

EME 6215: Instructional Graphics
Fall 2021 | Dr. James Hatten

The Fall Armyworm: Stats & Solutions



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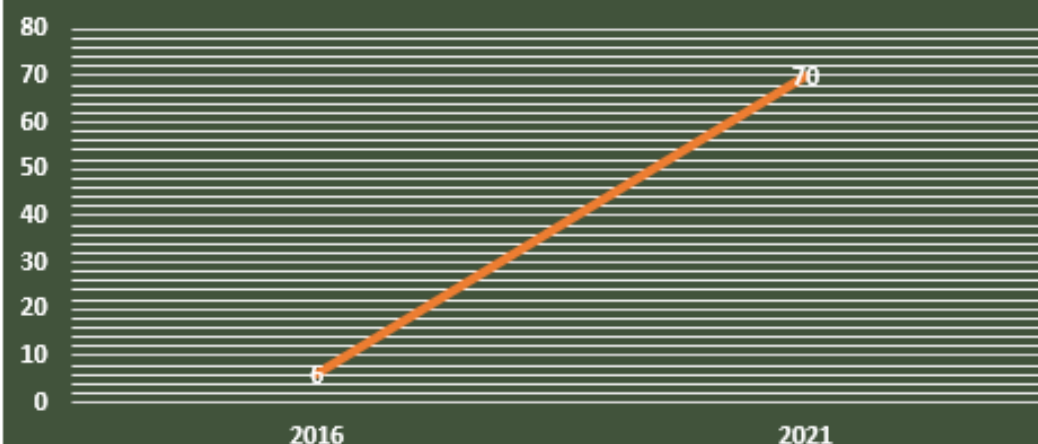
The Fall Armyworm

Seven Stunning Stats

- 1 Armyworms in Kenya destroyed 1 million tons of maize in 2018 - **33%** of the annual crop!
- 2 In Zimbabwe, armyworm infestations reduced per capita household income by: **44%**.
- 3 Households in a study in Ghana & Zambia with at least half their maize plants affected by armyworm: **55%**
- 4 Countries reporting armyworm infestation outside its native range in 2021: **70** (only 6 in 2016)
- 5 Pounds of foliage per acre that can be consumed by two armyworms per square foot: **84**
- 6 Miles an armyworm can travel in 24 hours: **500**
- 7 Average total egg production of the female Fall Armyworm: **1500**



COUNTRIES WITH FALL ARMYWORM INFESTATIONS



The Fall Armyworm

Yes?



**Treat
&
Recover**

- ◇ Mow before treatment, to improve insecticide coverage.
- ◇ Irrigate before treatment, to bring larvae to the soil surface.
- ◇ Apply insecticide early or late in the day, when the larvae are most active.
- ◇ If using a spray insecticide, spray a minimum of 1 gallon of spray solution per 1,000 square feet.
- ◇ Do not irrigate for 24 hours after a spray application.
- ◇ If using a granule insecticide, don't forget to water for activation.
- ◇ After treatment, irrigate regularly, seed, and fertilize, to aid recovery.

Lawn
looks
like
this?



← Got
crop
damage?

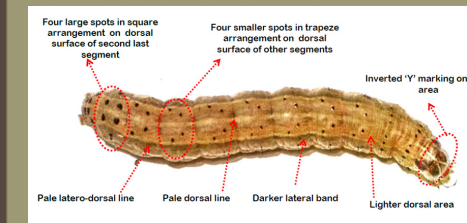
No?



**Prepare
&
Protect**

- ◇ Use pheromone traps to sample armyworm moth populations. If moths are detected, do a thorough search for eggs and larvae.
- ◇ Use a biological control treatment like *Bacillus thuringiensis*. Genetically modified strains work best.
- ◇ For crops, consider planting and harvesting early in the year, to avoid the higher armyworm densities later in the season.
- ◇ Growing corn? Apply insecticides in the irrigation water during the silking stage

IDENTIFY



TREAT

