

密闭空间药雾质量浓度分布试验 Research on Visualization of Pesticide Mass Concentration in Airtight Awning Space

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关键词: 密闭空间 药雾质量浓度 三次样条插值 可视化

摘要: 运用改进后的大气采样器对棚室内距地面1.5m高水平面上不同位置采样, 将采样后得到的药雾质量浓度采用三次样条函数插值法建立药雾质量浓度分布曲面。对分布曲面分析表明: 沿棚室长度方向上, 喷头前方10~12m区间中药雾质量浓度最大, 烟雾机作业的有效区域为喷头后方10m、前方32m, 共42m; 宽度方向上, 药雾质量浓度中间低, 两侧高。In order to solve the problem of mass concentration of pesticide fog after application in airtight space, an improved container collecting the air samples was used at different locations in the level of 1.5m from ground, and curved surface of mass concentration of pesticide fog was established based on cubic spline interpolation. It was showed that the pesticide mass concentration attains maximum at 10~12m in the front of the nozzle, and the effective regional of cold aerosol sprayer is 42m, from 10m in the back of the nozzle to 32m in the front of the nozzle, in length; and the pesticide mass concentration was lower in the middle of airtight space than the sides of it, in width.

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