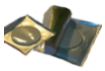
Technical Bulletin for:

Coconut Leaf Beetle

Brontispa longissima (Gestro) • Coleoptera, *Chrysomelidae* • BROLON

DISTRIBUTION	Many Pacific Islands, including Indonesia, Solomon Islands, Vietnam, Nauru, Cambodia, Laos, Thailand, Myanmar, Maldives, Hainan Island, Aru Islands, and the Philippines.
HOSTS	Coconut, Sago, Betel, Royal, Oil and Ornamental Palms.
DESCRIPTION	
ADULT MOTH	8.5-9.5 mm in length, with males being slightly smaller than females. Color varies geographically from reddish-brown to almost black
LARVAE	Whitish in color, about 1.5 mm long and 0.75 mm in width initially, reaching a length of 9mm come maturity. Larvae undergo 5-6 instars.
EGGS	About 1.5 mm long and 1 mm wide, elliptical and brown in color, each end broadly rounded.
LIFE HISTORY	The eggs are laid in groups of one to four, end to end, in a furrow chewed in the leaf by the adult, between or inside the tightly folded leaflets. The beetle covers each egg with excreta. The eggs hatch after an incubation period of about 5 days. The newly hatched larva begins to feed between and inside unopened leaflets. The larvae are fairly sedentary and avoid light. The larval period is 30-40 days, followed by a prepupal period of 3 days and a pupal period of 6 days. The pupa lies freely between the apposed surfaces of the developing folded leaflets. The development from egg to adult takes 5-7 weeks. The beetles, which also seem to avoid light, are nocturnal and fly well. The adults feed among the young unopened leaflets and, since they live up to 220 days, their cumulative damage greatly exceeds that of the larvae. There is a preoviposition period of 1-2 months and 100 or more eggs may be laid.
MONITORING INFORMATION	
LURE ACTIVE INGREDIENT, SUBSTRATE & FIELD LIFE	B-myrcene, (-)Limonene and E2-6OH in a Coaster Lure Packet. Lure longevity: 30 Days 
TRAP TO USE	Red paper or Plastic Delta Trap  
MONITORING STRATEGY	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 near the highest point of the plant. Traps should be checked weekly or more frequently, depending on pest population. Check with Cooperative Extension or Master Gardener for local information and recommendations.
CULTURAL & PHYSICAL CONTROLS	Cut out and destroy central unopened frond of palms infested with the Coconut Leaf Beetle. This procedure must be conducted one at a time over a large area and repeated often. This is most effective on palms 3-6 years old.

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