



syngenta®

Corn Foliar Fungicide Response

Hybrid Response to Foliar Corn Fungicides

Syngenta is committed to sharing 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 187 locations with Quilt Xcel® fungicide applied at 10.5 fl oz/A-(testing up to 2015) or Trivapro® fungicide (2016-2018 testing) at the R1* growth stage, Syngenta used the following system to rate the yield response potential of each of our hybrids:

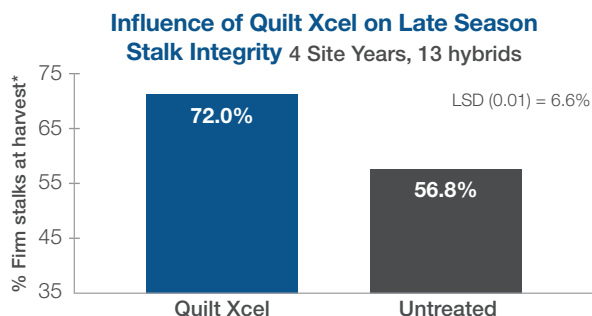
- Each individual hybrid’s yield response was compared to the average yield response from all hybrids in the trials
- Resulting individual hybrid responses are grouped into one of four response potential categories: **BEST, GOOD, FAIR, POOR**

* 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?



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

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

Decision Process for Fungicide Application

1. Select best suited hybrid for field based on adaptability, agronomics and relative maturity.
2. Determine disease risk potential of field and use appropriate decision tool.

Low Disease Risk

- Utilize “Low Disease Fungicide Response ratings” to understand which hybrids have the best chance of responding in these conditions.
- Best or Good indicates the hybrid responded more often and at a greater magnitude.
- Fair or Poor indicates responses may be smaller and less consistent.

High Disease Risk

- Utilize hybrid diseases susceptibility ratings specific to disease of concern from chart below to understand which hybrids are more vulnerable to yield loss.
- Scout fields and apply timely fungicide at sight of symptoms, focusing on most susceptible hybrids at first.

NK Hybrid Series	RM	Low Disease Risk Fungicide Response	High Disease Risk			
			GLS	NCLB	SCLB	ES
NK7837	78	Good	-	-	-	-
NK8005	80	Best	-	-	-	3
NK8204	82	Good	-	-	-	4
NK8455	84	Good	-	-	-	3
NK8519	85	Good	-	-	-	4
NK8618	86	Good	-	-	-	3
NK8881	88	Best	-	-	-	3
NK8920	89	Fair	-	-	-	3
NK9175	91	Good	-	-	-	3
NK9227	92	Fair	-	-	-	-
NK9468	94	Good	-	-	-	3
NK9535	95	Good	4	4	-	2
NK9610	96	Good	-	-	-	3
NK9653	96	Good	-	-	-	3
NK9738	97	Good	4	4	-	-
NK9813	98	Best	5	5	-	5
NK9991	99	Good	2	2	-	3
NK9930	99	Fair	3	3	-	3
NK0199	101	Best	4	4	-	3
NK0243	102	Good	3	3	-	3
NK0281	102	Good	3	3	-	4
NK0330	103	Best	4	4	3	3
NK0440	104	Good	4	4	4	2
NK0472	104	Best	4	4	-	3
NK0602	106	Good	4	4	4	2
NK0624	106	Fair	5	5	3	5
NK0760	107	Fair	3	3	5	4
NK0821	108	Best	4	4	6	4
NK0886	108	Good	3	3	4	4
NK0962	109	Good	5	5	4	3
NK0968	109	Fair	3	3	4	5
NK0944	109	Best	5	5	5	3
NK1066	110	Good	3	3	4	5
NK1082	110	Good	4	4	4	3
NK1026	110	Fair	2	2	-	-
NK1103	111	Fair	4	4	4	2
NK1188	111	Good	4	4	6	-
NK1263	112	Good	3	3	3	4
NK1205	112	Best	4	4	5	3
NK1239	112	Fair	3	3	6	-
NK1284	112	Good	4	4	4	4
NK1354	113	Good	4	4	4	4
NK1364	113	Best	6	6	2	6
NK1389	113	Best	6	6	3	-
NK1405	114	Best	6	6	3	5
NK1452	114	Fair	5	5	4	3
NK1460	114	Best	4	4	4	3
NK1433	114	Good	4	4	4	4
NK1523	115	Best	4	4	3	-
NK1573	115	Best	3	3	3	3
NK1694	116	Fair	5	5	3	5
NK1860	118	Fair	6	6	5	5
NK1808	118	Fair	3	3	3	5
NK1822	118	Good	6	6	5	-

Hybrid Response Ratings: Best Good Fair Poor

Disease Resistance Rating Scale: 1-2 - Highly Resistant; 3-4 = Resistant; 5-6 Moderately Resistant; 7-8 = Moderately Susceptible; 9 = Susceptible; - = No data available; ES = Eyespot; NCLB = Northern Leaf Blight; SCLB = Southern Leaf Blight; GLS = Gray Leaf Spot



Product performance assumes disease presence.

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