

## 棉田叶色草蛉幼虫的分布型及其田间抽样技术

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**摘要:** 在棉田中调查叶色草蛉幼虫,发现幼虫在棉田的分布型不是随机分布或均匀分布,属负二项分布(不施药棉田中  $k=0.0566$ ,施药棉田中  $k=0.0539$ ),且种群随其密度的升高分布愈聚集。影响其聚集分布的因素主要是棉株的生长状况,同时其种群扩散属聚集型扩散。并确定了田间取样时(据均值  $M$ )的最适抽样数公式: $Q=40.02/M+191.47$ (不施药棉田)和  $Q=38.49/M+320.24$ (施药棉田),建立了估计棉田叶色草蛉种群密度的零频率模型( $P_0$  为零样本的频率): $X=0.1585[-\ln P_0]^{10.2548}$ (不施药棉田)和  $X=0.1347[-\ln P_0]^{11.8079}$ (施药棉田)。

**关键词:** 叶色草蛉;空间分布;抽样技术

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