

National Junior Angus Association Quiz Bowl Study Guide

NOTE: Questions on the NJAA Quiz Bowl Test may come from this study guide but they may also come from other sources.

Angus Information

History

- Person who brought first Angus Bulls to North America and when (*George Grant*)
- Why Angus Bulls were brought to America (*To use on Texas Longhorns*)
- First registered Angus cow (*Old Grannie*)- had 25 calves

American Angus Association

- Headquarters location (*St. Joseph, MO*)
- Board of Directors- know who is on it and who the officers are
- Know all of your ROV shows and where and when they are held
- Original name (*American Aberdeen Angus Association*)
- Official publication (*Angus Journal*)
- Know membership fees
- Know Regional Managers and what regions they represent

National Junior Angus Association

- Year of establishment (*1980*)
- The recognition program- know how many levels there are, when you can apply for each, and how many points you need (*Bronze, Silver, and Gold*)
- Board of Directors- know how many directors there are, who is on the board, what position they hold, what state they are from, and who is running for the board in 2015
- NJAS Contests- know all the different contests from the National Junior Angus Show, how many juniors from each state can participate in each contest, and when the contests were started
- National Junior Angus Show- know where and when the first one took place, history behind it, and where next years will be
- Newsletter (*Directions*)
- LEAD (*Leaders Engaged in Angus Development*)
- Know membership fees

Angus Foundation

- Know the staff working for the foundation and their positions
- 3 main areas they support (*Education, Youth, and Research*)
- Golf Tournament- know what it is, where it is held, and the history behind it.
- Angus Foundation Heifer Package- know what it is, where it is sold, and the history behind it

American Angus Auxiliary

- What year was it founded? (1952)
- What awards and scholarships they sponsor at the National Junior Angus Show and the history on those awards and scholarships
- Miss American Angus- who is this year's MMA, when the contest was started, where the contest is held
- President (*Lynne Hinrichson*)
- Regional Managers- how many, who they are, and where they are from

Certified Angus Beef

- Headquarters Location (*Wooster, OH*)
- Know all of the qualifications an animal must meet to be certified

Animal Science

General

- Beef Check-off program- know who runs it, how much is collected, how much is given to the Cattlemen's Beef Board
- United States Secretary of Agriculture (*Tom Vilsack*)
- COOL (*Country of Origin Labeling*)- know what it is and how it started
- What country has the largest number of beef cattle? (*India*)
- Know your other British, Continental, and American Breeds
- Know genotype vs. phenotype
- Beef by-products
- What invention in 1873 had a large impact on beef cattle production? (*Barbed Wire*)
- Parrot and Monkey Mouth- what are they?
- Flight Zone- what is it?
- Chicago Mercantile Exchange- where most livestock futures are traded

Genetics

- EPDs (*Expected Progeny Difference*)- know which ones are considered maternal, paternal, and carcass related
- Polled vs. Horned- know which is dominant and which is recessive and the definitions of both
- Homozygous vs. Heterozygous genes
- Double Muscling- what is it?

Reproduction

- Average length in days between heat cycles (*21 days*)
- Sperm cell abnormalities (*Double heads, coiled tails, proximal droplets, distal droplet*)
- BIF (*Beef Improvement Federation*)- know who they are and what they do
- Cow's first milk (*Colostrum*)
- A.I. (*Artificial Insemination*)
- Know the reproduction tracts in both cows and bulls

- Zygote- know what it is and how it is formed
- Surrogate mother in embryo program (*Recipient Cow*)
- Dystocia- what is it?
- Lutalyse- what it is and why you would use it
- Clean up bull- what does he do?
- Parturition- what does it refer to?
- FSH (*Follicle Stimulating Hormone*)
- Estradiol- cannot be legally used for synchronization programs
- Know all of your main hormones
- Breeding soundness exams- what is their purpose and how are they conducted?
- Time between the birth of a calf and when the cow rebreeds (*Post-Partum Interval*)

Health

- Normal body temperature of a beef animal (*100.4-103.1*)
- Scours- know what it is and the cause
- Bloat- what it is, how it can be detected, and how it can be treated
- Injections- know the types and where they are given
- Parasites- know all of the internal and external ones as well as how to treat them
- White Muscle Disease- how it is caused and treated
- Grass Tetany- how it is caused and treated
- Tetanus- how it is caused and treated. What is the common name for it? (*Lockjaw*)
- Pneumonia- how it is caused and treated
- Hardware Disease- how it is caused and treated
- BSE (*Bovine Spongiform Encephalopathy*)- what it is, how it is caused, and where confirmed cases have been found
- Brucellosis- what it is and what causes it
- Zoonotic Diseases- what are they?
- Enterotoxaemia (*Overeating*)
- Blackleg- what it is and what causes it
- IBR (*Infectious Bovine Rhinotracheitis*)- what it is and what causes it, also known as Red Nose
- Ricketts- what it is and what causes it

Classifications

- Scientific name for a cow (*Bovine*)
- Know both species of beef cattle and what makes them different (*Bos Taurus and Bos Indicus*)
- Term for a non-lactating cow (*Dry*)
- Offspring of a cow (*Progeny or calf*)
- Heifer that is born twin to a bull (*Free Martin*)
- Calves on grass after weaning but before going to feedlot (*Stockers*)
- Male parent (*Sire*)
- Female parent (*Dam*)
- Cattle used for milk and beef production (*Dual purpose breed*)
- Maturity grades- know what ages go with each grade

Anatomy

- The stomach- know all four compartments and what their purposes are
- Know names of the bones in beef cattle and where they can be found (*example-there are 13 pairs of ribs*)
- Know structure problems and terminology for them
- Rumen PH- what the average is in cattle and what upsets of it could cause
- Know the digestive system

Nutrition

- What is the most important nutrient for cattle? (*Water*)
- Know your common forages and feeds
- Know the 5 essential nutrients for cattle
- What is the most abundant mineral in any animal's body? (*Calcium*)
- Vitamins- water soluble,
- Calorie- measure energy value in feed stuffs

Carcass

- USDA Quality Grades (*Prime, Choice, Select, Standard, Commercial, Utility*)
- USDA Yield Grades (*1-5*)- know how they are calculated
- Veal- know definition
- Marbling- what it is and why it is important
- Know your cuts of beef
- Know the abnormalities in carcasses
- Know how to calculate dressing %

Management

- Know the definition and process of weaning, dehorning,
- Know the two permanent types of identification recognized by the AAA (*Tattooing and Branding*)
- Know how many days of age weaning weights for calves are adjusted for (*205*)
- When newborn calves should be weighed (*within 24 hours after birth*)
- Be able to define creep feeding
- Method is commonly used to determine pregnancy in cows (*Rectal palpation*)
- Semen- how it is collected and stored
- CIDR- what is it used for and what hormone does it release?
- Know different types of grazing systems (*Example- rotational and continuous*)
- Body condition scores (*1-9*)
- Know when different types of needle gauges would be used
- Contemporary Groups- what are they and how are they used?
- Compensatory Growth- what is it?