



2012 Foliar Fungicide Product Comparison on Corn

South Central Agriculture Laboratory
Clay Center, NE

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2012 Diseases

Although at very low severity, gray leaf spot was the predominant foliar disease during the growing season at this location. Gray leaf spot severity level was $< 1\%$ in the non-treated control.



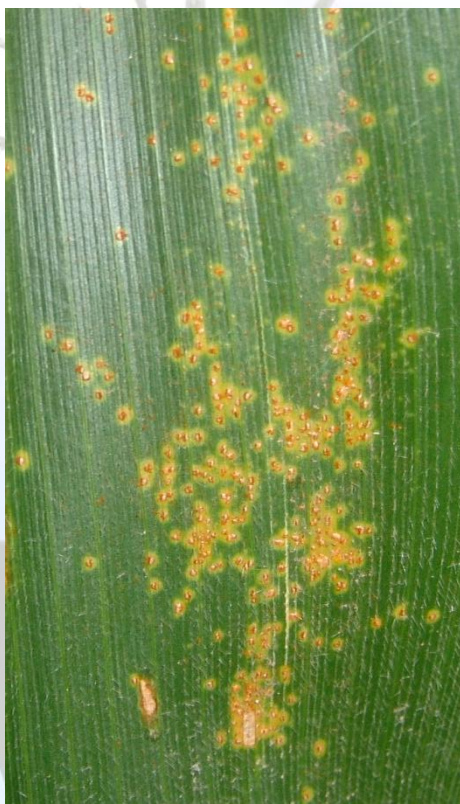
2012 Diseases

Common rust was the foliar disease first observed in this trial & was initially seen in late June. Disease severity was very low at this location and did not exceed trace amounts ($\leq 0.1\%$) for any treatment.



2012 Diseases

Southern rust was present and was first identified in this trial on August 2nd. This disease was observed in trace amounts ($\leq 0.2\%$).



2012 Diseases

Eyespot, common smut, and Physoderma brown spot were observed sparsely in this trial, thus not justifying ratings for these diseases at this location in 2012.



2012 Foliar Fungicide Trials



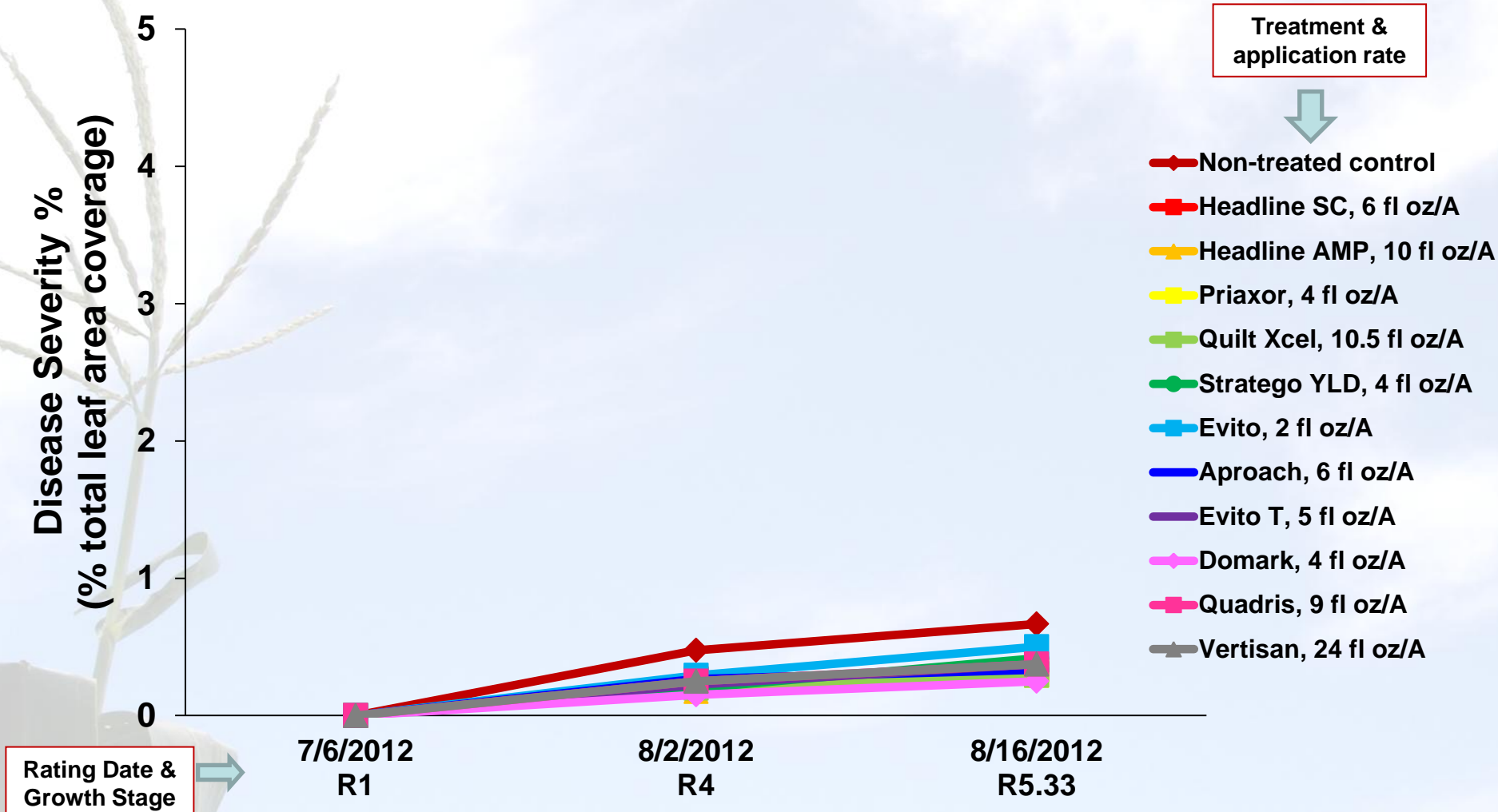
- Last year's crop was soybean
- Planting date: 4/26/12
- Target plant population of 30,600 plants/A
- Corn hybrid: DKC 64-83 (GLS rating 6/9, "good", CR rating 4/9, "very good", & SR rating 5/9, "good")
- Eleven foliar fungicide treatments and a non-treated control replicated six times
 - NIS added at 0.25% v/v
- High clearance sprayer used at 20 gpa at 40 psi
- Alley width & row spacing = 30 inches
- Overhead sprinkler irrigated



