2007 Soybean Management Field Days
Managing New and Emerging Disease, Insect and Weed Problems
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Mid-season tank mixes?
glyphosate + insecticide

Not recommended because:
★ Aphids often not present or at low numbers
★ Destroys natural enemies
  In 2004: Relatively cool, saw aphid flare-ups
  In 2005: Hot & dry, saw spider mite flare-ups
★ Overuse ➔ Pesticide Resistance

CruiserMaxx Pak Seed Treatment Study
Planting date: May 6, 2006
Bean Leaf Beetle Counts: Coleridge, NE

CruiserMaxx: 67.4 bu/ac
No CruiserMaxx: 67.5 bu/ac

Some Aphid Natural Enemies
Lady beetles – egg, larvae, adult
Minute pirate bug (Orius) nymph and adult
Green lacewing larvae

2007 SMFD – University of Nebraska – Lincoln Extension
Soybean Aphid Economic Threshold (ET) Study

- Mean economic injury level: 654 ± 42 aphids/plant
- Mean ET: 265 ± 17 aphids/plant
- Mean doubling time: 6.8 ± 0.8 d

Use ET of 250 aphids/plant and populations increasing (7 d window)

Sudden Death Syndrome (SDS) Management

- Avoid early planting
- Variety selection
- Seed treatments have not shown to be effective

Soybean Cyst Nematode

New Counties (2005 & 2006)

Management with Resistance and Rotation

- Year 1 – Non-host Crop
- Year 2 – Resistant Variety*
- Year 3 – Non-host Crop
- Year 4 – Resistant Variety*
- Year 5 – Non-host Crop
- Year 6 – Resistant Variety*

* Know the source of resistance and rotate to a different source than you used the last time you planted soybeans.
Weed Free Window to Maintain Maximum Yield Potential

30" row spacing
18" row spacing
7.5" row spacing

V1  V2  V3  V4  V5  V6  V7  R1  R2  R3

Recommendations:
- Start with a clean field.
- Control weeds that emerge with the soybeans at the V1 to V3 growth stage.
- Keep soybeans weed free from V1 – V3 until V6 – R1 (row space dependant).