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Thailand mass rearing and quality control of *Bactrocera dorsalis* (Hendel) and *Bactrocera correcta* (Bezzi)

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Fruit fly mass rearing facility of Thailand is located in Thanyaburi district, Pathumthani province, 34 km from Bangkok. The original target was mass rearing the sterile Oriental fruit fly, *Bactrocera dorsalis* (Hendel) (Diptera: Tephritidae). More responsibility has occurred since 2003 after *Bactrocera correcta* (Bezzi) (Diptera: Tephritidae) was reported as one of the serious insect pests in commercial fruit crop in fruit fly control area in 2002.

Ten years mass rearing data from 2000-2009 demonstrated that the highest total weight of diet preparation for both species was 323.38 tons in 2008 while the lowest amount was 60.08 tons in 2006. The maximum number of irradiated pupae released for both species was 1311.33 millions in 2007 and the minimum was 312.81 millions in 2009. Quality of eggs, pupae and adults were assessed continuously. Average quality of *B. dorsalis* and *B. correcta* respectively were egg hatch: $80.01 \pm 5.60\%$ and $83.78 \pm 2.21\%$; pupal weight: 11.07 ± 0.51 mg and 11.02 ± 0.21 mg; pupae number per 10 cc: 463.88 ± 17.70 and 477.17 ± 7.79 ; pupae recovery: $37.41 \pm 8.19\%$ and $21.70 \pm 3.08\%$. Average adult eclosion and fliers percentage before and after irradiation process of *B. dorsalis* in respective were $90.66 \pm 5.01\%$, $83.95 \pm 7.88\%$, $88.85 \pm 5.58\%$ and $76.95 \pm 7.24\%$ meanwhile for *B. correcta* were $90.09 \pm 3.76\%$, $85.67 \pm 4.52\%$, $87.88 \pm 3.84\%$ and $81.06 \pm 4.47\%$, respectively.