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2012 Fungicide Product Comparison Trial in NE

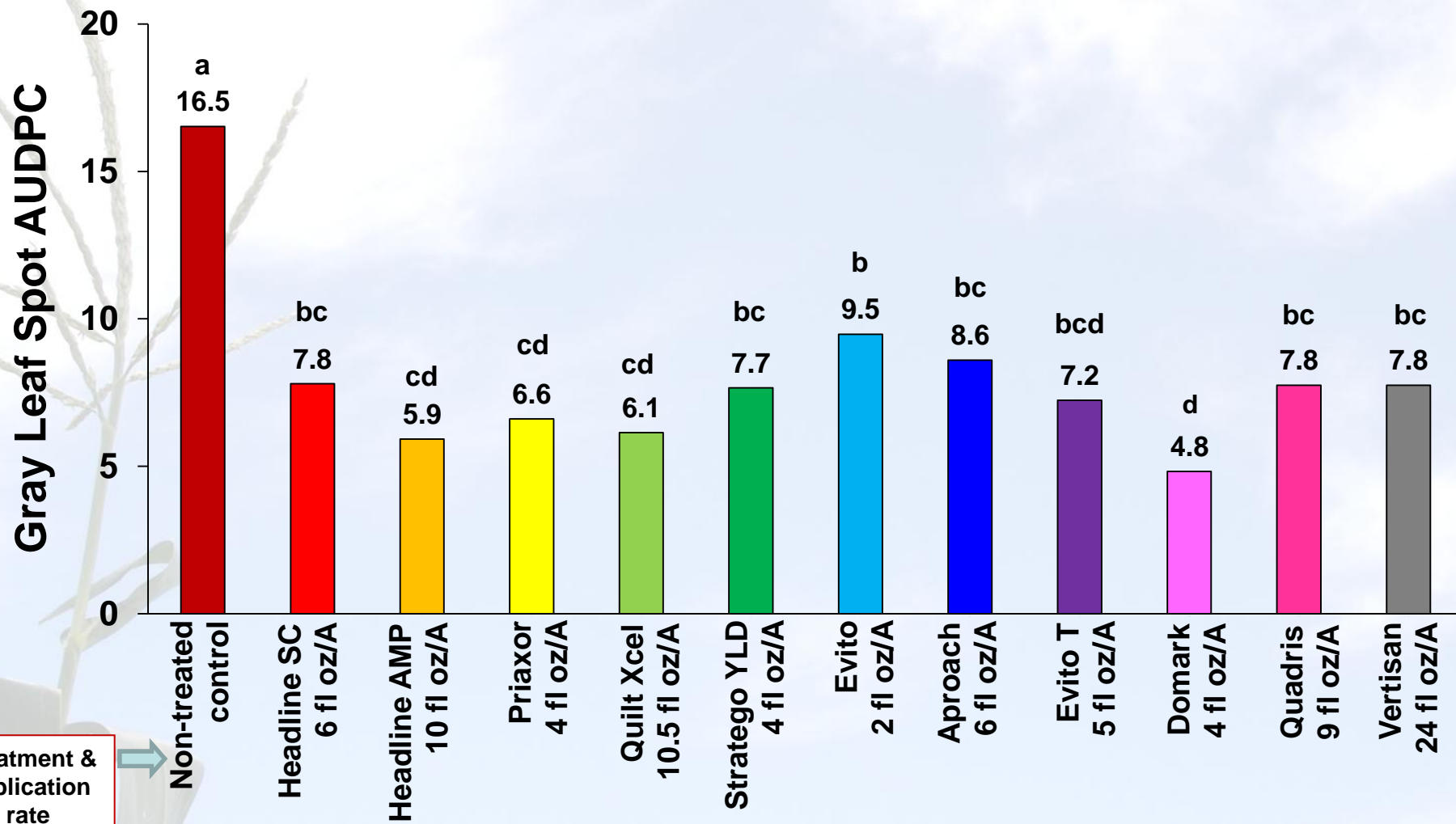
Gray leaf spot disease severity (%)



- Foliar fungicide application was made July 5th at silking (R1).
- NIS added to each fungicide treatment at 0.25% v/v.

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Area Under the Disease Progress Curve (AUDPC) for gray leaf spot

