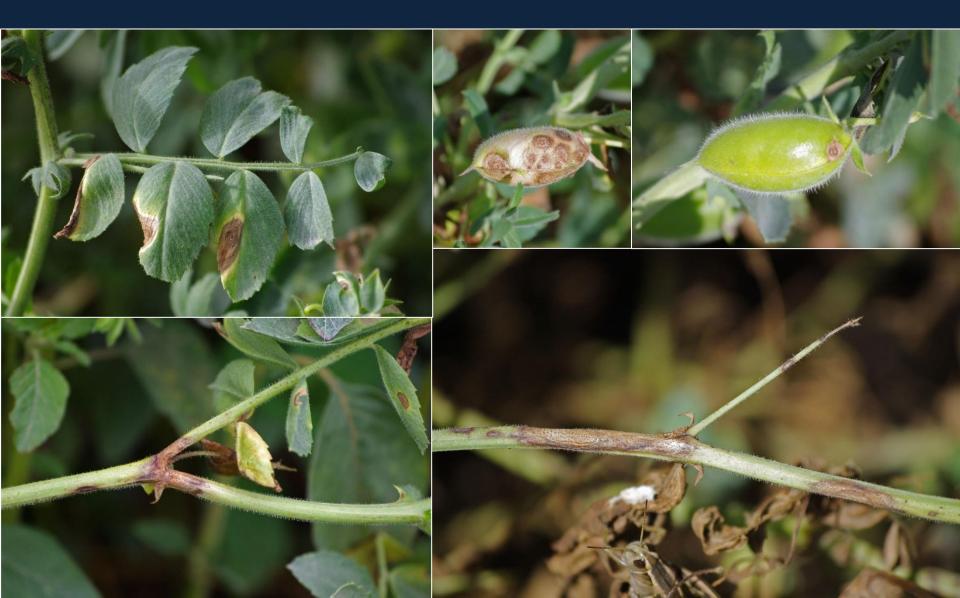
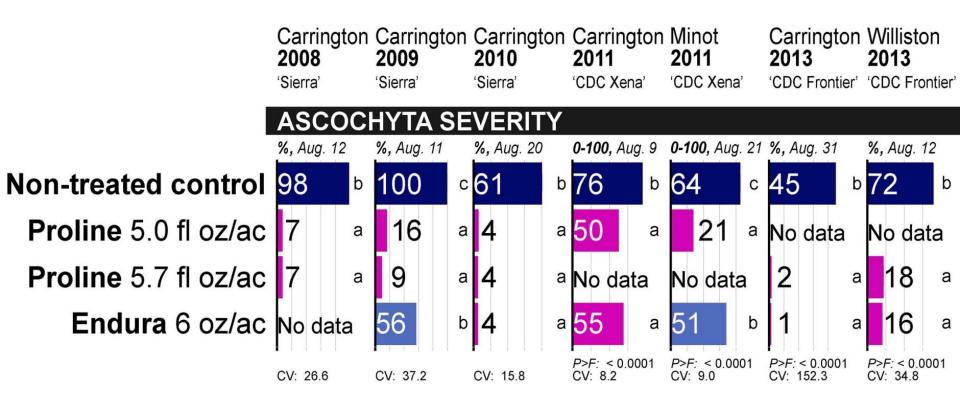
Recommendations for selecting fungicides for management of Ascochyta blight on chickpeas

Michael Wunsch, plant pathologist

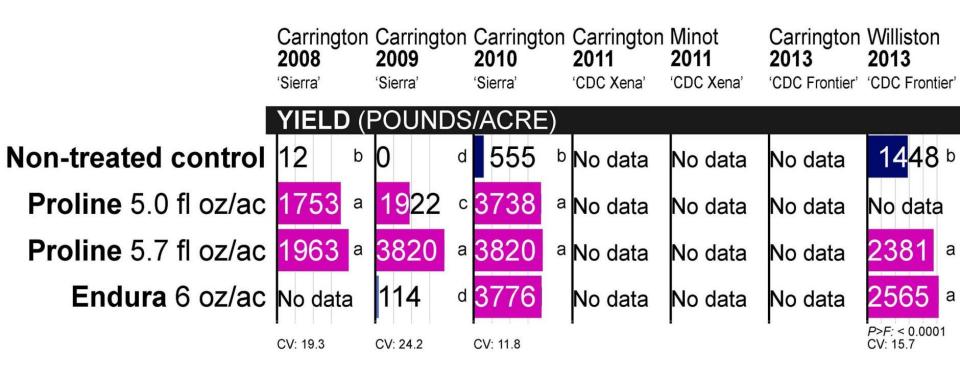
NDSU Carrington Research Extension Center





