



# **Plant Protection Act Section 7721 Fiscal Year 2023 Spending Plan**

Plant Pest and Disease Management and  
Disaster Prevention Program

January 2023

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## Summary

The U.S. Department of Agriculture (USDA) Animal and Plant Health Inspection Service (APHIS) is allocating \$70.725 million to support 350 projects under the Plant Protection Act's Section 7721 (PPA 7721) to strengthen the nation's infrastructure for pest detection and surveillance, identification, threat mitigation, and safeguard the nursery production system. This amount includes \$62.975 million to fund 322 projects for the Plant Pest and Disease Management and Disaster Prevention Program (PPDMDPP). This amount includes direct program costs. Approximately \$13.5 million of the PPDMDPP funding will be reserved for responding to pest and plant health emergencies throughout the year. Selected projects will be carried out by State and Federal agencies, Tribal nations, nongovernmental organizations, and private entities in 48 states, Guam, and Puerto Rico. By working with these collaborators, USDA will leverage and extend its ability to protect, detect, and respond to plant pests and diseases at local and regional levels.

Since 2009, USDA has supported more than 5,170 projects and provided nearly \$809 million in PPA 7721 funding. These projects have played a significant role in our efforts to protect American agriculture and educate the public about the threat posed by invasive species. The PPA 7721 received more than 460 project submissions for PPDMDPP funding totaling more than \$94 million in funding, during the seven-week open period last summer. USDA is funding approximately 70 percent of the PPDMDPP projects suggested. USDA appreciates all the suggestions received and recognizes the great interest in carrying out work that helps protect U.S. agriculture and the environment from invasive plant pests and pathogens. We thank all applicants for their interest in the PPA 7721 funding.

## Information for Cooperators

Congratulations on receiving funding approval for your project suggestion under the PPDMDPP! In this FY2023 Spending Plan, you will find our funding level by the project submission's title and state listed on the application. If your project is national in scope, you can view your funding level by searching for project's title under the 'National' section. Note: Sub-cooperators, please contact the main project applicant to determine if you were approved for funding.

As a next step, USDA will assign the Agency Authorized Departmental Officer's Designated Representative (ADODR) to each project to guide the cooperative agreement process. The ADODR will contact you in the coming weeks to collaboratively work on the project work plan and financial plan.

In the meantime, if you have not had a previous APHIS cooperative agreement, please obtain an ezFedGrants account. All APHIS cooperative agreements are required to be processed and completed using the ezFedGrants system. PPA 7721 funding recipients must have an eAuthentication (eAuth) account with Level 2 access to use the system. For additional information, please reference the ezFedGrants user guide or visit the USDA's ezFedGrants website.

## Funding by Goal Area

Goal	Goal Area Description	Funding Level
1A	Enhance Plant Pest/Disease Analysis	\$2,057,174
1S	Enhance Plant Pest/Disease Survey	\$14,375,000
2	Target Domestic Inspection Activities at Vulnerable Points in the Safeguarding Continuum	\$6,356,964
3	Pest Identification and Detection Technology Enhancement	\$5,295,125
4	Safeguard Nursery Production	\$2,079,119
5	Outreach and Education	\$4,131,333
6	Enhance Mitigation Capabilities	\$13,875,775

*Note: Additional funding includes Rapid Response and direct costs (\$14,804,510)*

## Funding by State

### Alabama

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0042	Exotic Bark Beetle Survey	Alabama Department of Agriculture and Industries (ADAI)	\$22,000
1S	1S.0051	Grape Commodity Survey	ADAI	\$22,000
<b>TOTAL</b>				<b>\$44,000</b>

### Alaska

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0119	AK PPA Asian Defoliator Survey FY23	State of Alaska Division of Agriculture	\$89,865
5	5.0085	First detector training and engagement in Alaska	University of Alaska Fairbanks	\$39,100
<b>TOTAL</b>				<b>\$128,965</b>

### Arizona

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0201	Delivering enhanced Asian longhorn beetle development forecasts to support early detection and eradication efforts	University of Arizona – Board of Regents	\$90,767
1S	1S.0257	Nursery & Retail, Greenhouse Crops Pest Survey	Arizona Department of Agriculture	\$120,000
1S	1S.0220	Grape Commodity Survey	University of Arizona – Board of Regents	\$34,987
3	3.0562	Improving the identification capacity of hyperdiverse Anthonomus weevils (Coleoptera: Curculionidae) from Mexico, the Un	Arizona State University	\$91,359
6	6.0228	Sonic Weaponry for Managing Rangeland Grasshoppers and Mormon Crickets: Year 3 of 3	USDA APHIS	\$112,871
<b>TOTAL</b>				<b>\$449,984</b>

### Arkansas

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0241	SOD P. ram	Arkansas Department of Agriculture	\$18,000
3	3.0184	Rapid development of affordable, artificial positive controls that mimic pathogen titer and tropism	University of Arkansas System Division of Agri	\$94,635
3	3.0593	Ultrasensitive CRISPR-Cas13a detection of rubus yellow net virus	University of Arkansas System Division of Agri	\$82,365
5	5.0314	Forest Pest Outreach	Arkansas Department of Agriculture	\$38,992
<b>TOTAL</b>				<b>\$233,992</b>

### California

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0476	Asian Defoliating Moth	California Department of Food and Agricultural (CDFA)	\$400,000
1S	1S.0531	Exotic Fruit Fly Survey	CDFA	\$4,500,000
1S	1S.0401	Nursery and Ornamental Survey	CDFA	\$155,544
1S	1S.0534	Spotted Lanternfly Survey	CDFA	\$100,000
1S	1S.0537	Stone Fruit Commodity Survey	CDFA	\$350,000

