

Avian Bowl 2009
RAISING GAME BIRDS p.81-99

1) Give 2 additional reasons why raising game birds is a good 4-H project?

It establishes game bird population, can be a business venture, is a good hobby, wild birds are also considered a wild life crop. Good way to stock hunting clubs.

2) What does the term put-and take-basis mean, when pertaining to game farms?

Harvesting a high percentage of the stocked game birds

3) True or false: Game birds are not considered a wild life crop?

False. They are considered a crop.

4) When establishing a local game bird population, what is a major consideration you should have?

The habitat is suitable for the species being stocked

5) When considering game bird farming as a business, name 3 considerations should you have?

Supply and demand, total costs, pricing, competition, contract and supply arrangements.

6) What state department is responsible for management of game birds?

Department of Fish and Game

7) States usually require what, for a person to keep game birds?

A Game breeder's license

8) Hatcheries usually have dirt floors to facilitate cleaning. True or false?

False, they are usually a sloped, concrete.

9) What type of material are the walls and ceilings of hatcheries constructed of?

Water-impervious

10) spell impervious

11) Hatcheries are maintained at what temperatures.

60 degrees to 80 degrees Fahrenheit

12) Give the correct Celsius temperature for a hatchery

18.3 to 26.7 C

13) What type of cooling increases the humidity of the incoming air?

Evaporative cooling

14) What is the main function of ventilation during the hatch?
Control the temperature and dilute airborne microorganisms during the hatch.

15) Spell microorganism

16) The incubators automatic temperature control should be set at what range fluctuation?

Plus or minus .25F or .15 C

17) Name 2 features of a commercial Incubator

Automatic temperature controls, automatic turning, humidity control, and forced air movement.

18) Another consideration with incubators is the ease of cleaning the units. What surfaces work best for this?

Metal or fiberglass.

19) Wooden machines can be improved by coating them with a lead-based paint. True or false?

False, use an epoxy resin.

20) Why are lead-based paints not used on wooden surfaces?

The paint is toxic to chicks

21) When considering the mechanical system of an incubator, what should you consider?

Ease of repair and availability of spare parts

22) It is best to use clear water, to cleanse hands before handling eggs. True or false?

False, it is best to use a disinfectant soap

23) What can be done to remove the sweat on the eggs, as they are removed from the holding room?

Reduce the temperature and the humidity of the room where the eggs are trayed

24) True or false. The egg holding room temperature may need to be varied, depending on the length of egg storage? True

25) What is the maximum storage temperature of eggs stored 5 days? 60 F or 15.6 C

- 26) Eggs stored over 10 days are kept at what degree C
12.8
- 27) Eggs are stored how long if the storage room temp reads 18.3 C
2-4 days
- 28) Why are thin shelled and mis-shaped eggs not set?
They hatch poorly and may contaminate other eggs or chicks
- 30) Stored eggs do not hatch as soon as fresh eggs. True or false?
True
- 31) If eggs stored for 2 weeks are preset for 10 hours, when are eggs stored 3 weeks preset?
18 hours
- 32) Spell Fumigation
- 33) To fumigate incubator equipment, it should be washed with a detergent solution first.. True or false?
True
- 34) The incubator should be run how many hours after cleaning before any eggs are set?
24 hours
- 35) At what times would you fumigate clean eggs?
After collection and before traying them
- 36) Hydrogen peroxide is an effective fumigant. True or false?
True
- 37) A wet bulb temperature is an accurate measure of relative humidity in a still-air incubator. True or false?
False
- 38) What is H₂O₂
Hydrogen peroxide
- 39) Spell incubator
- 40) What is the correct dry bulb incubator temperature for partridge eggs in a still air machine?
102-103 F or 38.9-39.4 C
- 41) The incubator temperature will increase or decrease at hatch time?
Decrease

42) The hatching temperature in a still air incubator will decrease how many degrees F at hatch time for Quail eggs?

2 degrees (100-101 F)

43) When setting eggs in incubator, set the small end up. True or false?

False Large end up

44) Eggs should be turned every 6 hours before transferring to Hatcher? True or false?

False, every 2-4 hours, or 3 or more times per day

45) Should eggs be turned while in the Hatcher?

No

46) What records should be kept concerning the eggs, when set?

Date set, egg source, number set, transfer or hatch date

47) When should game birds eggs be candled for the 1st time, after setting?

After 7-10 days of incubation

48) When are the eggs transferred from incubator to Hatcher?

3-4 days before they hatch

49) Eggs should not be candled before placing in the Hatcher. True or false?

False, they should be candled

50) Why is a strong light source advisable when candling eggs?

Shell pigmentation may obstruct light transmission

51) What is meant by egg-examination, with discarded incubator eggs?

They are opened, examined and classified before discarding.

52) When classifying candled eggs from incubator, what type of egg is labeled PD?

Positive development, but not blood

53) The eggs has been labeled FND. What does this mean?

Fertile egg that failed to develop

54) Eggs labeled BWE are Bloody eggs with dead embryos. True or false?

False, they are bloody, without embryo.

55) What does the term pipping mean?

The chick is breaking thru the shell at hatch time

56) For optimum hatching conditions, it is advised to lower dry bulb temperature 1 F and increase wet bulb temperature to 88-92 F. True or false?

True

57) What is the incubation period for Japanese Quail?

17-18 days

58) What is the incubation period for Wild turkey? 28 Days

59) The incubation period for Hungarian Partridge is 22 days. True or false?

False,, it is 24-25 days

60) What is a reasonable goal for fertility on most game farm eggs?

96 percent or 93 percent candled

61) What is a reasonable percent of cracked or unsetting eggs on a game farm?

Less than 3 percent

62) When cleaning equipment, what percent of cleaning is sanitation? 90 percent

63) Name the 2 types of artificial brooding commonly used.

Cool-room brooding and warm room brooding

64) Which system provides a heat source, with an adjacent area held at a lower temperature?

A cool-room system

65) Which system has the advantage of faster feathering of chicks?

A cool-room system

66) Spell Sanitation

67) List 3 heat sources successfully used for brooding.

Heat lamps, hot water or steam pipes, natural gas stoves, LP gas, fuel oil, coal, wood or electricity.

68) The hover-type brooders are not recommended. True or false?

False, they are recommended

69) The temperature of the hover area is measured at what height?

Bird height, near the edge of brooding stove

70) The best guide to temperature adjustment is to watch chick behavior. True or false? True

71) With warm room brooding, at what temperature are chicks started?

90 F

72) Why is it important to properly light brooding pens?

Q So chicks learn to eat and drink

73) After first week of brooding, light can be how many hours per day can the light be reduced?

12 hours or natural daylight

74) What is a sign of inadequate ventilation in brooder house?

Smell of ammonia or wet litter

75) For floor brooding, how many inches of clean litter is recommended?

3-4 inches

76) List 3 sources used for litter material.

Shavings, peanut or rice hulls, sugar cane fiber, ground corn cobs, chopped straw

77) Name 1 material that is less desirable, although sometimes used as litter. (Not from Question 76 answers)

Sawdust or sand

78) How many inches of eating space is desired, per 100 chicks

At least 20 inches

79) Two One gallon waters will be adequate for how many chicks?

100 chicks

80) What precautions should be taken for Quail chicks and their waterers?

Water troughs should be covered with hardware cloth or pebbles placed in trough so chicks can escape if they fall in the water

81) Spell Ventilation

82) With cool room brooding-what temp is the hover area set at during the first week?

95 F or 35 C