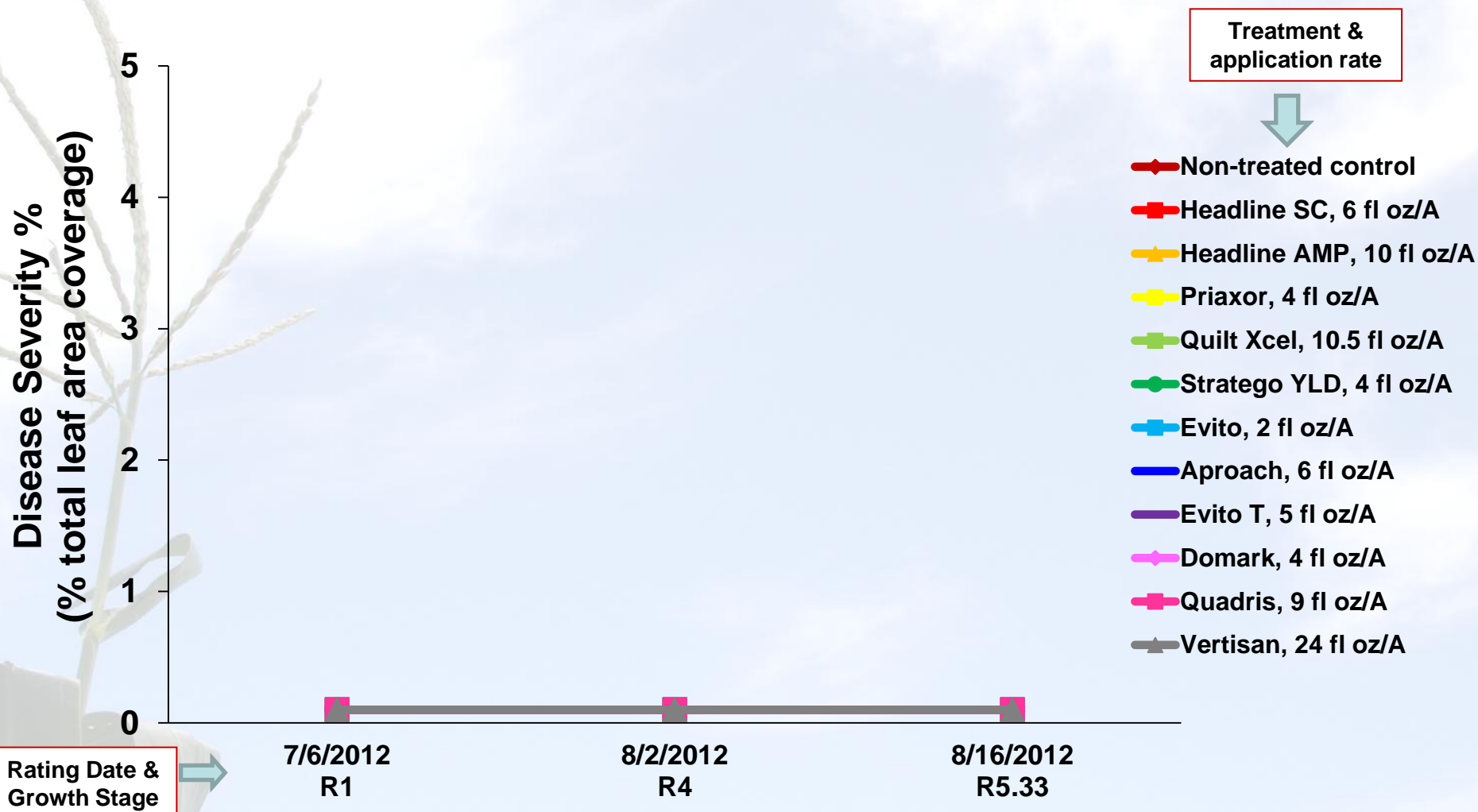


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 30.6%.

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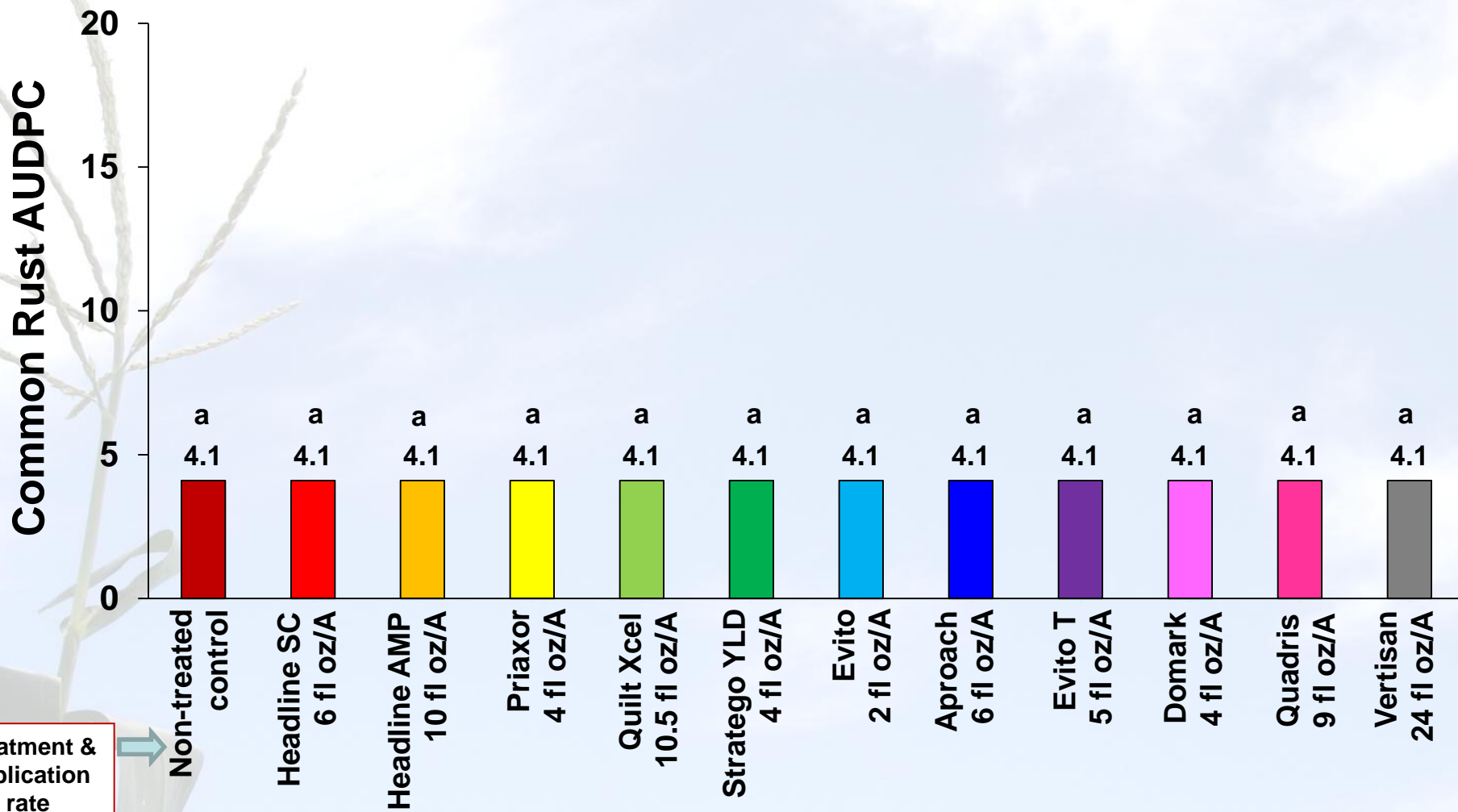
Common rust disease severity (%)



