

# Hessian Fly Resistant Wheat Varieties

Reduce wheat losses due to Hessian fly and increase yield

The Hessian Fly Resistant Wheat Varieties are specifically bred wheat plants with a natural ability to resist the Hessian fly, a destructive insect. Created through selective breeding, these varieties are developed to withstand larvae attacks, acting as a protective shield for the wheat.



Hessian fly adult (left) and larvae and damage to wheat (right)

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This technology is **TAAT1 validated**.
  **8•8**
 Scaling readiness: idea maturity 8/9; level of use 8/9

Gender assessment **4**

Climate impact **7**

### Problem

The wheat production faces infestations by the Hessian fly and lead to substantial losses in many major wheat-producing areas, impacting crop yields.

### Solution

- Hessian Fly Resistant Wheat Varieties provides a natural barrier against infestations.
- These varieties significantly decrease damage caused by Hessian fly larvae, ensuring healthier crops.

### Key points to design your project

This technology enhances gender inclusion by improving nutrition and food security. To integrate it into your project, estimate seed costs, consider delivery expenses, and collaborate with local institutes and seed companies. Training, monitoring, and communication support are essential for successful implementation.

Cost: \$\$\$ <b>35—43 USD</b>	ROI: \$\$\$
Seed needed per ha	
<b>79—100 %</b>	<b>5.5—7.1 tons/ha</b>
Protection of plants from pests	yield potential
	<b>105 USD</b>
	Additional production of forages per ha
	<b>IP</b>
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Technology originally documented by  
**ProPAS**

Commodities  
Wheat

Sustainable Development Goals

Categories  
Production, Improved varieties, Insect resistance

Best used with

- [Integrated Management of Insects, Diseases and Weeds in Wheat >](#)

