



2011 Foliar Fungicide Product Comparison on Corn

South Central Ag Lab
Clay Center, NE

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2011 Diseases

Gray leaf spot was the predominant foliar disease during the growing season at this location. Gray leaf spot severity levels were very low (< 1.8%) and reached the ear leaf by early August.



2011 Diseases

Common rust was the foliar disease first observed in this trial & was initially seen in early July. Disease severity was very low at this location (<0.5%) due likely in part to the hybrid used having an “excellent” rating.



2011 Diseases

Southern rust was present and was first identified in this trial on August 24th. This disease was observed in trace amounts (<0.02%).



2011 Diseases

Eyespot, common smut, holcus spot and Physoderma brown spot were also present in this trial, but at very low incidence and severity levels, thus not justifying ratings for these diseases at this location in 2011.



2011 Foliar Fungicide Trials



2005-2006

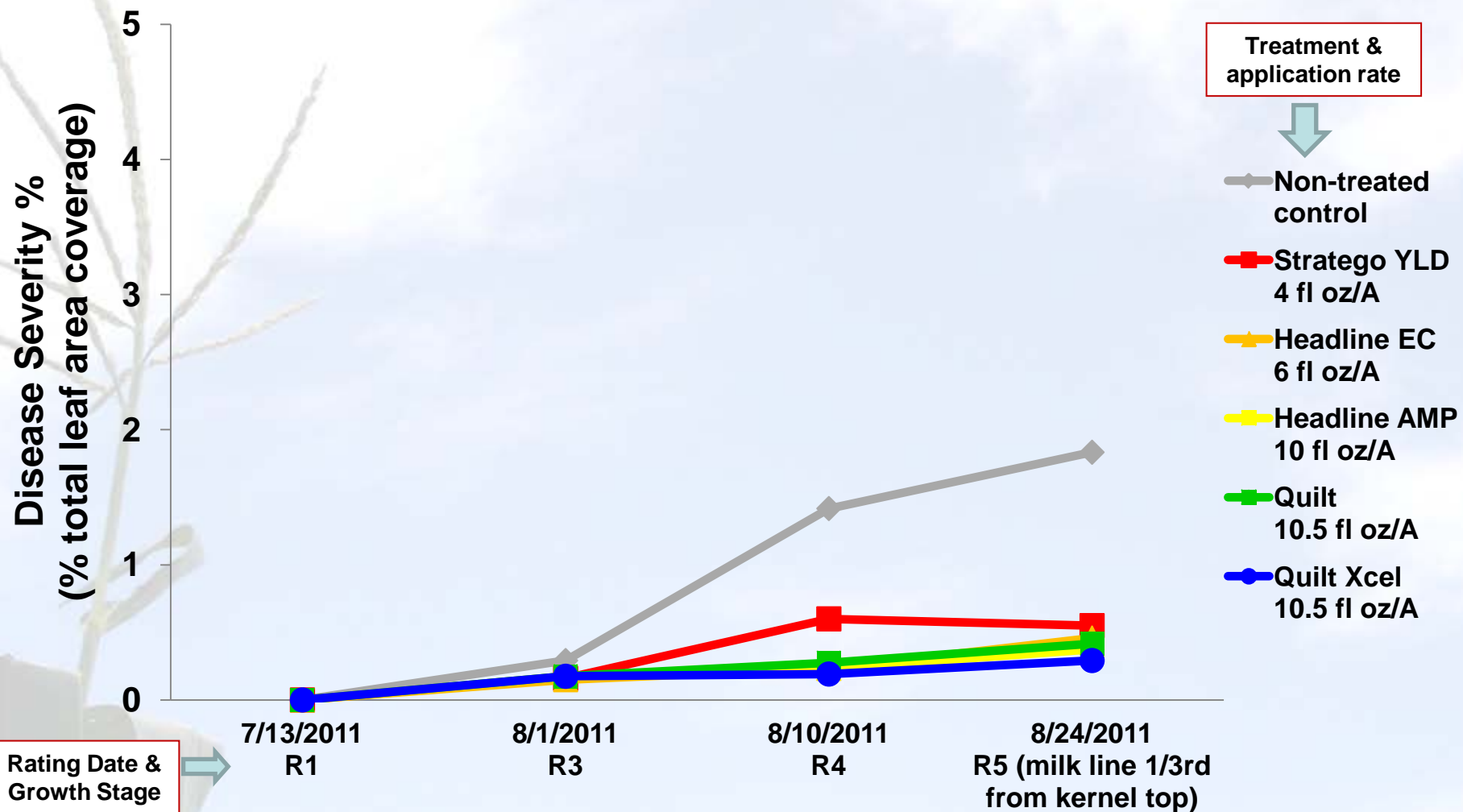


South Central Ag Lab, Clay Center, NE

- High clearance sprayer used
- Previous year's crop was soybean
- Corn hybrid: DKC 62-54 (GLS rating 6/9, "good" & CR rating 2/9, "excellent")
- Planting date: 5/3/11
- Target plant population of 32,000 plants/A
- Five foliar fungicide treatments plus a non-treated control
 - NIS added at 0.25% v/v
- Alley width & row spacing = 30 inches
- Overhead sprinkler irrigated
- 6 reps, 20 gpa at 40 psi

