

CAPS Survey Accomplishment Report Template

CAPS Survey Report

Year:	2016
State:	Wisconsin
Cooperative Agreement Name:	CAPS Soybean Commodity Survey
Cooperative Agreement Number:	16-8255-0378-CA
Project Funding Period:	01/01/2016-12/31/2016
Project Report:	CAPS Survey Report
Project Document Date:	03/02/2017
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Quarterly Report	<input type="checkbox"/>
Semi-Annual Accomplishment Report	<input type="checkbox"/>
Annual Accomplishment Report	<input checked="" type="checkbox"/>

- A. **Write a brief narrative of work accomplished. Compare actual accomplishments to objectives established as indicated in the work plan. When the output can be quantified, a computation of cost per unit is required when useful.**

Fourth Quarter information:

Activities in the fourth quarter of the year included data analysis, map-making and report writing. No field work was conducted in the period.

Annual narrative:

Field observations were made for four pests of national concern: cucurbit beetle (*Diabrotica speciosa*), yellow witchweed (*Alectra vogelii*), maritime garden snail (*Ceruella virgate*), citrus brown mite (*Eutetranychus orientalis*), and Asian soybean rust (*Phakopsora pachyrhizi*), in accordance with published survey methods (visual, with laboratory confirmation for *Phakopsora*.) No primary target pest suspects were detected during the survey. Two hundred fields were projected in the work plan, 514 fields were surveyed.

During the survey effort, additional pest information was gathered, including plant sampling for new Phytophthora species and late-season soybean aphid levels. These adjunct surveys provided additional pest information, adding efficiencies to the state's plant protection efforts.

Fifty-three soybean fields were tested early in the season for Phytophthora root rot organisms, and 461 fields were visually surveyed from May through September for target pests. A total of 514 sites were visited. No target pests were detected by visual survey. Maps of both surveyed groups are attached.

Phytophthora Survey Results: The June 7-July 13 survey to determine the prevalence of soybean root rot caused by *Phytophthora sojae* found 32% positive rate among the 53 samples tested. This substantial level of prevalence suggests that root rot was a common problem again this season, almost comparable to the 2015 results of 38% of fields sampled. Counties in which *P. sojae* was confirmed were Barron, Columbia, Crawford, Dodge, Dunn, Green, Jefferson, Marathon, Outagamie, Racine, Rock and Walworth.

Cumulative results of this nine-year survey include the detection of five distinct Phytophthora species in the state's soybean fields: *P. sansomeana*, *P. pini* and *P. sp. personii*, *P. inundata* and *P. iranica*, four of which had never been found on soybeans in Wisconsin prior to this effort.

General Field Survey Results: The general soybean survey was conducted from May 24 until August 13, with visual observations in 461 fields across the state (map attached).

No Asian soybean rust (*Phakopsora pachyrhizi*), yellow witchweed (*Alectra vogelii*) maritime garden snail (*Cerutuella virgate*), citrus brown mite (*Eutetranychus orientalis*) or cucurbit beetles (*Diabrotica speciosa*) were detected in any of the 514 fields.

Funding Amount	Total Number of Traps	Cost Per Unit
Proposed = \$20,606	*Proposed = 200	*Proposed = \$103.03
Actual = \$20, 606	*Actual = 514	*Actual = \$40.09

* No traps were set as part of this survey. These numbers and costs are on a per field surveyed basis.

1. Survey methodology (trapping protocol): Visual, for all primary target organisms.

	Common Name	Scientific Name
Pest:	Cucurbit beetle	<i>Diabrotica speciosa</i>
	Yellow witchweed	<i>Alectra vogelii</i>
	Maritime garden snail	<i>Cerutuella virgate</i>
	Phytophthora root rot	<i>P. sojae, P. sansomeana</i>

	Proposed	Actual
Sites (Locations):	200	511
Traps:	N/A	

Number of Counties:	46
Counties:	See attached map

2. Survey dates:

	Proposed	Actual
Survey Dates:	4/16-10/15/16	5/24/16-8/13/16

3. Benefits and results of survey: The primary target pests, cucurbit beetle (*Diabrotica speciosa*), yellow witchweed (*Alectra vogelii*), Asian soybean rust (*Phakopsora pachyrhizi*), were not detected. Survey efforts for other significant pests were conducted concurrently with the survey efforts, allowing increased efficiency of plant protection efforts in the state.

