Evidence of Competitive Displacement of *Toxorhynchites Brevipalpis* Theobald By *T. Amboinensis* Doleshall in Hawaii

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During the course of a study of *Toxorhynchites amboinensis* (Doleshall) from its type locality, Ambon Island, Indonesia, and comparisons with populations introduced into Hawaii from the Philippines (Steffan 1968), *T. amboinensis* only was found on Oahu although another species, *T. brevipalpis* Theobald from South Africa, was also considered to be established on Oahu (Hu 1955; Nakagawa 1963).

*Toxorhynchites brevipalpis* Theobald was introduced into Hawaii in August, 1950 (Bonnet and Hu 1951) and has subsequently been released on all the major Hawaiian islands.

I have made intensive collections from numerous localities on Oahu and so far have found only *T. amboinensis*. In Hawaii, both species apparently breed in the same niches (Nakagawa 1963) and if *T. brevipalpis* is no longer found here, competitive displacement of *brevipalpis* by *amboinensis* could be considered as a cause for the disappearance of *brevipalpis*. However, a more thorough study needs to be done of the *Toxorhynchites* in Hawaii, correlated with laboratory studies, before the cause of the disappearance of *T. brevipalpis* can be determined.

**Literature Cited**