<u>Fungicide applications:</u> 8001VS, 80015VS, or 8002VS flat-fan nozzles at 35 or 40 psi in 15 to 20 gal./ac water

THREE TO FIVE FUNGICIDE APPLICATIONS WERE MADE. Application A: bloom initiation. Subsequent applications: 10-14 days after the previous application

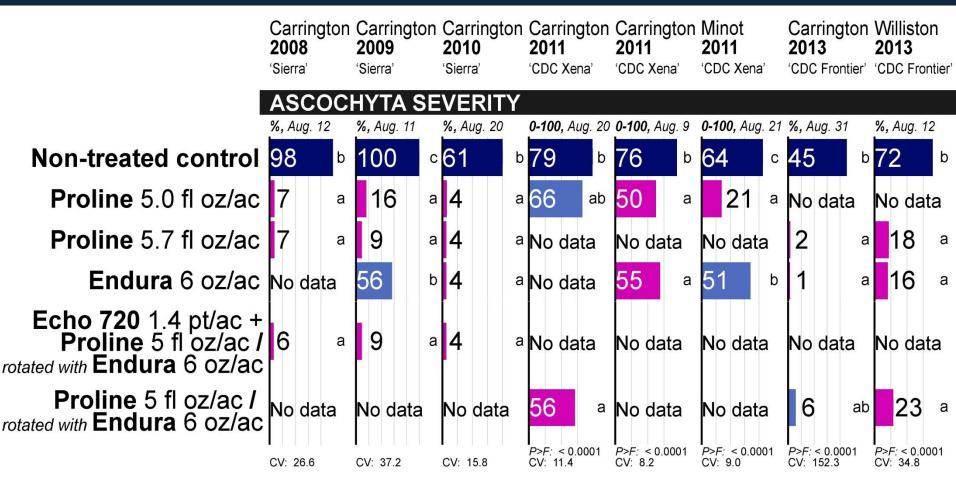


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CHICKPEA ASCOCHYTA BLIGHT

In rotation with Proline, Endura has performed better



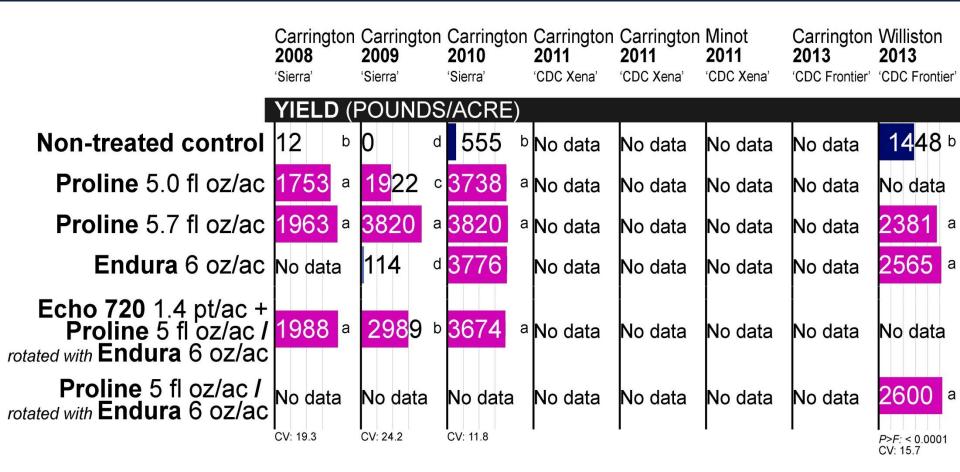
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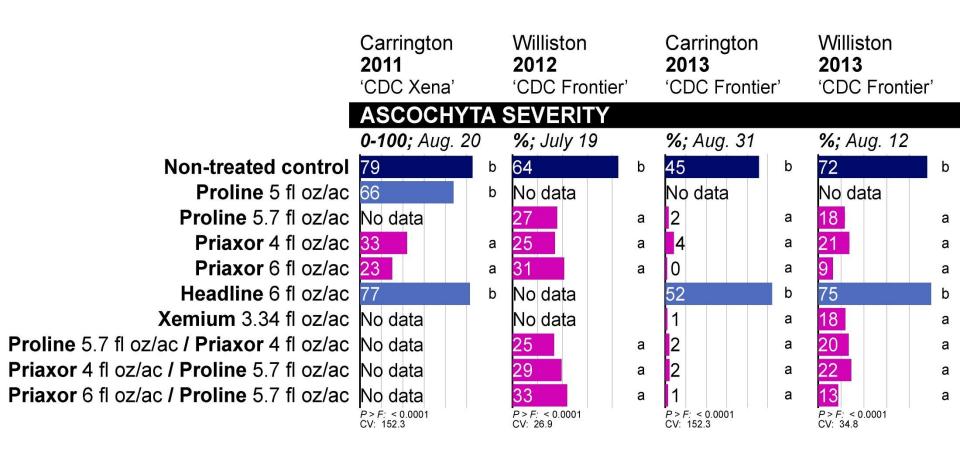


