

Effect of Pesticides on Soil Health

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The proportion of pesticides applied reaching the target pest is less than 1.0 per cent so 99.0 per cent go 'somewhere else' in the environment (Carrieger et al., 2006 and Pimentel, 1995). Pesticides controlled insect pests of the crops as well left residues in soil and thereby greatly reduced microbial populations there by disturbing soil health.

Exposure of Pesticides to Soil

Pesticides enter the soil via direct application to control soil pests, spray drift during foliage treatment, wash-off from treated foliage, release from granules or from treated seeds in soil.

Pesticides penetrate into soil because of:

- a. Application of pesticides to soil for control of soil infesting pests like termites etc.
- b. Application of systemic insecticides in soil or seed treatment for protection against soil pests and sucking pests.
- c. Pesticide also affects through surface run off to the untreated soil and wind-blown dust particles.
- d. Falling of some insecticides on ground by run off are spraying on the crops.

Factors affecting fate of pesticides in soil:

- a. Pesticide properties.
- b. Soil properties.
- c. Site conditions.
- d. Application methods.
- e. Management practices.

Pesticide Properties

Pesticide properties which affect movement of pesticides in soil include structural stability, volatilization, solubility, adsorption and degradation.

1. Structural stability: Pesticides range in stability from instable to extremely stable. A readily metabolisable pesticide breaks down rapidly in plants and soil and forms stable chemical that persist for longer periods even in unsuitable environmental conditions. Eg: Heptachlor epoxide and dieldrin are stable than parent compounds heptachlor and aldrin.

2. Volatilization: Pesticides range in volatility from extremely low to high vapour pressure necessary for fumigant action. Highly volatile and water insoluble pesticides are lost in atmosphere.

3. Solubility: Highly soluble pesticides are known to readily dissolve in water and have a tendency to be leached from the soil to ground water.

4. Adsorption: Adsorption depends on pesticide, soil type and soil organic matter present. Eg: The sorption of neonicotinoids on the soils was generally low following the order thiacloprid > Imidacloprid = Clothianidin and is influenced mainly by the soil organic carbon content. The percentage degradation rates of the pesticides in different soils ranged from 25.4% to 80.9%, all following the order thiacloprid > Imidacloprid = Clothianidin (Zhang et al., 2018).

5. Degradation: Pesticides are degraded or broken down into other chemical forms by sunlight, micro organisms in the soil.

Residue Reviews Effect And Persistence Of Selected Carbamate Pesticides In Soil

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