- Foliar fungicide application was made July 5th at silking (R1).
- NIS added to each fungicide treatment at 0.25% v/v.

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Area Under the Disease Progress Curve (AUDPC) for common rust

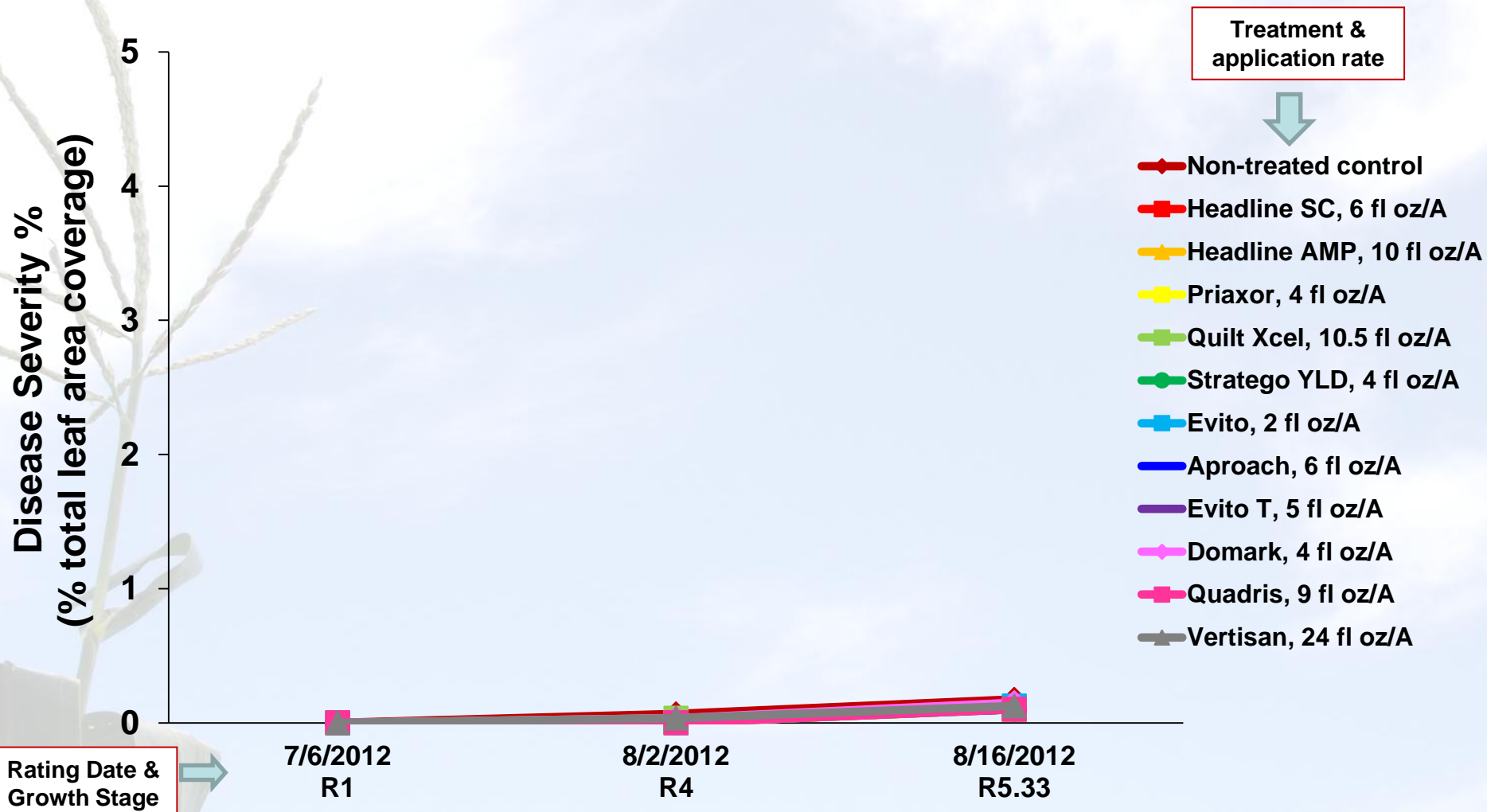


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 0%.