Goal	Project	Title	Cooperator Entity	Funding Level
2	2.0352	Differential Phase Contrast X-ray Imaging for Automated Detection of Pests in Plants using Artificial Intelligence	Board of Trustees of the Leland Stanford Junior University	\$272,405
2	2.0426	California Detector Dog Teams Program	CDFA	\$4,000,000
3	3.0057	Targeted identification of pheromones and related attractants for invasive cerambycid beetles	University of California, Riverside (UC-Riverside)	\$217,983
3	3.0136	Enhancing diagnostics of cyst nematodes of the genus Globodera	CDFA	\$32,080
3	3.0462	Tools for the identification and detection of gramicolous downy mildews, including the Select Agent Peronosclerospora	University of California	\$378,038
4	4.0178	NORS-DUC National Ornamentals Research Site at Dominican University of California	Dominican University of California	\$315,000
4	4.0550	Development IPM tools to slow the spread or eradicate Box Tree Moth incursions into the United States	USDA APHIS	\$513,582
6	6.0451	Eliminating transmission of Xylella fastidiosa by the glassy-winged sharpshooter using CRISPR technology.	UC-Riverside	\$190,222
6	6.0082	Sterile Navel Orangeworm Technology and Development of an Area-wide IPM Program	USDA ARS	\$1,517,282
6	6.0388	Biological Control of Bagra Bug	CDFA	\$100,000
6	6.0576	Emergency Plant Health Response Teams	CDFA	\$2,000,000
6	6.0445	Implement citrus bacterial pathogen and vector management using citrus-derived antimicrobial peptides	UC-Riverside	\$147,075
<b>TOTAL</b>				<b>\$15,189,211</b>

### Colorado

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0067	Stone Fruit Survey	Colorado Department of Agriculture (CO DoA)	\$38,079
1S	1S.0131	Grape Survey	CO DoA	\$19,806
3	3.0238	Development of high throughput detection of potato mop-top virus and tuber necrotic strains of potato virus Y in dormant	Colorado State University	\$85,161
<b>TOTAL</b>				<b>\$143,046</b>

### Connecticut

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0125	Forest Pest Survey	Connecticut Agricultural Experiment Station (CAES)	\$41,487
1S	1S.0040	Solanaceous Commodity Survey	CAES	\$29,320

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0041	Program Pest - Box Tree Moth Survey	CAES	\$23,620
5	5.0050	Spotted Lanternfly Outreach	CAES	\$34,063
6	6.0251	Enhancing Spotted Lanternfly Mitigation by Understanding the Timing of Egg Diapause Start and End	US Forest Service	\$60,984
<b>TOTAL</b>				<b>\$189,474</b>

### District of Columbia

Goal	Project	Title	Cooperator Entity	Funding Level
N/A	N/A	No projects submitted	N/A	\$0
<b>TOTAL</b>				<b>\$0</b>

### Delaware

Goal	Project	Title	Cooperator Entity	Funding Level
5	5.0594	Delaware Spotted Lanternfly Outreach	Delaware Department of Agriculture	\$102,777
6	6.0158	Protection of North American ash against emerald ash borer with biological control: Measuring Natural Enemy Impacts	USDA ARS	\$213,252
6	6.0453	Preemptive biological control of a high-risk invasive longhorn beetle	USDA ARS	\$50,430
<b>TOTAL</b>				<b>\$366,459</b>

### Florida

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0078	Exotic Fruit Fly Survey	Florida Department of Agriculture and Consumer Services (FDACS)	\$1,000,000
1S	1S.0368	Tomato Commodity Survey	FDACS	\$160,000
2	2.0124	O.C.E.A.N. (Online Commerce for Exotic Arthropods and Nurseries) Surfing	FDACS	\$84,082
2	2.0365	Detector Dog Inspection and Enhanced Domestic Pest Detection	FDACS	\$1,296,517
3	3.0382	Improved Surveillance and Molecular Diagnostic Bulk Processing Procedures for <i>Helicoverpa armigera</i>	University of Florida (U of F)	\$84,858
3	3.0494	Improving Detection and Diagnostic Capacity for the Peach Root-Knot Nematode, <i>Meloidogyne floridensis</i> , in Florida	FDACS	\$93,376
3	3.0499	Validation of morphometric information to differentiation between invasive <i>Chrysodeixis chalcites</i> and native <i>C. includens</i>	University of Florida - West Florida Research	\$69,741
5	5.0448	Florida First Detector	U of F	\$61,911
6	6.0368	Evaluating predatory plant bugs (Miridae) for biological control against the invasive South American tomato leafminer	University of California	\$91,819

Goal	Project	Title	Cooperator Entity	Funding Level
6	6.0008	Establishment and evaluation of Brazilian peppertree biological control	USDA ARS	\$250,000
6	6.0097	Overseas surveys, curation, and colonization of potential biological control agents of cogongrass ( <i>Imperata cylindrica</i> )	USDA ARS	\$215,030
6	6.0297	Biological Control of Cactus Moth, <i>Cactoblastis cactorum</i> (Berg)	FDACS	\$96,948
6	6.0158	Investigating interactions between multiple biocontrol agents used to control the invasive plant air potato	U of F	\$76,371
6	6.0559	Establishment and Evaluation of Air Potato Biological Control	FDACS	\$258,922
6	6.0589	Phytosanitary Irradiation of Thripidae/ Phlaeothripidae and Pseudococcidae	USDA APHIS	\$57,602
6	6.0549	Registration of <i>Verticillium nonalfalfae</i> to control tree-of-heaven	Pennsylvania State University	\$349,154
6	6.0542	Postharvest Treatment Development for Apple Maggot Fly in Apples Using Saturated Steam Method	USDA APHIS	\$110,000
<b>TOTAL</b>				<b>\$4,356,331</b>

### Georgia

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0035	Forest Pest Survey	Georgia Department of Agriculture (GA DoA)	\$52,618
1S	1S.0036	Field Crops Pest Survey	GA DoA	\$35,590
1S	1S.0039	Nursery and Ornamental Survey	GA DoA	\$23,744
5	5.0197	First Detector Network in Georgia	University of Georgia	\$42,240
<b>TOTAL</b>				<b>\$154,192</b>

