



Global Burden of Crop Loss

Providing decision-makers with actionable insights on the scale and factors contributing to crop loss globally

The problem

The global population is projected to reach **10 billion by 2050**.

Meeting food demand without increasing agriculture's environmental footprint continues to be a major challenge.



The problem

Yet crop productivity is increasingly at risk from pests, plant diseases, and the effects of climate change.



Why crop loss matters

Each year, up to **40% of crops are lost before harvest** – threatening food security, farmer incomes, and economic stability.



THIS IS A
PROBLEM **BIG**

Why we need better evidence

Decision-makers lack the evidence they need to help them understand and tackle this problem.



What we do

We provide **trusted, actionable estimates** of crop losses and their causes – helping governments, researchers, funders and the private sector make informed decisions to reduce losses.



Our impact

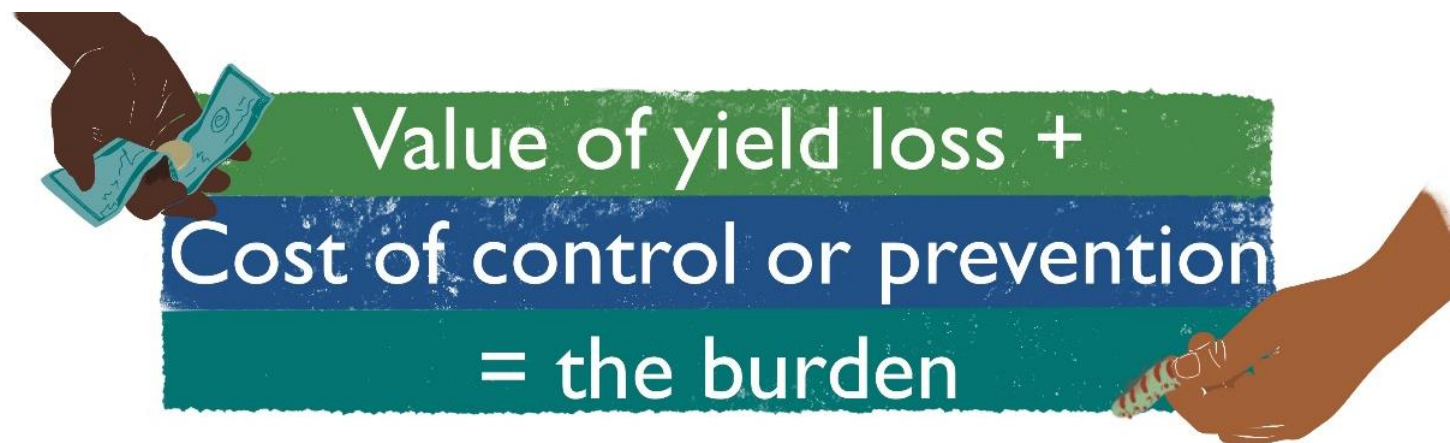
Improving evidence-based decision-making on plant health will:

- Reduce and prevent crop losses
- Make agricultural systems more resilient against the impacts of climate change
- Improve food security and livelihoods



The burden of crop loss

We define the burden caused by crop loss as the value of the crops that were lost, plus the cost of control measures employed.



The burden is a simple, clear, metric comparable across crops, production systems, and time.

Who we support

GBCCL is principally designed for **Food Security & Policy Planning** by **government and multilateral agencies** who need to anticipate shortages, manage supply, and provide timely support in the right locations.



Who we support

We help them to understand:

Causes of losses

- Detect and understand declining yields due to drought, pests, or climate anomalies
- Trigger food import strategies or humanitarian aid



Who we support

We help them to understand:

Trends in production

- Inform decision making on when to release or stockpile grains
- Subsidy planning to target regions suffering crop failure



Who we support

We help them to understand:

Trends in crop suitability

- Decide on long term crop suitability to respond to climate change and incentivize



How we support them

The first GBCL maize results are now produced and available.

The GBCL dashboard is the best way to access these results. Its first release is now live. It will be further refined, with new data layers and interactivity, in due course.

We welcome your feedback as you explore the GBCL data and help us better support your needs.



Gates Foundation



GBADS