

カキ園におけるミカンキイロアザミウマの多発要因

森下 正彦

和歌山県農林水産総合技術センター 果樹試験場かき・もも研究所

Factors Affecting the Occurrence of Western Flower Thrips, *Frankliniella occidentalis* (Pergande) (Thysanoptera: Thripidae) in Persimmon Orchards.

Masahiko MORISHITA (Laboratory of Persimmon and Peach, Fruit Tree Experiment Station, Wakayama Research Center of Agriculture, Forestry and Fisheries, Kokawa 3336, Kinokawa, Wakayama 649-6531, Japan)

摘 要

カキとカンキツ栽培地域でミカンキイロアザミウマの発生密度を調査した。ミカンキイロアザミウマの個体群密度は、増殖源である果樹園内の越年雑草と1年生雑草が繁茂する6月と7月～9月上旬にその繁茂量に依存して増減し、密度の高い園では被害果率も高かった。カキ専作地域よりカキとともにカンキツが混在した地域で密度が高かった。これは両作目で除草時期が異なるために、除草などで寄主が除去されると繁茂量の多い園地へ移動しながら個体群を維持できるためと考えられる。エノコログサの穂における本種成虫密度は、休耕地や路傍に比べて薬剤散布が行われるカキ園で高かった。これは、カキ園では樹体へ散布された殺虫剤が園内の雑草にも飛散することで、ハナカメムシなど天敵の発生が抑制されるために本種の増殖が助長されたと考えられた。

Summary

Wakayama Prefecture is one of the main production areas of persimmon in Japan. However, western flower thrips, *Frankliniella occidentalis* (Pergande) has been causing serious damage to persimmon fruit, especially variety 'Tonewase', when the fruit color turned yellow in early September since 1997. *F. occidentalis* overwintered on the perennial weed such as chickweed, *Stellaria neglecta*, and had two peaks of population density on undergrowth of persimmon orchards: one in June when perennial weeds were growing and the other in July-August when summer weeds were growing. Thus *F. occidentalis* maintained its population through various undergrowth. Since the weeding time was different between persimmon and mandarin orange orchards, the adult *F. occidentalis* dispersed from an orchard where they existed at a higher density to the adjacent orchards. Therefore, the population density of *F. occidentalis* was higher in a persimmon-mandarin orange cultivation area than in a persimmon mono-cultivation area. The thrips density on undergrowth of foxtail ears, *Setaria viridis*, was higher in the persimmon orchard than in the grassland nearby. This is provably because pesticides applied to persimmon trees suppressed the occurrence of natural enemies such as the minute bug, *Orius sauteri*, on weeds by drafting, causing a resurgence of *F. occidentalis* in persimmon orchards.