

PO和PVC薄膜温室的光温环境及其与薄膜流滴性的关系

Light and Temperature Environment in PO and PVC Greenhouses and Its Relationship With Condensation on the Films

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作者	单位
陈青云	中国农业大学
原园芳信	日本农业环境技术研究所
吉本真由美	日本农业环境技术研究所

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中文摘要:

本研究通过对PO薄膜和PVC薄膜温室光温环境的连续测量,分析比较了两种温室光温环境,同时测量了薄膜内表面凝结水量的差异,推导出了计算温室内外气温差的简便计算式,在该计算式中包含了薄膜内表面凝结水量对透光率的影响

英文摘要:

The radiation and temperature environment of PO and PVC greenhouses were examined in this research. The main results are as follows: The highest transmittance of total solar radiation in PO greenhouse is 76.7 % and its aged deterioration is very little. The transmittance of PVC greenhouse dropped to 71.6 % from 88.9 % . Condensation on the film in PO greenhouse is very little with 40 g/m². It is up to 140 g/m² in the PVC greenhouse. And the performance of anti drop of PVC film decreased rapidly with ages. It was observed that the solar radiation transmittance of greenhouses declined 11% by 10 0g/m² of condensation on film. According to the principle of heat budget, a new function was induced to evaluate the influence of condensation at the film on air temperature difference(in side-outside).

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