

2004 Black-eyed Pea Integrated Pest Management

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For additional BEP information consult

<http://lubbock.tamu.edu/programs/crops/other-field-crops/black-eyed-peas/>



Sources of Label Information

- ◆ For crops like BEP of lesser acreage you may not readily know what chemicals are labeled
- ◆ Labels for herbicides, insecticides, fungicides, seed treatments, growth regulators, etc.—access through <http://www.cdms.net>, click ‘Services’ then ‘Labels’ then enter Brand name
 - After ‘Labels’ you can also search by active ingredient (looking for a generic?) through “Other Search Options” but will need to register for a free password
 - For further details on how to use this valuable website search for “Ready On-line Access to Chemical Labels” at <http://lubbock.tamu.edu/programs/disciplines/weeds> (by Calvin Trostle)

Key Pests

- ◆ Weeds
- ◆ Insects
- ◆ Disease



Most Important Pest?

(weeds, perhaps especially Whiteweed, or Silver Leaf Nightshade)



Weed Management

- ◆ Cultivation
- ◆ Hand hoeing
- ◆ Herbicides



P Westra

Herbicides

- ◆ Limited options
 - Preplant incorporated (PPI)
 - Pre-emerge
 - Post-emerge




KSU

Insects

- ◆ Foliage feeders
- ◆ Pod feeders
- ◆ Root feeders



Insect Management

- ◆ **No established thresholds**
 - ◆ **Limited labeled products**
 - ◆ **Yield loss**
 - ◆ **Quality grade**
- 

Foliage Feeders

- ◆ Beet armyworms
- ◆ Loopers
- ◆ Grasshoppers



W Cranshaw

Pod Feeders

- ◆ Podworm
 - Aka cotton bollworm / corn earworm
- ◆ Lygus Bugs
- ◆ Stink bugs



Podworm



Podworm egg



Podworm eggs

Podworm



Podworm



Podworm



Podworm



Lygus Bugs



S Bauer

Stink Bugs



TAMU



JK Clark

Bug Damage



JK Clark



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Key Predators

- ◆ Minute pirate bugs
- ◆ Lady bugs
- ◆ Lacewing larvae
- ◆ Damself bugs
- ◆ Crab spiders



JK Clark

Disease

- ◆ Seedling
- ◆ Leaf
- ◆ Fusarium wilt



Seedling

- ◆ Pythium
- ◆ Rhizoctonia
- ◆ Thielaviopsis



JK Clark

Fusarium Wilt

- ◆ 6 weeks after planting
- ◆ Pale green – wilted
- ◆ Turn yellow
- ◆ Complete death



Fusarium Wilt



Fusarium Wilt



Fusarium Wilt

- ◆ Disease free seed
- ◆ Five year rotation
- ◆ Resistant varieties



JK Clark

Leaf Disease

- ◆ Blights
- ◆ Leaf spots
- ◆ Mildews



Blackeyed Pea IPM Recap

- ◆ Weeds are key
- ◆ Fruit feeders
- ◆ Foliage feeders
- ◆ Disease



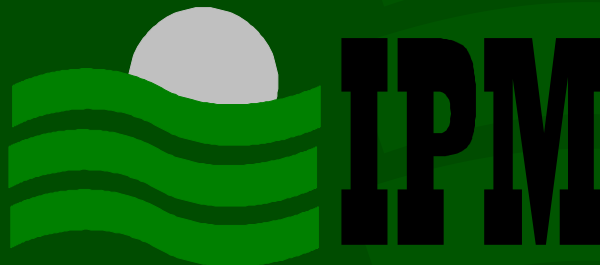
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Northwest Plains



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