







Technical Bulletin for: Fall Armyworm

Spodoptera frugiperda (J.E. Smith) • Lepidoptera, Noctuidae • SPOFRU



DISTRIBUTION	Native to all tropical regions of the western hemisphere from the US to Argentina. Currently spread through the World.
HOSTS	Grasses and from maize, rice, sorghum and sugarcane. Also recorded on cotton, Brassicaceae, Cucurbitaceae, groundnuts, Lucerne, onions, Phaseolus, sweet potatoes, tomatoes
DESCRIPTION	
Adult Moth	Grey-brown moth of wingspan 32-38 mm; the forewings are grey to grey-brown in the female, but in the male they are darker with dark markings and pale streaks; the hindwings are white
Larvae	Green with black lines and spots either remaining green or become buff-brown and have black dorsal and spiracular lines. Fully grown larvae are 35-40 mm in length.
Eggs	The egg mass is usually covered with a protective, felt-like layer of grey-pink scales (setae) from the female abdomen. Up to 1000 eggs may be laid by each female.
LIFE HISTORY	Eggs are laid in clusters of 100-300 at night on the leaves of the host, stuck to the lower surface of the lower part of the lower leaves. The eggs usually hatch in 3-5 days. Rate of larval development through the six instars (or five) is controlled by a combination of diet and temperature conditions, and usually takes 14-21 days. Pupation takes place inside a loose cocoon in an earthen cell, or rarely between leaves on the host plant, and 9-13 days are required for development. Adults emerge at night, and they typically fly for many kilometers before they settle to oviposit, sometimes migrating for long distances. On average, adults live for 12-14 days.

MONITORING INFORMATION

LURE ACTIVE INGREDIENTS, SUBSTRATE & FIELD LIFE	(Z)-11-Hexadecenyl acetate, (Z)-7-Dodecenyl acetate and (Z)-9-Tetradecenyl acetate on a Red Rubber Septum. Lure longevity: Four (4) weeks.	
TRAP TO USE	Paper or Plastic Delta or Uni-Trap	  
MONITORING STRATEGY	Hang the trap on a stake at plant height in whorl stage corn. Check traps weekly. Check with Cooperative Extension or Master Gardener for local information and recommendations.	
CULTURAL & PHYSICAL CONTROL	Early planting, weed control and proper tilling of the soil can help reduce fall armyworm pest populations.	

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