

LIBRO DE RESÚMENES *BOOK OF ABSTRACTS*

**Reunión del grupo de trabajo
Moscas de la Fruta
del hemisferio occidental**
*Meeting of Tephritid Workers
of the Western Hemisphere*



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Occurrence of *Anastrepha fraterculus* (Diptera: Tephritidae) on raspberry (*Rubus idaeus*) and blackberry (*Rubus fruticosus*) fruit cultivated in a semiarid-temperate highland valley of Tucumán, Argentina.

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Ceratitis capitata (CC) and *Anastrepha fraterculus* (AF) are serious polyphagous insects considered pests of several plant families. Both species are widely distributed in Argentina, including the province of Tucumán, where their occurrence was reported in high-elevation valleys, affecting several cultivated and wild fruit species. Provided that raspberry (*Rubus idaeus*) and blackberry (*Rubus fruticosus*) are minor (but in expansion) crops in Tucumán, and the spectrum of pests affecting these plants is not very well known, the aim of this study was to determine the occurrence of AF and CC on these crops. During 2016 between Feb and Mar, ripe fruit from plants of the blackberry cultivar ‘878’ and the raspberry cultivar ‘Heritage’ were collected from an organic orchard in Tafí del Valle (26°52’S, 65°41’W, 2014 m altitude). Tephritid adults and pupae were identified and counted. The reported fruit infestation level was based on the number of adults per fruit number and fruit weight obtained from each sample. Means and standard deviations (SD) were calculated. The total weight and number of analyzed fruit were 599.2 g and 214 fruits (raspberry); and 728.5 g and 102 fruits (blackberry). Curiously, CC was not recovered from any samples despite being considered the dominant species in this region. Pupae and adults of AF were observed in fruit of both *Rubus* species. In raspberry: Feb-5 (33 adults; 6 pupae), Feb-19 (28 adults; 11 pupae), Feb-24 (30 adults; 3 pupae), Mar-10 (23 adults; 1 pupae), Mar-23 (26 adults; 0 pupae); in blackberry: Feb-5 (9 adults; 1 pupae), Feb-19 (16 adults; 3 pupae), Feb-24 (4 adults; 0 pupae). This is the first report of the occurrence of the South American fruit fly on blackberry and raspberry in Tucumán (Argentina).

Keywords: Fruit flies, Tephritidae, Argentina, raspberry, blackberry.