

FFA Poultry Science Curriculum
Chapter 6 – Hatchery Management
Learning Objectives

Without the use of any resources, at the end of the Hatchery Management section you should be able to complete the following learning objectives:

1. Discuss embryonic development (two phases) as well as structures associated with only hatching eggs
2. Describe embryonic development from throughout incubation.
5. List the major responsibilities of a hatchery.
6. Diagram and explain the proper flow of eggs, birds and people through a hatchery.
8. Describe proper egg holding conditions at the hatchery.
9. Explain the potential consequence of holding eggs at the low end of the recommended range of temperatures.
10. Explain how the placement of eggs in the hatchery is different between the all-in/all-out system and the rack rotation system, and list the advantages and disadvantages of each system.
11. Describe why egg rotation is necessary in the setter, but not in the hatcher.
12. List the length of time chicken and turkey eggs are held in the setter and hatcher.
14. Explain why the amount of supplemental heat provided in a setter changes during incubation.
15. Describe the proper relative humidity conditions in a setter, and indicate the consequences of high or low relative humidity conditions.
16. Describe how egg size may impact the relative humidity needed in a setter.
17. List the desired relative humidity levels in a chicken and turkey hatcher, and explain why the relative humidity needs to be higher in a hatcher than in a setter.
20. Explain why a hatchery is interested in true fertility, and explain how true fertility should be measured.
21. Calculate hatchability and true fertility and use these values for evaluating hatchery performance.