



Pink Rot





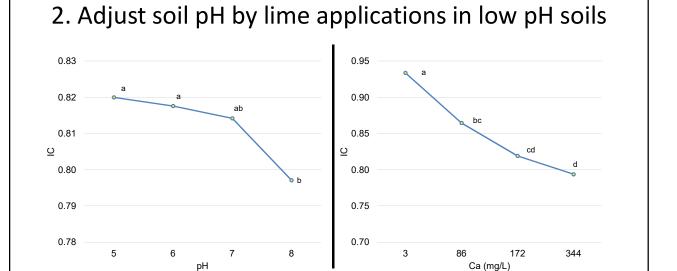


Pink Rot Management

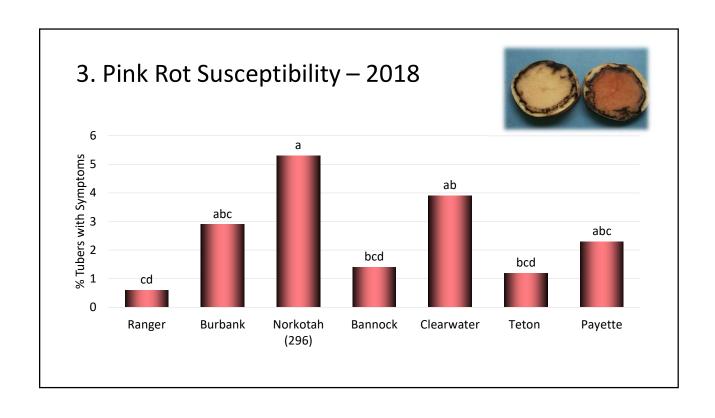
- 1. Field selection/crop rotation
- 2. Adjust soil pH by lime application in low pH soils
- 3. Plant less susceptible varieties
- 4. Proper irrigation management
- 5. Use appropriate fungicides
- 6. Avoid "disease-favorable" conditions at harvest
- 7. Apply post-harvest fungicides
- 8. Grade out infected tubers going into storage
- 9. Reduce tuber pulp temperatures to 55 F or lower

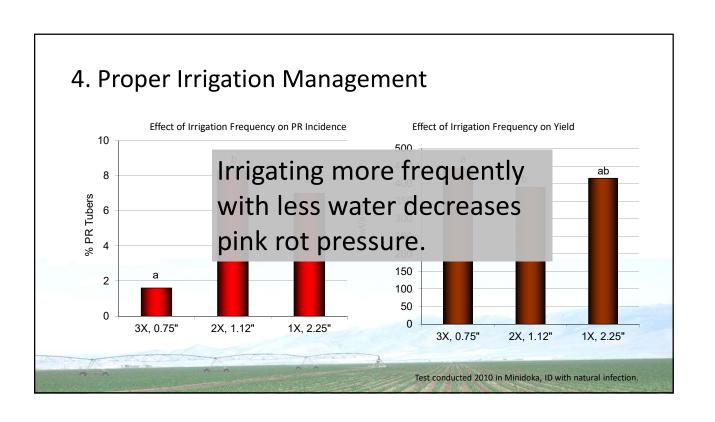


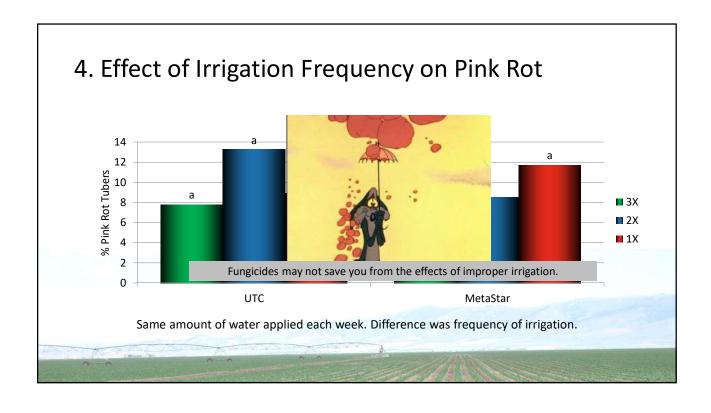




From Benson et al., 2009, Am. J. Potato Res. 86:472-475 and Benson et al., 2009, Am. J. Potato Res. 86:466-471