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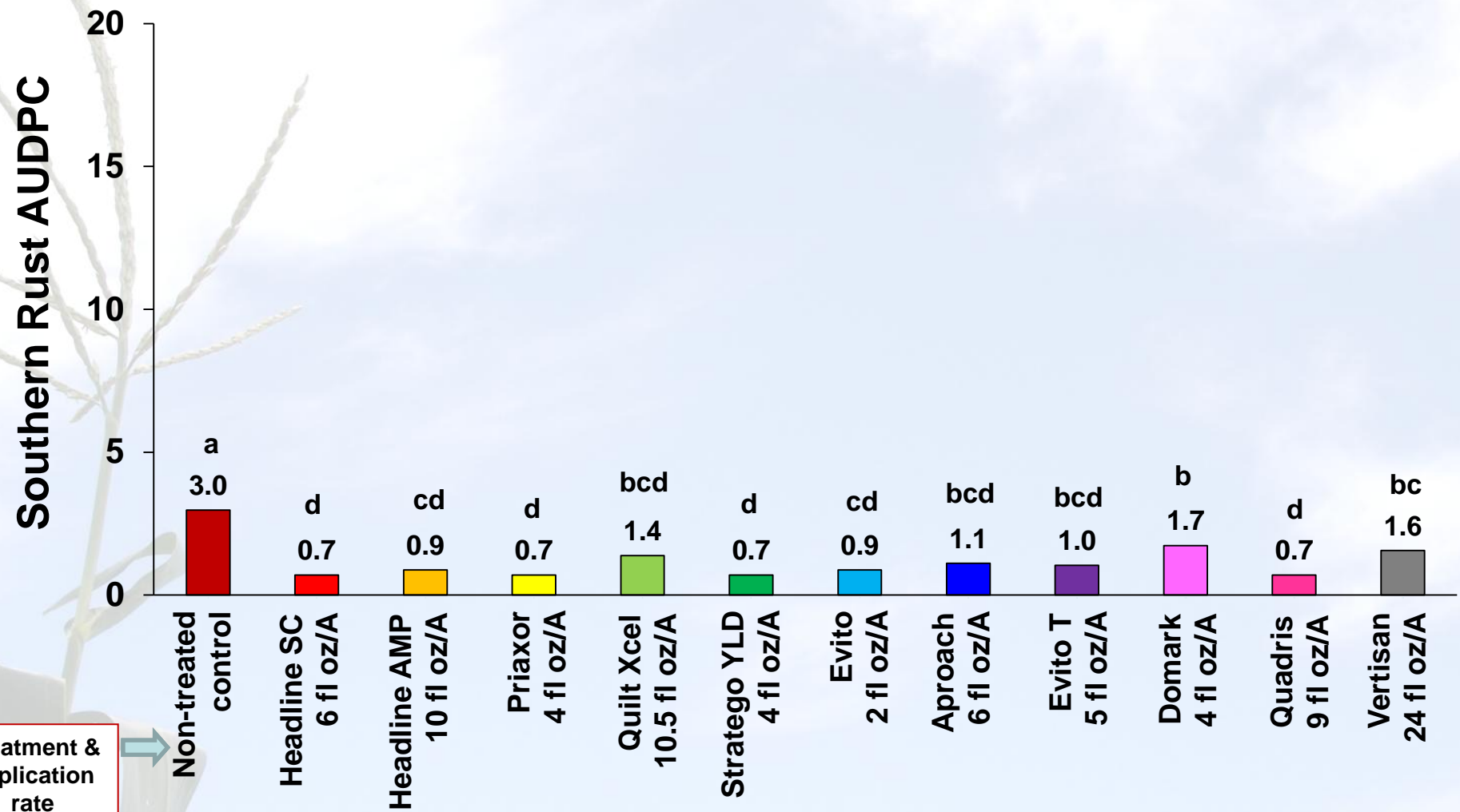
Southern rust disease severity (%)



- Foliar fungicide application was made July 5th at silking (R1).
- NIS added to each fungicide treatment at 0.25% v/v.

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Area Under the Disease Progress Curve (AUDPC) for southern rust



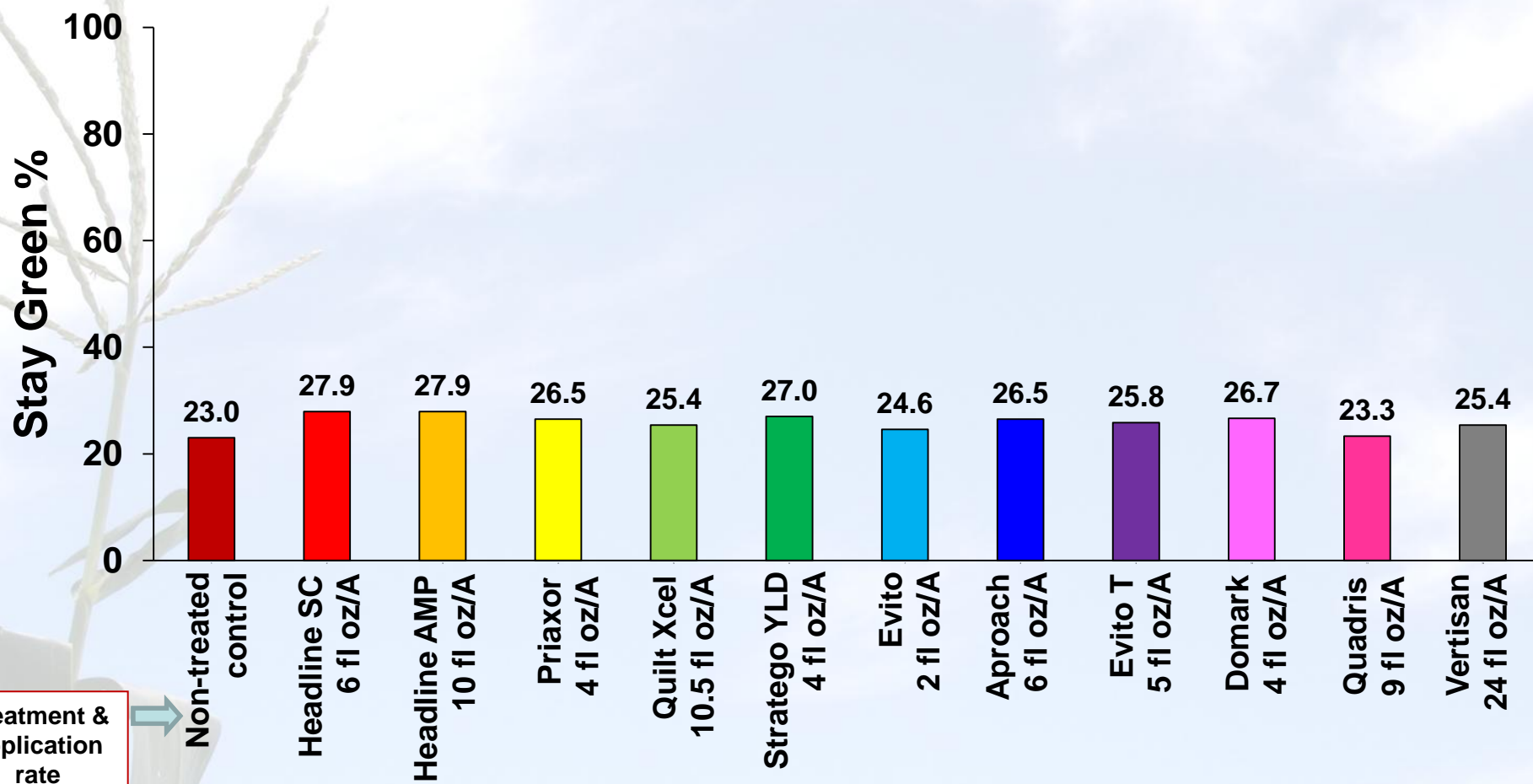
* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 57.5%.

