

Disease Management of Vegetables Grown under Protected Cultivation

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Abstract

In recent time, high value and off-seasonal vegetable crops are grown under protected condition. But, plant pathogens get suitable climate for growth, and also conducive environment. There is chance for disease incidence in protected cultivation of vegetables. Bacteria, fungus, and virus are main causal organisms observed in greenhouse cultivation. To manage diseases different cultural practices are adopted in greenhouse conditions. At last, plant disease management assessment will be presented in protected agriculture condition.

Keywords: Fungus, bacteria, virus, disease incidence, prospective assessment, IDM

1. Introduction

Protected cultivation is one of answers to most of the burning issues faced by Indian agriculture includes adversities due to uncertain and varying climatic conditions, climate change, improper uses of inputs and low productivity. Under this situation, protected cultivation can assure production of quality crops, assist to enrich diversity of produces and nutritional security with profitability. Presently, progressive farmers are adopting commercial protected cultivation of high value vegetables and flowers (Maitra *et al.* 2020). Generally, plant diseases incidence depends on environment. The disease incidence first occurs with the initial contact of pathogen and plant. But the pathogen require suitable environment for its incidence event after contact with the causal organism. Agricultural chemicals applications are the generally the common adapted management technique (Jarivs 1989). But, the efficiency of chemicals will be decreased by improper management of cultivation. It occasionally induce tolerant