

PESTICIDES APPLIATIONS AND THEIR PERSISTANCE IN VEGETABLES

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Abstract: Although pesticide application is an essential component of modern crop production technology, however, in recent years, contamination of food commodities especially the vegetables, with trace amounts of these chemicals has become a growing issue for the general population. Unfortunately the debate has restricted to the quality standards and norms pertaining to drinking water and foods at the point of consumption. But more fundamental source of contamination of natural resources including food products with chemical pesticide residues at the farming level is of serious concern, because of their persistence or presence and often ignored. Without solving this problem at basic level, setting down the quality standards at the consumption level is not going to solve the problem, especially in developing countries like India where enforcement of rules and regulations is very weak or absent. Although some pesticides application have banned but still their residues are being reported in food products and natural resources like soil and water due to its high persistence and low biodegradability. Therefore, it is essential to create awareness amongst consumers and producers about health risks and production practices like non-pesticidal management activities should be encouraged for healthy and safe environment.

Keyword: Pesticides application, Vegetable crops, Drinking water, Health hazards

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