### Guam

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0038	Asian Defoliator Survey	University of Guam	\$27,656
<b>TOTAL</b>				<b>\$27,656</b>

### Hawaii

Goal	Project	Title	Cooperator Entity	Funding Level
2	2.0215	Hawaii Detector Dog Program	Hawaii Department of Agriculture	\$492,183
3	3.0308	Molecular diagnostic catalog for tracking invasive noctuid moth introductions in Hawaii	University of Hawaii – Manoa (U of H - Manoa)	\$99,910
3	3.0271	Integrative identification methods for <i>Bactrocera</i> fruit flies (yr 3)	U of H - Manoa	\$388,247
3	3.0624	Developing molecular diagnostic tools to determine strain and mating status of fruit fly incursions	USDA ARS	\$190,782



Goal	Project	Title	Cooperator Entity	Funding Level
3	3.0276	Identification of Oriental Fruit Fly Larvae & Trap Captures (yr 3)	U of H - Manoa	\$253,917
6	6.0061	Field testing of bait stations containing a fungal pathogen to control invasive fruit flies	University of Hawaii	\$206,425
6	6.0138	Development of protein food odor based chemical lure for female oriental fruit fly	USDA ARS	\$152,089
6	6.0199	Optimizing Bacterial Probiotic Establishment for Medfly Sterile Insect Technique	USDA ARS	\$164,576
6	6.0407	Developing an insecticide rotation to combat spinosad-resistance in three species of invasive Tephritidae fruit flies	University of Hawaii	\$129,851
6	6.0411	Management of hala scale in Hawaii, and survey of its potential biological control agents in its native range	University of Hawaii	\$51,225
6	6.0423	Enhanced mitigation and rapid response to introduced snails, earthworms, and flatworms in Hawaii	Bishop Museum	\$133,760
6	6.0137	Systems Approach for the Management of Coffee Berry Borer in Hawaii and Puerto Rico with Emphasis on Biological Control	USDA ARS	\$275,110
<b>TOTAL</b>				<b>2,538,075</b>

### Idaho

Goal	Project	Title	Cooperator Entity	Funding Level
6	6.0068	PPA PCN Immunity	University of Idaho (U of ID)	\$641,696
6	6.0022	PPA Combatting PCN through genetic diversity and resistance	U of ID	\$194,869
6	6.0600	Nez Perce Tribe Bio-control Project-Noxious/Invasive Weed Survey and Control	Nez Perce Tribe-Biocontrol Center	\$250,000
6	6.0302	Protecting the US potato industry against exotic viroid pathogens impacting potato trade	U of ID	\$124,474
<b>TOTAL</b>				<b>\$1,211,039</b>

### Illinois

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0372	Orchard Commodity Survey	University of Illinois (U of IL)	\$26,617
1S	1S.0330	High Risk Pathway Survey	U of IL	\$32,324
5	5.0027	Forest Pest Outreach	The Morton Arboretum	\$85,752
<b>TOTAL</b>				<b>\$144,693</b>

### Indiana

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0043	Exotic Woodborer and Bark Beetle Survey	Indiana DNR Division of Entomology and Plant Path (IN DNR – E&PP)	\$36,704

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0075	Specialty Crop Survey	IN DNR – E&PP	\$100,000
5	5.0100	Forest Pest Outreach and Survey Project FY2023	Indiana Department of Natural Resources	\$166,556
<b>TOTAL</b>				<b>\$303,260</b>

### Iowa

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0159	Seed Health Dashboard: Monitoring Seed Imports for Pests of Phytosanitary Concern	Iowa State University	\$162,386
1S	1S.0003	Walnut Twig Beetle and Thousand Cankers Disease Survey	Iowa Department of Natural Resources	\$20,000
<b>TOTAL</b>				<b>\$182,386</b>

### Kansas

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0026	Grape Commodity Survey	Kansas Department of Agriculture (KS DoA)	\$22,800
1S	1S.0023	Walnut Twig Beetle/Thousand Canker Disease Survey	KS DoA	\$22,800
<b>TOTAL</b>				<b>\$45,600</b>

### Kentucky

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0127	Grape Commodity Survey	University of Kentucky Research Foundation (UNK-RF)	\$28,413
1S	1S.0124	Orchard Commodity Survey	UNK-RF	\$19,150
1S	1S.0160	Solanaceous Commodity Survey	UNK-RF	\$29,611
1S	1S.0115	Program Pest - Phytophthora ramorum Nursery Survey	UNK-RF	\$18,000
1S	1S.0043	Exotic Wood Borer/Bark Beetle Survey	UNK-RF	\$22,845
5	5.0166	Invasive Pest Outreach: Focus Firewood	UNK-RF	\$12,665
5	5.0389	Invasive Pest Outreach	UNK-RF	\$30,431
5	5.0397	Spotted Lanternfly Outreach	UNK-RF	\$41,457
6	6.0298	The Japanese beetle control near airports and cargo transportation facilities: Field Testing	University of Kentucky	\$126,352
6	6.0432	Field trial to evaluate EAB specific gene silencing as a component of an IPM program to save ash	University of Kentucky	\$86,725
<b>TOTAL</b>				<b>\$415,649</b>

### Louisiana

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0016	Solanaceous Commodity Survey	Louisiana Department of Agriculture and Forestry (LA DoAF)	\$18,773
1S	1S.0015	Citrus Commodity Survey	LA DoAF	\$13,853
1S	1S.0014	Sudden Oak Death Survey	LA DoAF	\$18,000
<b>TOTAL</b>				<b>\$50,626</b>

