



Maryland Department of Agriculture

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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 litter 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 range 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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