# SAP Preliminary Recommendations

#### Detection

- Have all detection traps deployed by May 15<sup>th</sup>.
  - If there is an official Japanese Beetle (JB) sample submitted/collected and verified before May 15, trapping can start that time.
- First inspection date: June 1st or two weeks after initial deployment.
- Recommended removal/final inspection date: mid-September.
  - Unless the last inspection yields a positive JB sample, in which case limited delimitation and visual survey occur.

### Delimitation

- Maintain current Delim strategy:
  - 49-25-5-5 delimitation trapping array
    - Maintain flexibility to increase trapping density
- More intensive visual surveys for adult JB may take place at the discretion of program officials.
- Visual larval surveys are not recommended.

## Maintain Current Eradication Trigger

- Current Eradication Triggers:
  - 2 adult beetle detections within 3 miles of each other and within the same year.
  - 1 larva

#### Eradication Recommendations

- Ground treatments
  - Recommended products:
    - Primary recommendation: chlorantraniliprole (Acelepryn)
    - Secondary recommendation: Imidacloprid (Ex: Merit)
    - Tertiary recommendation: Thiamethoxam (Ex: Meridian)
  - Recommended application: Once per year, according to label instructions.
    - Recommended treatment area: 200m radius centered over every confirmed find site.
      - Treat vegetated areas, according to label.

#### Eradication Recommendations

- Foliar treatments:
  - Suspend foliar treatments in residential areas unless an official, confirmed, live, adult JB is collected from anywhere other than a trap.
    - ► Foliar treatments when deemed necessary -- may be used in high-risk, non-residential areas, according to the product label(s).
  - Recommended products: Cyfluthrin, Deltamethrin
  - Recommended treatment will occur bracketing JB peak flight according to phenology model and previous trapping history.
  - Recommend elimination of the host list.
    - ► Foliar treatments will occur according to label instructions.

#### Outreach Recommendation

- Notification Recommendations:
  - 60 day official notification of affected properties.
    - Will provide general treatment area information, product information, treatment preparation guidelines, specific contact information, links to additional resources, such as the Notice of Treatment (NOT) map.
    - Public Information Officer to accompany every treatment crew OR provide each treatment crew with a card detailing contact information for the Public Affairs Office.
    - Posted online and made available through social media platforms.
  - 72-hr pre-treatment notice
    - Follow system similar to Healthy Schools Act.
  - Threat and Opportunities analysis

## Training Recommendations

- Identification of appropriate application sites
- Training to identify adult JB feeding damage.
- Identification of native bee nesting sites.
- General Pesticide Safety Training
  - Aim to reduce drift.
  - Ensure appropriate equipment is being used so as to maximize efficiency and efficacy.

#### Research Recommendations

- Gut analysis of adults to identify host plant
  - Samples must be preserved in 100% not denatured ethanol OR frozen
- Newly detected adults will be subjected to stable isotope analysis to determine if it is an incipient infestation.
  - Samples will need to be freeze-dried
- Development of Genomic tools to determine population origins and movement-related dynamics.
- Evaluation of target-specific controls.
  - Mating Disruption
  - Evaluate Oxitec SIT
  - RNAi approaches
  - BTg
  - Halofenozide
  - Micro-encapsulated insecticides/formulations

## Research Recommendations (cont.)

- Soil moisture monitoring to identify habitat suitability.
- Pre/post evaluate treatment impacts on native pollinators.
- Use IR4 data to expand Acelepryn label to include JB adults.
- Evaluate eDNA methods to detect larval JB in soil.
- Develop phenology model to guide detection activities.