

# 茶葉蟎天敵小黑隱翅蟲捕食觀察

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## 摘要

小黑隱翅蟲是茶葉蟎重要天敵之一。

各蟲期平均卵期5天，幼蟲期8天，蛹期10天，成蟲壽命30天。被捕食茶葉蟎各期比率卵，幼若蟎、成蟎為7：2：1。幼蟲期間平均每蟲口一天捕食葉蟎15隻，幼蟲期可捕食葉蟎100隻以上。成蟲壽命雌性比雄性長1.5倍，交配次數1-5次，平均交配後2天產卵，每天產卵2粒。產卵期間18天，產卵次數7.5次。產卵一粒平均捕食葉蟎20隻，產卵期間捕食量增加2.3倍。成蟲20天日齡內產卵最多，捕食量最高。一隻雌蟲一生估計捕食葉蟎800隻。

**關鍵字：**茶葉蟎、天敵、小黑隱翅蟲、捕食量

## Observation of Cataching Ability and Temperament of *Oligota* sp. on *Oligonychus coffeae* Neitner

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### Summary

*Oligota* sp. is an important natural enemy of the tea mites, *Oligonychus coffeae* Neitner. Based on an indoor rearing using 1.8 cm × 9 cm test tubes, the general seasonal development patterns were incubation period for eggs, 5 days, larva stage, 8 days and pupation, 10 days. The consumption ratio on egg, larva and adult of the *O. coffeae* was 7:2:1. Mean number of daily tea mites consumed was 15 per larva. Over 100 of tea mites were consumed during the larval developing stage. The life span of the female adult was 1.5 times longer than that of the male. Times of mating ranged from 1 to 5. Eggs were deposited 2 days after mating. The female deposited 2 eggs every day on average; whereas the duration of depositing eggs is 18 days, with times of egg depositing, 7.5. The female predator mite required consumption of 20 *O. coffeae* to deposit an egg and the consumption increased to 2.3 × during the period of depositing eggs. Most eggs were deposited when the adult was in 20 days range of rearing. About 800 of *O. coffeae* were consumed for the whole life of the female.

**Key words:** *Oligonychus coffeae* Neitner, natural enemy, *Oligota* sp., consumption