Office of Resource Conservation Nutrient Management Program

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## Mineralization of Organic Nutrient Sources (Course #2044\_1 CEU)

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- 1) Which of the following is true in nutrient management plan development?
  - a) One can ignore the nutrient content of a nutrient source if the nutrient content is negligible.
  - b) One must integrate the nutrient content of all nutrient sources, including soil amendments.
- 2) To calculate the plant available nitrogen (PAN) of organic nutrient sources, one must know which of the following:
  - a) organic nitrogen content
  - b) ammonium nitrogen content
  - c) mineralization factor
  - d) ammonium conservation factor
  - e) all of the above
- 3) When organic nutrient sources mineralize, the first inorganic nitrogen form released is:
  - a) nitrate
  - b) nitrite
  - c) ammonium
- 4) Fresh poultry litter mineralizes:
  - a) gradually throughout the growing season
  - b) completely very quickly
  - c) rapidly at first with further gradual release for the rest of the season
- 5) Organic nitrogen mineralizes:
  - a) to a greater extent in coarser textured soils
  - b) to a greater extent in fine-textured soils
  - c) to the same extent regardless of texture

- 6) The organic nitrogen in composted poultry liter as compared to fresh poultry litter mineralizes:
  - a) to a lesser extent
  - b) to a greater extent
  - c) to the same extent

## True (T) or False (F)

7) Depending upon the organic nutrient source, the mineralization rate of the organic
nitrogen components ranges from zero to 100%.
8) Within a specific organic nutrient source, mineralization rates are very similar.
9) Mineralization rates are more rapid in drier soils than moister soils.

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