INTRA LIGHT

Case Study:
Artisanal Cannabis Home Garden, Colorado

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Beta tester C.H. installed 25 #5 ring lights in his home garden (approx. 600 sqft) directly on to the soil surface. The beta tester had identified a hot spot of spider mite and thrip activity, approximating 300-400 spider mites and <100 thrips. Signs of stippling and insect waste were visible within the canopy throughout the garden, no webbing was present. No pesticides had been applied to treat this infestation. All cannabis plants were approximately 2 weeks into flowering. IntraLights were installed and set for 60 second bursts every 24 hours, 4 hours into the dark period.

7 Day Inspection: The infested hot spot contained signs of stippling and insect waste. The infested hot spot had not expanded, and pest populations had died back significantly. In the hot spot area ≤3 mites per plant were found, and the infestation was considered to be eliminated and reduced below economically impactful levels. When inspected for thrips the infested hot spot showed only individual thrips on plant tops. No webbing was present. No effect on photoperiodicity. A semi-severe root aphid infestation was noted.

14 Day Inspection: On day 14 from the IntraLight installation inspection showed ≤3 spider mites per plant on ~25% of plants tops. Individual thrips were located on ~25% of plant tops. New stippling was not found. No signs of webbing. No effect on photoperiodicity. Root aphid infestation was not deterred by the pesticidal light treatment, diatomaceous earth was applied to the soil surface.

21 Day Inspection: Pest populations collapsed to and sustained at below economically impactful levels. Equivalent pest populations from day 14 inspection.

Conclusions: Harvest was successfully completed with no pesticide application besides IntraLight nightly pesticidal light treatments. A hot spot of pest activity was eliminated and reduced below economically impactful levels. Beta tester reported pest populations collapsed after four days of light treatment. Photoperiodicity was not affected by the nightly light treatments. The few pests that were found were relegated to leaves located above the densest canopy regions.

Key Data:

- 25 Units Installed
- Treatments Began 2 Weeks into Flowering
- 300-400 Spider Mites and 100 Thrips Observed
- Pest Populations Collapsed After 4 Days of Treatment

Testimonial:

We found spider mites in our garden, and thought we would have to cut everything down and start over or spray some serious chemical pesticides which we weren't willing to do. We installed the IntraLights in a kind of last-ditch effort and in just a couple of days, the mites totally vanished! We couldn't be happier!
-C.H

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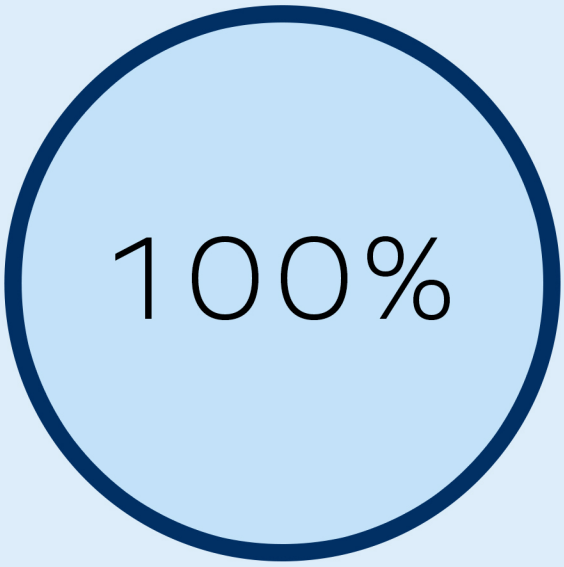
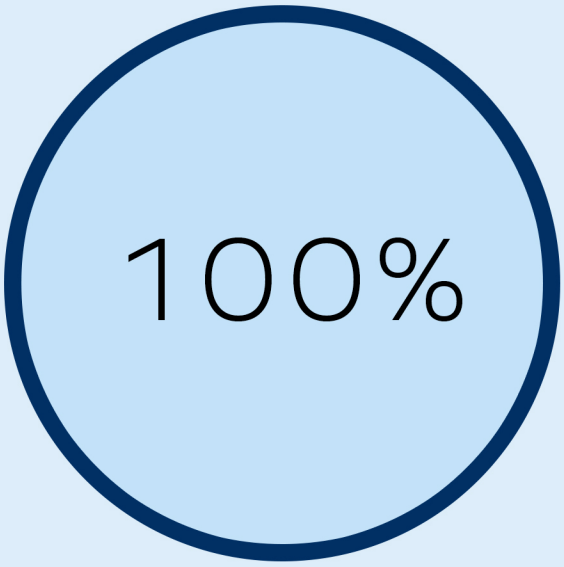
KEY Statistics:



Reduction in Pesticide use



Reduction in Crop Protection Labor

Negligable Energy Cost

Product Lifespan Remaining.