Cotton Nematode Management Update at WFREC Field Day

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Take-home points:

- Cultivars resistant to southern root-knot nematode and reniform nematode are available
    - Reduce nematode infection, net yield increase (variable for some cultivars)
- Smaller returns from liquid and granular nematicides
    - AgLogic 15GG performs better than others for reniform nematode control

2021 and 2022 Small plot reniform nematode trials at Quincy with

1. DP1646 (susceptible) and DP2141NR (resistant to root-knot and reniform nematodes)

2. Phytogen cultivars susceptible (PHY444) and resistant (PHY443 and PHY411) to nematodes

Figure 1. Midseason reniform nematode root infestation in 2021 (left) and 2022 (right).

- DP2141NR reduced infection compared with DP1646
- AgLogic15GG reduced infection compared with other nematicides

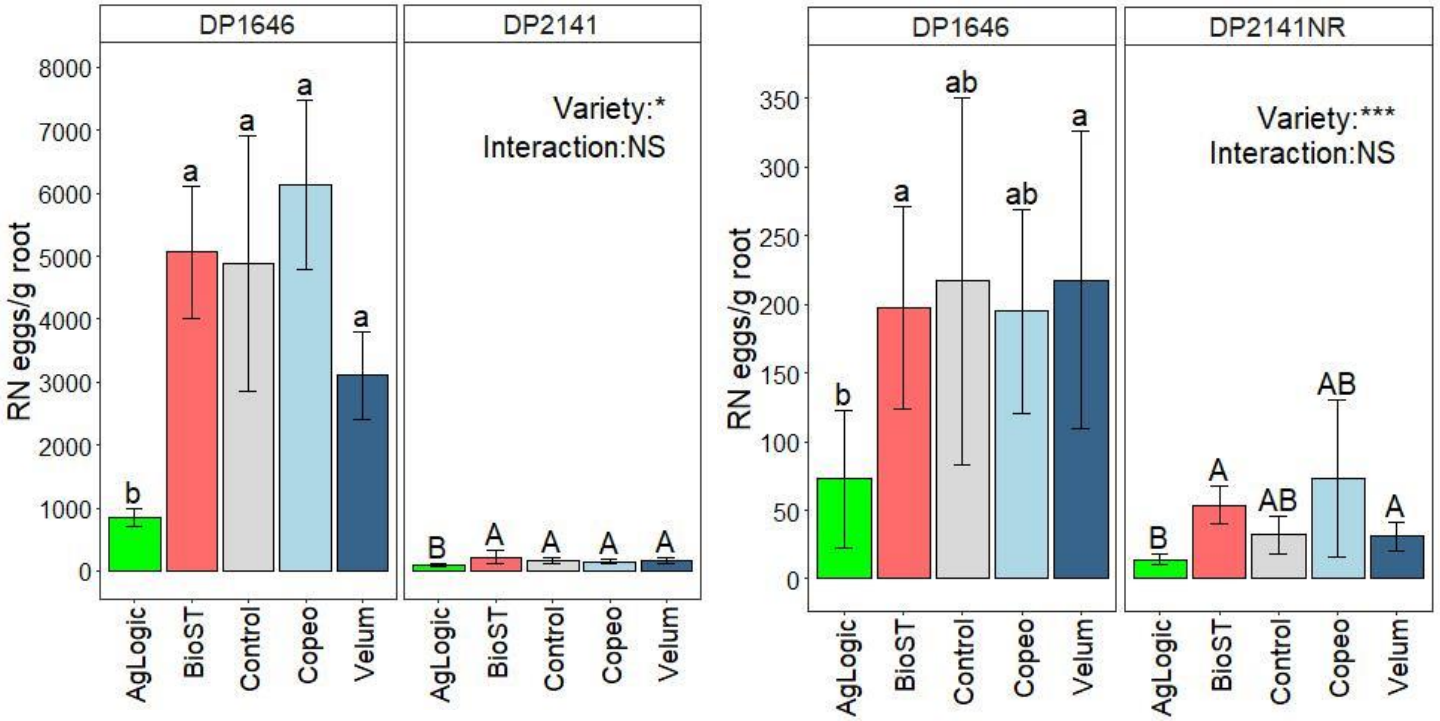

Figure 2. DP2141NR ***decreased*** yield in 2021 (left), but substantially ***increased*** in 2022 (right)

