

Larger Grain Borer on Maize

Prostephanus truncatus (Osama)



Larger Grain Borer (infonet-biovision).



Exit hole on Maize grain damaged by LGB (source M.O.A Kenya)



Maize cob infested by LGB Source infonet Biovision

Prevention	Monitoring	Direct Control	Direct Control	Restrictions
<ul style="list-style-type: none"> ◆ Plant resistant maize varieties e.g EMB 0702 for medium altitude, MTPEH 0701, M/0702 coast region. ◆ Harvest early, 3 weeks after attaining physiological maturity. ◆ Clean the store thoroughly between harvests. (See Direct Control) ◆ Remove and burn infested residues before the new stock is stored. ◆ Immerse used sacks in boiling water and dry to eliminate residual infestations. ◆ Practice crop rotation with legumes (beans, cowpease)Vegetables (Kales, spinach) ◆ Thresh maize before storing and avoid breaking of the grains 	<ul style="list-style-type: none"> ◆ Inspect stored grains weekly for signs of infestation. ◆ Look for small (4mm) beetles with a uniform dark brown to black colour roaming on stored grains. ◆ Look for exit holes on grains. ◆ Look for tunnels through stored maize grain resulting into large quantities of dust. ◆ Consider direct control when 1 insect is noticed. 	<ul style="list-style-type: none"> ◆ Place sticky traps in susceptible areas in the store. ◆ Sundry and sieve infested grains before packing. ◆ Use metal silos and/or hermetic bag for storage. 	<ul style="list-style-type: none"> ◆ Spray store surfaces well before use Pirimiphosmethyl (Actellic 25 EC – 200ml/10Lt water). 	<ul style="list-style-type: none"> ◆ WHO toxicity class II (moderately hazardous); ◆ PHI 4 Days. ◆ MRLs 7mgs/kg
			<ul style="list-style-type: none"> ◆ Dust grains with any of the following pesticides: Pirimiphos methyl 1.6%+Permethrin 0.3% (Actellic Super 50g/90Kg Maize, Malathion + permethrin (Skana Super 50g/90 Kg Maize) or dust Fenitrothion + fenvalerate(Sumicombi 1.8%- 30g/90Kg Maize) Spinsad (spintor dust – 50g/ 90Kg) 	<ul style="list-style-type: none"> ◆ Pirimiphos -WHO toxicity class II (moderately hazardous) ◆ MRLs 7mg/kg ◆ Malathion -WHO class III (Slightly hazardous) ◆ MRLs-0.05mg/kg ◆ Permethrin- WHO class II (moderately hazardous) ◆ MRLs-2mg/kg ◆ Spinsad-Class III (slightly hazardous).
			<ul style="list-style-type: none"> ◆ When using a pesticide always wear personal protective equipment. Follow the instructions on the product label, such as dosage, timing of application, restricted re-entry interval. Do not empty into water drains. ◆ Clean the grains thoroughly with water before consumption. ◆ Always consult recent list of registered pesticides by PCPB 	

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Kenya

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