



Innovations in production systems and new technologies to produce more and better

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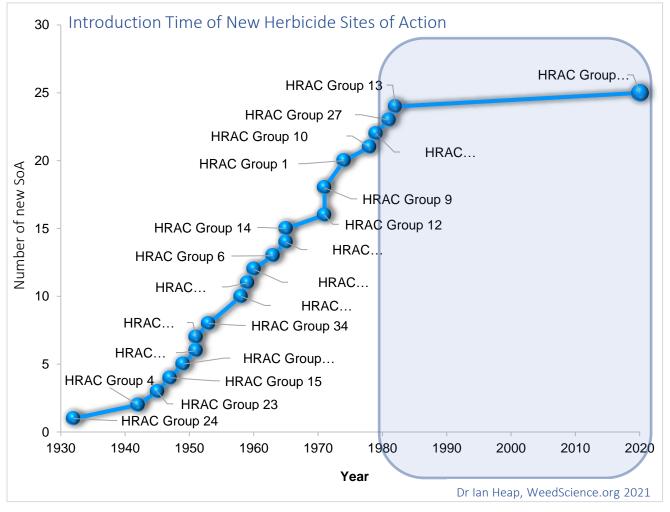
BASF Corporation

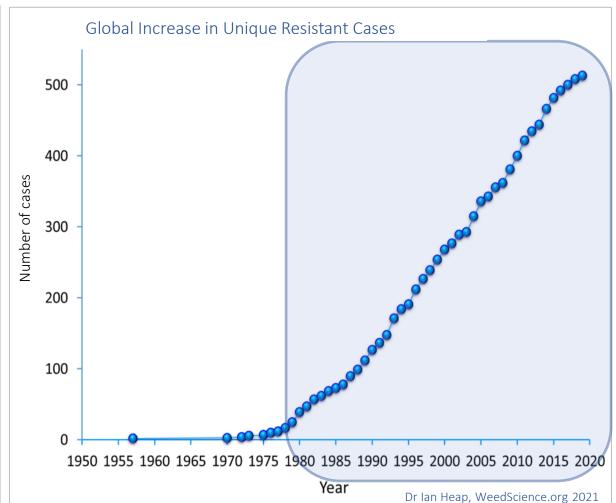






Innovation, a key factor for sustainability















BASF Agricultural Innovation



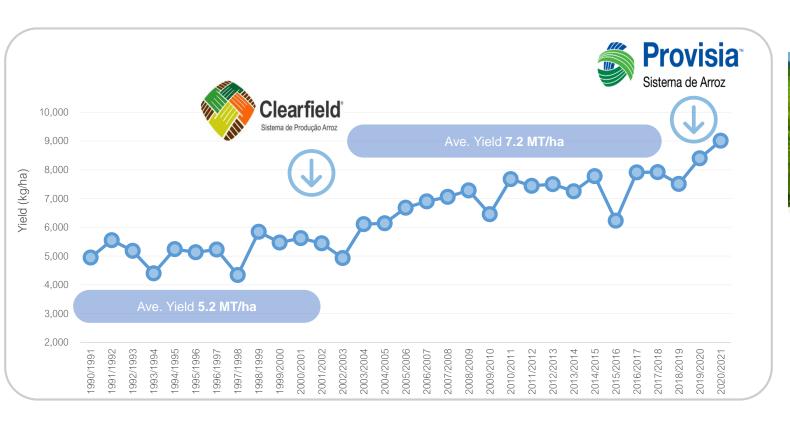








Clearfield® technology impacts.





Average yield from Rio Grande do Sul, Brazil (irrigated rice) Clearfield rice as part of Project 10 IRGA. For more details: https://youtu.be/W4pLcHg-c8E



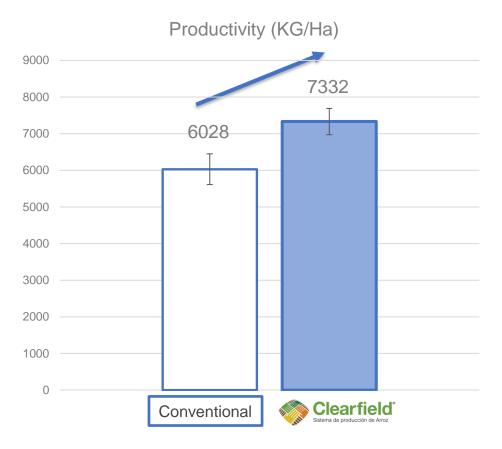








Clearfield® technology impacts



Better weeds management (Red Rice)



- Cost reduction
- Better water management

























BASF focus on innovations to improve rice production



Breeding, innovations in chemistry and digital tools to support main challenges in rice:



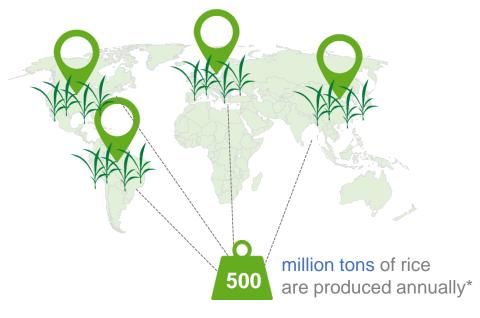
Water and Land use **GHG** emissions

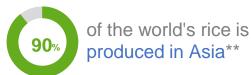


Weeds, diseases and pest management



Climate-smart and environmentally responsible farming practices













Innovations in launch and development through 2029 for rice



New varieties & traits

Provisia® Rice System

Crop protection

Luximo® & Kixor® CS herbicides Revysol® fungicide Insecticide in development

Digital farming











Provisia® and Clearfield® rice systems to expand weed management tools







Availability

Currently available in South America and North America.

Introduction in Colombia and Asian rice market by 2026

Different seed partnerships activated to launch the herbicide tolerant traits in rice globally



Provisia® controls weedy-rice. BASF field trials, photo from US launch.







New tools for weeds management in rice

Luximo[®]

- Mew tool for grass weed management programs.
- New herbicide for resistant management
- New mode of action. Luximo[®] inhibits cell membrane processes. Germination is disrupted in grass weed seedlings

KIXAC®

- Innovative encapsulation that is safe on rice plants
- Effectively controls broadleaf weeds.





Luximo®: grasses control in rice. Kixac: Broadleaves weeds control in rice.

BASF Internal field trials, Asia.











Revysol® fungicide formulations launching for rice

- Blockbuster, Revysol® Active will be formulated for applications in rice
- Launching within the next 2 years as Cevya®, Mibelya®, and Revyrize®.
- Control for major diseases such as sheath blight, and dirty panicle

Benefits

- Improves rice quality and yield
- Additional fungicide tool for resistance management of diseases
- Sustainable, low use-rates of Revysol®







New insecticide for control of resistant rice hopper

Long residual control of devastating rice hopper pests





Leveraging partnerships: advanced by BASF and industry collaborators

Accelerated development: expected in Asia Pacific middecade



New insecticide AI shows activity against the rice hopper complex. BASF field trials, China.







Xarvio® FIELD MANAGER for rice

Currently available in Japan, the decision-making quality of xarvio® **FIELD MANAGER** is continuously improving to optimize sustainable rice production.

More efficient use of technologies:

Platform updates for new insect pest models expected to be available by 2025

Disease models to be updated to support more precise fungicide timing, dosing and product selection recommendations









