

# Area-wide monitoring of key insect pests across the Imperial Valley: 22 January 2026 updates

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This article is intended to provide growers, PCAs, and other stakeholders with information on the adult pest activity of whiteflies, aphid complex, western flower thrips, and flea beetles across the Imperial Valley. The data were collected using a yellow sticky trap network maintained by the UCCE Entomology program. The yellow sticky traps set up in each site consist of a 6 × 12 in (15.2 × 30.5 cm) sticky trap (Olson Products, Medina, OH), shaped into a cylinder, attached to a wooden stake using a binder clip, and positioned about 60 cm above the ground (Fig. 1A and 1B). The traps are distributed throughout the Imperial Valley in major agricultural areas (Fig. 1C). Insects that are attracted to the yellow colors get trapped on the sticky surfaces when they land on the surface during their flight. The traps are replaced weekly. The type and abundance of trapped insect pests are examined in the laboratory using a stereo microscope.

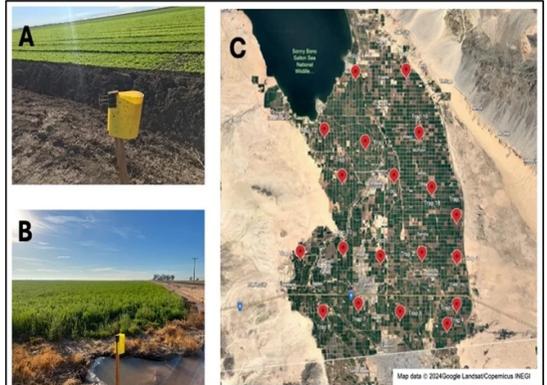


Figure 1 A & B. Yellow sticky traps in various fields, and C) Trap locations across the Imperial Valley

Insect count data from the sticky traps could help forecast the adult insect activity of targeted pests around crop fields. However, since several biological (crop type, crop age, presence of weed hosts, etc.), physical factors (temperature, wind, precipitation, etc.), and farm operations (insecticide sprays, dust from the land preparation, crop harvest, etc.) can influence insect populations development in the field and trap capture efficiency, the insect numbers in sticky traps do not always strongly correlate to the actual infestation levels in the grower's fields. Despite this, the insect pest counts from the sticky traps are a valuable indicator of adult insects' prevalence across a landscape. Collecting data on trapped insects across multiple years may help establish a baseline of pest activity and potential crop infestations throughout the season. Such historical pest data can then be compared with current pest activity in the traps to identify population trends. The sticky traps can also be screened to detect invasive insect pests, such as Asian citrus psyllids, spotted lanternflies, and Mexican fruit flies.

## Insect count updates until 20 January 2026

The insect counts from the monitoring trap network are presented below (Figures 2, 3, 4, and 5). Each dot in each of the graphs represents the average insect count from 19 traps placed across the Imperial Valley for that sampling week, with the value expressed as the number of insects per trap per day.

**Whiteflies:** The whitefly counts (Fig. 2) in the traps consisted mainly of sweetpotato whitefly (*Bemisia tabaci* MEAM1), but also a small fraction (< 5%) of bandedwinged whiteflies, *Trialeurodes abutilonia*, and other minor whitefly species. Their population peaked in August-September. Since then, with the onset of lower temperatures, adult counts have declined, and currently, the trap counts indicate very low adult activity across the Imperial Valley.

**Aphids.** The trap-count data for aphids (Fig. 3) do not focus on any single species and represent the aphid complex in the Valley. Currently, we are observing low alate (winged) aphid counts in the traps, lower than the seasonal average. That being said, the latest trap count data indicate that the winged aphid population is trending upward, and several PCAs indicate that they are starting to see the population building up in their crops.

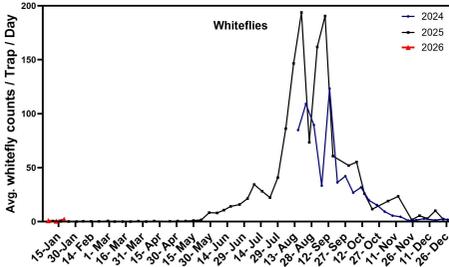


Figure 2. Whitefly counts from the traps

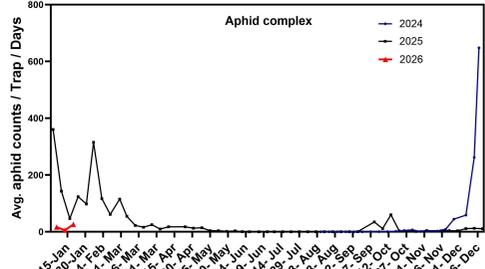


Figure 3. Aphids count from the traps

**Flea beetles.** The flea beetle counts on the traps (Fig. 4) comprised the pale-striped flea beetle, *Systema blanda*, the desert corn flea beetle, *Chaetocnema ectypa*, and other minor species. Currently, we are observing relatively low adult activity across the Imperial Valley.

**Western flower thrips.** Several thrip species were captured in the traps, but only western flower thrips (*Frankliniella occidentalis*), the major thrip species of concern for several crops in the Imperial Valley, were counted. Currently, we are observing relatively low adult counts in our traps, but slightly above the seasonal average for this time of the year.

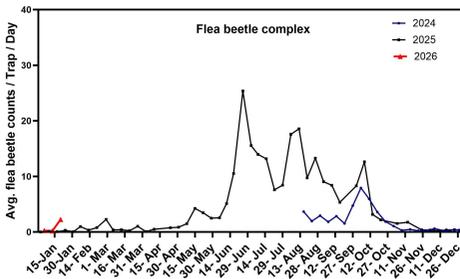


Figure 4. Flea beetle count from the traps

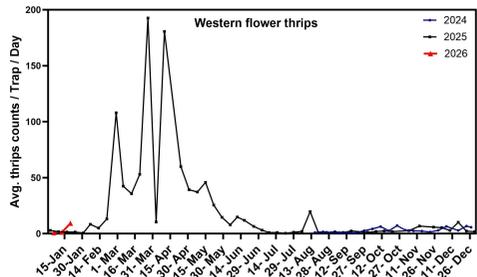


Figure 5. Western flower thrips count from the traps

If you are interested in additional data from this project or have questions or comments, please contact Arun Babu at (442) 265-7700 or [arbabu@ucanr.edu](mailto:arbabu@ucanr.edu).

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