### Maine

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0304	Pathway Survey for Pests of Multiple Agricultural Systems	Maine Department of Agriculture, Conservation and Forestry (MDACF)	\$33,640
1S	1S.0416	Cyst Nematode Survey	MDACF	\$35,000
1S	1S.0043	Exotic Wood Borer/Bark Beetle Survey	MDACF	\$46,927
5	5.0036	Hemlock Stewards Northeast: Building Strong Foundations for Healthy Watersheds	Gulf of Maine Research Institute	\$74,857
5	5.0010	Invasive Forest Pest Outreach and Education	Cumberland County Soil & Water Conservation District	\$45,000
5	5.0291	Tribes in Maine Invasive Species Project (TMISP)	University of Maine	\$65,474
5	5.0369	Slowing the Spread of Invasive Plants Through Education and Outreach to Nurseries, Greenhouses and Garden Centers	MDACF	\$26,059
5	5.0304	Increasing Awareness of Firewood Movement as Pathway for Invasive Forest Pests	MDACF	\$20,388
<b>TOTAL</b>				<b>\$347,345</b>

### Maryland

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0037	Improving predictive modeling and surveillance allocation with the Cost-Effective Surveillance Allocation Tool 2.0	University of Maryland, College Park (UM-CP))	\$146,403
1A	1A.0110	Risk analysis of invasive weeds acting as pathways for the spread of foreign plant pathogens	USDA ARS	\$124,000
1A	1A.0216	Estimating Costs and Success of Pest Eradication Programs	UM-CP	\$97,580

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0520	2023 PPA 7721 Maryland Nursery and Ornamental Survey	Maryland Department of Agriculture (MDA)	\$24,774
1S	1S.0506	2023 PPA 7721 Maryland Phytophthora ramorum Nursery Survey	MDA	\$18,000
1S	1S.0556	Maryland Asian Defoliator Survey	MDA	\$25,000
1S	1S.0562	Walnut Twig Beetle/Thousand Cankers Disease Survey of Maryland	MDA	\$14,000
1S	1S.0565	Oak commodity survey of Maryland	MDA	\$13,500
3	3.0134	Development of CRISPR-Cas13-based methods for sensitive detection of three quarantine significant sugarcane viruses	University of Maryland	\$117,097
3	3.0241	Adaption of an isothermal recombinase polymerase amplification assay for detection of Phytophthora ramorum in irrigation	NORS-DUC	\$105,588
3	3.0285	Development and enhancement of plant DNA virus detection protocols using high throughput sequencing	USDA APHIS	\$154,117
3	3.0280	Development of a targeted metabarcoding method for the identification of 'Candidatus phytoplasma sp.'	USDA APHIS	\$101,829
3	3.0349	Development of a Universal Proficiency Test kit for Flexible Methods-based Laboratory Certification	USDA APHIS	\$150,000
3	3.0506	Systematic studies of Mycosphaerellaceae fungi on plants and plant products intercepted at the U.S. ports of entry	USDA APHIS	\$134,914
3	3.0350	Imaging and Georeferencing of Undocumented Plant Pathogens	USDA ARS	\$118,250
6	6.0034	Regional to National Post-Release Evaluation of Emerald Ash Borer Biological Control	University of Maryland	\$191,187
6	6.0214	Field Release and Evaluation of Ramularia crupinae for the Management of Noxious Crupina vulgaris Populations	USDA ARS	\$218,859
<b>TOTAL</b>				<b>\$1,755,098</b>

### Massachusetts

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0336	Phytophthora ramorum Nursery Survey	Massachusetts Department of Agricultural Resources (MA DoAR)	\$18,000
3	3.0183	Develop a solar powered UVA LED light trap for improved AGM detection and surveillance	USDA APHIS	\$73,771
5	5.0377	Asian longhorned beetle (ALB) outreach campaign	USDA APHIS	\$150,000
5	5.0274	FOREST AND AGRICULTURAL PEST OUTREACH	MA DoAR	\$66,541
5	5.0397	Spotted Lanternfly Outreach	MA DoAR	\$37,200
6	6.0419	Developing biological control methods for Roseau cane scale	USDA APHIS	\$198,859
6	6.0348	Classical Biological Control of Box Tree Moth	USDA APHIS	\$79,208
<b>TOTAL</b>				<b>\$623,579</b>

### Michigan

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0432	Program Pest - Pale Cyst Nematode / Golden Nematode Survey	Michigan Department of Agriculture and Rural Dev. (MI DoA&RD)	\$14,500
1S	1S.0436	Program Pest - Phytophthora ramorum Nursery Survey	MI DoA&RD	\$18,000
1S	1S.0400	Forest Pest Survey	MI DoA&RD	\$55,212
1S	1S.0511	Fruit Crop Pest Survey	MI DoA&RD	\$46,000
3	3.0327	Year 2: Revision of Euwallacea species limits for improved diagnostics of potential invasive species.	Michigan State University	\$203,928
<b>TOTAL</b>				<b>\$337,640</b>

### Minnesota

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0049	Vegetable Crops, Vegetable Crops Pest Survey (Agricultural Pathways Survey of Fruit and Vegetable Pests)	Minnesota Department of Agriculture (MN DoA)	\$129,751
1S	1S.0216	Taxon, Cyst Nematode Survey	MN DoA	\$65,629
1S	1S.0218	Nursery and Retail Plants Pest Survey	MN DoA	\$121,611
5	5.0065	Invasive Pest Outreach and First Detector	MN DoA	\$70,183
<b>TOTAL</b>				<b>\$387,174</b>

### Mississippi

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0079	Asian Defoliator Survey	Mississippi State University (MSU)	\$39,384
1S	1S.0109	Pine Commodity Survey	Mississippi Department of Agriculture	\$31,885
1S	1S.0458	Palm Survey	MSU	\$41,092
3	3.0108	Eastern Regional Screening Center	MSU	\$165,000
5	5.0454	Educator Boxes - Insect Invasion	MSU	\$29,181
5	5.0107	Bug Blues Outreach Program	MSU	\$91,152
5	5.0104	Farmer and Nursery Education Program	MSU	\$15,305
<b>TOTAL</b>				<b>\$412,999</b>

