





Technical Bulletin for: Larger Grain Borer

Prostephanus truncatus (Horn) • Coleoptera, Bostrichidae • PROTRU



DISTRIBUTION	Native to Central and South America, and the southern United States. Introduced into Africa, including Kenya, Rwanda, Uganda, South Africa and Malawi among others.
HOSTS	Serious pest of stored maize and dried cassava roots. Will also attack maize in the field. Lesser pest of yam, sorghum and wheat.
DESCRIPTION	
ADULT	Small (3-4.5 mm), dark brown.
LARVAE	White, and fleshy with sparse hairs. C-shaped with small head.
EGGS	White to yellow with no surface features.
LIFE HISTORY	The life cycle is highly dependent on temperature and food source but typically lasts 40-92 days. Females lay 10-100 eggs with larvae emerging in 5-10 days. In warmer climates there can be 5-6 generations per year.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	1-Methylethyl (E)-2-methyl-2-pentenoate and 1-Methylethyl (E,E)-2,4-dimethyl-2,4-heptadienoate in a plastic vial. Lure Longevity: 30 days 
TRAP TO USE	Pail Trap (Bucket) 
MONITORING STRATEGY	Traps can be placed year-round in warm locations but should be in greater numbers during the warmer months. It is recommended that traps be placed near materials susceptible to attack at one per every 3-15 m. Trapping along corners, walls and posts is most effective for these beetles and this trap designs. In residences, place traps on shelving of cabinets and near food products. Check with Cooperative Extension or Master Gardener for local information and recommendations.
CULTURAL & PHYSICAL CONTROLS	Clean the store between harvests, removing and burning infested residues, immersing grain sacks in boiling water and removing wood from stores or fumigating the store to eliminate residual infestations and the selection of only uninfected material for storage.

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