





# Technical Bulletin for: Spiny Bollworm

*Earias biplaga* (Walker) • Lepidoptera, *Nolidae* • EARBIP



<b>DISTRIBUTION</b>	Africa, Asia, Europe, The Americas (Southern U.S. and Central/South America)
<b>HOSTS</b>	Cotton, cacao, species of mallow and legume
<b>DESCRIPTION</b>	
<b>Adult Moth</b>	About 10-12 mm with a wingspan of 18-25 mm. Greenish yellow with a dark purple-brown terminal fringe on the forewing with white hindwings.
<b>Larvae</b>	Stout, spindle-shaped, greenish to brown with yellow/brown spots. Can grow up to 18 mm long
<b>Eggs</b>	Spherical, Bluish-green in color.
<b>LIFE HISTORY</b>	Adult females lay 200-600 eggs singly on shoots of young plants, or on stalks, flower bud bracteoles and young bolls on older plants. Eggs hatch after 3-4 days and larvae pass through 5 instars during the ensuing 12-18 days. The last larval instar spins a dirty white to pale brown scaphoid, felt-like cocoon on the plant or among the plant debris on the soil surface. The pupal stage lasts for 1-2 weeks.

## MONITORING INFORMATION

<b>LURE ACTIVE INGREDIENTS, SUBSTRATE &amp; FIELD LIFE</b>	Z11-16Ald in a Red Rubber Septum. Lure longevity: Thirty (30) days.	
<b>TRAP TO USE</b>	Red Paper or Plastic Delta Trap.	
<b>MONITORING STRATEGY</b>	In smaller fields, use one trap every 1 to 1 ½ acre. A minimum of two traps should also be used for fields of uneven topography. For larger fields (10 acres or greater) use 1-2 traps per five acres. Traps should be placed at approximately the same height as the crop. Traps should be checked weekly or more frequently, depending on pest population. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
<b>CULTURAL &amp; PHYSICAL CONTROL</b>	Immediately shred the cotton plants following harvest. Shredding destroys some larvae directly and promotes rapid drying of unharvested bolls. If fall temperatures are high during September and much of October, leave crop debris on the soil surface for two or more weeks after the shredding operation to further destroy larvae. Be sure to comply with plow-down requirements and cross disc or plow to a depth of at least 6 inches. Depending on climate, wild host plants may either be beneficial or detrimental- remove only as necessary.	

**Alpha Scents, Inc.**  
insect monitoring systems

Alpha Scents, Inc., 360 S. Sequoia Pkwy. Canby, OR 97013  
TEL: 503-342-8611 • FAX: 314-271-7297 • sales@alphascents.com • www.alphascents.com