### Missouri

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0180	Thousand Canker Disease	Missouri Department of Agriculture	\$25,000
<b>TOTAL</b>				<b>\$25,000</b>

### Montana

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0511	Montana Mollusk Survey	Montana Department of Agriculture (MT DoA)	\$18,500
1S	1S.0526	Montana Exotic Woodboring Beetle and Bark Beetle Survey	MT DoA	\$18,000
1S	1S.0514	Montana Nursery and Ornamental Plant Survey	MT DoA	\$18,000
5	5.0018	Don't Move Firewood Outreach Campaign	The Nature Conservancy	\$193,856
6	6.0538	Enhance Mitigation of the Eastern Heath Snail, Xerolenta obvia, in Montana	Montana State University	\$67,579
<b>TOTAL</b>				<b>\$315,935</b>

### Nebraska

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0103	Khapra Beetle	Nebraska Department of Agriculture (NE DoA)	\$5,000
1S	1S.0111	Potato Cyst Nematode	NE DoA	\$37,000
<b>TOTAL</b>				<b>\$42,000</b>

### Nevada

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0063	Cyst Nematode Survey	Nevada Department of Agriculture (NV DoA)	\$35,609
1S	1S.0064	Solanaceous Commodity Survey	NV DoA	\$30,000
1S	1S.0066	Program Pest - Phytophthora ramorum Nursery Survey	NV DoA	\$18,000
1S	1S.0038	Asian Defoliator Survey	NV DoA	\$16,000
1S	1S.0058	Vegetable Crops Pest Survey	NV DoA	\$16,000
1S	1S.0042	Khapra Beetle Survey	NV DoA	\$5,043
1S	1S.0052	Palm Commodity Survey	NV DoA	\$14,000
5	5.0112	Nevada Invasive Pest Outreach	NV DoA	\$40,000
<b>TOTAL</b>				<b>\$174,652</b>

### New Hampshire

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0265	Forest Pest Survey	New Hampshire Department of Agriculture, Markets & Food (NH DoAM&F)	\$28,826
1S	1S.0072	Nursery and Ornamental Survey	NH DoAM&F	\$7,137
1S	1S.0062	Vegetable Crops Pest Survey	NH DoAM&F	\$7,448
5	5.0095	NH Spotted Lanternfly Outreach	NH DoAM&F	\$30,000
6	6.0024	Advancing blueberry plant protection: creating identification and monitoring tools for parasitoids of blueberry gall midge	University of New Hampshire	\$105,897
<b>TOTAL</b>				<b>\$179,308</b>

### New Jersey

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0546	Mollusk Survey	New Jersey Department of Agriculture (NJ DoA)	\$32,411
5	5.0555	NJ Spotted Lanternfly Public Outreach and Business Awareness Program	NJ DoA	\$250,000
<b>TOTAL</b>				<b>\$282,411</b>

### New Mexico

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0004	Nut Pest Survey	New Mexico Department of Agriculture	\$35,000
<b>TOTAL</b>				<b>\$35,000</b>

### New York

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0296	Orchard Commodity Survey	New York State Department of Agriculture & Markets (NY DoA&M)	\$110,000
1S	1S.0299	Grape Commodity Survey	NY DoA&M	\$130,000
1S	1S.0300	Stone Fruit Commodity Survey	NY DoA&M	\$280,000
1S	1S.0295	Box Tree Moth Survey	NY DoA&M	\$121,761
3	3.0130	NPDN and State Diagnostician Preparedness Training through the USDA-APHIS-Beltsville Laboratory and other experts.	Cornell University	\$198,819
3	3.0375	NPDN & State Diagnostician Preparedness Training in Morphological Fungal Identification by USDA-APHIS-NIS Scientists.	Cornell University	\$76,503

Goal	Project	Title	Cooperator Entity	Funding Level
5	5.0516	Spotted Lanternfly Outreach and Education	Cornell University	\$72,000
5	5.0386	Box Tree Moth Outreach and Education Program	NY DoA&M	\$209,594
6	6.0293	Saint Regis Mohawk Tribe EAB Emergency Response Y3 Project	Saint Regis Mohawk Tribe	\$202,240
6	6.0330	Deregulation and Enhanced Regulatory Activities of Golden Nematode ( <i>Globodera rostochiensis</i> ) in NY	NY DoA&M	\$146,639
<b>TOTAL</b>				<b>\$1,547,556</b>

### North Carolina

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0248	Automated host mapping tool for spread modeling and field operations planning	North Carolina State University (NCSU)	\$129,176
1A	1A.0371	Simulating pest leakage and spatio-temporal propagule pressure to improve phytosanitary program design and evaluation us	NCSU	\$127,192
1A	1A.0496	Adding value of information modules to the Eradication Analysis & Decision Support tool	NCSU	\$148,560
1A	1A.0543	Developing new predictive modeling approaches to estimate plant pest suitability	NCSU	\$155,886
1A	1A.0474	Assessing climate suitability and developing methods to incorporate potential climate change impacts for the CAPS pests	NCSU	\$136,112
1A	1A.0521	Trade Route Analytic Computing and Evaluation (TRACE)	NCSU	\$226,585
1A	1A.0486	Analytical support for OPEP assessments and CAPS datasheets	NCSU	\$207,502
1A	1A.0491	Development of an automated information retrieval and analysis (AIRA) model for monitoring global exotic pest activity	NCSU	\$182,524
1S	1S.0016	Solanaceous Commodity Survey	North Carolina Department of Agriculture & Conservation Services (NC DoA&CS)	\$15,000
1S	1S.0090	Phytophthora ramorum Nursery Survey	NC DoA&CS	\$13,600
1S	1S.0026	Grape Commodity Survey	NC DoA&CS	\$11,000
1S	1S.0038	Asian Defoliator Survey	NC DoA&CS	\$11,100
1S	1S.0453	Program Pest - Box Tree Moth	NC DoA&CS	\$11,400
3	3.0348	Deployment and field testing of a sensor integrated platform for monitoring emerging Phytophthora diseases	NCSU	\$273,187
5	5.0497	Invasive Species Outreach	NC DoA&CS	\$23,000
6	6.0401	Establishing and Assessing Biological Control Agents of Emerald Ash Borer in North Carolina	NCSU	\$66,154
6	6.0487	Completion and delivery of the delimitation survey expert system (DSES) for new pest response	NCSU	\$146,748
<b>TOTAL</b>				<b>\$1,884,726</b>