	Positive	Negative	Total Number
Traps/Sites	0	514	514

4. **Database submissions:** All data was entered into NAPIS as appropriate.

B. **If appropriate, explain why objectives were not met.*** Objectives were met.

C. **Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000. ***

**indicates information is required per 7 CFR 3016.40 and 7 CFR 3019.51*

Approved and signed by

Cooperator

Date: _____

ADODR

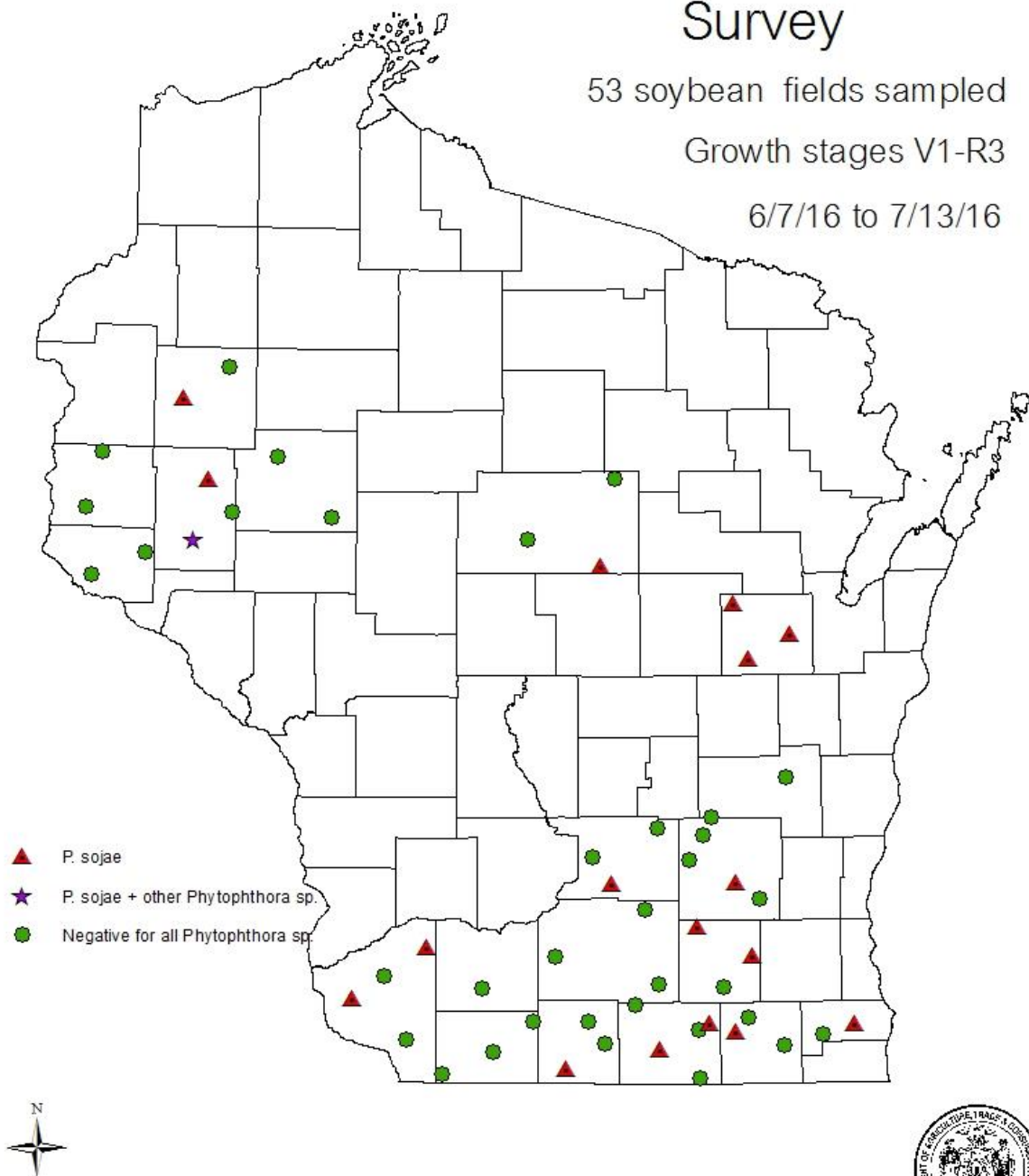
Date: _____

2016 DATCP CAPS Soybean Commodity *Phytophthora* spp Survey

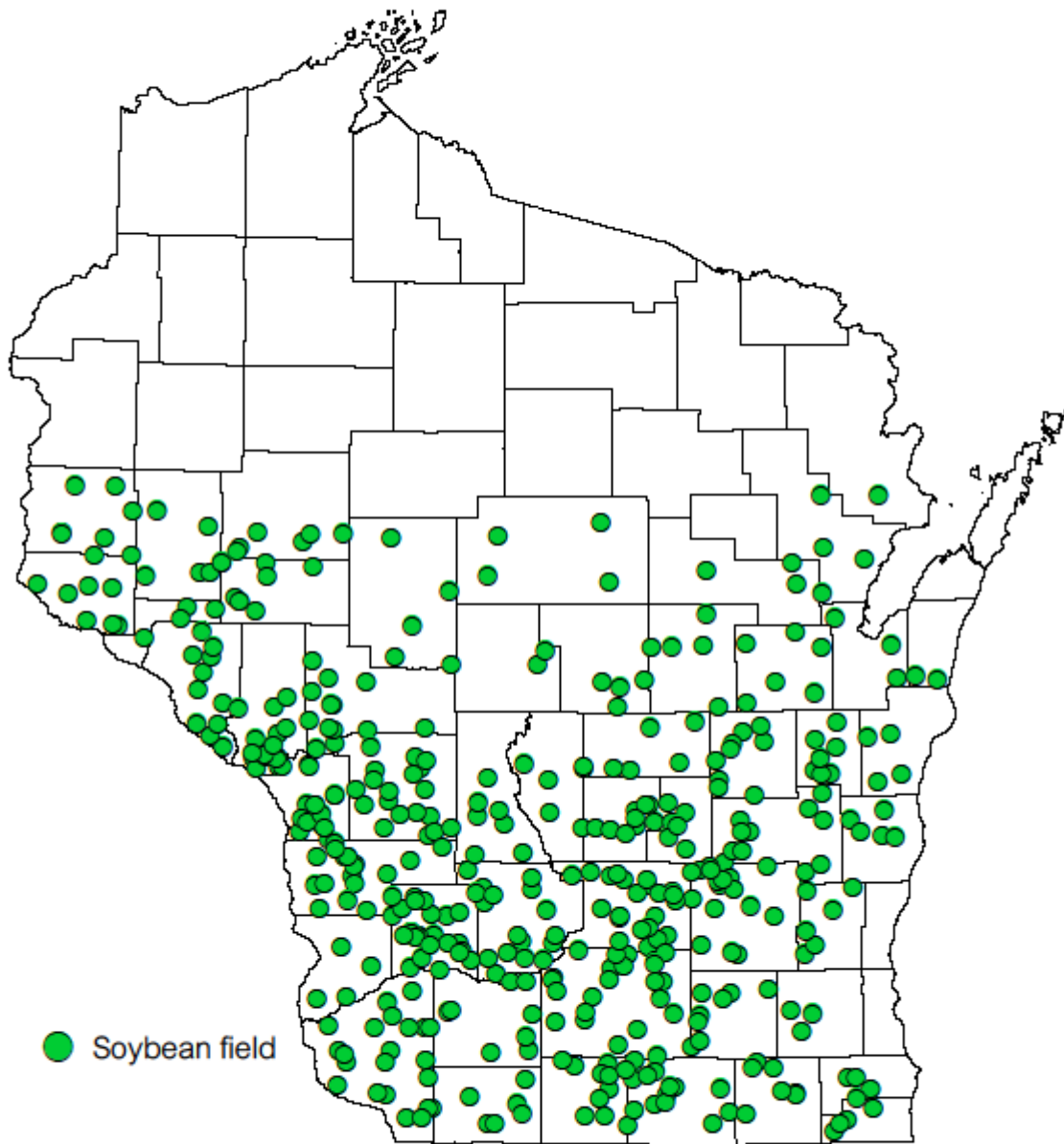
53 soybean fields sampled

Growth stages V1-R3

6/7/16 to 7/13/16



CAPS Soybean Pest Survey 2016



Wisconsin Department of Agriculture, Trade and Consumer Protection

