



Why Quilt Xcel or Quadris fungicide when conditions are dry?

Drought may be the most worrisome threat to a corn grower. Thanks to Quilt Xcel[®] and Quadris[®] fungicides, Plant Performance[™] can be boosted in the midst of dry conditions as increased water use efficiency allows corn to deliver more crop per drop of water.

In a 2010 study conducted at the University of Nebraska, Quilt Xcel was evaluated for potential yield benefits in corn under various irrigation regimes. Corn received either 100 percent (irrigated so plants were not water stressed over the growing season) or 60 percent (plants received 60 percent of the 100 percent irrigated plots) irrigation with and without Quilt Xcel. Yield was highest in the fully irrigated plots where there was no drought stress. However, Quilt Xcel improved yields by 8 Bu/A and 15 Bu/A in the fully irrigated and the 60 percent irrigated plots, respectively. Quilt Xcel delivered more crop per drop of water by enhancing the corn plants' water use efficiency. Yield in the 60 percent irrigated treated plot was almost equal to the yield from the fully irrigated untreated plot. In addition, the 60 percent irrigated plot saved the grower the expense of 4.8 inches of water/A as well as costs associated with pumping the water (Figure 1).

In a sprinkler irrigation study conducted at Kansas State University in 2011, a foliar application of Quilt Xcel at 60 percent irrigation provided corn yield equal to the untreated fully irrigated corn (Figure 2).

Figure 1.
Yield benefits from Quilt Xcel with less water.

Quilt Xcel improved yields and reduced water required

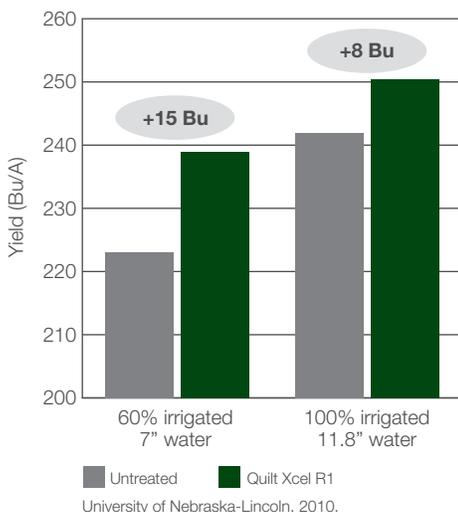
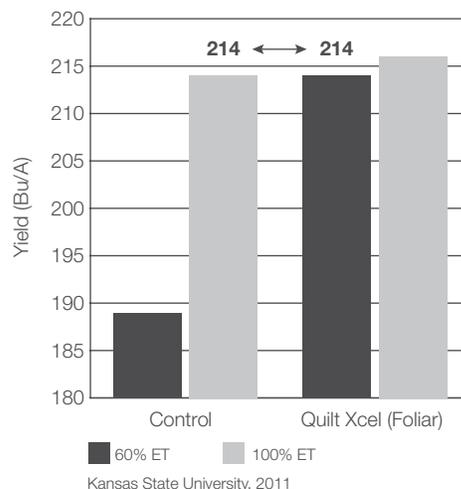


Figure 2.
Yield benefits from Quilt Xcel on corn at 60 and 100 percent irrigation.





Applications of Quadris during early growth stages (V4 – V8) have also shown positive effects on corn plants growing under dry conditions. The photos below (Figure 3) are from a field location in Garden City, Kan. where dry conditions persisted early in the season. You can see the leaves of the untreated plants are shriveled and showing signs of moisture stress. In contrast, the Quadris treated plants look normal and appear to be slightly bigger. The biggest difference was seen when plants were dug up and the roots of the Quadris treated plants were much bigger than the roots of the untreated plant.

Figure 3. *Effects of Quadris applied early (V4-V8) on normal plant growth and root development*



Quadris

Untreated



Quadris

Untreated

Benefits of Quilt Xcel and Quadris:

- Quilt Xcel and Quadris can help better realize your crop's genetic yield potential even when Mother Nature is working against you. While they won't allow you to grow corn in the desert, they can benefit corn when conditions are dry.
- Quilt Xcel and Quadris provide long-lasting broad-spectrum control of all four classes of fungi.
- Other Plant Performance benefits of Quilt Xcel and Quadris include greener plants with more plant growth, extended ear fill and stronger stalks that result in less lodging for a more efficient harvest with less ear fall that results in volunteer corn the following year.

For more information, visit www.FarmAssist.com or www.PlantPerformance.com.

Plant Performance assumes the presence of disease pressure.

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