

Plant Protection Act Section 7721 Fiscal Year (FY) 2022 Funded Suggestions

Projects that received PPA 7721 funding in FY 2022:

Funding by State

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Alaska	1S	2022-0119	AKF2022 Defoliating Moth Survey	State of Alaska Division of Agriculture
Alaska	5	2022-0085	First Detector Training and Engagement in Alaska; Invasive Slugs	University of Alaska Fairbanks
Arizona	1S	2022-0257	Nursery and Retail Greenhouse Crops Pest Survey	Arizona Department of Agriculture
Arizona	1S	2022-0262	Tropical Hosts, Palm Commodity Survey	Arizona Department of Agriculture
Arizona	3	2022-0581	Improving the identification Capacity of Hyperdiverse Conotrachelus Weevils from Mexico, the U.S., and Canada	Arizona State University
Arizona	6	2022-0230	Towards Field Deployment of Smart Molecular Insecticide (RNAi- based) Targeting Mormon Crickets: Year 1 of 2	USDA APHIS
Arkansas	1S	2022-0241	Phytophthora Ramorum Nursery and/or Environs Survey	Arkansas Department of Agriculture
Arkansas	3	2022-0184	Development of Diagnostics for Three New Blueberry Viruses	University of Arkansas
Arkansas	5	2022-0314	Forest Pest Outreach Project	Arkansas Department of Agriculture
California	1S	2022-0476	Asian Defoliating Moth	California Department of Food and Agricultural (CDFA)
California	1S	2022-0531	Exotic Fruit Fly Survey	CDFA
California	1S	2022-0541	Solanaceous Commodity Survey	CDFA
California	1S	2022-0534	Spotted Lanternfly Survey	CDFA
California	1S	2022-0537	Stone Fruit Commodity Survey	CDFA
California	2	2022-0352	Differential Phase Contrast X-ray Imaging for Detection of Pests in Plants using AI	Stanford University
California	2	2022-0426	California Detector Dog Teams Program	CDFA

State	Goal	Suggestion No.	Project Title	Cooperator Entity
California	3	2022-0057	Targeted Identification of Pheromones and Related Attractants for Invasive Cerambycid Beetles	University of California, Riverside (UC-Riverside)
California	3	2022-0179	Diagnostic Tools for Quarantine Significant Bean Beetles (Chrysomelidae: Bruchinae)	University of San Diego
California	3	2022-0285	Improving Diagnosis of Grapevine and Prunus Diseases of Phytosanitary Significance using High Throughput Sequencing	CDFA
California	3	2022-0335	Enhancing Diagnostics of Regulated Plant Parasitic Nematodes	CDFA
California	3	2022-0459	Developing a Rapid Diagnostics Tool for Exotic and Recurrent Phytophthora Species Associated with Nursery Crops	University of California, Davis (UC-Davis)
California	4	2022-0178	National Ornamentals Research Site at Dominican University of California	Dominican University of California
California	6	2022-0082	Navel Orangeworm SIT: Improving Insect Quality, Quantifying Field Performance, and Evaluating Standing Population	USDA ARS
California	6	2022-0364	Postharvest Treatments for Spotted Lanternfly	USDA ARS
California	6	2022-0388	Biological Control to Bagnada Bug	CDFA
California	6	2022-0414	Effects of Inorganic Bromide in Pregnant Cattle and Calves exposed in utero: the sequel	UC-Davis
California	6	2022-0451	Eliminating Transmission of Xylella Fastidiosa by the Glassy-winged Sharpshooter Using CRISPR	UC-Riverside
California	6	2022-0576	Emergency Plant Health Response Teams	CDFA
Colorado	1S	2022-0067	Stone Fruit Survey	Colorado Department of Agriculture (CO DoA)
Colorado	1S	2022-0131	Grape Survey	CO DoA
Colorado	3	2022-0226	Identification Resources for Plusiinae pests (Lepidoptera)	APHIS
Colorado	3	2022-0227	Diagnostic Tools to Identify Exotic Tortricidae that Threaten U.S. Agriculture	APHIS
Colorado	3	2022-0279	Molecular Research to Support the Asian Giant Hornet Response	APHIS
Connecticut	1S	2022-0026	Grape Commodity Survey	Connecticut Agricultural Experiment Station (CAES)
Connecticut	1S	2022-0030	Phytophthora ramorum Survey	CAES
Connecticut	1S	2022-0120	Tree Fruits, Stone Fruit Commodity Survey	CAES