2011 Fungicide Product Comparison Trial in NE

Gray leaf spot disease severity (%)

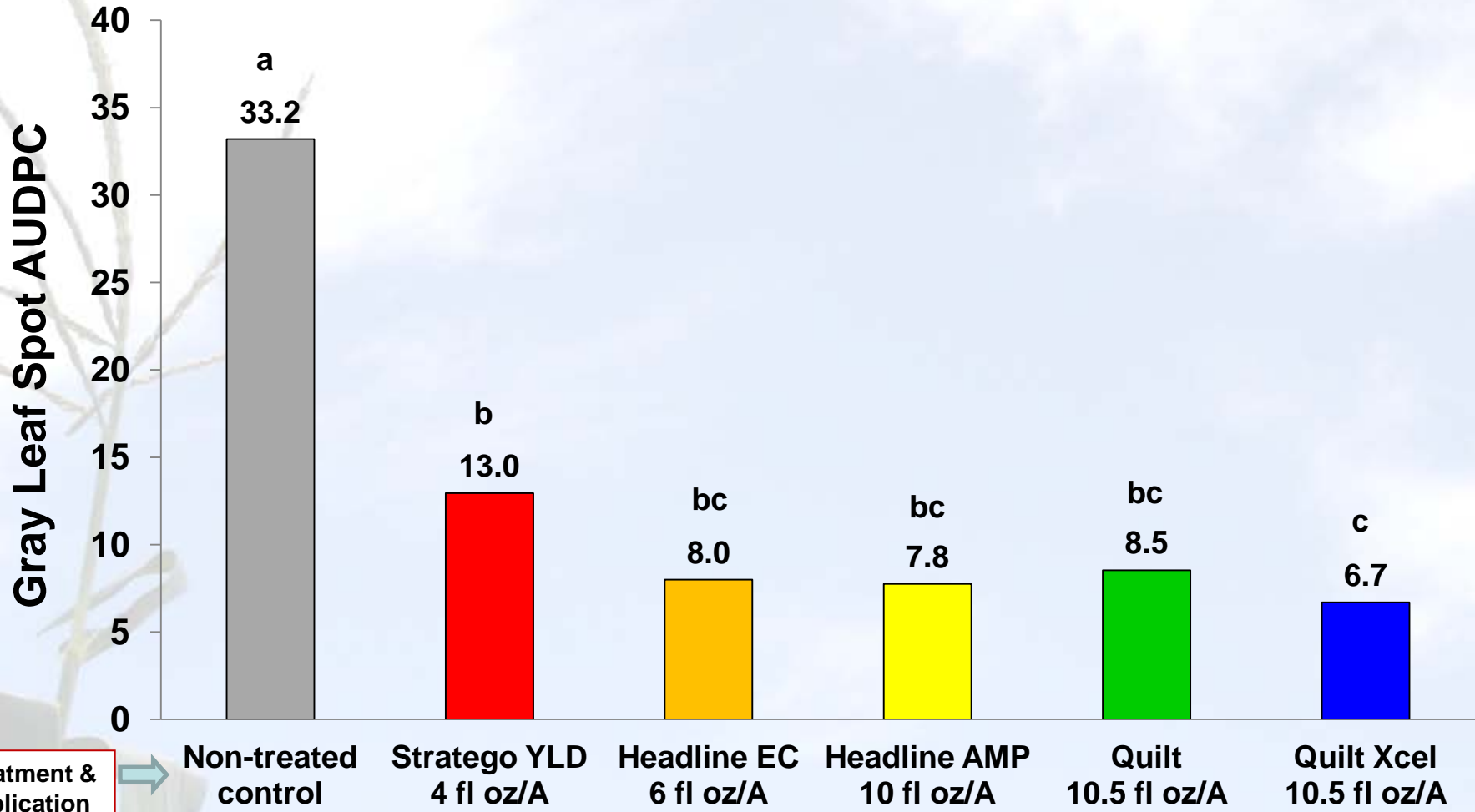


* Foliar fungicide applications made at silking (R1).