### North Dakota

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0238	General Cyst Nematode	North Dakota Department of Agriculture (ND DoA)	\$14,243
1S	1S.0210	Program Pest Survey, Potato Cyst Nematode	ND DoA	\$94,500
1S	1S.0092	Grape Commodity Survey ND	North Dakota State University	\$30,000
<b>TOTAL</b>				<b>\$138,743</b>

### Ohio

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0192	Mapping the risk of beech leaf disease	The Ohio State University	\$108,171
1S	1S.0384	Phytophthora ramorum Nursery Soil/Container Mix and Retail Plant Survey	Ohio Department of Agriculture (OH DoA)	\$18,000
1S	1S.0375	Grape Commodity Survey	OH DoA	\$30,000
1S	1S.0382	Orchard Commodity Survey	OH DoA	\$81,842
1S	1S.0592	Surveillance of Spotted Lanternfly in High-Risk Transportation Sites in Eastern Ohio	Franciscan University of Steubenville	\$3,177
4	4.0475	Prediction Modeling of Lanternfly-infected Geranium by <i>Ralstonia solanacearum</i>	The Ohio State University	\$96,277
5	5.0027	Forest Pest Outreach	OH DoA	\$50,140
<b>TOTAL</b>				<b>\$387,607</b>

### Oklahoma

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0090	Phytophthora ramorum Nursery Survey	Oklahoma Department of Ag, Food and Forestry	\$18,500
<b>TOTAL</b>				<b>\$18,500</b>

### Oregon

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0286	Asian moth defoliator survey	Oregon Department of Agriculture (OR DoA)	\$237,889
1S	1S.0461	Oregon Exotic Woodborer/bark beetle & Vespa hornet survey	OR DoA	\$41,971
1S	1S.0188	Oregon Orchard Commodity survey	OR DoA	\$107,302
1S	1S.0169	Oregon Solanaceous Survey	OR DoA	\$65,000

Goal	Project	Title	Cooperator Entity	Funding Level
3	3.0464	Oregon National Identification Center for Support of CAPS and Other Surveys	OR DoA	\$122,000
4	4.0548	Optimizing certification and quarantine protocols for Fragaria and Rubus nursery production and plant material movement	USDA ARS	\$207,915
4	4.0552	Potential Pathways of Virus Introduction	OR DoA	\$127,437
4	4.0279	Strawberry Nursery Production	USDA ARS	\$214,593
4	4.0187	Using NGS to Verify Virus Free Status of Legacy Material (yr 2)	OR DoA	\$98,318
6	6.0155	Synthetic bread dough odor as a novel tool for managing and detecting invasive gastropods	Oregon State University	\$151,721
6	6.0399	Deploying a Rapid Response Biocontrol Strategy against Emerald Ash Borer in Oregon	OR DoA	\$256,243
6	6.0467	Biological Control of Spotted Wing Drosophila in Oregon	OR DoA	\$107,584
6	6.0035	Railyard Inspection Survey for SLF and other Hitchhiking Pests	OR DoA	\$51,991
<b>TOTAL</b>				<b>\$1,789,964</b>

### Pennsylvania

Goal	Project	Title	Cooperator Entity	Funding Level
1A	1A.0402	Analysis of National Native and Nonnative Bee and Wasp Data	Pennsylvania Department of Agriculture (PA DoA)	\$14,329
1S	1S.0019	Orchard Commodity Disease Survey	PA DoA	\$100,000
1S	1S.0016	Solanaceous Commodity Survey	PA DoA	\$45,000
1S	1S.0425	Small Fruit Pest Survey	PA DoA	\$30,000
1S	1S.0190	Program Pest - Phytophthora ramorum Nursery Survey and regional support	PA DoA	\$15,000
1S	1S.0207	Program Pest - Cucumber Green Mottle Mosaic Virus Survey	PA DoA	\$20,000
1S	1S.0578	Box Tree Moth Survey	PA DoA	\$15,700
1S	1S.0545	Grape Commodity Survey	PA DoA	\$70,000
1S	1S.0007	Stone Fruit Commodity Survey	PA DoA	\$60,000
3	3.0221	FY2023 Screening and Identification Services for Wood-boring Insect Pests at Carnegie Museum	Carnegie Museum of Natural History	\$48,000
3	3.0402	Nonnative Wasp Survey	PA DoA	\$59,204
4	4.0497	Enhancement of established and development of new nursery stock certification programs	PA DoA	\$138,000
5	5.0031	Forest Pest Outreach (FPO) FY2023	PA DoA	\$72,818
5	5.0397	Spotted Lanternfly Outreach	Pennsylvania State University	\$389,961
6	6.0140	Developing state risk map web applications to rapidly find and respond to properties with spotted lanternfly outbreaks	Temple University	\$99,604
<b>TOTAL</b>				<b>\$1,177,616</b>

### Puerto Rico

Goal	Project	Title	Cooperator Entity	Funding Level
3	3.0104	Incorporating whole genome analysis to characterize Helicoverpa hybridization status	CEQUIS, University of Puerto Rico	\$205,954
<b>TOTAL</b>				<b>\$205,954</b>

