

2019 Premier Cotton Indicators

(Adoption Questions)

Cotton Premier – Disease & Nematode Management

- Use AgriLife Extension Cotton Variety Trials and Disease Ratings when considering which varieties to plant
- Use AgriLife Extension management guidelines for diseases and root knot nematodes
- Utilize soil sampling for nematodes to determine variety selection in problem fields

Cotton Premier – Insect Management

- Scout insects based on AgriLife Extension recommendations
- Select insecticides and or utilize other management practices based on AgriLife Extension recommendations
- Utilize AgriLife Extension action thresholds
- Utilize BT cotton varieties to aid in insect management and while limiting the use of other insecticides that could cause secondary pest problems.
- Follow insecticide label for dose recommended against the insect pest in subject.
- Importance of beneficial insects and biological suppression of insect pests in cotton.
- The impact of different insecticides on beneficial insects/arthropods

Cotton Premier – Economic Risk Management

- Develop a personalized cotton budget with break-even cost of production
- Develop a written marketing plan
- Made decisions based on farm program educational meetings conducted by AgriLife Extension
- Utilize Insurance decision making tools developed by AgriLife Extension
- Participation in Farm Assistance to determine production levels/requirements/systems
- Utilization of price risk management tools– Options, Futures, Insurance

Cotton Premier -- Crop Harvest Technologies and Preparations

- Use harvest aid products based on the Cotton Harvest Aid Guide and local AgriLife Extension field trials
- Determine rates based on cotton harvest aid trials conducted by AgriLife Extension
- Time harvest aid applications based on crop maturity criteria as defined by AgriLife Extension information
- Use harvesting method comparison information from AgriLife Extension to decide to change harvesting systems
- Use harvesting method comparison information from AgriLife Extension to decide NOT to change harvesting systems

Cotton Premier -- Cotton Varieties (Pre-plant Considerations and Cotton Development)

- More rapidly adopt new cotton varieties based on AgriLife variety testing
- More rapidly adopt Roundup Ready Flex and/or GlyTol cotton herbicide resistance technology based on AgriLife variety testing
- More rapidly adopt Bt (Bollgard II or Widestrike) cotton insect resistant technology based on AgriLife variety testing

Cotton Premier – Soil Fertility

- Use of proper sampling, testing and fertilizer recommendations based on AgriLife Extension recommendations
- Deep sampling fields for residual nitrate-N based on AgriLife Extension recommendations
- Testing water for Nitrates and utilizing that information to reduce Nitrogen fertilizer applications to the soil.
- Use of micronutrients for cotton

Cotton Premier – Weed Pests

- Determine most common / troublesome weed species and chemical / non-chemical strategies available to manage these weeds
- Manage weeds based on AgriLife Extension recommendations
- Identify and manage herbicide-resistant weeds based on best management practices provided by AgriLife Extension
- Utilizing yellow herbicides and other herbicides with different modes of action to aid in the prevention/management of glyphosate resistance based on AgriLife Extension recommendations.
- Water Quality Issues related to control of weeds

Cotton Premier – Soil / Water Relationship

- Adopt evapotranspiration based on irrigation scheduling
- Adopt high efficiency advanced irrigation technology (i.e., low-pressure center pivot irrigation or subsurface drip irrigation)
- Manage and maintain irrigation systems for optimal performance and high-efficiency water application
- Manage application of irrigation water based on economic return instead of greatest yield potential base on AgriLife recommendations.
- Utilize soil moisture monitoring tools/technologies throughout the season
- Make irrigation management decisions based on crop water use profiles and knowledge of soil moisture status
- Implement best management practices related to tillage and water application methods to minimize salinity buildup in soil profile