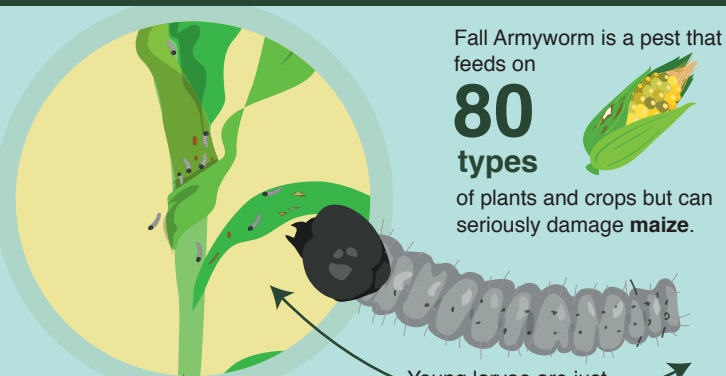


What should I do if I find Fall Armyworm damage?



Fall Armyworm is a pest that feeds on

80 types

of plants and crops but can seriously damage **maize**.



Young larvae are just 1 mm long



Scientists have found Fall Armyworm in **South Asia** and expect this pest will damage farmers' fields.

There are many ways you can control Fall Armyworm. Let's learn about some of them.



After you have scouted for and found sufficient Fall Armyworm damage, how can you control it?



Mechanical Control

Scout your field and crush Fall Armyworm eggs and young larvae. This will reduce the pest population but not completely control Fall Armyworm.



Worm eggs



Young larva



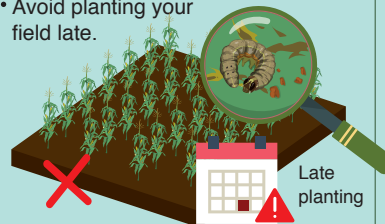
Pupae

If you have access to irrigation, flooding with a few centimeters of water can reduce Fall Armyworm numbers by drowning pupae. This method works best when many farmers irrigate at a similar time to reduce populations over a large area.



Use smart agronomy

- Avoid planting your field late.



- Plant your field early.



- Use intercropping and increase the diversity of crops on and around your field.



- Manually weed your field. This will kill pupae and reduce populations in a similar way as irrigation.



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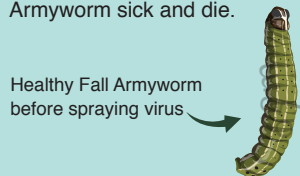
Partners



RESEARCH PROGRAM ON Maize

Biologically-based insecticides

- Biologically-based insecticides include Bt, and Baculovirus-based biopesticides. *Spodoptera frugiperda* multiple nucleopolyherovirus is also effective and has a low-risk of killing beneficial insects. It makes Fall Armyworm sick and die.



Healthy Fall Armyworm before spraying virus



Dead Fall Armyworm after spraying virus

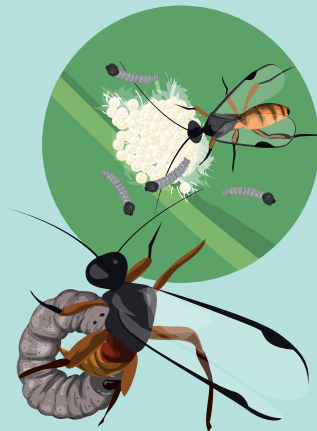
- Before spraying pesticides, let spiders, ants and parasitic insects work for you! Spiders and some wasps can kill Fall Armyworm. These insects are farmers' friends and will kill Fall Armyworm for you.



- Encourage parasitoids that will lay eggs in Fall Armyworm egg masses and also in their larvae. When eggs hatch, they kill Fall Armyworm.



- Spiders, ants, and many other insects will eat eggs and larvae of this pest.



Chemical control

Important!



You should **only use chemical control** if you have properly scouted your field, identified Fall Armyworm damage, and consulted with an extension agent or qualified advisor. Insecticides should only be applied by a trained professional.



Spraying before you have scouted and identified or Fall Armyworm in your field is expensive and unlikely to be effective.



Insecticides are a last resort to use after you try mechanical, agronomic, and biological control methods.

Never spray pesticides when it is windy or when people or children are near your field.



Store insecticides in a locked box outside your home. Keep insecticides out of the reach of children.

The Cereal Systems Initiative for South Asia (CSISA) was established in 2009. The project is led by the International Maize and Wheat Improvement Center (CIMMYT) and implemented jointly with the International Food Policy Research Institute (IFPRI) and the International Rice Research Institute (IRRI). The content and opinions in this infographic do not necessarily reflect the views of the Bill and Melinda Gates Foundation, USAID, or the United States Government, and shall not be used for advertising or product endorsement purposes. Correct citation: Krupnik, T.J. and Dhungana, H. 2019. What should I do if I find Fall Armyworm damage? CIMMYT and the CSISA project. Dhaka, Bangladesh. Design by 3CQ

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