### Rhode Island

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0312	Vegetable Crops Pest Survey	RI DEM Division of Agriculture (RI DEM DoA)	\$37,500
1S	1S.0254	Grape Commodity Survey	RI DEM DoA	\$23,712
1S	1S.0224	Program Pest - Phytophthora ramorum Nursery Survey	RI DEM DoA	\$17,896
1S	1S.0625	Orchard Commodity Survey	University of Rhode Island	\$30,798
5	5.0609	Rhode Island Invasive Pest Outreach	University of Rhode Island	\$17,241
<b>TOTAL</b>				<b>\$127,147</b>

### South Carolina

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0550	Grape Commodity Survey	Clemson University Department of Plant Industry (Clemson DPI)	\$35,859
1S	1S.0007	Stone Fruit commodity survey	Clemson DPI	\$22,628
1S	1S.0477	Phytophthora ramorum Nursery Survey	Clemson DPI	\$18,504
1S	1S.0015	Citrus Commodity Survey	Clemson DPI	\$20,000
5	5.0542	Southeastern Regional Forest Health and Invasive Species Education Program	Clemson University	\$65,957
5	5.0406	Targeted Outreach for Constructive Public Reporting	Clemson DPI	\$35,683
<b>TOTAL</b>				<b>\$198,631</b>

### South Dakota

Goal	Project	Title	Cooperator Entity	Funding Level
N/A	N/A	No projects submitted	N/A	\$0
<b>TOTAL</b>				<b>\$0</b>

### Tennessee

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0337	Tennessee Asian Defoliator Survey	University of Tennessee at Martin	\$60,000
1S	1S.0148	Phytophthora ramorum nursery survey	Tennessee Department of Agriculture (TN DoA)	\$18,000
1S	1S.0368	Multi State Vascular Streak Dieback Detection Survey	TN DoA	\$68,228
3	3.0309	Protocol Development for the Isolation, Detection, and Identification of Causal Agent of Vascular Streak Dieback (VSD)	Tennessee State University	\$98,942
5	5.0341	Invasive Pest Educational Outreach	TN DoA	\$10,000
5	5.0536	Forest Pest Outreach and Survey Project (FPOSP), Tennessee, FY23	University of Tennessee	\$56,953
6	6.0484	Post-Release Aftermath Assessment of Biological Control of Emerald Ash Borer in a Southern Climate (Tennessee)	University of Tennessee	\$95,885
<b>TOTAL</b>				<b>\$408,008</b>

### Texas

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0231	Texas Asian Defoliator Survey	Sam Houston State University	\$53,775
1S	1S.0046	Texas Field Survey for Corn and Small Grain Priority Pests	Sam Houston State University	\$54,492
1S	1S.0530	FY23 Stone Fruit Survey - TX	Texas A&M Agrilife Extension Service	\$50,000
1S	1S.0532	FY23 Grape Commodity Survey - TX	Texas A&M AgriLife Extension Service	\$67,112
3	3.0226	CRISPR-based diagnostics for identification of lepidopteran pests	University of Florida	\$108,065
5	5.0078	Mexican Fruit Fly Public Outreach in Texas	TX Citrus Pest & Disease Management Corp	\$42,000
5	5.0054	Continuation of Citrus Disease and Pest Educational, Public Outreach and Management Program in Gulf Coastal counties of	Sam Houston State University	\$44,591
5	5.0311	Enhancing Outreach Tools and Opportunities	USDA APHIS	\$22,750
6	6.0118	Biological Control of Brazilian Peppertree in the United States FY2023	USDA APHIS	\$260,000
6	6.0211	Deployment of bait stations as key component of systems approach for the eradication program of Mexfly in Texas	Texas A&M University Kingsville	\$143,943

Goal	Project	Title	Cooperator Entity	Funding Level
6	6.0292	Non-hydrolytic synthesis of magnetite (Fe <sub>3</sub> O <sub>4</sub> ) nanoparticles functionalized with 1-dodecyl xanthate and their efficacy ag	Sam Houston State University	\$82,630
6	6.0384	Application of Nano-therapeutics for the Treatment of HLB	Baylor University	\$237,854
6	6.0394	Developing Assays to Distinguish Radiated Sperm from Wild Mexican Fruit Flies	Baylor University	\$174,197
6	6.0373	Targeted antimicrobials to maximize the production and health of <i>Anastrepha ludens</i> , the Mexican fruit fly	North Carolina State University	\$267,812
6	6.0431	A CRISPR-based antimicrobial for the targeted removal of bacterial plant pathogens.	North Carolina State University	\$223,370
6	6.0512	Novel deployment strategy of MalEX, an attract and kill strategy for the control of citrus leafminer	Texas A&M University-Kingsville	\$141,589
6	6.0544	Temperature inducible precision guided sterile insect technique (TI-pgSIT) for tephritid control	University of California, San Diego	\$257,313
<b>TOTAL</b>				<b>\$2,231,493</b>

### Utah

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0011	Orchard Commodity Survey	Utah State University	\$17,000
1S	1S.0025	Asian Defoliator Survey	Utah State University	\$15,000
3	3.0194	Effects of pest monitoring traps on genetic diversity, colony abundance, and lineage survival of pollinator populations	Utah State University	\$74,175
3	3.0310	New Methods for Exotic Bee Monitoring using DNA Barcoding and MinION Sequencing	USDA ARS	\$49,898
5	5.0102	Invasive Pest Outreach	Utah State University	\$49,995
<b>TOTAL</b>				<b>\$206,068</b>

### Vermont

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0512	Exotic Wood Borer/Bark Beetle Survey	Vermont Agency of Agriculture, Food and Markets (VT AoAF&M)	\$31,788
1S	1S.0038	Asian Defoliator Survey	VT AoAF&M	\$20,622
1S	1S.0090	Phytophthora ramorum Nursery Survey	VT AoAF&M	\$18,500
1S	1S.0598	Fruit Crops Pest Survey	University of Vermont (UoV)	\$29,075
5	5.0314	Forest Pest Outreach Project	UoV	\$97,684

Goal	Project	Title	Cooperator Entity	Funding Level
<b>TOTAL</b>				<b>\$197,669</b>