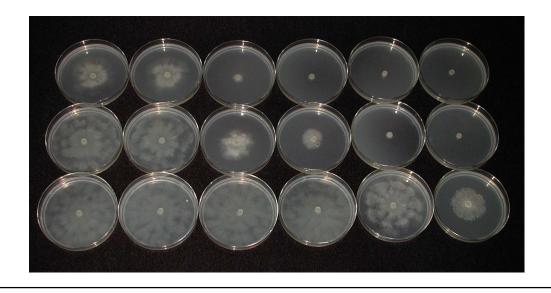


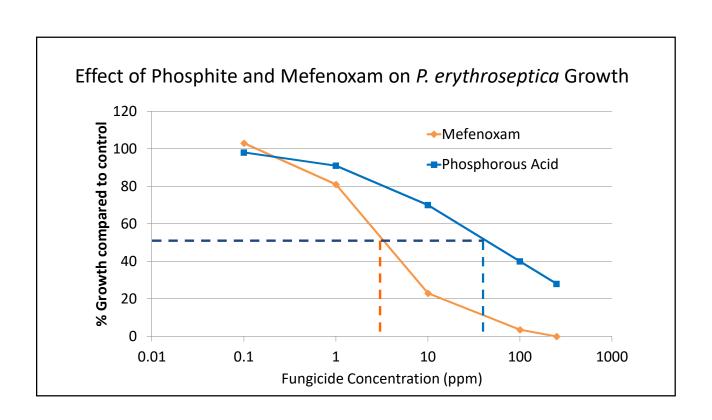
5. Use Appropriate Fungicides

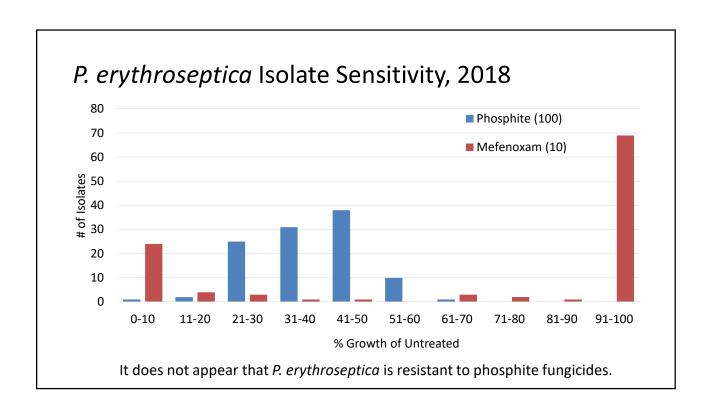
- Mefenoxam/metalaxyl
 - Ridomil Gold products
 - Ultra Flourish
 - MetaStar
- · Phosphorous acid
 - Phostrol
 - Resist 57
 - Phiticide
 - Others
- Oxathiapiprolin + Mefenoxam (in-furrow only)
 - Orondis Gold

- Cyazofamid
 - Ranman
- Ethaboxam
 - Elumin

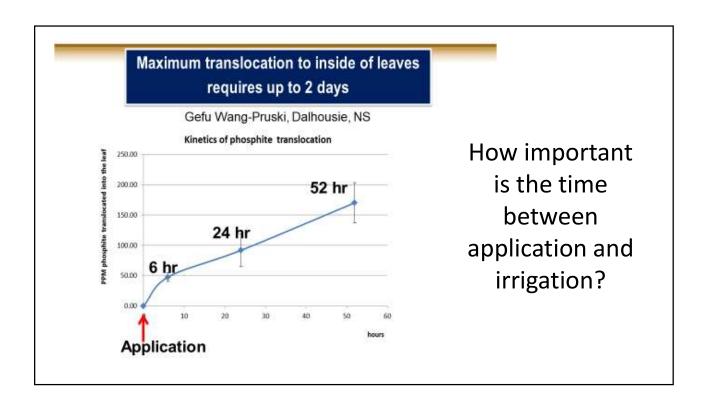
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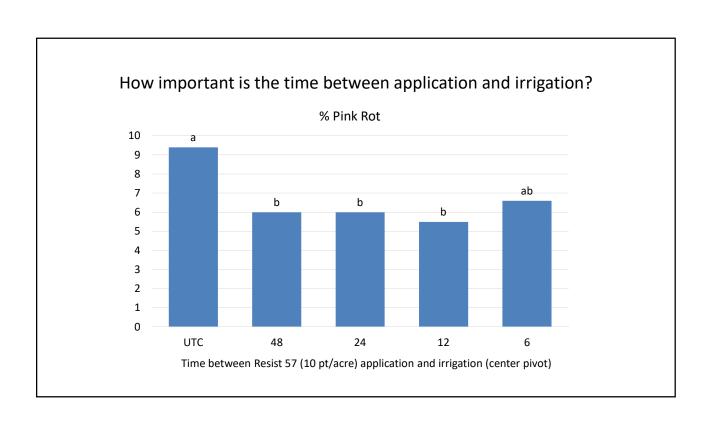


