




**ULTRA-VIOLET PRODUCTS**

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## Application Bulletin UVP-AB-204

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- APPLICATION:** Quality assurance identification of insects as a part of crop pest "Sterile Release Programs".
- WAVELENGTHS/  
LAMPS USED:** Hi-intensity 365nm/B100A
- FIELD OF USE:** Agriculture
- PROCEDURE:** Crop pests (i.e., fruit flies,  or weevils) are raised on insect farms where the larval or pupae stages are either fed or coated with fluorescent dyes that ultimately reside in the insects head. The adult stages are then sterilized with radiation and released into the crop environment where they will unsuccessfully mate with wild type insects. Periodically, pests are randomly captured from the crop environment and viewed under the UVP B100A lamp to assess the impact of the "Sterile Release Program".
- PRIMARY ADVANTAGES  
OF THIS METHOD:** "Sterile Release Programs" reduce the need for pesticides in agriculture. This positively affects all of us because fewer harmful chemicals are released into the environment and our food supply. The power and focus capabilities of the B100A enable the agricultural entomologist to view whole insects to determine dye presence as opposed to decapitation of the bug and extraction of the dye with harmful solvents. This makes this portion of the procedure safer and quicker.