* 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

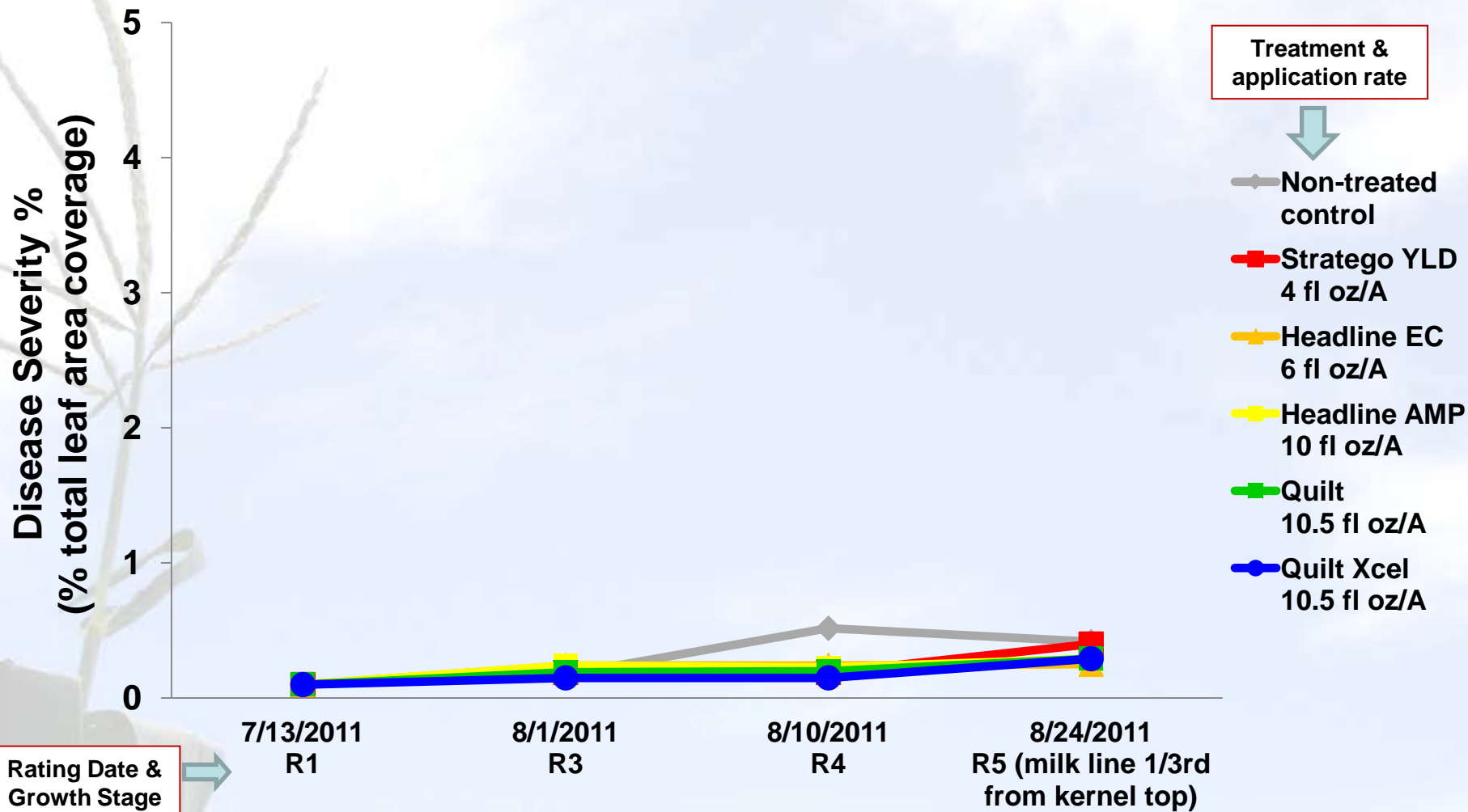


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 41.8%.

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Common rust disease severity (%)

