With the development of resistance to the QoI fungicides, four fungicide modes of action are available for managing Ascochyta blight.

DMI (FRAC 3): Proline

**SDHI (FRAC 7):** Endura, Vertisan, and premix fungicides

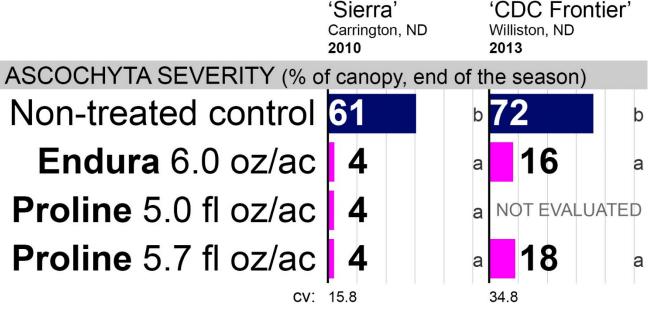
FRAC 29: Omega (chickpeas only)

**MULTI-SITE ACTIVITY (FRAC M):** principally chlorothalonil (Bravo Weatherstik, Echo 720, etc.)

Undermoderatemoderatediseasediseasepressure,Endura hasbeen equallyeffective asProline.

Endura 70WG: boscalid mode of action: SDHI

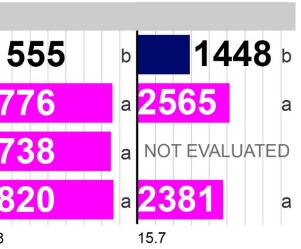
Proline 480SC: prothioconazole mode of action: DMI



YIELD (lbs/ac)

Non-treated control555Endura6.0 oz/ac3776Proline5.0 fl oz/ac3738

Proline 5.7 fl oz/ac 3820



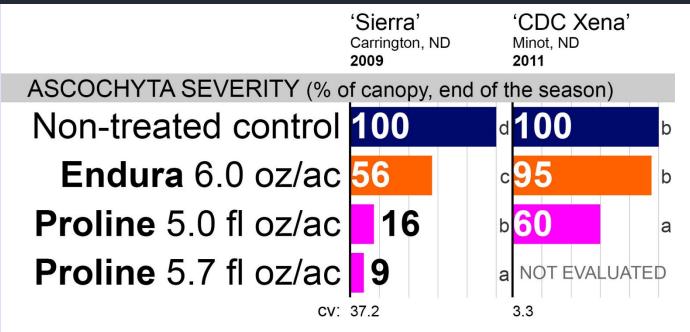
DATA: M. Wunsch, T. Tjelde, B. Schatz; NDSU Carrington and Williston Research Extension Centers

CV: 11.8

Under severe disease pressure, Endura has been less effective than Proline.

Endura 70WG: boscalid mode of action: SDHI

Proline 480SC: prothioconazole mode of action: DMI



YIELD (lbs/ac)

 Non-treated control
 0
 d

 Endura
 6.0 oz/ac
 114
 c

 Proline
 5.0 fl oz/ac
 1922
 b

 Proline
 5.7 fl oz/ac
 3820
 a

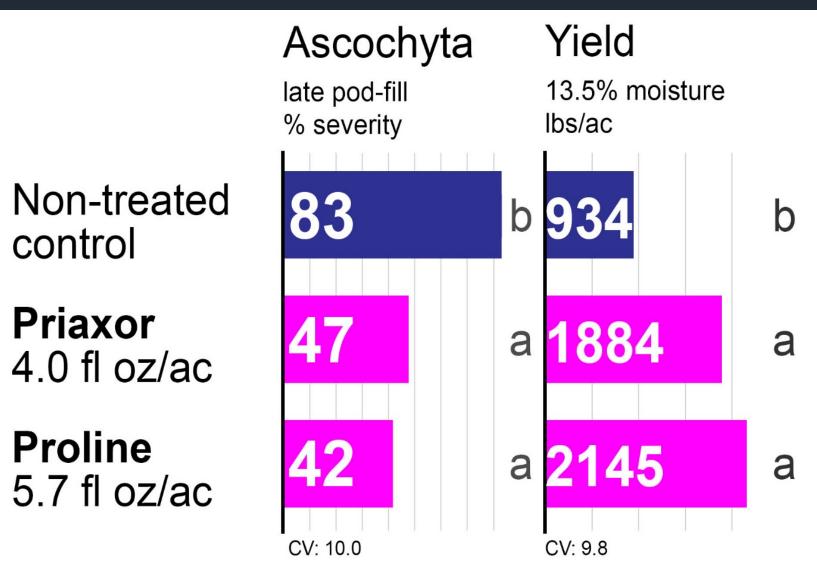
DATA: B. Schatz, E. Aberle, M. Wunsch, J. Pederson; NDSU Carrington and North Central Research Extension Centers

