

POLYFLY PERFORMANCE

WATERMELON

R & D



Watermelon



Mini Watermelon

PROVEN EFFICACY IN CUCURBITS

QUEENFLY® and **GOLDFLY®** are the natural pollination solution to maximize yield and quality in greenhouse watermelon production.

TECHNICAL ADVANTAGES AND ADAPTABILITY

- **Resilience under plastic:** They perform excellently under confined conditions, high temperatures, and variable humidity, where bees often experience stress.
- **No floral discrimination:** Hoverflies visit both male and female flowers indiscriminately, as well as diploid and triploid varieties, ensuring the transfer of viable pollen required for fruit set.
- **Consistent activity:** They can reach more than 10 hours of daily activity, with effective foraging even on cloudy days or under variable light conditions.

FLYING NATURAL POLLINATION



HOVERFLY POLLINATION

SUSTAINABILITY AND PRODUCTIVITY

- An innovative pollination solution for farmers and seed companies seeking to optimise production in a natural way.

THERMAL RESILIENCE AND ADAPTABILITY

- They operate across a wider temperature range than other pollinators, even under cloudy conditions.

EASE OF HANDLING

- Despite their resemblance to bees or wasps, they do not sting, are not aggressive, and are free from pathogens. They are safe and harmless.

CATEGORY I FRUIT HARVEST

- **Higher average weight:** Significant increase in the average weight of commercial fruit (2.96 kg vs 2.41 kg).
- **Higher category:** The percentage of category extra fruits was higher with hoverflies than with bees in both triploid and diploid varieties.
- **Guaranteed sweetness:** Brix levels equivalent to bee pollination (11.26° vs 11.09°), ensuring organoleptic quality.
- **Number of commercial fruits:** Results showed 2.5 fruits/m² with hoverflies compared to 2.4 fruits/m² with bees.

Brix levels by watermelon type

	Hoverfly	Honey Bee
Diploid	11,16	11,43
Triploid	11,26	11,09

COMMERCIAL YIELD

+26%



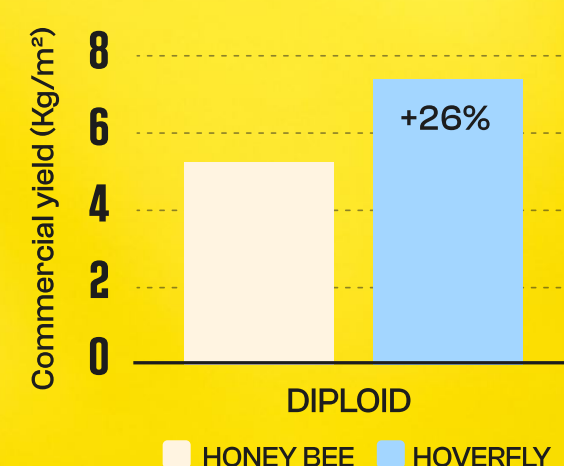
GOLDFLY
Eristalis aeneus



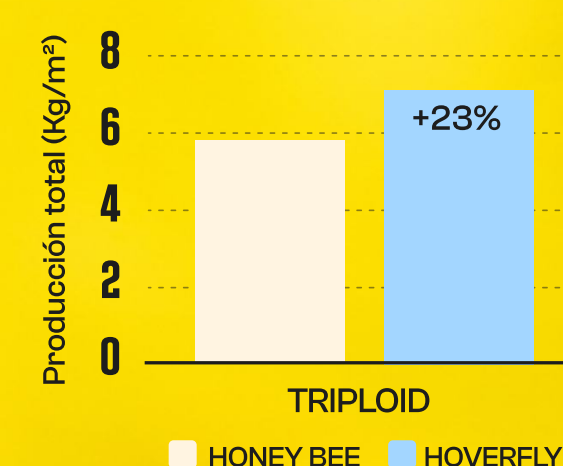
QUEENFLY
Eristalis tenax

PROVEN RESULTS

Trials were conducted between 2019 and 2025 across three watermelon production cycles using combinations of triploid and diploid varieties in different locations in Almería (Spain).



- Commercial yield reached 7.17 kg/m² with hoverflies compared to 5.71 kg/m² with honey bees.



- Total production with hoverflies was 7.20 kg/m² compared to 5.84 kg/m². Average increase of +1.5 kg per m².



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