### Virginia

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0090	Phytophthora ramorum Nursery Survey	VA Department of Agriculture and Consumer Services (VA DoA & CS)	\$18,000
1S	1S.0467	Grape Commodity Survey	VA DoA & CS	\$27,790
1S	1S.0478	Forest Pest Survey	VA DoA & CS	\$43,694
<b>TOTAL</b>				<b>\$89,484</b>

### Washington

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0094	Pathway Survey for Pests of Multiple Agricultural Systems	Washington State Department of Agriculture (WA State DoA)	\$172,893
1S	1S.0260	Asian Defoliator Survey	WA State DoA	\$280,000
1S	1S.0182	2023 WSDA Terrestrial Mollusk Survey	WA State DoA	\$85,000
1S	1S.0026	Grape Commodity Survey	WA State DoA	\$120,000
3	3.0488	WSDA Exotic Pest Survey Identification Center	WA State DoA	\$125,000
3	3.0123	Molecular research to support the Northern Giant Hornet (NGH) response	WA State DoA	\$217,945
3	3.0125	Molecular characterization of 16SrV group phytoplasmas in WA State to assess risks to economically valuable crops	WA State DoA	\$86,487
3	3.0391	Identification of new 'Ca. L. solanacearum' plant pathogens and their psyllid vectors and plant hosts in the NW U.S.	USDA ARS	\$64,000
4	4.0223	Mitigating the risks of X-disease phytoplasma introduction and transmission in the nursery environment.	Washington State University	\$112,745
4	4.0269	Little Cherry Disease Survey of X-Disease Phytoplasma in Washington's Certified Prunus Nurseries	WA State DoA	\$166,725
5	5.0595	Increasing Native Vigilance, Awareness, and Surveillance of Invasives via Education and Resources (INVASIVE-R) Project	Washington State University	\$89,403
6	6.0126	Washington State Northern Giant Hornet Response	WA State DoA	\$774,821
6	6.0203	Lymantria dispar asiatica Precision Delimit and Post-treatment Response in Washington State	WA State DoA	\$142,000
<b>TOTAL</b>				<b>\$2,437,019</b>

### West Virginia

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0142	Asian Defoliator Survey	West Virginia Department of Agriculture (WV DoA)	\$20,000
1S	1S.0239	Solanaceous Commodity Survey	WV DoA	\$12,000
1S	1S.0240	Phytophthora ramorum Nursery Survey	WV DoA	\$18,000
5	5.0389	Invasive Pest Outreach	WV DoA	\$60,000
6	6.0204	Enhanced Mitigation and Rapid Response to Reduce Spread and Impact of SLF in the US: Novel Bio-Based Monitoring Tools	USDA ARS	\$124,226
<b>TOTAL</b>				<b>\$234,226</b>

### Wisconsin

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0265	Forest Pest Survey	State of Wisconsin	\$41,272
1S	1S.0154	WI FY23 Tribal Forest Pest Survey	Wisconsin Tribal Conservation Advisory Council	\$40,000
1S	1S.0317	Potato Cyst Nematode Survey	University of Wisconsin-Madison (UW – Madison)	\$73,460
4	4.0244	Protocols to Ensure Ornamental Plant Growing Medium is Free of Ralstonia solanacerum R3bv2	UW – Madison	\$88,527
5	5.0032	Wisconsin Forest Pest Disease Outreach Initiative	Wisconsin DATCP	\$57,423
5	5.0317	Improving monitoring for impactful pests in Wisconsin	UW Madison	\$69,000
5	5.0332	WI FY23 Tribal Outreach	Wisconsin Tribal Conservation Advisory Council	\$78,000
6	6.0377	WI FY23 Tribal Rapid Response	Wisconsin Tribal Conservation Advisory Council	\$25,762
<b>TOTAL</b>				<b>\$473,444</b>

### Wyoming

Goal	Project	Title	Cooperator Entity	Funding Level
N/A	N/A	No projects submitted	N/A	\$0
<b>TOTAL</b>				<b>\$0</b>

### National

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0196	Survey Supplies Procurement Program (Traps and Lures)	USDA APHIS	\$700,000
1S	1S.0661	National Survey of Honey Bee Pests and Diseases	USDA APHIS	\$1,357,332
2	2.0509	PPA 7721 Canine Team Training	USDA APHIS	\$211,777
5	5.0431	Citrus Health Outreach	USDA APHIS	\$100,000
5	5.0359	Continuation of Hungry Pests Program	USDA APHIS	\$356,000
5	5.0521	PlayCleanGo® Campaign Engagement and Expansion	North American Invasive Species Management Association	\$200,000
6	6.0484	Enhance Exotic Plant-Pest Mitigation and Response by Developing New Pest Response Guidelines	North Carolina State University	\$398,746
<b>TOTAL</b>				<b>\$3,323,855</b>

### Tribal Nations

Goal	Project	Title	Cooperator Entity	Funding Level
1S	1S.0154	WI FY23 Tribal Forest Pest Survey	Wisconsin Tribal Conservation Advisory Council	40,000
5	5.0332	WI FY23 Tribal Outreach	Wisconsin Tribal Conservation Advisory Council	\$78,000
5	5.0291	Tribes in Maine Invasive Species Project (TMISP)	University of Maine	\$65,474
6	6.0293	Saint Regis Mohawk Tribe EAB Emergency Response Y3 Project	Saint Regis Mohawk tribe	\$202,240
6	6.0377	WI FY 23 Tribal Rapid Response	Wisconsin Tribal Conservation Advisory Council	\$25,762
6	6.0600	Nez Perce Tribe Bio-control Project-Noxious/Invasive Weed Survey and Control	Nez Perce Tribe-Biocontrol Center	\$250,000
<b>TOTAL</b>				<b>\$661,476</b>

**NOTE: Cooperators whose projects target a Tribal audience, funding amount is incorporated into the state funding levels previously listed**



