

## 2-11. Pollination Effect on the Yield of *Sesamum indicum* by Male and Worker of *Bombus terrestris*

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An experiment was conducted during summer on sesame (*Sesamum indicum*) to study the effect of pollination by male and worker of bumble bee (*Bombus terrestris*). The highest number of capsules was produced by worker-pollinated sesame plants, which were significantly higher than male and air pollinated flowers. The results suggested that 28.2 and 19.1% reduction in the number of capsules in air and male pollinated plants respectively, compared to those plants pollinated by workers. Whereas, 22.6 and 20.7% increase in the number and weight of seed were observed, respectively in worker pollinated plants. There were 16.3% immature seeds in air-pollinated flowers, which were significantly higher than the worker pollinated plants, containing 4.8% immature seeds/capsule. The number of seed/g was 4.6 and 2.2% higher in worker and male pollinated sesame. The investigation suggested that bumble bee male can be used for pollination and worker is economically beneficial pollinator for sesame.