Due to Qol resistance,

Priaxor is essentially a SDHI fungicide when applied to chickpeas to manage Ascochyta blight.

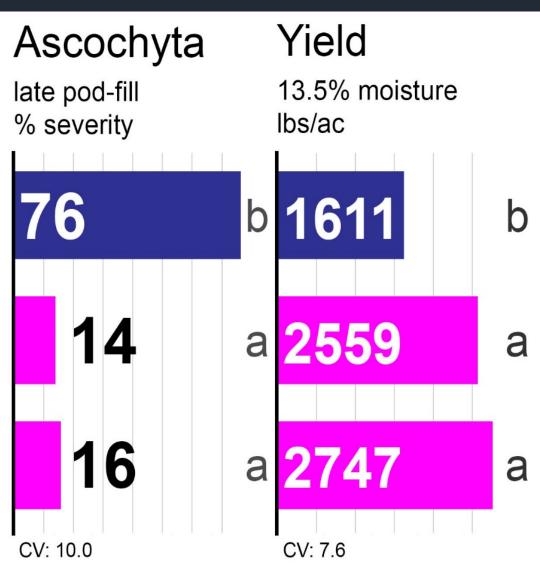
Active ingredients in Priaxor:

- pyraclostrobin (Qol)
- fluxapyroxad (SDHI)