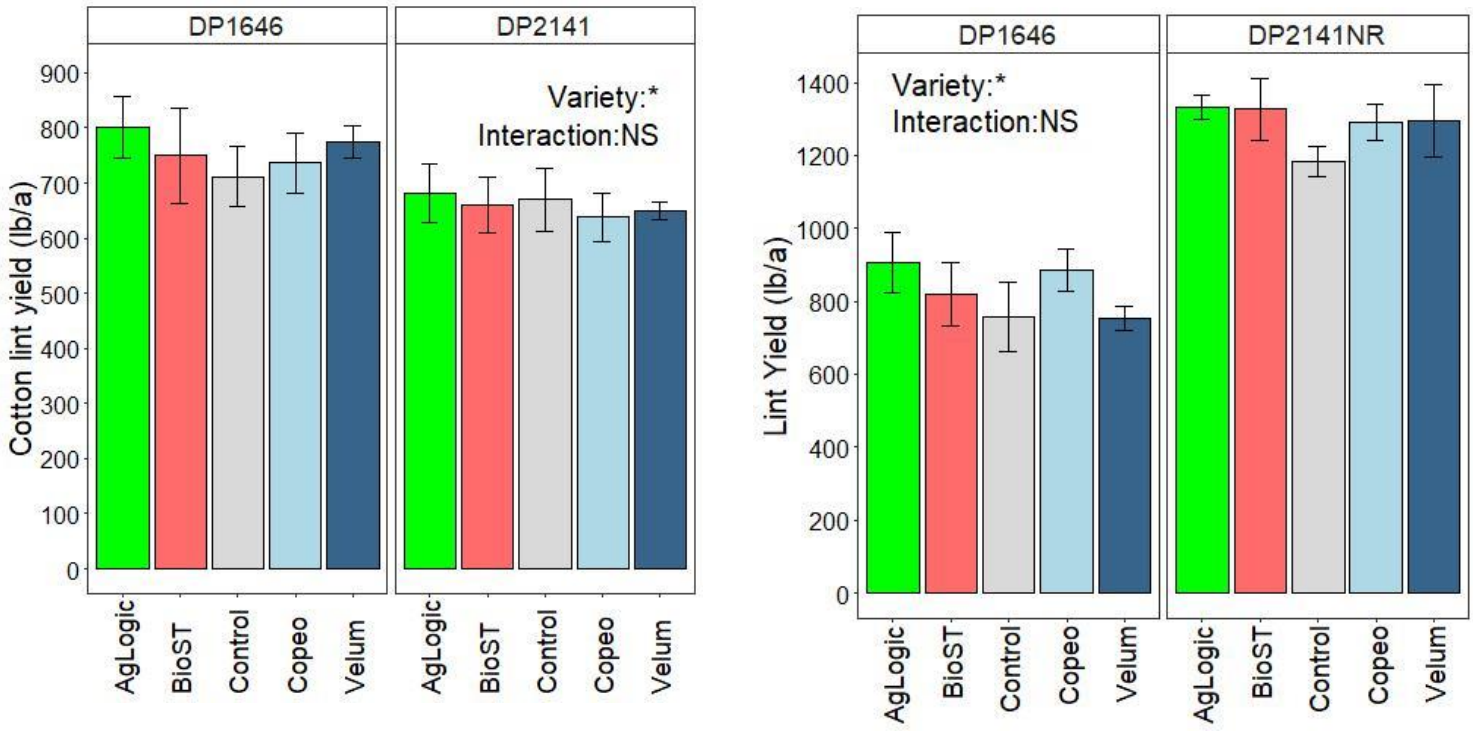

Figure 3. Resistant Phytogen cultivars (PHY443 and PHY411) increased yield compared with susceptible (PHY444) with or without in-furrow Velum in both 2021 (left) and 2022 (right)