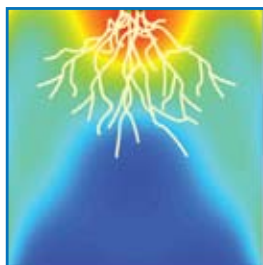


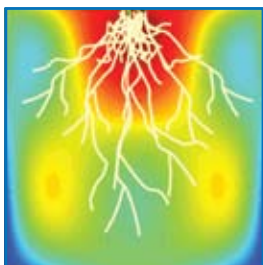
# Benefits of Technology

Biotech crops provide several benefits including productivity, greater return on investment and reduced pesticide use. An external global germplasm pool is continually being researched, screening 1000's of genes for the most potential. Researchers then test the potential productivity in the field in our area to find the best fit for each customer's farm.

## Water Use



Soil Insecticide

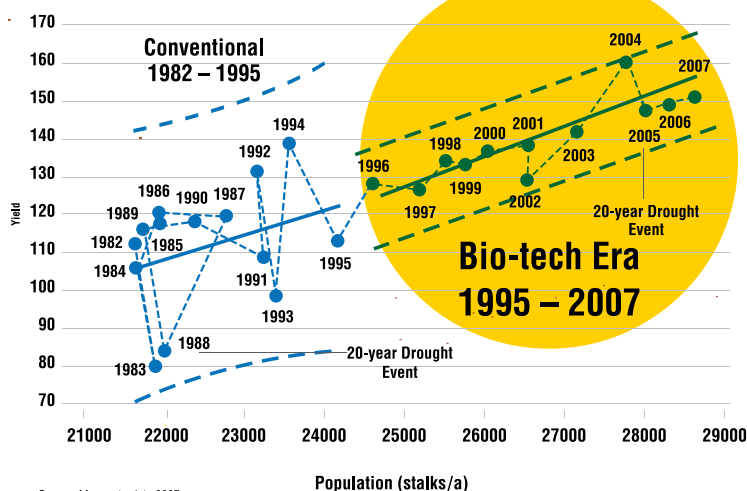


YieldGard Rootworm

- Low Water Absorption
- Moderate Water Absorption
- High Water Absorption

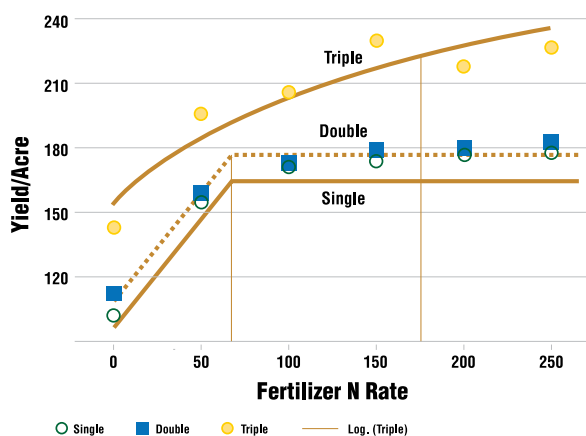
Source: 2006 Monsanto field data, Joes, CO.

- YieldGard® VT Triple corn plants have better protected roots so they are healthier plants.
- The longer deeper roots are able to reach more moisture which helps the corn tolerate drought stress.



Source: Monsanto data 2007.

## Trait Yield Response to N



Source: University of IL.

- Biotechnology traits enable farmers to maximize and stabilize yields by mitigating crop stress.
- A more consistent upward trend of increasing yields has been observed as plant populations increased.
- Research has shown that corn uses nitrogen more efficiently when the rootworm trait is added.
- Triple stack corn yielded more than double stacked or single trait corn in a university trial; whether in a low nitrogen environment or in an excessive nitrogen environment.

The relative stability of yield gains observed since the introduction of biotechnology played a major role in the securing the Biotech Yield Endorsement Program (BYE). The BYE Program offers farmers the potential to save more than \$2 per acre on crop insurance premiums in 11 states, including South Dakota and Minnesota.



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