Farmer-Researcher: Angie Koch, Fertile Ground CSA, Waterloo County

Research Question: Do foliar sprays benefit the health of different crash crops? There is anecdotal evidence that foliar sprays reduce disease and help control pests, leading to healthier plants and tastier crops.

Angie will:
- Take photos throughout the project
- Keep in contact with EFAO with updates and questions
- Establish and conduct experiment as outlined in Protocol below
- Turn in data by October, 2016
- Complete farmer-led research program training and surveys
- Present at the Farmer-led Research Meeting in Kingston, November 29-30
- Maintain current membership in EFAO

EFAO will:
- Monitor progress of project
- Conduct training program
- Help set up Research Protocol, write and publish Protocol
- Reimburse cost of field help, if necessary
- Help analyze data, write and publish Research Report
- Provide $500 payment to farmer at conclusion of project
- Reimburse one night’s hotel stay for the Farmer-led Research Meeting in Kingston, November 29-30

Research Protocol & Data Collection
- Establish crops in beds and try to maintain uniformity in management across beds.
  - Record planting date and crop arrangement in beds.
- Measure 15’ sections along beds and flag the sections that will receive foliar spray (treatment; red), according to map on page 2.
- On weekly field walk and whenever noticeable, record observations and take photos of both spray (treatment) and no-spray control plots that document:
  - Disease onset,
  - Pest density,
  - Size or weight of vegetable/fruit
  - Etc.
- Take Brix measurements of randomly selected vegetables from both spray (treatment) and no-spray control sections, maintaining consistency in measurement time.
- Special note to Angie: Remember to mark last bed!

Experimental Design - PAGE 2

Contact:
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### Experimental Design

**Legend**
- Buffer - no measurements taken
- Foliar spray; flagged section
- No spray control
- # Primary beds: spray according to map

Beds 2, 4, 6, 8, 10, 12 may be sprayed if timing of planting works such that drift into primary beds is not a concern.

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