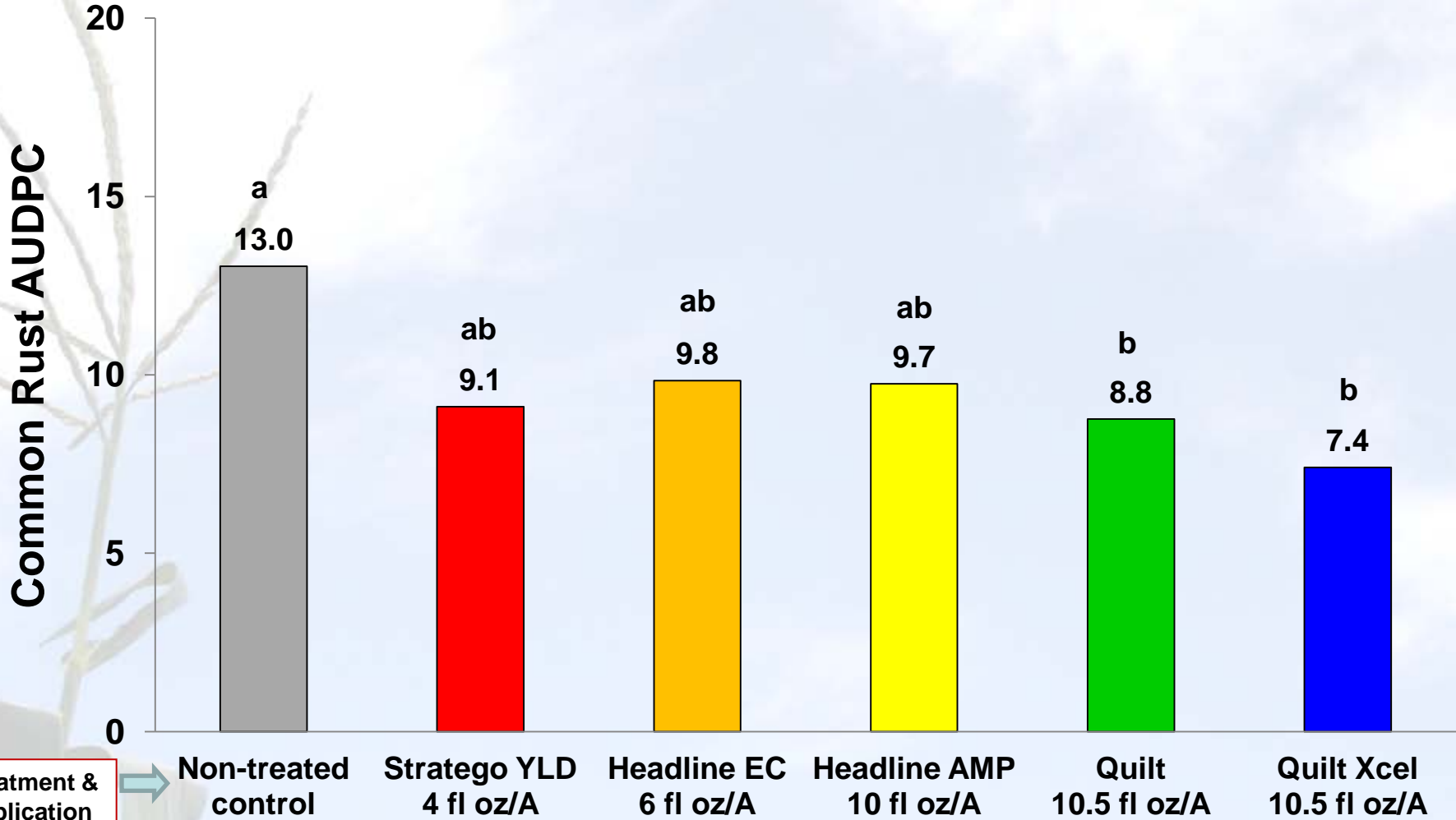


* Foliar fungicide applications made at silking (R1).

* 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

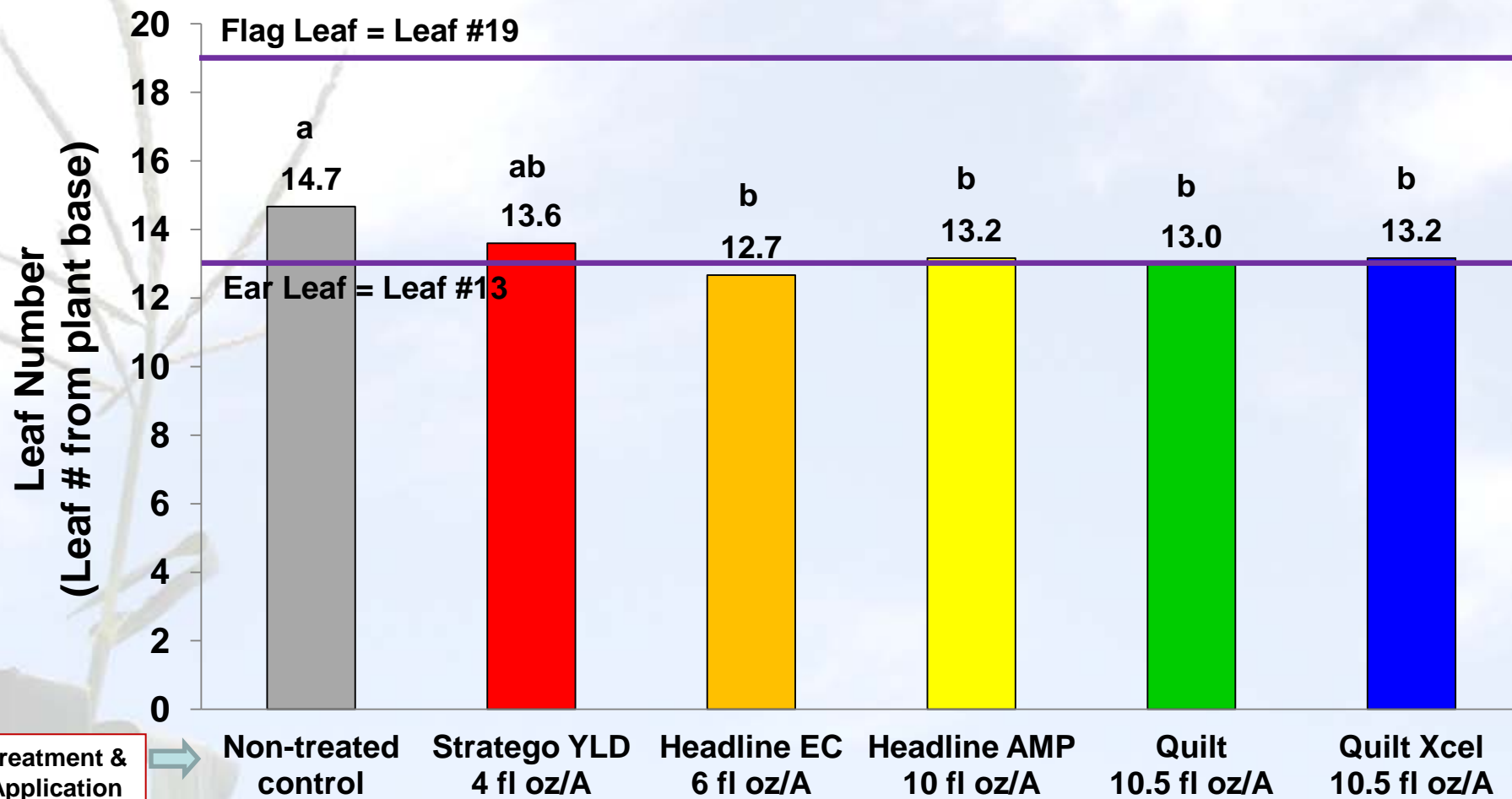


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 32.2%.

