| **Year:** | 2014-2015 |
| **State:** | Utah |
| **Cooperative Agreement Name:** | Utah Plant Pest Infrastructure Project |
| **Cooperative Agreement Number:** | 14-8549-1640-CA |
| **Project Funding Period:** | July 1, 2014 – June 30, 2015 |
| **Project Report:** | CAPS Infrastructure Report |
| **Project Document Date:** | September 4, 2015 |
| **Cooperators Project Coordinator:** | Ricardo Ramirez; Lori Spears |
| **Name:** | Robert Hougaard |
| **Agency:** | Utah Department of Agriculture and Food |
| **Address:** | 350 N Redwood Road |
| **City/ Address/ Zip:** | Salt Lake City, UT 84114 |
| **Telephone:** | 801-538-7184 |
| **E-mail:** | rhougaard@utah.gov |

| **Quarterly Report** | ☐ |
| **Semi-Annual Accomplishment Report** | ☐ |
| **Annual Accomplishment Report** | ✗ |
A. 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.

Overview of the Utah CAPS Program

The Utah CAPS (Cooperative Agricultural Pest Survey) Program is a cooperative agreement between Utah Department of Agriculture and Food (UDAF) and Utah State University (USU). Each entity has designated a State Survey Coordinator (SSC). The CAPS Utah Plant Pest Infrastructure Project was funded by USDA-APHIS-PPQ (United States Department of Agriculture – Animal and Plant Health Inspection Service – Plant Protection and Quarantine), with administration of funds through UDAF. This project provided support for Dr. Lori Spears, State Survey Co-Coordinator (USU), under the supervision of Dr. Ricardo Ramirez, Extension Entomologist (USU). Drs. Spears and Ramirez worked in cooperation with Robert Hougaard, Plant Industry Division Director (UDAF), Clint Burfitt1, State Survey Co-Coordinator (UDAF), Kristopher Watson, Trapping Coordinator (UDAF), and Dawn Holzer, Utah/Nevada Pest Survey Specialist (USDA-APHIS-PPQ).

The Utah CAPS Program Committee has nearly 20 members from state and federal agencies specializing in various disciplines, including entomology, forestry, plant pathology, weed science, agriculture and IPM/pesticide usage. The main objective of the Utah CAPS Committee is to identify emerging priority pests for Utah and to improve sampling techniques for future survey programs. The Committee receives pertinent updates about potential invasive pest activity throughout the year and at the CAPS Committee meeting, which was held this year on February 5, 2015. As needed throughout the year, the CAPS Committee helps disseminate information to interested parties, such as USU Extension, the Bureau of Land Management, the Utah State Horticultural Association, the Northern Utah Fruit Growers, and the Utah Nursery and Landscape Association. To aid in dissemination information, a Utah CAPS Program website is available (www.utahpests.usu.edu/caps). The website contains information about various pests and updates and links that might be useful to stakeholders and the Utah CAPS Committee. Dr. Spears is the editor of the Utah CAPS website.

Various activities have been carried out in support of pest detection. CAPS and Farm Bill funded projects are highlighted below, with a list of additional pest related activities conducted by Dr. Spears and her colleagues at Utah State University.

---

1. Clint Burfitt resigned in March 2015. His position has not yet been filled.
2014 PEST DETECTION PROJECTS (CAPS and Farm Bill)

Utah State University
1. Utah Plant Pest Infrastructure Project (Ricardo Ramirez and Lori Spears)
2. Alfalfa and Corn Commodity Pest Survey (Ricardo Ramirez)
3. Small Grains Commodity Survey (Lori Spears)
4. Orchard Commodity Survey (Lori Spears)
5. Solanaceous Crop Survey (Lori Spears)
6. Invasive Species Outreach (Lori Spears)
7. Imported Fire Ant Survey (Lori Spears)
8. Cereal Leaf Beetle Biological Control Survey (Edward Evans)
9. Assessing Success of Weed Biocontrol (Edward Evans)

Utah Department of Agriculture and Food
1. Asian Defoliators Survey
2. Exotic Wood Borer/Bark Beetle Survey
3. Gypsy Moth Survey
4. Pine Shoot Beetle Survey
5. Statewide Biological Control
6. Honey Bee Pests and Diseases Survey
7. Khapra Beetle Survey

2015 PEST DETECTION PROJECTS (CAPS and Farm Bill - now in progress)

Utah State University
1. Utah Plant Pest Infrastructure Project (Ricardo Ramirez and Lori Spears)
2. Alfalfa and Corn Commodity Pest Survey (Ricardo Ramirez)
3. Small Grains Commodity Survey (Lori Spears)
4. Orchard Commodity Survey (Lori Spears)
5. Invasive Species Outreach (Lori Spears)
6. Emerald Ash Borer Survey (Ryan Davis)
7. Imported Fire Ant Survey (James Pitts)
8. Cereal Leaf Beetle Biological Control Survey (Edward Evans)
9. Assessing Success of Weed Biocontrol (Edward Evans)

Utah Department of Agriculture and Food
1. Asian Defoliating Moth Survey
2. Exotic Wood Borer/Bark Beetle Survey
3. Gypsy Moth Survey
4. Pine Shoot Beetle Survey
5. Statewide Biological Control
6. National Honey Bee Pests and Diseases Survey
OTHER PEST-RELATED ACTIVITIES (USU only – since 2014)

**Funded Grants**

3. Spears LR, RA Ramirez, and DG Alston. 2015-2017. Understanding the role of alternative host plants used by two invasive insects, spotted wing drosophila and brown marmorated stink bug, in Utah. Utah Department of Agriculture and Food (Specialty Crop Block Grant).

**Pending Grant Proposals**


**Refereed Publications**


**Extension Publications**


Trainings

- Microlepidoptera Dissection Workshop, Utah State University, Logan, UT. (May 2014 & 2015).

In addition to the activities outlined above, Dr. Spears worked closely with Kristopher Watson (UDAF) to get survey data entered into the National Agriculture Pest Information System (NAPIS) database by December 31, 2014, and participated in monthly conference calls with other Western region SSC’s and various other related meetings/conference calls (e.g., Utah’s Fruit Insect Ad Hoc Committee and Utah’s EAB Pre-Detection Committee).

Drs. Spears and Alston have joined forces with other western researchers to prioritize research and Extension projects on brown marmorated stink bug. Dr. Spears is also a member of the multistate research group, WERA 1021, which is a collaborative effort to improve the understanding of spotted wing drosophila (SWD) biology and management. In November 2014, Dr. Spears met with other members of this group and gave a summary of SWD activity in Utah, and will meet again with the group in November 2015.
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.
   There were no cost overruns or unobligated funds.

D. Supporting Documents
   N/A

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

Approved and signed by

_________________________________________   Date: _______________________
Cooperator

_________________________________________   Date: _______________________
ADODR