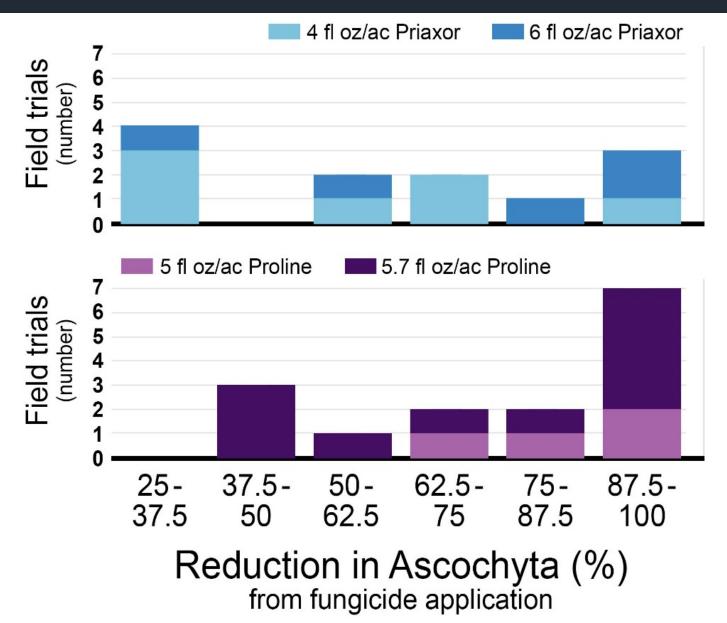


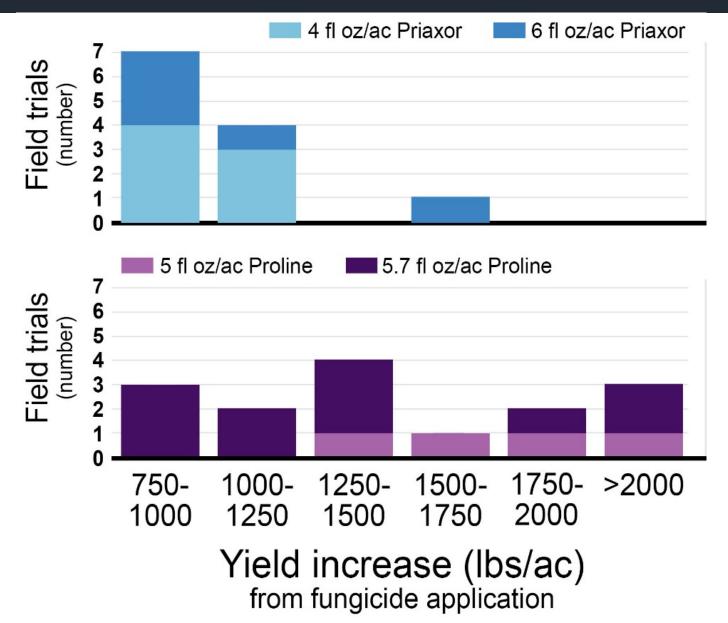
Combined analysis across four field trials (Carrington and Williston, ND)

Non-treated control **Priaxor** 6.0 fl oz/ac **Proline** 5.7 fl oz/ac

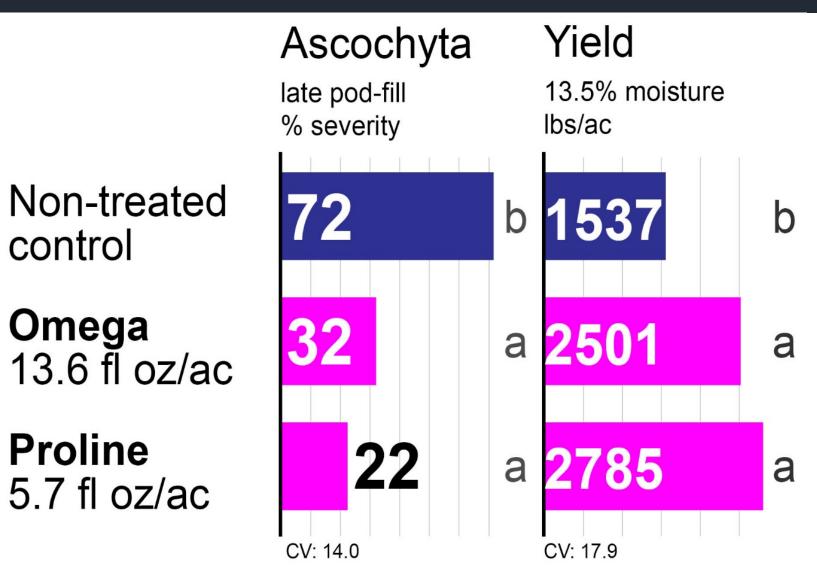


Combined analysis across three field trials (Carrington and Williston, ND)