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Gray leaf spot progression up the plant (Ear leaf = Leaf #13, Flag leaf = Leaf #19)
August 10th, 2011 rating date (kernel dough stage, R4)

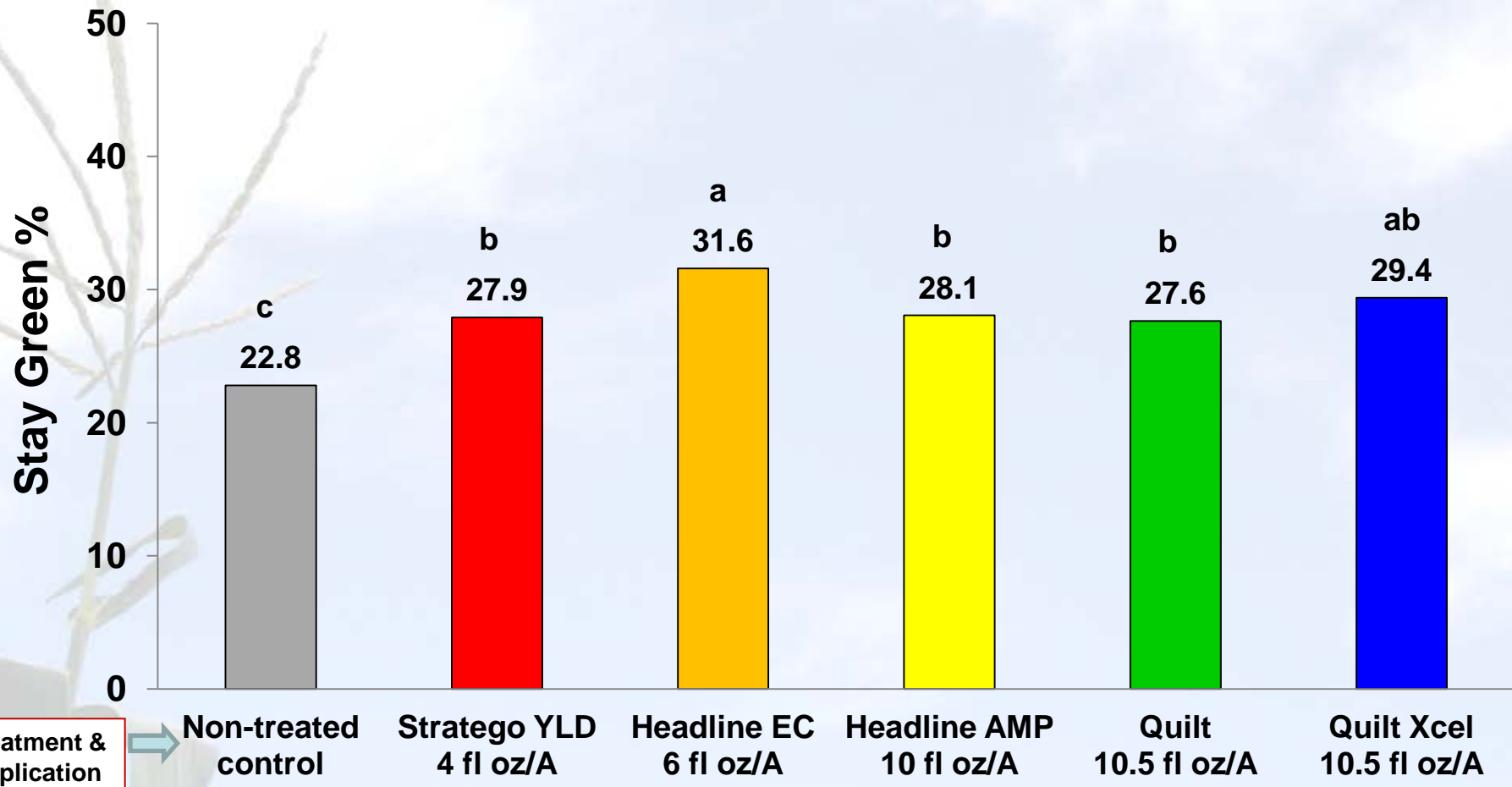


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 7.5%.