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Stay green % assessed on September 4th, 2012

Kernel dent stage (R5.8)

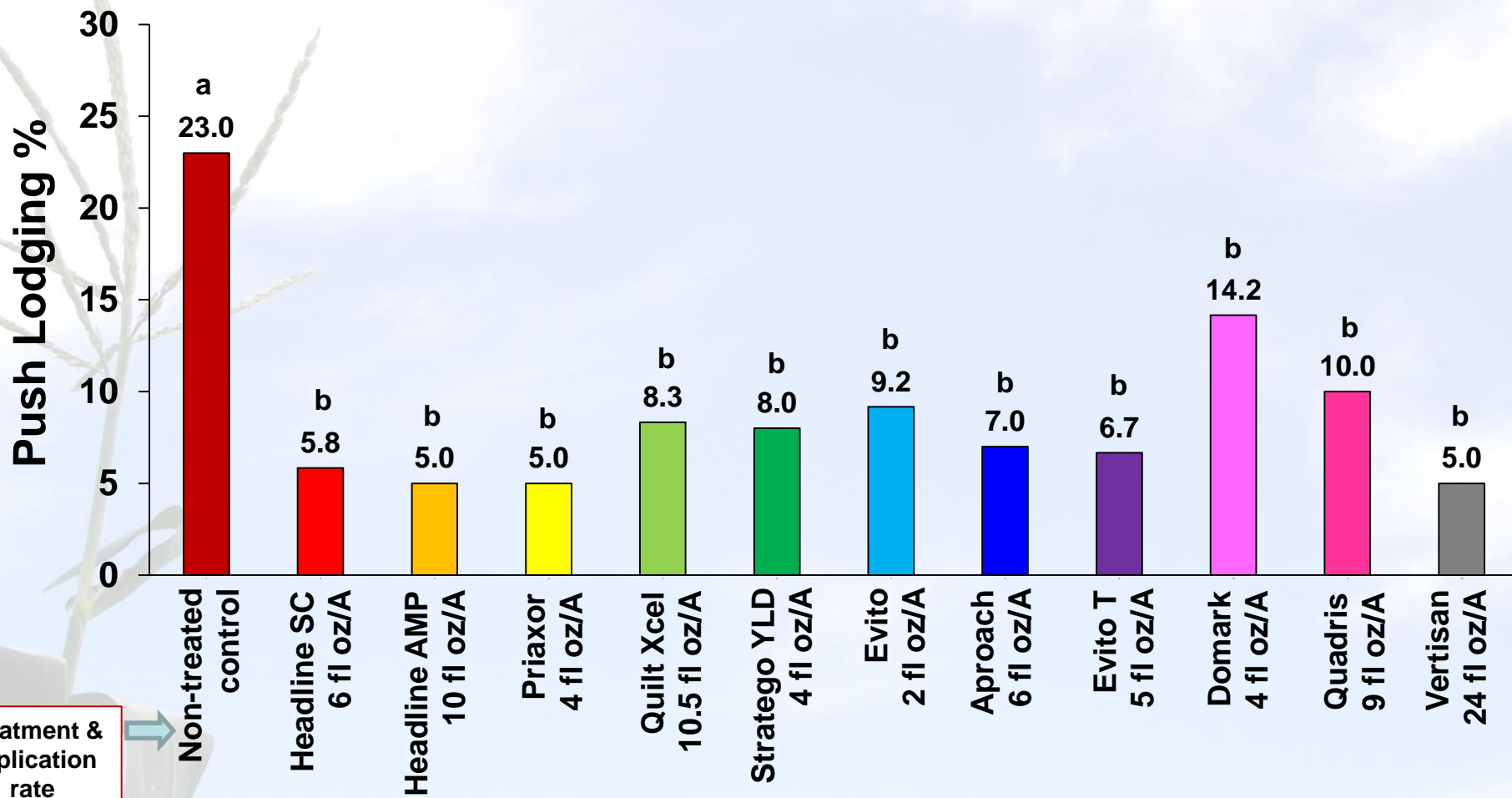


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 14.3%.

