

Pest Detection

Cooperative Agricultural Pest Survey (CAPS)



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Cooperative Agricultural Pest Survey (CAPS) Program

- CAPS Strategic Planning
- Funding
- Guidelines
- Commodity Surveys
- Farm Bill Goal 1 Survey
- Work & Financial Plans – Due August 15
- Data Management
- Performance Measures & Reports





NAPIS Data*	2011 Results	2012 Results	2013 Results
Total number of Priority Pests	122	127	118
Priority Pests targeted for survey (J-3)	105 (86.1%)	102 (80.3%)	95 (80.5%)
Unique pests targeted for survey (J-3)	295	266	229
NAPIS Records	139,539	134,759	131,411
Unique pests with data in NAPIS	790	802	730
Priority Pests <u>with</u> data in NAPIS	92	99	96
Priority Pests with <u>no</u> data in NAPIS	30	28	22
<u>Not</u> Priority Pests <u>with</u> data in NAPIS	698	703	634
Priority Pests with positive records	17	9	9

* Calendar year observation dates





CAPS Resource and Collaboration Site
caps.ceris.purdue.edu



Pest Detection / CAPS Pest & Survey Measures

CAPS Measure	2011 Results	2012 Results	2013 Results	2014 Results
CAPS Participation				
Total number of states/territories	54	53	52	52
Including these territories	PR, VI, GU, CNMI	PR, VI, AS, GU	PR, VI, GU	PR, VI, GU
Number of states/territories with Infrastructure	51	52	51	52
States w/o Infrastructure	AZ, NM, CNMI	AZ	AZ	AZ
Number of states/territories with Surveys	51	51	51	52
States w/o Survey	MO, AZ, NM	AZ, NM	AZ	AZ



Pest Detection / CAPS Pest & Survey Measures

CAPS Measure	2011 Results	2012 Results	2013 Results	2014 Results
CAPS Surveys				
Number of bundled surveys *	130	133	119	116
Number of unique exotic pests for which national surveys are conducted *	295	266	229	220
Average Number of pests per state	17.0	15.6	16.3	16.3
Average number of pests per bundled survey *	6.7	6.1	7.1	7.3
Average number of surveys per state *	2.5	2.6	2.3	2.2
Average cost per individual survey *	\$18,666	\$19,926	\$23,410 [⊗]	\$21,620 [☆]



Pest Detection / CAPS Pest & Survey Measures

CAPS Measure	2011 Results	2012 Results	2013 Results	2014 Results
CAPS Priority Pest List				
Percent of target pests on the CAPS Priority Pest List for which surveys were conducted *	86.1%	80.3%	80.5%	72.4%
Total number of Priority Pests	122	127	118	145
Priority Pests targeted for survey	105	102	95	105
Priority Pests not targeted	17	25	23	40



2014 CAPS – PPQ – Farm Bill Surveys

2014 Measures	CAPS	PPQ	Farm Bill	FB Natl Priority
States and Territories	52	47	43	39
Number of bundled surveys *	116	137 [✕]	108	74
Number of unique exotic pests for which national surveys are conducted *	220	100	183	143
Average Number of pests per state	16.3	10.4	16.2*	10.8
Average number of pests per bundled survey *	7.3	3.5	6.4*	5.7
Average number of surveys per state *	2.2	2.9	2.5	1.9

CAPS & PPQ: Pest Detection funding

Farm Bill: Goal 1 Survey



2014 CAPS – PPQ – Farm Bill Pests

2014 Measures	CAPS	CAPS w/o FB Pests*	PPQ	Farm Bill	FB w/o CAPS Pests
Number of 2014 Priority Pests	145	117	145	145	127
Percent of target pests on the CAPS Priority Pest List for which surveys were conducted *	72.4%	84.6%	46.2%	52.4%	55.9%
Priority Pests targeted for survey	105	99	67	76	71
Priority Pests not targeted	40	18	78	69	56
Additional pests targeted for survey	115	121	33	107	112
Unique pests targeted for survey	220	220	100	183	183

*Removed those pests that appear only in Farm Bill surveys



2014 Farm Bill Pests

2014 Measures	Farm Bill	FB w/o CAPS Pests*	FB Natl Priority	FB Natl Priority w/o CAPS Pests
Number of 2013 Priority Pests	145	127	145	127
Percent of target pests on the CAPS Priority Pest List for which surveys were conducted *	52.4%	55.9%	51.03	54.3%
Priority Pests targeted for survey	76	71	74	69
Priority Pests not targeted	69	56	71	58
Additional pests targeted for survey	107	112	69	74
Unique pests targeted for survey	183	183	143	143

*Removed those pests that appear only in CAPS surveys



2014 CAPS – Farm Bill Pests

2014 Measures	CAPS w/o FB Pests*	FB w/o CAPS Pests*	FB Natl Priority w/o CAPS Pests
Number of 2013 Priority Pests	117	127	127
Percent of target pests on the CAPS Priority Pest List for which surveys were conducted *	84.6%	55.9%	54.3%
Priority Pests targeted for survey	99	71	69
Priority Pests not targeted	18	56	58
Additional pests targeted for survey	121	112	74
Unique pests targeted for survey	220	183	143

*Removed those pests that appear only in the respective surveys



2014 CAPS – PPQ – Farm Bill Surveys

2014 Measures	CAPS w/o FB Pests*	FB Natl Priority w/o CAPS Pests	CAPS & PPQ & FB
Number of 2014 Priority Pests	117	127	145
Percent of target pests on the CAPS Priority Pest List for which surveys were conducted *	84.6%	54.3%	85.5%
Priority Pests targeted for survey	99	69	124
Priority Pests not targeted	18	58	21
Additional pests targeted for survey	121	74	182
Unique pests targeted for survey	220	143	306



Pest Detection / CAPS Pest & Survey Measures

CAPS Measure	2011 Results	2012 Results	2013 Results	2014 Results
New to the United States				
Percent of significant pest introductions that were detected before they had a chance to spread from the original point of colonization and cause severe economical and/or environmental damage *	83.3%	90%	88%	TBD
New or re-introduced into the United States	25	21	17	
Percent listed as reportable/actionable	100%	100%	100%	
Number on Priority Pest List	2	0	1 [☺]	

2013: 20 confirmed; 3 not plant pests; 2 widespread at time of detection

☺ *Trichoferus campestris* – Velvet Longhorned Beetle