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Stay green % assessed on September 19th, 2011
Kernel dent stage (R5, milk line 2/3rd from kernel top)

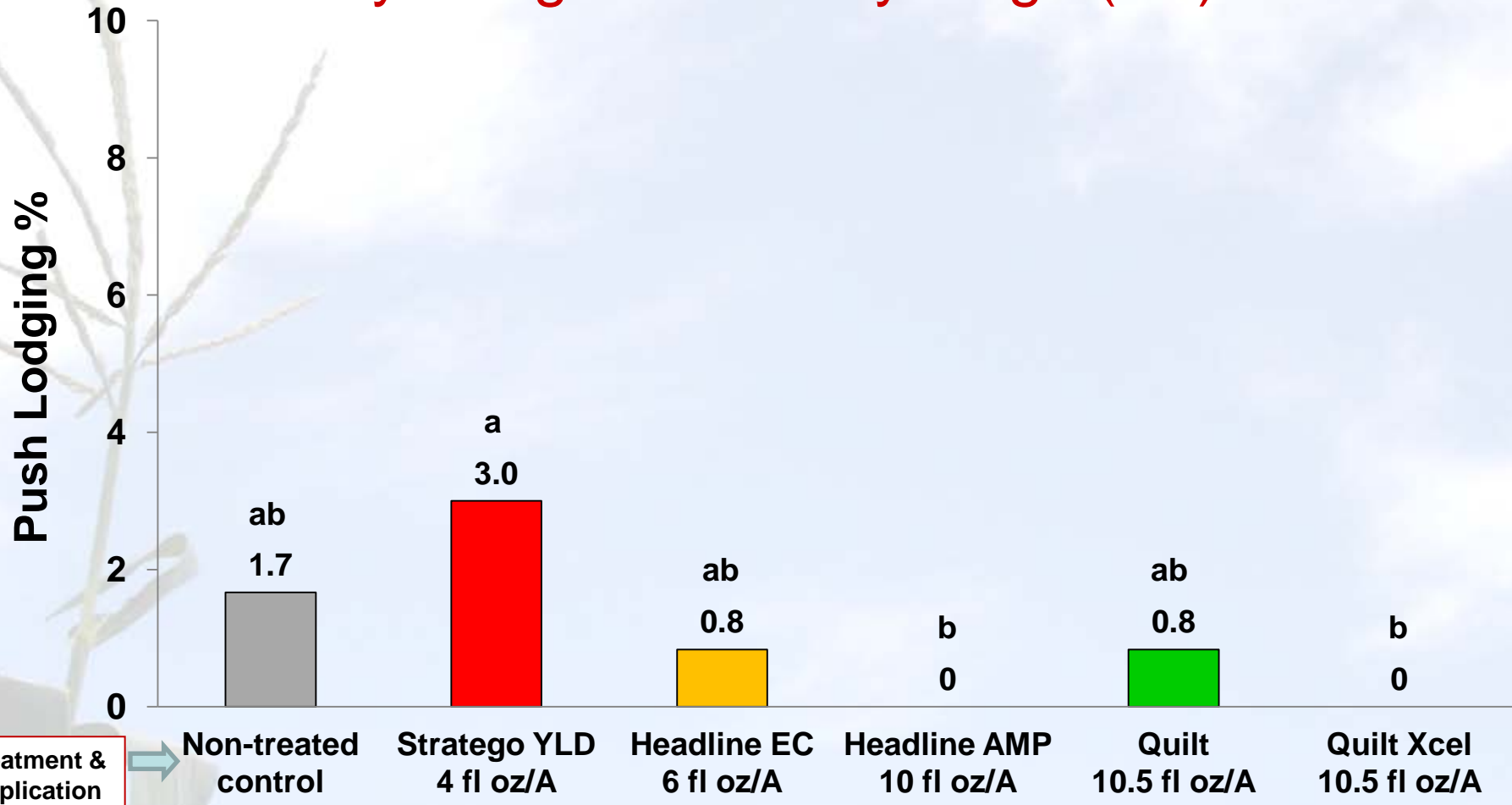


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Treatments with different letters are statistically different. Coefficient of variation is 7.9%.

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Push lodging % assessed on October 7th, 2011
Physiological maturity stage (R6)

