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Comparison of pest detection in two persimmon cultivation methods

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Abstract:

To elucidate the requirements for fruit planting systems with efficient pest detection, we compared the efficiency of two persimmon cultivation methods, a table-shaped method and a typical standing-tree method, using round labels as detection targets. The results showed that a low tree height and branch movements are required for efficient pest detection. Experiments, in which workers wore goggles to simulate an elderly person's narrower field of view, showed that the table-shaped method was more efficient for detection because branches were within a frame and were easy to scan. This cultivation method proved to be useful under the circumstances tested in this study, *i.e.*, advanced age of growers in Japan.

Keywords:

pest detection, persimmon, table-shaped cultivation

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