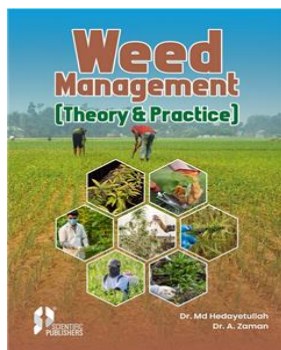


## Weed Management Theory & Practices

[Md. Hedayetullah](#) & [A.Zaman](#)



|           |                                       |             |              |
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### Blurb

Weed Management (Theory & Practice) is a comprehensive book that provides a detailed understanding of weeds and their management in agricultural and horticultural systems. Designed for students, researchers, extension workers, and practitioners, it integrates fundamental concepts with modern and sustainable weed control approaches. The theoretical section explains weed characteristics, classification, reproduction, dissemination, crop–weed competition, weed seed banks, and weed shifts. It also covers major weed management strategies including physical, cultural, chemical, and biological methods, with emphasis on Integrated Weed Management (IWM). Modern advancements such as robotic weed control, precision weed management, nano-herbicides, and weed management in organic and natural farming are also discussed. Detailed information on herbicide classification, formulation, adjuvants, mode of action, selectivity, mixtures, compatibility with agrochemicals, and herbicide resistance management is included. The practical section focuses on weed identification, preservation, herbicide formulations, application techniques, equipment calibration, dose calculation, weed control efficiency, and management of problematic and parasitic weeds, along with preparation of a weed herbarium.

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