



Distribution and persistence of pyrethroids in runoff sediments

April Self-Study Examination

1. **Pyrethroids are a class of compounds most commonly used as**
- a. fungicides.
 - b. insecticides.
 - c. herbicides.
 - d. fumigants.
2. **Results of this study will be useful for**
- a. understanding the behavior of strongly adsorbed pesticides in surface runoff.
 - b. determining the toxicity of lipid-soluble pesticides.
 - c. estimating off-site spray drift patterns related to temperature inversions.
 - d. determining how mode of activity affects pest dispersal.
3. **Pyrethroids moving off site pose the greatest threat to the environment by their effect on**
- a. subterranean insects.
 - b. freshwater plants.
 - c. aquatic organisms.
 - d. nightcrawlers and redworms.
4. **The source of the pesticides in this study was a**
- a. large commercial nursery.
 - b. farrow-to-finish hog operation.
 - c. vineyard.
 - d. commercial crop field.
5. **The half-life of BF in sediment was**
- a. over one year.
 - b. a few weeks.
 - c. a few months.
 - d. Many years.
6. **A finding of this study was that pesticide concentrations in sediment increased as the**
- a. volume of runoff water increased.
 - b. volume of runoff water decreased.
 - c. distance from the source increased.
 - d. distance from the source decreased.
7. **After stormwater carries pyrethroids into a creek, most of the chemicals can be found in the**
- a. water column.
 - b. aquatic plants.
 - c. algae.
 - d. bed sediment.
8. **The enrichment of pyrethroids coincided with the enrichment of soil**
- a. sand fractions.
 - b. microflora.
 - c. limiting layers.
 - d. organic carbon and clay.
9. **Mitigation strategies for pyrethroid pesticides should be concentrated on**
- a. decreasing the off-site movement of sediment and organic matter.
 - b. decreasing the overall rates used.
 - c. using pyrethroids only for foliar applications.
 - d. limiting pyrethroid applications to periods when temperatures exceed 35 C.
10. **The relative enrichment ratio for BF at the 145m furthest sampling location as compared to the retention pond was approximately**
- a. 10.
 - b. 25.
 - c. 100.
 - d. 250.

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3. Complete the self-study exam registration form on the back of this page.
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