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Push lodging % assessed on September 25th, 2012
Physiological maturity stage (R6)

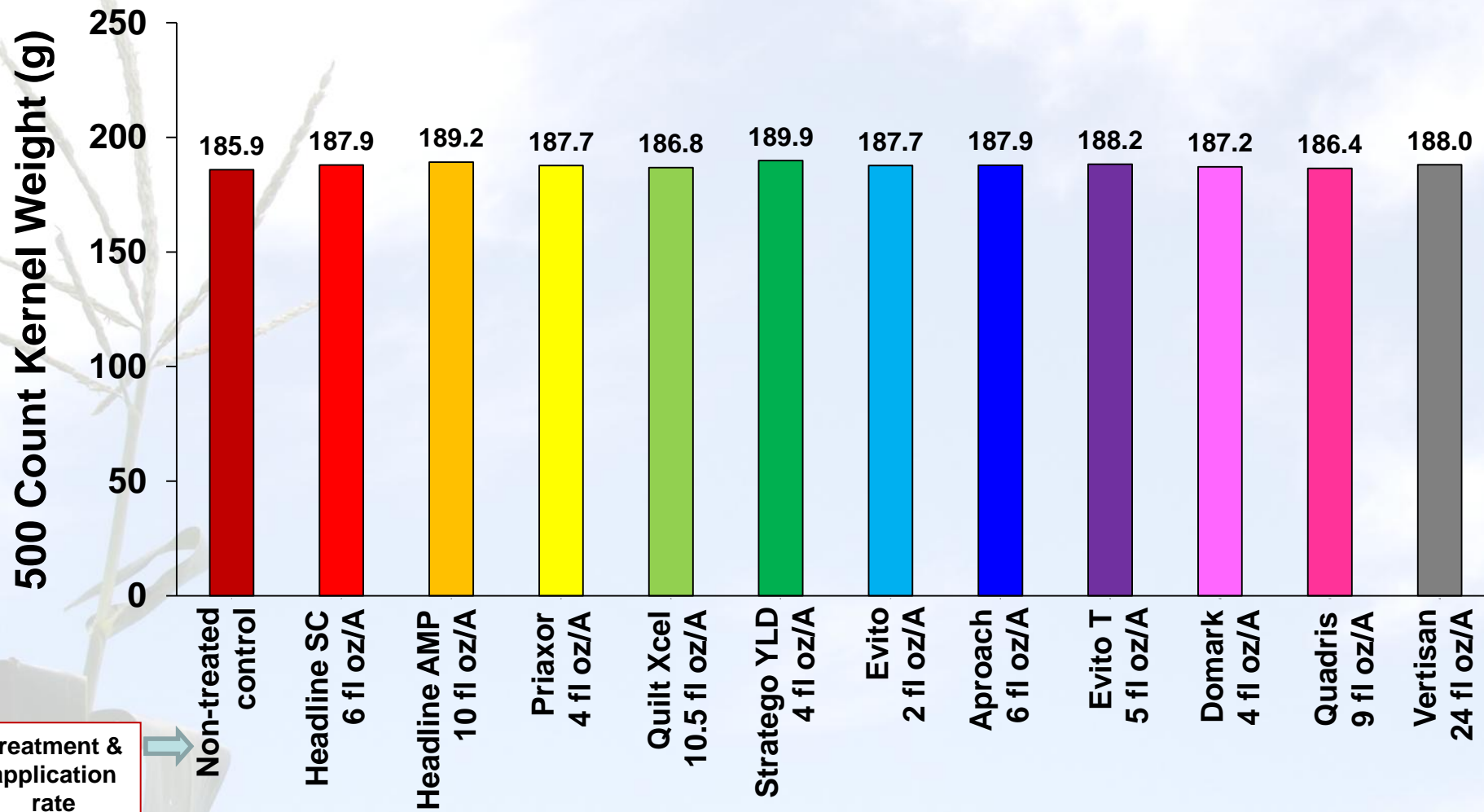


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 78.8%.

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500 count kernel weight (g)

