Section 6 Liquid and Solid Manure Application

1. List four benefits of manure application to land.

2. What should be tested before applying manure to cropland?

3. How many pounds of phosphorous would be applied per acre if liquid dairy manure is spread at 12,000 gallons per acre?

4. How many extra pounds of nitrogen are gained by incorporating liquid dairy manure compared to unincorporated manure?

5. What four factors need to be considered to determine the manure application rate?

6. What is the environmental risk of applying manure to cropland in the fall when crops are not growing?

7. Why should manure be incorporated into the soil within three days?

8. Based on Wisconsin’s phosphorous management strategy, how many pounds of phosphorous can be applied if the soil test phosphorous results are 54ppm

9. If fields are frozen or snow covered, how far away from a lake or pond should you apply manure?

10. If fields are contoured, how steep of slope can manure be spread on frozen or snow covered soil?

Section 6 Liquid and Solid Manure Application Review Answers

1. List four benefits of manure application to land.

a. Adds essential nutrients

b. Acts as mulch

c. Adds organic matter

d. Improves soil structure

e. Improves tilth

f. Increases cation exchange capacity

g. Improves infiltration of water

h. Reduces runoff

2. What should be tested before applying manure to cropland?

a. Soil and manure

3. How many pounds of phosphorous would be applied per acre if liquid dairy manure is spread at 12,000 gallons per acre?

a. 60

4. How many extra pounds of nitrogen per 1000 gallons are gained by incorporating liquid dairy manure compared to unincorporated manure?

a. 3

5. What four factors need to be considered to determine the manure application rate?

a. Soil test results, soil type, nutrient needs of the crop, and manure nutrient content

6. What is the environmental risk of applying manure to cropland in the fall when crops are not growing?

a. nitrate poses a greater leaching risk to groundwater

7. Why should manure be incorporated into the soil within three days?

a. to reduce volatilization and runoff losses

8. Based on Wisconsin’s phosphorous management strategy, how many pounds of phosphorous can be applied if the soil test phosphorous results are 54ppm

a. Only as much as the crops will remove over the rotation

9. If fields are frozen or snow covered, how far away from a lake or pond should you apply manure?

a. 1000 feet

10. If fields are contoured, how steep of slope can manure be spread on frozen or snow covered soil?

a. 12%