

## CAPS Survey Report

<b>Year:</b>	2022
<b>State:</b>	Colorado
<b>Cooperative Agreement Name:</b>	Combined Survey
<b>Cooperative Agreement Number:</b>	AP22PPQFO000C447
<b>Project Funding Period:</b>	March 1, 2022 – February 28, 2023
<b>Project Report:</b>	<b>CAPS Survey Report</b>
<b>Project Document Date:</b>	February 28, 2023
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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. If reporting on a combined surveys work plan, report accomplishments by survey. When the output can be quantified, a computation of cost per unit is required when useful.\*

**(1) Forest Pest Survey**

<b>Funding Amount</b>	<b>Total Number of Traps</b>	<b>Cost Per Unit</b>
Proposed = \$35,687	Proposed = 80	Proposed= \$446.09
Actual = \$35,687	Actual = 80	Actual =\$446.09

**1. Survey methodology (trapping protocol):**

	<b>Common Name</b>	<b>Scientific Name</b>
<b>Pest:</b>	Siberian Silk Moth	<i>Dendrolimus sibiricus</i>
	Pine-tree Lappet	<i>Dendrolimus pini</i>
	Black fir sawyer	<i>Monochamus urussovii</i>
	European spruce bark beetle	<i>Ips typographus</i>
	Sixtoothed bark beetle	<i>Ips sexdentatus</i>
	Large pine weevil	<i>Hylobius abietis</i>
	Pine Processionary Moth	<i>Thaumetopoea pityocampa</i>
	Pine Beauty Moth	<i>Panolis flammea</i>

	<b>Proposed</b>	<b>Actual</b>
<b>Sites (Locations):</b>	20	20
<b>Traps:</b>	80	80

<b>Number of Counties:</b>	
<b>Counties:</b>	<i>Adams, Arapahoe, Boulder, Delta, Denver, Douglas, Jefferson, Mesa, Montrose, Larimer, Weld</i>

**2. Survey dates:**

	<b>Proposed</b>	<b>Actual</b>
<b>Survey Dates:</b>	May-October	May-October

**3. Benefits and results of survey:**

	<b>Positive</b>	<b>Negative</b>	<b>Total Number</b>
<b>Traps</b>	0	80	80

**(1) Small Grains Survey**

Traps were installed in late May and have been serviced every two weeks. Wheat traps were taken down in August, after all wheat crops had been harvested. No suspect material has been identified so far from any traps.

Funding Amount	Total Number of Traps	Cost Per Unit
Proposed = \$10,766	Proposed = 90	Proposed= \$86
Actual = \$10,766	Actual =90	Actual = \$86

1. Survey methodology (trapping protocol):

	Common Name	Scientific Name
<b>Pest:</b>	Old world boll worm	<i>Helicoverpa armigera</i>
	Snails, no common name	<i>Cochicella spp.</i>
	Sunn pest	<i>Eurygaster integriceps</i>
	Triticum pathotype (Wheat Blast)	<i>Magnaporthe oryzae</i>
	Cotton cutworm	<i>Spodoptera litura</i>
	Silver Y moth	<i>Autographa gamma</i>
	Cucurbit beetle	<i>Diabrotica speciosa</i>
	False codling moth	<i>Thaumatotibia leucotreta</i>

	Proposed	Actual
<b>Sites (Locations):</b>	18	18
<b>Traps:</b>	90	90

<b>Number of Counties:</b>	2
<b>Counties:</b>	<i>Kit Carson, Cheyenne Wells</i>

2. Survey dates:

	Proposed	Actual
<b>Survey Dates:</b>	May-October	May-October

3. Benefits and results of survey:

	Positive	Negative	Total Number
<b>Traps</b>	0	90	90

(1) **Vegetable Commodity Survey**

Traps were installed in late May and serviced as stated in the 2022 CAPS approved methods. Samples were delivered to Colorado State University for screening throughout the survey season. No suspect material has been identified.

Funding Amount	Total Number of Traps	Cost Per Unit
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Proposed = \$28,526	Proposed = 176	Proposed= \$162
Actual = \$28,526	Actual = 154	Actual = \$185

1. Survey methodology (trapping protocol):

	Common Name	Scientific Name
<b>Pest:</b>	Old world boll worm	<i>Helicoverpa armigera</i>
	Tomato fruit borer	<i>Neoleucinodes elegantalis</i>
	Bacterial wilt	<i>Ralstonia solanacearum</i> race 3 biovar 2
	Egyptian cottonworm	<i>Spodoptera littoralis</i>
	Cotton cutworm	<i>Spodoptera litura</i>
	Tomato Brown Rugose Fruit Virus (ToBRFV)	<i>Tobamovirus</i> <i>Tomato Brown Rugose Fruit Virus</i>
	Tomato leafminer	<i>Tuta absoluta</i>
	Cucurbit beetle	<i>Diabrotica speciosa</i>
	Allium leaf miner	<i>Phytomyza gymnostoma</i>
	False codling moth	<i>Thaumatotibia leucotreta</i>
	Cucumber green mottle mosaic	<i>Tobamovirus</i>

	Proposed	Actual
<b>Sites (Locations):</b>	16	14
<b>Traps:</b>	176	154

<b>Number of Counties:</b>	4
<b>Counties:</b>	<i>Pueblo, Otero, Weld, Larimer</i>

2. Survey dates:

	Proposed	Actual
<b>Survey Dates:</b>	May-October	May-October

3. Benefits and results of survey:

	Positive	Negative	Total Number
<b>Traps</b>	0	324	324

4. Database submissions:

Data has been submitted in NAPIS

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

We had difficulty identifying enough onion fields this year. Many previously surveyed sites were not growing the typical commodities needed, and many sites were completely unavailable and unresponsive to any communication. Tobamovirus, Tomato Brown Rugose Fruit Virus, was not surveyed for. The one tomato-producing greenhouse did not have tomatoes this year.

- C. Where appropriate, explain any cost overruns or unobligated funds in excess of \$1,000. \*  
There are no unobligated funds associated with this project.

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