

# INVASIVE SHOT HOLE BORERS

## EXECUTIVE SUMMARY

### Research

- Top Six Research Questions: \$1,646,000 covers biological control agents, integrated pest management, epidemiology, chipping, endophytes, and economic impacts. The committee is ready to proceed with the top six research questions at a projected cost of **\$1,646,000 + 25% overhead (\$411,500) for a total of \$2,057,500** to tackle the highest priority areas first.

### Trapping

- The **Survey – Early Detection and Rapid Response subcommittee** and the **Greenwaste and Firewood as Pathways subcommittee** both recommend trapping by counties be funded as soon as possible. They recommend providing **\$1,624,392 total for three years** to counties.
- A centralized trapping/visual survey coordinator **\$120,000 x 3 years = \$360,000 + 25% overhead (\$90,000) for a total of \$450,000**

### Pathways – Green waste

- Los Angeles, Orange and Ventura counties to work with their local enforcement agencies (LEA) to identify and access green waste facilities in Los Angeles, Orange, and Ventura Counties for trapping and visual survey activities. **\$50,000 to LEAs in Los Angeles, Orange and Ventura counties for one year = \$150,000**

### Outreach

- ISHB Communications Coordinator: **\$120,000 x 3 years = \$360,000 + 25% overhead (\$90,000) for a total of \$450,000**
- A training program, communication operations funds, and rapid response (online trainings, field trainings, roadshow trainings). Five main categories of trainings have been identified, based on the needs of the audiences: Land Management and Greenwaste, Landscape and Gardeners, Campground and Recreation, Public Training, Staff of CA agencies and other conservation officers, including county staff. **\$30,000 x 3 years = \$90,000 + 25% overhead (\$22,500) for a total of \$112,500**

### Administration

- UC IPM - **\$30,000 x 3 years = \$90,000 + 25% overhead (\$22,500) for a total of \$112,500**

### Cal Fire Funds

- Approximately **\$500,000 for the purchase of traps and lures for invasive shot hole borers.**
- Approximately **\$4,500,000 for the removal and proper disposal of invasive shot hole borer infested trees.** The majority of funding will be to the leading edge and heavily infested counties with smaller amounts to the bordering counties that are not presently infested as follows:
  - Generally infested counties of San Diego and Orange: **\$597,160 each.**
  - Leading edge counties of Los Angeles, San Bernardino, Riverside, Santa Barbara and Ventura: **\$597,160 each**
  - Bordering counties of San Luis Obispo and Kern: **\$164,580 each**
  - Total to the counties: **\$4,509,280**