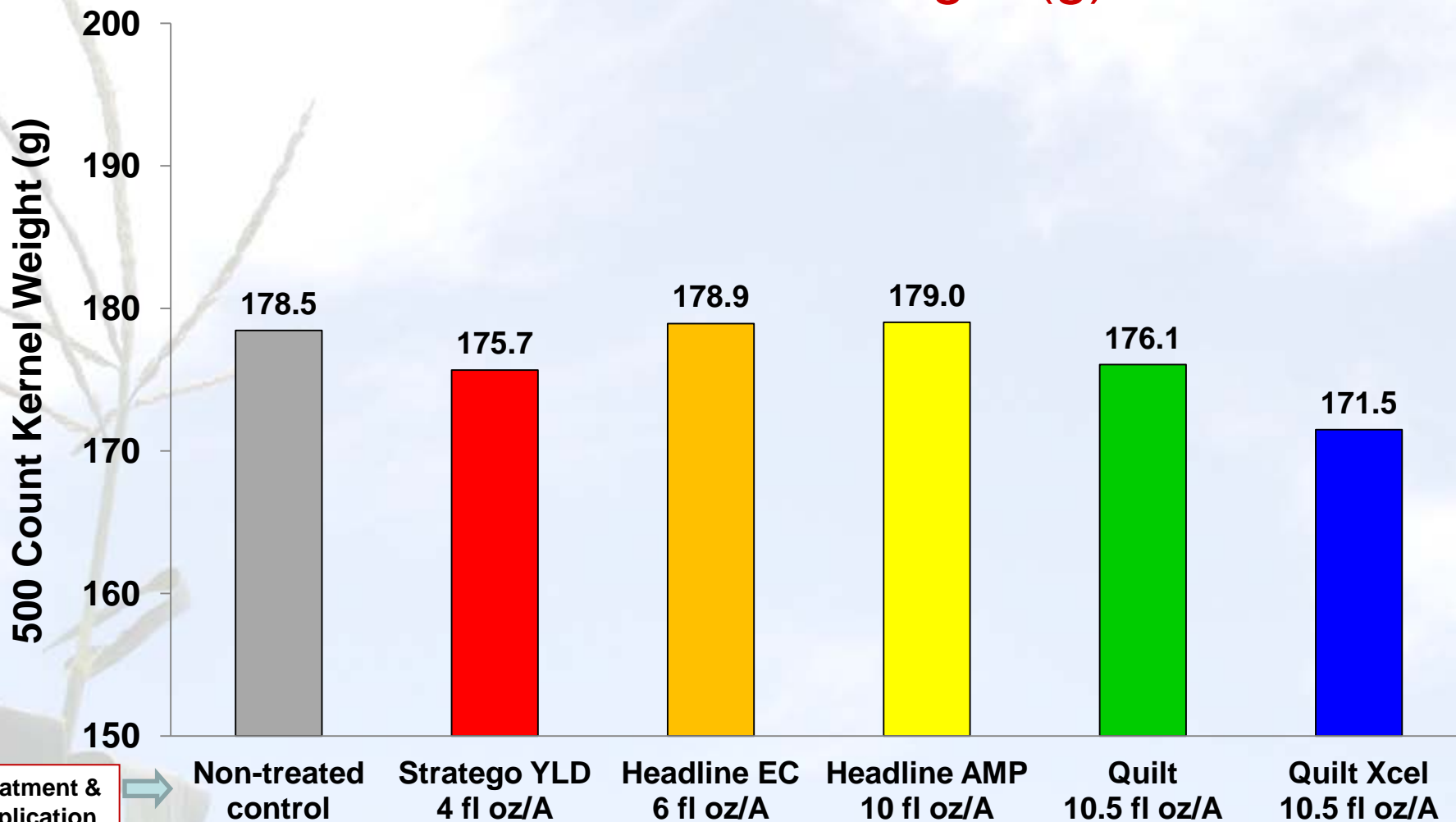


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* Assessment defined as the percentage of 20 stalks lodged below the ear node and do not return to a standing position after being pushed to arms length. Treatments with different letters are statistically different. Coefficient of variation is 192.6%.

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500 count kernel weight (g)

