

Impact of PLANT DISEASES

Plant health is **your** health.



Plants account for
of the human diet.

over
80%



20-40%
of loss

Plant diseases and
pests cause in global
food production.



More than \$20 Billion
is lost annually in the U.S. due to
plant diseases.

Invasive and emerging
diseases threaten
important U.S. crops
such as citrus. Florida
orange production
for juice dropped
dramatically due to a
citrus disease called
Huanglongbing (HLB),
and Florida's economy
lost \$4.4 billion between
2012–2016 due to HLB.

Food shortages caused by
plant diseases and pests can increase
prices, lead to food insecurity and
poor diets, and trigger civil unrest in
vulnerable countries.



Sources: (Left, top to bottom), data from UN FAO (www.fao.org/assets/infographics/FAO-Infographic-CGRFA30-en.pdf); Savary et al., 2019 (<http://dx.doi.org/10.1038/s41559-018-0793-y>); data from Pimentel et al., 2005 (www.sciencedirect.com/science/article/pii/S0921800904003027); and Bellemare, 2014 (<https://academic.oup.com/ajae/article/97/1/1/135390#81831857>); (Right) data from Court et al., 2017 (https://fred.ifas.ufl.edu/pdf/economic-impact-analysis/Economic_Impacts_of_the_Florida_Citrus_Industry_2015_16.pdf).



Plant health scientists
develop disease management strategies,
including disease resistance, disease
control by chemicals and biocontrol
agents, and microbiome enhancements.