Cotton Diseases in 2019

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• **Seedling Diseases:** Poor root growth and emergence north and east of Lubbock. Probably due to cool and wet conditions. Not necessarily seedling disease but contributed.

• **Fusarium Wilt:** To be covered by Cecilia Monclova-Santana

• **Nematodes:** Significant problem in 2019

• **Bacterial blight:** No problems in 2019

• **Verticillium wilt:** Probably none to minimal losses in 2019
Lamesa: Root-knot Nematode Reproduction

- Phytagen (PHY, PX)
- Deltapine (DP)
- Fibermax (FM), Stoneville (ST)
- NexGen (NG)
- Croplan Genetics (CG)
Chemical Control in a Reniform Fields

No control

Vydate

Propulse At-Plant in the furrow

AgLogic 15G
Lubbock: Reniform Nematode Reproduction in Varieties

Reniform resistant varieties

- Phytogen (PHY, PX)
- Deltapine (DP)
- Fibermax (FM), Stoneville (ST)
- NexGen (NG)

Reniform nematodes/100 cm³ soil
A comparison of three reniform susceptible varieties (the camera angle is not causing the middle variety to look better than the flanking varieties).
Varieties with Reniform nematode resistance are very close to being available

Chemical control does not appear to be as effective as the new resistant varieties.
Verticillium Wilt
Incidence of Verticillium wilt in Hockley co.

Wilt incidence (%)
Verticillium wilt incidence at a test near Plainview

- Phytogen (PHY, PX)
- Deltapine (DP)
- Fibermax (FM), Stoneville (ST)
- NexGen (NG)
- Croplan Genetics (CG)
Cotton Varieties (%) planted that are susceptible to Bacterial Blight.
Performance of some new varieties when inoculated with Xanthomonas citri pv. malvacearum
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