Why use Cover Crops GORDON MIKELL, Conservation Agronomist USDA/NRCS

Southeast Farm Press

"3 Things you need to know" Bob Kemerait, Nov 27, 2017

1) La Nina (Warm Dry)"Rather than a reset button, warmer and drier winters may be bridges for important pests from one season to the next."

2) "Many fungicides and agrichemicals are produced in China. Recently there have been reports that all may not be well with production efforts in China.some fungicides, especially chlorothalonil, that have been readily available in the past will be more limited in supply..... products that have been amazingly inexpensive are likely to be more expensive in 2018. Such is predicted for tebuconazole...."

Cont'd.

"Reduced What can you encourag program that, in the control???

may st n

3)"Planting resistant varieties (seed) can be very effective for management of diseases and nematodes. However, seed for resistant varieties may be in limited supply."

Cotton varieties will be available with increased resistance to root-knot nematodes and to bacterial blight, though unfortunately not in the same variety.



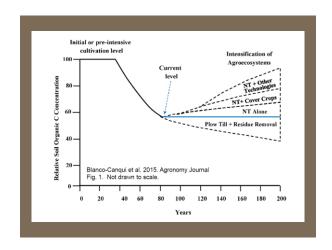


Covers may be for you IF:

- 1) You would like more weed suppression
- 2) You would like to improve your bottom line
- 3) You are getting a government payment
- 4) You have highly erodible land
- 5) You would like to make your farm better adapted
- to handle weather extremes.
- 6) You don't like paying your fertilizer bill.

Terminology

- Conservation Tillage / Strip Till
- Carbon & Organic Matter
- Biomass
- Winter Weeds, ankle-high, knee-high, head-high



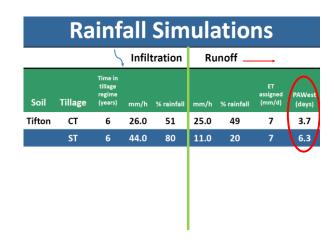


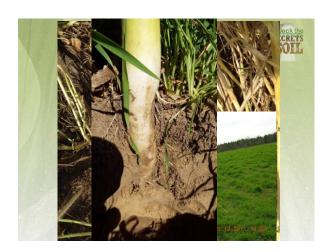












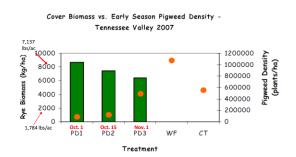


Pigweed Case Study, 2007

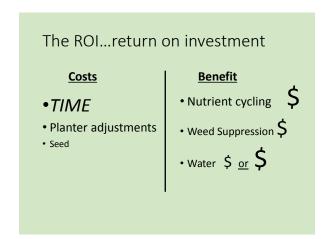
- TN Valley REC, Bella Mina AL
- \bullet E.V. Smith REC , Shorter AL

Andrew J. Price Kipling S. Balkcom Francisco J. Arriaga Jason S. Bergtold Randy L. Raper Ted S. Kornecki

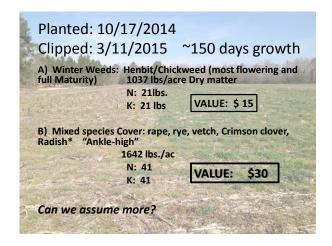








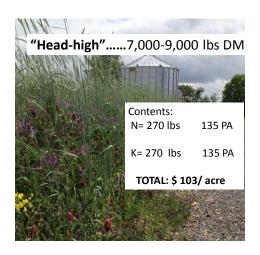






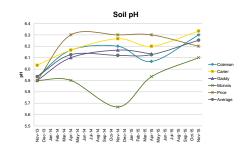




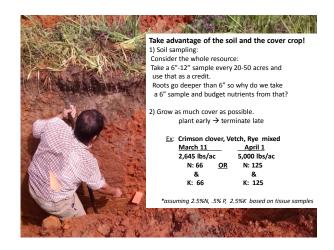




Oh and by the way...



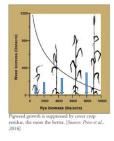


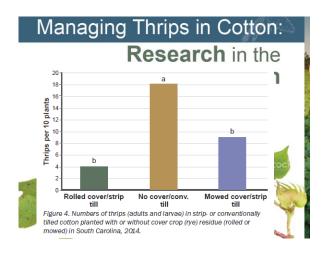


Baby steps

- "enhanced" Strip-till 6 (ankle high)
- "Knee-high"
- "Belt to chest high"
- "Head high" or larger









Termination • Wait as long as possible • Spray during day when plants are actively growing • Liquid N or AMS may help • Use plenty of water ~ 20 gal with paraquat • Tank mixes of paraquat & atrazine or Paraquat and Valor (reflex) or P + cotoran • Terminate @ planting for corn, 3wks ahead for cotton and later planted crops • Plant green or crispy

Termination Tips cont'd.

- Use more water as cover crop height increases*
- Consider your mix: size and species (broadleaf vs grasses)
- Clover is hardest to kill
- Termination will be easier once plant begins to flower
- Rates used for winter weeds may not be sufficient
- Cold temps may affect herbicide effectiveness

Is the cover really dead?