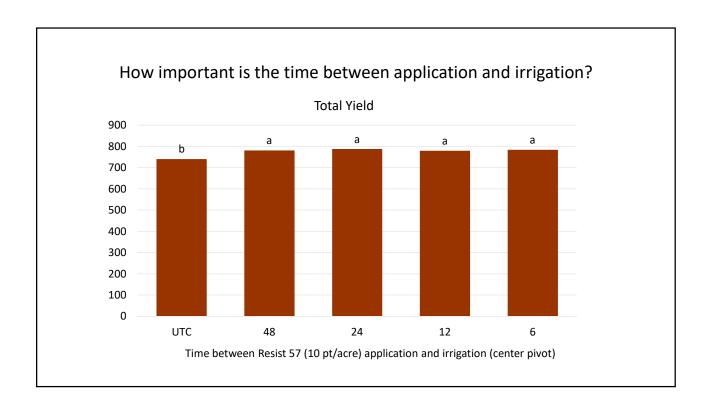


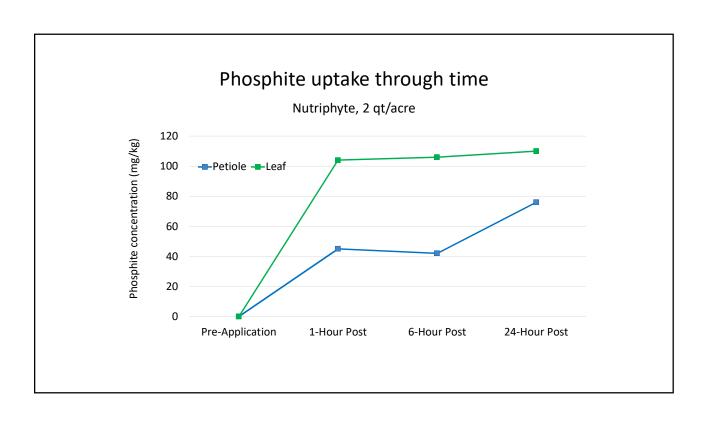


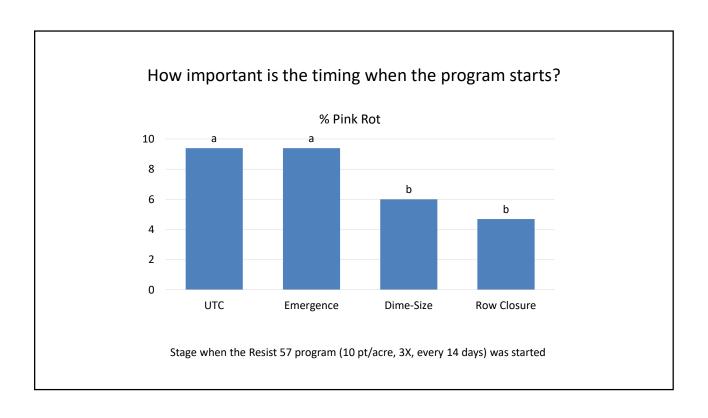
Phosphorous Acid Mode of Action • Fungicide - Relatively weak - Active against mefenoxam-resistant organisms • Systemic properties • Induces systemic acquired resistance • Relatively safe • LD50 > 5,000 mg/kg (absorption/ingestion) • Signal word = Caution