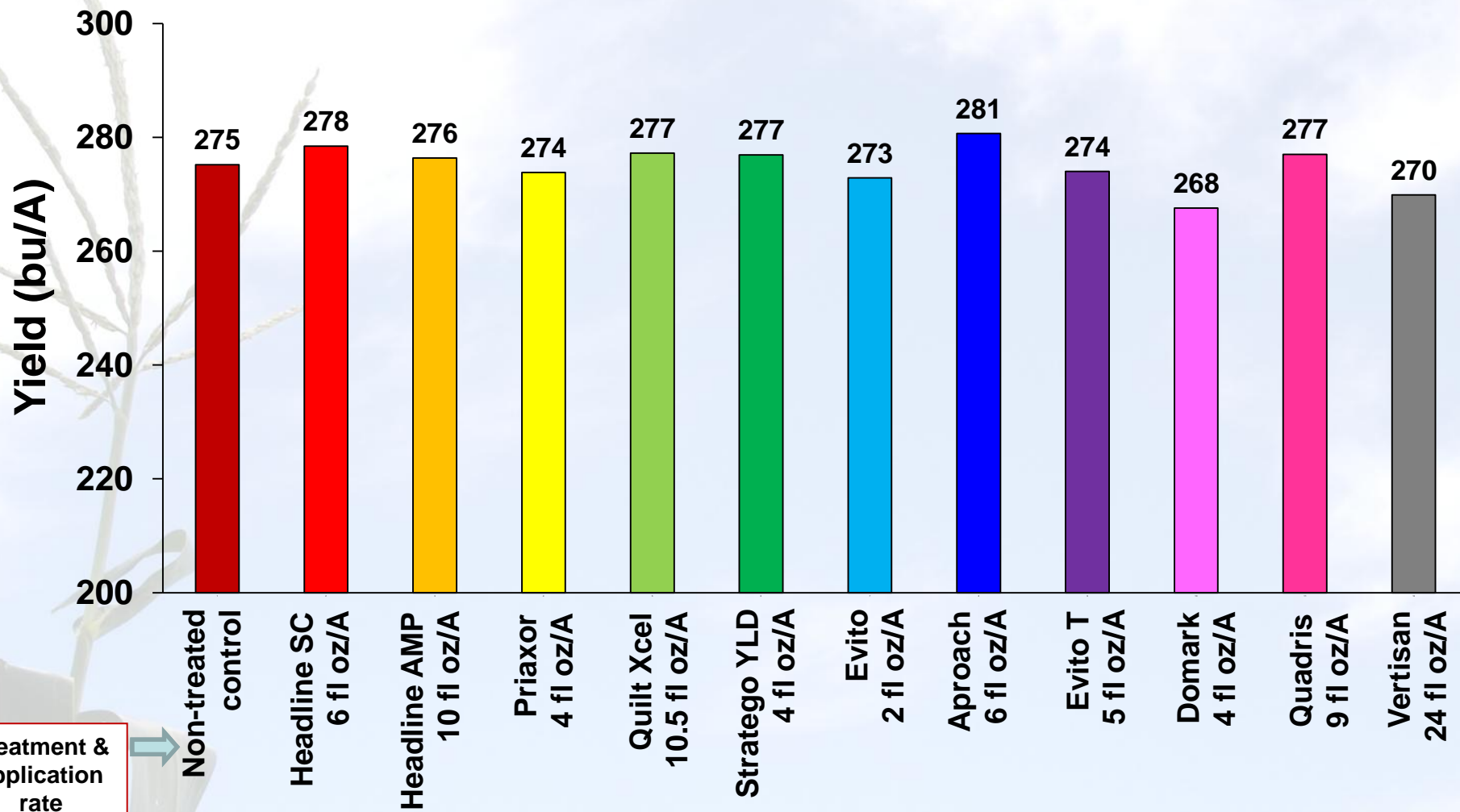


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 1.4%.

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Yield (bu/A) on September 28th, 2012

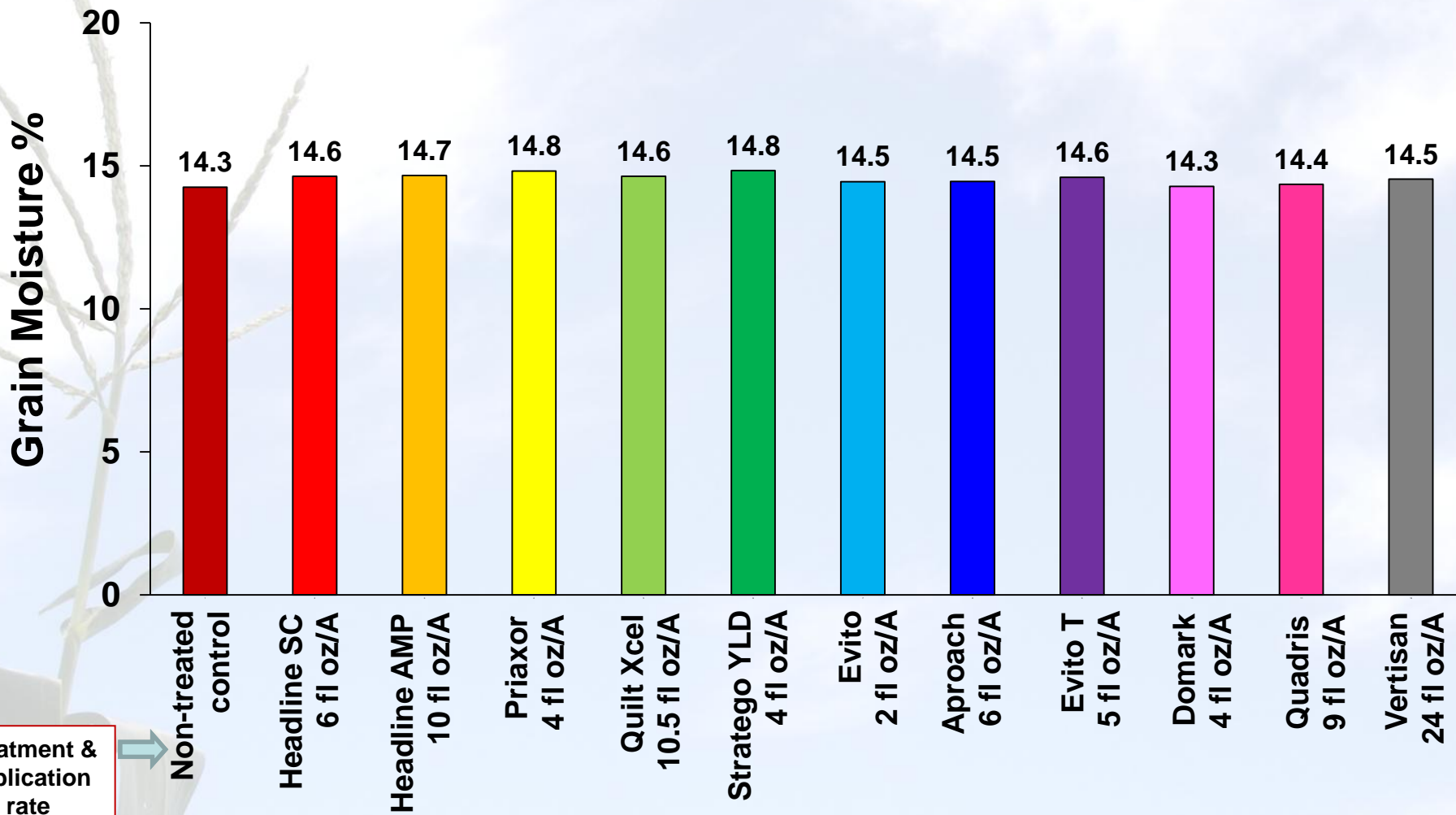


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 3.6%.

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Grain moisture % at harvest on September 28th, 2012



* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 2.5%.

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