

## State FFA Poultry Judging Contest

May 3<sup>rd</sup>, 2014

- Which of the following does not belong to the order Galliformes?  
A. Chicken      B. Turkey      C. Pheasant      **D. Dove**
- The comb and wattles serve what purpose?  
A. Sexing ability      B. Regulating blood pressure      **C. Temperature regulation**  
D. Sexual reproduction
- Pectoral muscles account for what percentage of avian total weight?  
A. 10-15%      **B. 15-20%**      C. 20-25%      D. 25-30%
- What is the function of the pectoralis major?  
A. Raising the wing      **B. Depressing the wing**      C. Rotating the humerus      D. Flexing the knee
- Which muscle in the avian body flexes the abdomen?  
A. Sartorius      B. Tres major      C. Flexor perforans      **D. Obliquus**
- The hock joint is also referred to as the what?  
**A. Hypotarsal**      B. Metatarsal      C. Phalanxes      D. Phalanges
- Chickens are more susceptible to what color of the light spectrum?  
A. Yellow      B. Blue      C. White      **D. Red**
- This tube contains cartilaginous rings and connects the upper and lower larynxes?  
A. Pharynx      B. Syrinx      C. Bronchi      **D. Trachea**
- Which of the following is not a function of a birds air sacs?  
A. Circulation of air through the lung      **B. Gaseous exchange**      C. Reserve supply of air  
D. Lower the specific gravity of flying birds
- The ratio of body length to digestive tract length for a bird is \_\_\_\_\_.  
A. 1:1      **B. 1:4**      C. 1:25      D. 1:100
- Which organ functions to store bile?  
A. Liver      B. Glandular Stomach      C. Cecum      **D. Gall Bladder**
- The thick white is secreted in what part of the oviduct?  
A. Infundibulum      **B. Magnum**      C. Uterus      D. Isthmus
- Which hormone is responsible for the growth and maturation of ovarian follicles?  
**A. Follicle Stimulating Hormone (FSH)**      B. Luteinizing Hormone (LH)  
C. Oxytocin      D. Prolactin
- During incubation, what membrane forms around the embryo and lies next to the shell?  
**A. Chorion**      B. Amnion      C. Allantois      D. Chorioallantoic
- The term for when an embryo is not oriented correctly in the egg is known as what?  
A. Malformation      B. Misplacement      **C. Malposition**      D. Mortality
- What type of sanitizer is especially effective as a water-sanitizing agent?  
A. Creosol      B. Chlorine based      **C. Quaternary ammonium**      D. Iodophores

17. What type of immunity is defined as the passage of antibodies from hen to chick by way of the egg yolk?  
 A. Active Immunity    B. Acquired Immunity    C. Natural Immunity    **D. Passive Immunity**
18. Which of the following is not a viral disease?  
 A. Fowl Pox                    B. Infectious Bronchitis    **C. Aspergillosis**                    D. Marek's
19. Which of the following is a factor influencing chick weight?  
 A. Storage Temperature    B. Chick handling            **C. Egg size**                    D. Storage time
20. Hatching eggs are disinfected using what?  
 A. Chlorine                    B. Detergent                    C. Iodine                    **D. Formaldehyde**
21. What type of feed is preferred by market broiler growers?  
 A. Mashed                    **B. Crumbled/pelleted**    C. Wet                    D. Cubed
22. In 2010, per capita consumption of turkey was how many pounds per person?  
 A. 10                    **B. 17**                    C. 91                    D. 103
23. As of 2010, what was the per capita consumption of egg?  
 A. 215                    B. 402                    C. 235.3                    **D. 246.2**
24. At what day is beak trimming most successful?  
 A. 1-3 days                    B. 3-5 days                    C. 5-7 days                    **D. 7-10 days**
25. At what age are pullets moved into the laying quarters?  
 A. 10-12 weeks                    **B. 16-18 weeks**                    C. 18-20 weeks                    D. 20-22 weeks

Krueger Farms, a very successful poultry company, has a broiler breeder flock of 17,350 hens which produced 101,407 total eggs over the course of a week long period of which 1018 were deemed unsetting due to checks and other defects. The company placed all of the setting eggs in an incubator and a total of 82,800 chicks hatched. Following hatch, a total of 4,139 eggs were found to be infertile. One percent of the total hatch was culled at the hatchery for humane reasons prior to placement and the remainder was placed in broiler houses for a 44 day grow out. On day 44 of age, a total of 79,254 broilers with an average live weight of 5.9 lbs were loaded and transported to the processing plant. It was determined that the flock had a feed conversion during grow out of 1.87. During the growout period, each broiler defecated at a rate equal to its feed consumption. The moisture content of the fecal material was determined to be 82%. Following processing, the average carcass weight of this flock was 5.18 lbs with an average breast meat weight following deboning of 1.96 lbs. During processing, 198 carcasses were condemned and deemed unsellable.

What is the hen production level of this flock on a per day basis?

- A. 79.4%                    **B. 83.5%**                    C. 86.2%                    D. 87.3%

What is the livability rate for this flock of broilers?

- A. 91.7%                    B. 93.3%                    C. 95.7%                    **D. 96.7%**

What is the hatchability of setting fertile eggs set?

- A. 81.65%                    B. 85.12%                    **C. 86.03%**                    D. 91.4%

How much moisture associated with fecal material was input into the broiler house during grow out of this broiler flock?

- A. 111,272.6 lbs                    B. 352,363.3 lbs                    **C. 717,015.7 lbs**                    D. 874,409.4 lbs

What was the average breast yield per carcass?

- A. 33.2%                    **B. 37.8%**                    C. 22.3%                    D. 28.7%