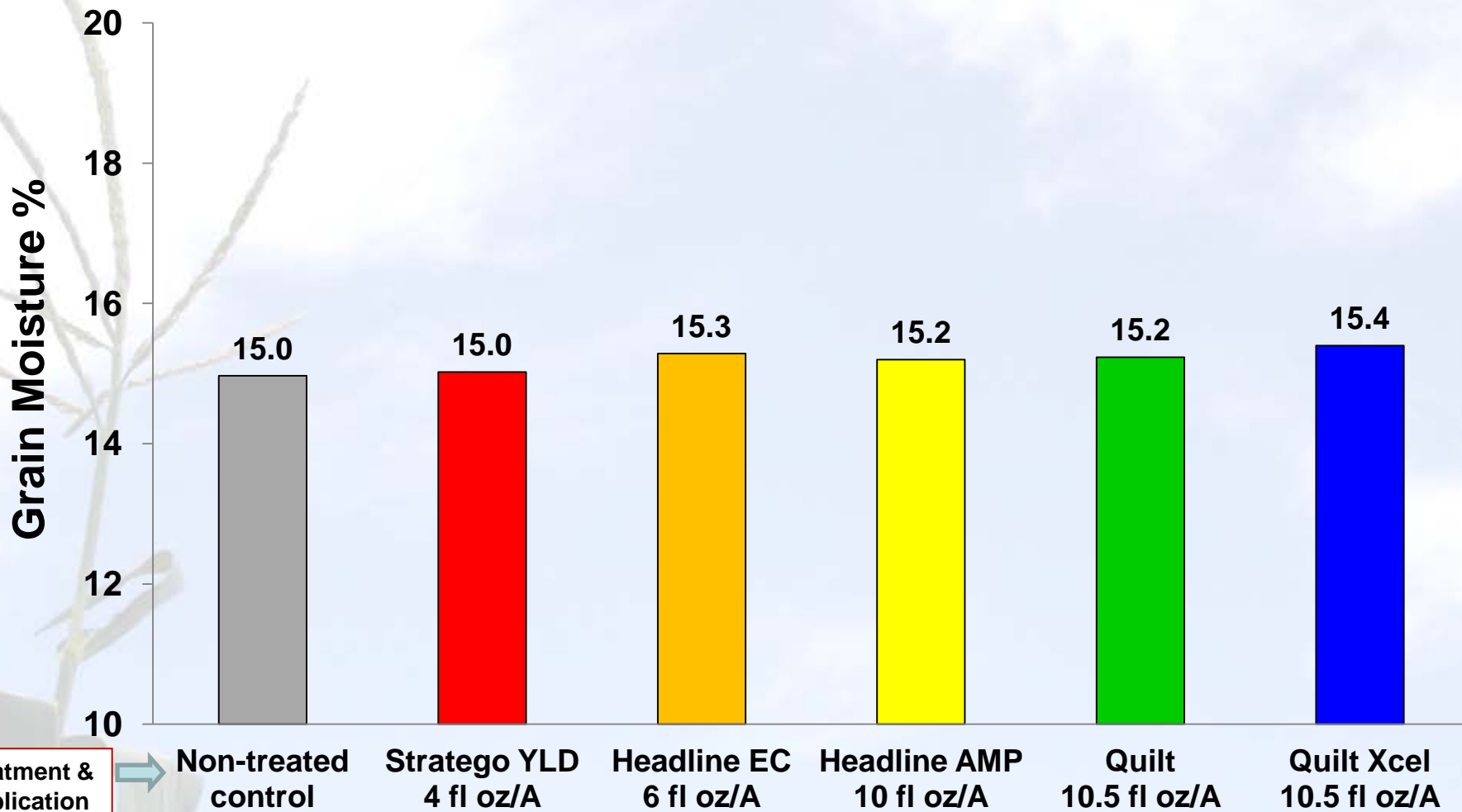


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

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

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Grain moisture % at harvest on October 20th, 2011

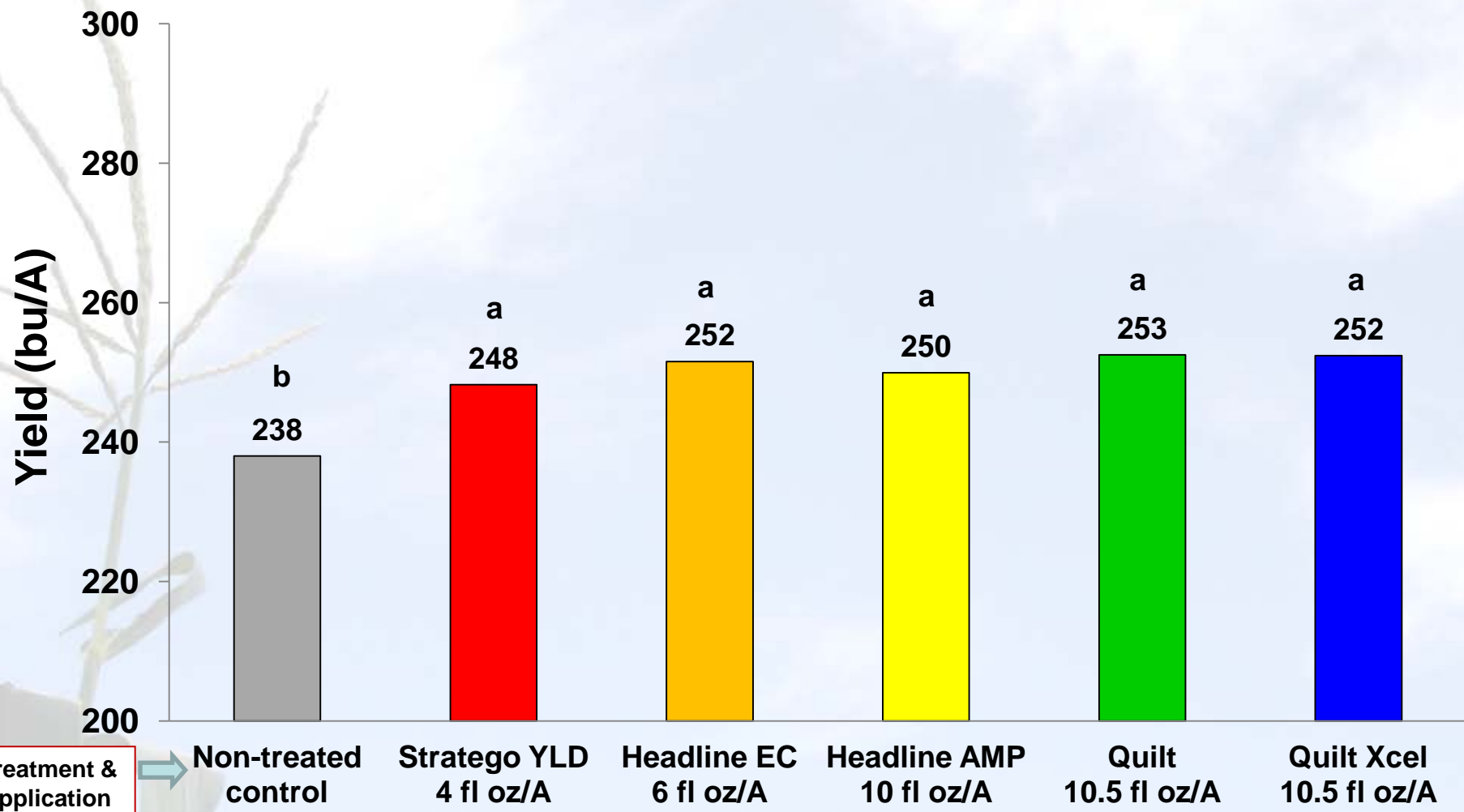


* Foliar fungicide applications made at silking (R1). NIS added at 0.25% v/v.

* No statistical differences between treatments. Coefficient of variation is 2.1%.

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Yield (bu/A) on October 20th, 2011



* 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 2.9%.

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