



E-1582 Bulletin Exercise

Situation 1: Crop: Soybean, R2 stage, 5th of August

Field conditions: Heavy rain in June, but no rain since July 10th.
Temps in August in the '90s.

Damage: Stippling damage on about 20% of the foliage (you think it is spider mites)

List three ways you could confirm presence of mites:

- 1) _____
- 2) _____
- 3) _____

What conditions contributed to this infestation? _____

Should you treat this field? NO YES

Why/Why not

Which product (s) would you use, given each of the following situations:

1) you are not a certified applicator: _____

OR

2) the local elevator is hosting a field-day in the field the next evening:

OR

3) soybean aphid is also numerous in the field:

OR

4) a neighbor has honeybee hives near the field: _____

Situation 2: Corn rootworm larvae

What is the best method to control rootworm damage? _____

You find rootworm damage in first-year (rotated) corn...what are two possible explanations?

- 1) _____
- 2) _____

When (time of year) would you scout for rootworm to make a decision about soil insecticide use? _____

What soil insecticide would you use if you are NOT certified: _____

ROOTWORMS CONTINUED:

Which of the following would you use with Beacon herbicide?

- NO YES Counter 20 CR in-furrow
NO YES Counter 20 CRT-band
NO YES Aztec in-furrow
NO YES Lorsban 15G T-band
NO YES Lorsban foliar applied 5 days after the herbicide

You are thinking about using a seed treatment to control rootworms....would you use Kernel Guard? NO YES Why/why not _____

There are actually two formulations of Kernel Guard. Which is 'safer'?

Seed treatments that contain the insecticide lindane (such as Enhance and Seedmate) do not work well against rootworms. Could you use a higher rate? _____

Why/Why not? _____

Situation 3 Soybean aphids in soybean

When are the most likely times to spray for soybean aphid to get the best economic return?

- _____ tank-mix insecticide with Roundup in early summer
_____ at first report of detection by MSU _____ at flowering
_____ early pod-fill _____ mid- to late August

You sprayed for aphids using Lorsban 4E. Now aphid numbers are increasing again. You want to spray a second time, but you are worried about resistance. Choose a product for the second spray:

_____ Why? _____

Besides resistance, what could be another explanation for the increase in aphids?

You plan to harvest these beans in one month (30 days). How does this effect your insecticide options? _____

Your spouse is worried about exposure to insecticides. You promise to use the least toxic product for spraying aphids. How would you determine the least toxic product, and where do you find this info in the guide?

MSU is an affirmative-action, equal-opportunity institution. Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, marital status, or family status. • Issued in furtherance of Extension work in agriculture and home economics, acts of May 8 and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Tom Coon, Extension Director, Michigan State University, E. Lansing, MI 48824. • This information is for education purposes only. References to commercial products or trade names do not imply endorsement by MSU Extension or bias against those not mentioned.