POLYFLY PERFORMANCE

CARROT | APIACEAE

R&D

1 imida

Instituto Murciano de Investigación y Desarrollo Agrario y Medioambiental

Carrot | 2024/25

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PROVEN EFFICACY IN APIACEAE

Eristaline hoverflies **QUEENFLY®** and **GOLDFLY®** are effective pollinators for hybrid seed multiplication in Apiaceae seeds.

TECHNICAL ADVANTAGES

- **No floral discrimination:** They visit both male (sterile) and female (fertile) flowers indiscriminately. This ensures a constant flow of pollen, guarantee hybrid seed production.
- **Maximum pollen adhesion:** They carry more pollen grains on their bodies than blowflies (higher pollen load) and perform more consistent and prolonged floral visits. This results in a significantly higher percentage of pollen adhesion to the stigmas in flowers.
- **Summer thermal resilience: GOLDFLY®** maintains its foraging efficiency on hot days, overcoming the limitations and stress experienced by other pollinators in protected seed crops during the spring–summer flowering.

HOVERFLIES 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.

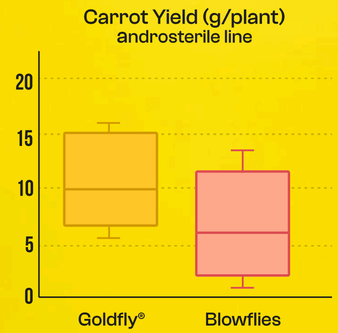
INCREASE IN SEED YIELD

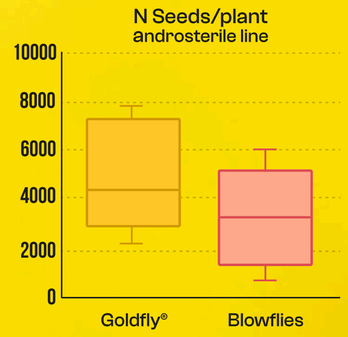
Pollination with **GOLDFLY®** reached **10.59 g/plant** in the androsterile lines, representing a **+64% increase in g/plant** and a **+55% increase in the number of seeds per plant** compared to results obtained with blowflies.

+64% **+55%**

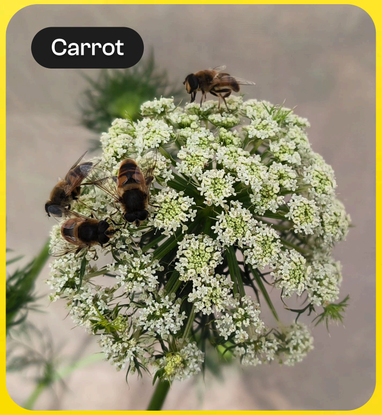
The number of seeds obtained per pollinator was higher with **GOLDFLY®** (+242%) and **QUEENFLY®** (+191%) compared to blowflies.

In the fertile lines, **QUEENFLY®** achieved a **37%** higher production per plant, while **GOLDFLY®** obtained an **11%** higher production than blowflies.





HIGHER QUALITY AND WEIGHT



Superior quality and vigor: The use of hoverflies not only increases the quantity of seeds but also produces premium-grade hybrid seeds.

Higher TSW weight: Seeds pollinated by hoverflies were consistently heavier, reaching 23–25% higher weight compared to seeds obtained using blowflies.

Maximum germination: Seeds obtained with **GOLDFLY®** achieved the highest germination rate in the trial (89.4%), representing a +4.5% increase compared to blowflies.