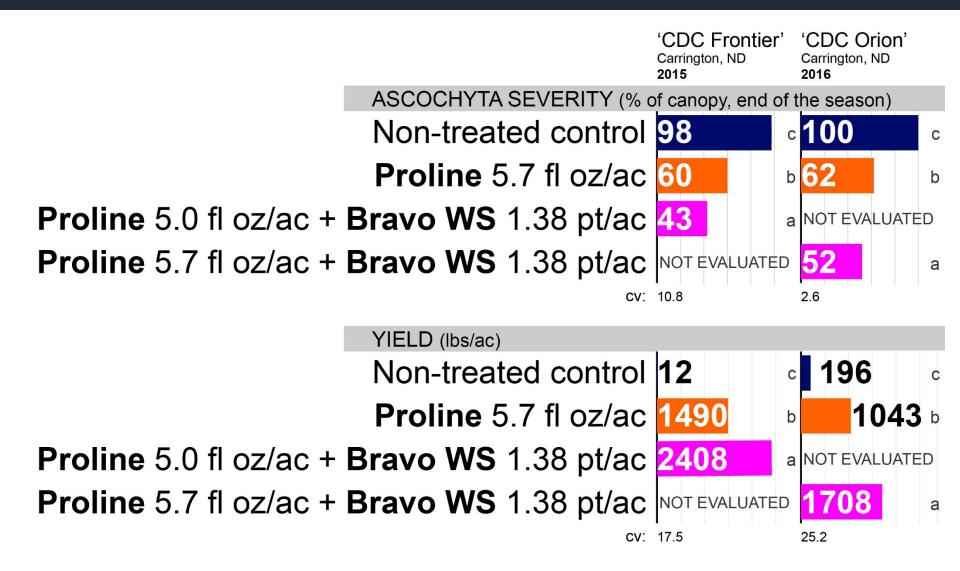


# Fungicide efficacy – chickpea Ascochyta FRAC 29 fungicide - Omega

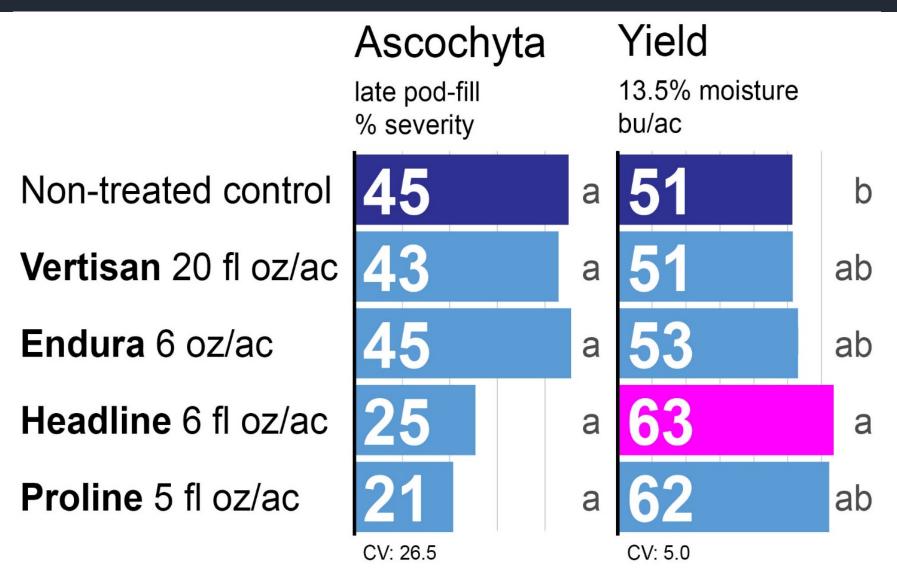


Combined analysis across three field trials (Carrington and Williston, ND)

### Fungicide efficacy – chickpea Ascochyta FRAC M fungicide - chlorothalonil

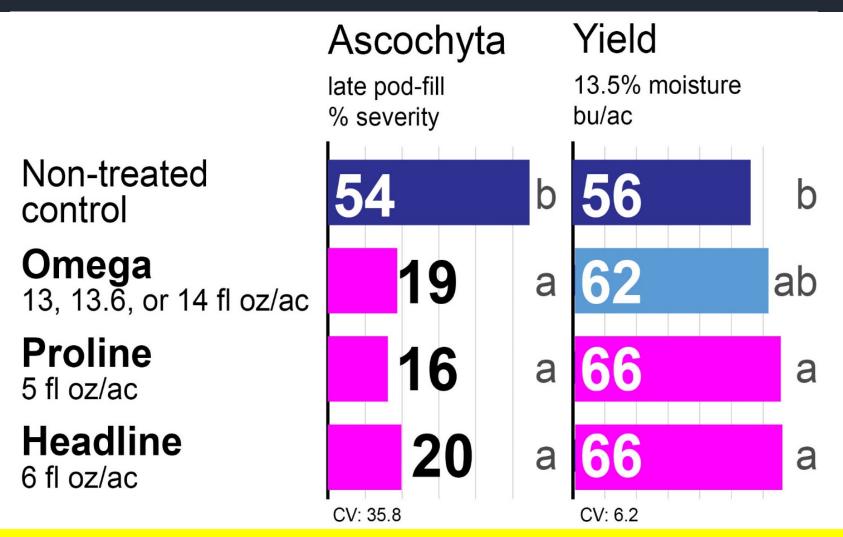


# Fungicide efficacy – field pea Ascochyta FRAC 7 fungicides - Endura and Vertisan



Combined analysis across two field trials (Carrington, ND)

### Fungicide efficacy – field pea Ascochyta FRAC 29 fungicide – Omega



Omega is not currently registered for use on field peas.

Combined analysis across four field trials (Carrington, ND)