



Corn Foliar Fungicide Response

Hybrid Response to Foliar Corn Fungicides

Syngenta is committed to share agronomic knowledge with our customers to help them grow more corn. To help evaluate the potential benefits of a corn fungicide application, Syngenta agronomic research provides ratings on the relative hybrid response to an R1 application of foliar fungicide.



- Does the field have a history of disease pressure?
- Is the field in minimum or no-till production?
- Does the hybrid that was planted have a known disease susceptibility?
- Are the environmental conditions conducive to disease development?
- During scouting, have you observed disease symptoms?

Additional Potential Benefits of Foliar Fungicide

In addition to disease control and a potential yield response benefit, your corn crop may realize additional benefits from a fungicide application.

Stronger Stalks

In a Syngenta trial, 2,000 stalks were evaluated for stalk firmness comparing an untreated check and a Quilt Xcel application (see graph below). Stalks that did not collapse when pinched at the first internode above the brace roots were classified as “firm,” indicating good stalk strength. The graph indicates that utilizing Quilt Xcel can:

- Significantly improve stalk integrity
- Reduce stalk lodging
- Decrease harvest losses
- Reduce harvest time

Yield Response Potential

Using trial data from 160 locations with Quilt Xcel® fungicide applied at 10.5 fl oz/A-(testing up to 2015) or Trivapro® fungicide (2016-2017 testing) at the R1* growth stage, Syngenta used the following system to rate the yield response potential of each of our hybrids:

- Each individual hybrid’s yield response was compared to the average yield response from all hybrids in the trials
- Resulting individual hybrid responses are grouped into one of four response potential categories: **BEST, GOOD, FAIR, POOR**

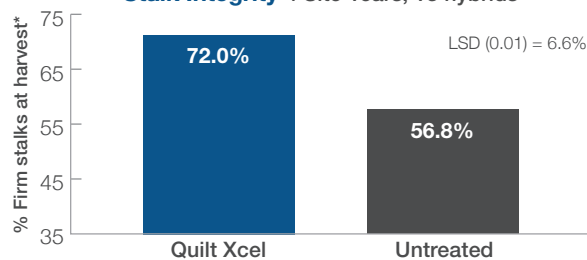
* Trivapro at 13.7 fl.oz/A

Key Management Considerations

To help make a decision on a corn fungicide application, consider the following management-related questions. If you answer yes to any of these questions, the benefits of applying a fungicide may increase.

- Was the field in corn last year?
- Is the field a high yield environment with high plant populations?

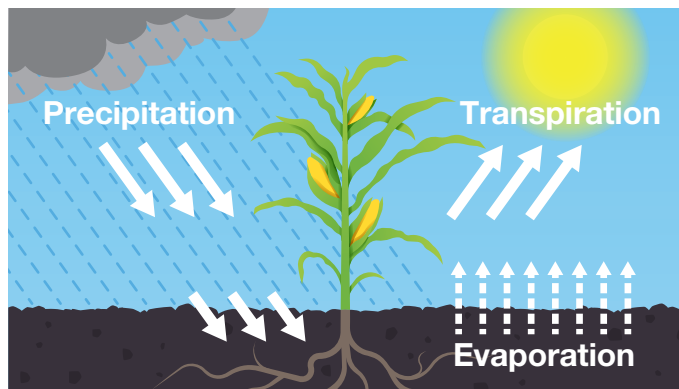
Influence of Quilt Xcel on Late Season Stalk Integrity 4 Site Years, 13 hybrids



*Percent firm stalks at harvest determined from the sum of stalks collapsing when pinched at the first internode above the brace roots.

Stress Management and Water Optimization

- Water optimization effects have been observed in trials when Quilt Xcel was applied:
 - In periods of too little water, water loss is slowed, helping corn better tolerate periods of dry weather through increased water use efficiency and conserved soil moisture
 - In periods of too much water, Quilt Xcel helps corn withstand moisture stress with broad-spectrum disease control and stronger, deeper root systems for improved nutrient uptake
- Quilt Xcel helps plants stay green longer, allowing longer periods of photosynthesis for more plant growth and extended grain fill time



Select best suited hybrid for each field based on adaptability, agronomics and relative maturity and use this hybrid yield response potential chart to provide additional information for your management needs.

NK® Corn Hybrid Response to Quilt Xcel or Trivapro Fungicide*					
NK Hybrid Series	Relative Maturity (RM)	Yield Response Potential	NK Hybrid Series	Relative Maturity (RM)	Yield Response Potential
NK7706	77	Good	NK0641	106	Fair
NK7837	78	Good	NK0650	106	Good
NK7968	79	Good	NK0659	106	Best
NK8204	82	Good	NK0730	107	Fair
NK8455	84	Good	NK0760	107	Fair
NK8519	85	Good	NK0929	109	Fair
NK8575	85	Good	NK0944	109	Best
NK8618	86	Good	NK0962	109	Good
NK8874	88	Good	NK0968	109	Fair
NK9227	92	Good	NK1022	110	Good
NK9292	92	Best	NK1066	110	Good
NK9454	94	Fair	NK1094	110	Best
NK9499	94	Good	NK1103	111	Good
NK9535	95	Good	NK1120	111	Good
NK9659	96	Best	NK1263	112	Good
NK9738	97	Good	NK1284	112	Good
NK9760	97	Best	NK1325	113	Good
NK9813	98	Best	NK1364	113	Best
NK9870	98	Good	NK1378	113	Fair
NK9941	99	Good	NK1410	114	Good
NK0142	101	Best	NK1418	114	Good
NK0187	101	Fair	NK1433	114	Good
NK0199	101	Best	NK1452	114	Fair
NK0281	102	Good	NK1511	115	Poor
NK0327	103	Best	NK1573	115	Good
NK0330	103	Best	NK1584	115	Best
NK0358	103	Good	NK1642	116	Fair
NK0388	103	Good	NK1694	116	Fair
NK0519	105	Good	NK1808	118	Fair
NK0576	105	Good	NK1822	118	Good

Yield Response Potential Chart Key: Best Good Fair Poor

*Response determination based on Syngenta agronomy observations

For more information about NK Corn hybrids, contact your retailer or visit www.nk-us.com



Product performance assumes disease presence.

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