

Starting the Cultivation of Outdoor Plants in Indoor Environments

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Abstract

More and more plants having problems growing outside. These problems have to do with changing in growing due to temperature, water, diseases etc. Because of these changes some crops give also problems with the water use efficiency, pollution with nutrients and chemical plant protection. In the same time the demands for healthy and sustainable food production increases. Protected cultivation could be one of the solutions to help to solve these problems. The presentation will be about the possibilities of protected growing, about creating growth protocols for protected growing, for crops that normally grown outside and there are some crops discussed, like vanilla, black pepper, passion fruit, coffee and cotton. Very important in creating growth protocols for news crops is the approach and most important point from that approach is that outside cultivation data should be transferred in a protocol for protected growing. The topics of a cultivation protocol are about origin, because the origin tells a lot about what to do with (sun)light, climate. Also information about production and quality, cultivation system, water and nutrition, substrates, pollination are needed to create research to decide if a crop could be grown successfully and profitable protected.

Keywords

Protected Cultivation, Greenhouse, Crops, Cultivation Protocol, Sustainability