

Protected Cultivation of Fruit Crops

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Abstract—*Protected cultivation can be defined as a cropping technique where the micro climate surrounding the plant body is controlled partially/ fully as per the requirement of the plant species grown during their period of growth .Greenhouse technology is the most practical way of achieving the goal of protected cultivation. Crops could be grown under inclement climatic conditions when it is not possible to grow in open field. Efficient utilization of precious inputs like water and nutrients. Early nursery and early cropping. Higher productivity – enhanced crop duration Superior quality of the produce. Effective control against diseases, insect pests. Reduced expenditure on weed control. Hardening and acclimatization of tissue cultured plants. Protection against heavy rains, hails, birds etc. Principles of protected crop production. This phenomenon results in the trapping of solar heat, thereby raising the greenhouse temperature. The transparent cover acts as a radiation filter. Lack of air exchange between the greenhouse and the ambient further enhances the heat retention capacity of a greenhouse. This natural rise in greenhouse temperature coupled with available sun light helps successful production of crops during winters. Irrigation methods under protected cultivation. Hand watering, Over head Sprinklers, Drip Irrigation, Mist System, Drip irrigation Advanced irrigation method. Required quantity of water can be supplied at the root zone of soil First work initiated in Israel-1940 .Suitable for greenhouse cultivation.*

Keywords: *Principles of protected cultivation, irrigation methods, drip irrigation, etc.*