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THREE TO FIVE FUNGICIDE APPLICATIONS WERE MADE.

CHICKPEA ASCOCHYTA BLIGHT

The efficacy of Priaxor is likely similar to Endura



Fungicide applications: 8001VS or 8002VS flat-fan nozzles at 35 or 40 psi in 15 to 20 gal./ac water

THREE TO FOUR FUNGICIDE APPLICATIONS WERE MADE.

CHICKPEA ASCOCHYTA BLIGHT The efficacy of Priaxor is likely similar to Endura

	Carrington 2011 'CDC Xena'	Williston 2012 'CDC Frontie	r'	Carrington 2013 'CDC Frontier'	Williston 2013 'CDC Frontie	ər'
	YIELD (POUNI	DS / ACRE)				
Non-treated control	No data	2065	b	No data	1448	bc
Proline 5 fl oz/ac	No data	No data		No data	No data	
Proline 5.7 fl oz/ac	No data	3437	а	No data	2381	а
Priaxor 4 fl oz/ac	No data	2930	ab	No data	2400	а
Priaxor 6 fl oz/ac	No data	2932	ab	No data	2233	ab
Headline 6 fl oz/ac	No data	No data		No data	1257	с
Xemium 3.34 fl oz/ac	No data	No data		No data	2331	ab
Proline 5.7 fl oz/ac / Priaxor 4 fl oz/ac	No data	3378	а	No data	2239	ab
Priaxor 4 fl oz/ac / Proline 5.7 fl oz/ac	No data	3095	ab	No data	2128	abc
Priaxor 6 fl oz/ac / Proline 5.7 fl oz/ac	No data	3209	а	No data	2478	а
	•	<i>P > F:</i> < 0.0001 CV: 1.9			<i>P > F: <</i> 0.0001 CV: 15.7	

Fungicide applications: 8001VS or 8002VS flat-fan nozzles at 35 or 40 psi in 15 to 20 gal./ac water

THREE TO FOUR FUNGICIDE APPLICATIONS WERE MADE.

Fungicide efficacy:

Applied sequentially, Endura is sometimes less effective than Proline.

When disease pressure is very high, Endura sometimes fails to control Ascochyta.

Applied in rotation with Proline, Endura has performed better.

 This rotation has consistently performed well, but applying Endura when disease pressure is very high may be risky.

The efficacy of Priaxor is likely similar to Endura

- Priaxor has not been tested extensively.
- Reports from producers suggest that it may perform equivalently to Endura, providing unsatisfactory control when disease pressure is very high.

Recommendation:

Endura or Priaxor are best applied only when Ascochyta disease pressure is moderate.

- Under high Ascochyta disease pressure, there is an elevated risk that Endura and Priaxor could be overwhelmed by the disease and provide unsatisfactory Ascochyta control.
- Under high Ascochyta disease pressure, Proline (5.7 fl oz/ac) is the best product to utilize. Tank-mixing Proline with chlorothalonil (Bravo Weather Stik, Echo 720, others) will improve fungicide resistance management and is recommended.