a National Ayrshire Junior Member?
\$10.00 (Ayrshire 2010)
51. What type of mastitis, clinical or subclinical, is the most common and the most costly because it reduces milk production and quality over long periods?
Subclinical Mastitis (Dairy Herd Management 2010)

52. A "bypass" protein is a protein source that avoids breakdown in which stomach compartment?

Rumen (Hoard's Dairyman 2010)

53. Foot wart research cites three major risk factors: bacteria, management and what else?

Environment (Dairy Herd Management 2010)

54. What percent of lameness occurs in the rear feet?

90% (Dairy Herd Management 2010)

55. Who is the editor of the *Ayrshire Digest*?

Diana Curtis (Ayrshire 2010)

56. According to research, even after a normal and complete milkout, what percent of milk will remain in the udder?

10 to 15% (Hoard's Dairyman 2010)

57. Dental research has found that what dairy product can actually prevent cavities and restore depleted enamel?

Cheese (Dairy Herd Management 2010)

57. In regards to machinery, what do the initials SMV stand for?

Slow-moving vehicle (Hoard's Dairyman 2010)

58. How long should one ton of fresh silage be packed for?

One to three minutes (Hoard's Dairyman 2010)

59. Typically, milk that comes from a healthy, infection-free udder will contain less than how many colony-forming units per milliliter?

1,000 (Dairy Herd Management 2010)

60. Learning to pay attention to how a cow walks and stands can help you catch hoof health problems. The booklet, *Locomotion* developed by Zinpro Corporation places special emphasis on a cows' what to provide clues into hoof health?

Back postures (Dairy Herd Management 2010)

61. Clinical ketosis affects what percent of dairy cows?

2 to 15% (Dairy Herd Management 2010)

62. If you are sampling forage from a bunker that is ten feet high, how close can you safely stand next to it?

6 feet (Hoard's Dairyman 2010)

63. Under multiple component pricing systems, milk prices are based on what?
Pounds of milk components (Hoard's Dairyman 2010)
64. Who is the president of the Ayrshire Breeders' Association?
Steve McDonald (Ayrshire 2011)
65. Four factors affect pregnancy rates: heat detection rates, herd fertility levels, semen fertility, and what else?
Inseminator proficiency (Hoard's Dairyman 2010)
66. In regards to nutrition, what do the initials NSC stand for?
Non-Structural Carbohydrates (Dairy Herd Management 2010)
67. What are the two biggest enemies to a silage pile, that by covering piles quickly, can be avoided?
Oxygen and water (Hoard's Dairyman 2010)
68. Hairy heel warts can cause severe what in cows?
Lameness (Hoard's Dairyman 2010)
69. When feeding calves, what protein source is best: vegetable or milk?
Milk (Hoard's Dairyman 2010)
70. What percent of your total mixed ration should have particle sizes of at least one inch?
5% (+/-2%) (Dairy Herd Management 2010)
71. According to state Labor Laws, what is the minimum age to perform any job declared hazardous?
16 (Dairy Herd Management 2010)
72. In regards to the environment, what do the initials DEP stand for?
Department of Environmental Protection (Hoard's Dairyman 2010)
73. Corn silage should not be fed until it has had a chance to ferment. How many weeks are usually required for corn silage to ferment?
8 to 10 weeks (Hoard's Dairyman 2010)
74. In reference to farm employees, what do the letters NIOSH stand for?
National Institute for Occupational Safety and Health (Hoard's Dairyman 2010)
75. Where did BSE originate?
Great Britain (Hoard's Dairyman 2010)

76. What is another name for rumination?

Cud chewing (Hoard's Dairyman 2010)

77. How much uninterrupted growth does an alfalfa plant need prior to frost to prepare itself for winter?

6 weeks (Hoard's Dairyman 2010)

78. Cows can produce how many gallons of moisture per day by respiration alone?

4 to 6 gallons (Hoard's Dairyman 2010)

79. At what age does Ayrshire Junior membership expire?

21 (Ayrshire 2011)

80. Do sole ulcers occur on the inner or outer side of the hind claw?

Inner (Dairy Herd Management 2010)

81. A Presynch program of how many shots of prostaglandin before a timed A.I. program has proven to improve conception rates?

Two shots (Hoard's Dairyman 2010, p.)

82. Who was the Senior Division winner of the 2011 *Hoard's Dairyman* Judging contest?

Steve Quanz (Hoard's Dairyman May 2011, p. 327)

83. What do the letters VFA stand for?

Volatile fatty acids (Holstein World 2010)

84. What does PETA stand for?

People for Ethical Treatment of Animals (Hoard's Dairyman 2010)

85. Fahrenheit temperatures below what degree slow growth of most bacteria?

40 degrees F (Hoard's Dairyman 2010)

86. What has become the most indispensable piece of equipment on dairy farms next to the milking machine?

Skid steer (Hoard's Dairyman 2010)

87. Name the cheese that is fresh, creamy and sweet and of Italian origin. Its smooth texture and rich taste make it perfectly suited for desserts. It is also excellent in dips sauces and soups.

Mascarpone (Holstein World 2009)

88. Name the 2011 National Ayrshire Princess.

Taylor Jodrey (Ayrshire July 2011)

89. One serving of yogurt is how many ounces?
6 (DMI 2010)
90. Increased dairy rations for its soldiers are yet another sign of what country's government commitment to increase per capita dairy consumption?
China (Dairy Herd Management October 2009)
91. What color is nitric oxide?
Colorless (Hoard's Dairyman 2010)
92. What do the initials AFGC stand for?
American Forage and Grassland Council (Hoard's Dairyman 2010)
93. In what year did the Food and Drug Administration approve the first commercial bST product?
1993 (Dairy Herd Management 2010)
94. What are the two most common types of flies on a dairy?
House flies and stable flies (Hoard's Dairyman 2010)
95. In regards to equipment, what do the initials ROPS stand for?
Roll Over Protective Structures (Dairy Herd Management 2010)
96. In regards to feed, what do the initials TLC stand for?
Theoretical Length of Cut (Hoard's Dairyman 2010)
97. Anionic salts are fed to prevent milk fever. When is the best time to feed them?
Two weeks before calving (Hoard's Dairyman 2010)
98. When grazing sudangrass, sorghum-sudangrass hybrids and grain/forage sorgham how many days after a frost is it safe to graze again?
3 to 5 days (Hoard's Dairyman October 2009)
99. In regards to global warming, what do the initials GGE stand for?
Greenhouse Gas Emissions (Hoard's Dairyman 2010)

100. What is the name of the nationally syndicated radio program dedicated to coverage of the dairy industry? A five-day-a-week, 4-1/2-minute version of the show covers dairy industry outlook and market analysis.

Dairyline (Hoard's Dairyman 2010)

101. Adding water to barley 24 hours prior to rolling can boost milk production by 5%. What is this process called?

Tempering (Hoard's Dairyman 2010)

102. Name the person who introduced artificial insemination to American dairymen.

Enos J. Perry (Progress of the Breed 1985)

103. Adding dissolved carbon dioxide to fresh milk can extend shelf-life by how many months?

3 months (Holstein World 2010)

104. What is not a disease in itself, but rather a symptom of an infection? It is produced by the fermentation of bacteria, viruses, or protozoas and occurs in the large intestine.

Diarrhea (Dairy Herd Management 2010)