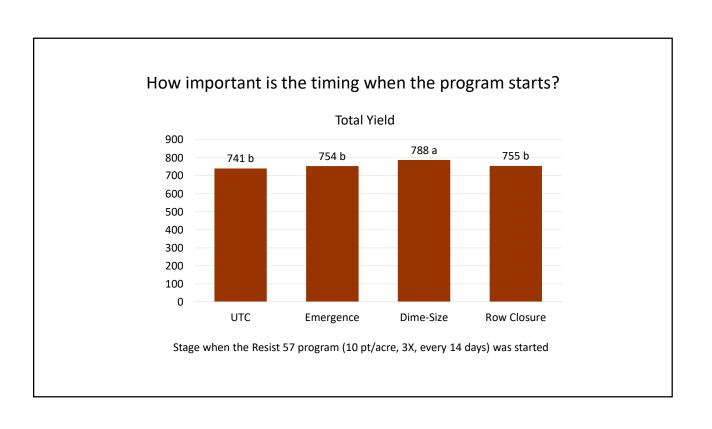


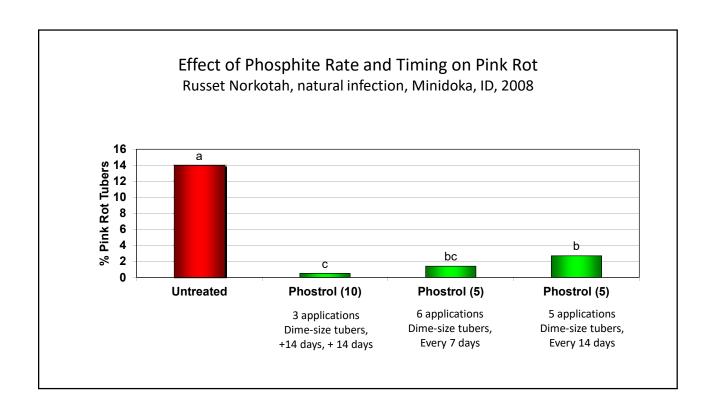


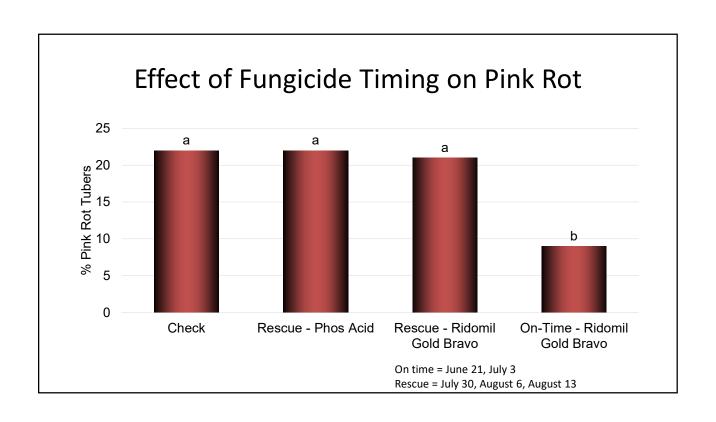






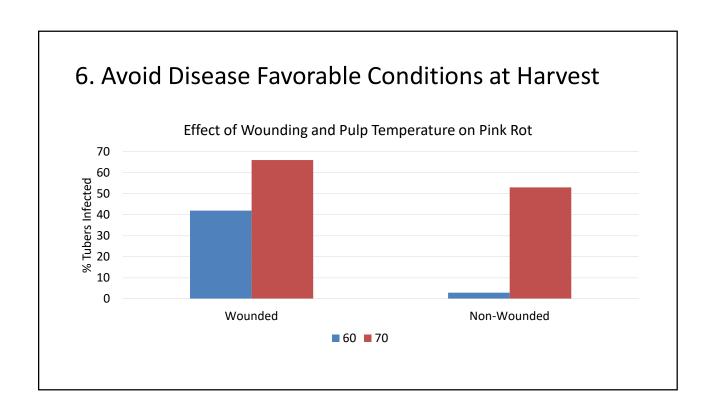






Other Considerations

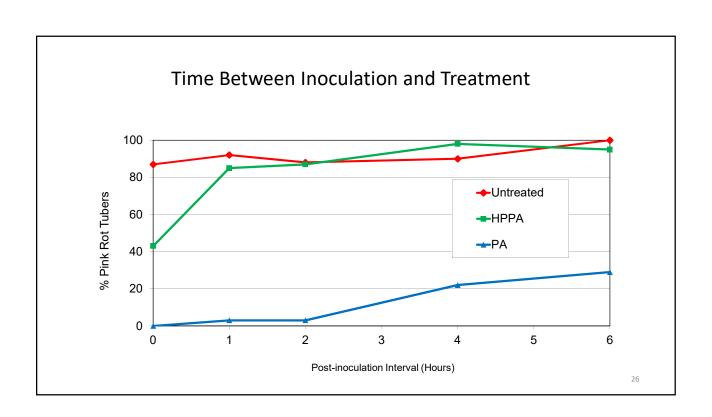
- Environment can effect phosphite uptake
 - Higher concentration observed in greenhouse vs. outdoors
 - (P. cinnamomi, Shearer et al., 2012)
- Phytotoxicity
 - MSO made phyto worse (greenhouse, NDSU)
 - Higher humidity = higher chance of phyto?



7. Apply Post-Harvest Fungicides

- Phosphorous acid:
 - 12.8 fl oz/ton tubers
 - Apply in 0.5 gal water/ton tubers





8. Grade Out Infected Tubers Prior to Storage



Questions?