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Connecticut	6	2022-0251	Enhancing Spotted Lanternfly Mitigation by Testing for Adaptation to Cold Climates in the Invaded Landscape	US Forest Service
Delaware	6	2022-0158	Protection of North American Ash Industry and Forests with Biological Control	USDA ARS
Delaware	6	2022-0244	Biological Control of Asian Longhorned Beetle	USDA ARS
Florida	1A	2022-0424	A Smart Surveillance and Mitigation Platform	University of Florida (U of F)
Florida	1A	2022-0466	Bioeconomic Modeling-Based Trapping Strategies for High Risk, Invasive Fruit Fly Pest Surveillance	(U of F)
Florida	1A	2022-0525	Predicting Dispersal Risk Following Major Weather Events to Guide Rapid Response Efforts	North Carolina State University (NCSU)
Florida	1S	2022-0078	Fruit Fly Detection	Florida Department of Agriculture and Consumer Services (FDACS)
Florida	1S	2022-0368	Survey for Tomato Leafminer, Old World Bollworm, and Pest of Tomato	FDACS
Florida	2	2022-0269	Identification of Giant African Snail Odors to Aid Detector Dog Training	APHIS
Florida	2	2022-0365	Florida Detector Dog Inspection and Enhanced Domestic Pest Detection	FDACS
Florida	3	2022-0222	Improved Surveillance and Diagnostics of Old World Bollworm (OWB) in Florida	University of Florida (U of F)
Florida	3	2022-0527	Advancing Molecular Methods for Improved Diagnosis of Invasive Thrips	U of F
Florida	5	2022-0448	Florida First Detector	U of F
Florida	6	2022-0008	Establishment and Evaluation of Brazilian Peppertree Biological Control	USDA ARS
Florida	6	2022-0211	Advancing Species Sensitivity Distributions as a Method for Setting Generic Phytosanitary Irradiation Doses	APHIS
Florida	6	2022-0297	Biological Control of Cactus Moth, <i>Cactoblastis Cactorum</i> (Berg)	Florida Department of Agriculture - Division of Plant Industry (FL - DPI)
Florida	6	2022-0302	Black Bean Bug Survey and Control	FL - DPI
Florida	6	2022-0480	Application of Novel and Effective Oviposition Deterrents for <i>Bactrocera</i> and Other Invasive Fruit Flies	APHIS

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Florida	6	2022-0549	Registration of Verticillium Nonalfalfae to Control Tree-of-Heaven	Private Entity
Florida	6	2022-0559	Establishment and Evaluation of Lilioceris egena for Air Potato Biocontrol	FL - DPI
Florida	6	2022-0589	Phytosanitary Irradiation of Thripidae/ Phlaeothripidae and Pseudococcidae	APHIS
Georgia	1S	2022-0035	Forest Trees and Shrubs, Forest Pest Survey	Georgia Department of Agriculture (GA DoA)
Georgia	1S	2022-0036	Field Crop Pest Survey	GA DoA
Georgia	1S	2022-0039	Nursery and Retail Plant Pest Survey	GA DoA
Georgia	5	2022-0197	First Detector Network in Georgia	University of Georgia
Georgia	5	2022-0495	Improving Efficiency of Integrating Bugwood Center Resources in Outreach and Education Websites	University of Georgia
Guam	1S	2022-0363	Guam Combined Survey	University of Guam
Guam	2	2022-0345	Target Domestic Inspection	Government of Guam Customs and Quarantine Agency
Guam	6	2022-0491	Invasive Hornet Mitigation Program	University of Guam
Hawaii	3	2022-0271	Integrative Identification Methods for Bactrocera Fruit Flies	University of Hawaii - Manoa (U of H - Manoa)
Hawaii	3	2022-0276	Identification of Oriental Fruit Fly Larvae and Trap-captures	U of H - Manoa
Hawaii	3	2022-0624	Developing Molecular Diagnostic Tools to Determine Strain and Mating Status of Fruit Fly Incursions	USDA ARS
Hawaii	6	2022-0137	Systems Approach for the Management of Coffee Berry Borer in Hawaii and Puerto Rico with Emphasis on Biological Control	USDA ARS
Hawaii	6	2022-0346	Auto-dissemination of a Microbial Insecticide to Control Invasive Fruit Flies	University of Hawaii
Hawaii	6	2022-0479	Determine the Prevalence of Spinosad Resistance in Invasive Fruit Flies in Hawaii and Test Alternative Bait-insecticides	University of Hawaii
Idaho	3	2022-0470	Developing tools for improved detection of Anguina agrostis, Anguina tritici and identification of new Anguinid nematode	University of Idaho (U of ID)
Idaho	6	2022-0068	PCN Immunity	U of ID
Idaho	6	2022-0069	Protecting the US potato industry against exotic viroid pathogens impacting potato trade	U of ID

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Idaho	6	2022-0600	Nez Perce Tribe Bio-control Project-Noxious/Invasive Weed Survey and Control	Nez Perce Tribe-Biocontrol Center
Illinois	1S	2022-0370	Asian Defoliator Survey	University of Illinois (U of IL)
Illinois	1S	2022-0372	Orchard Commodity Survey	U of IL
Illinois	5	2022-0185	Forest Pest Outreach	The Morton Arboretum
Indiana	1A	2022-0378	NPDN Analysis - Making Diagnostic Lab Data Available to a Wider Audience - Part II	Purdue University
Indiana	1S	2022-0043	Exotic Woodborer and Bark Beetle Survey	Indiana Department of Natural Resources Division of Entomology and Plant Pathology (IN DNR - E&PP)
Indiana	1S	2022-0075	Specialty Crops Survey	IN DNR - E&PP
Indiana	5	2022-0100	Forest Pest Outreach and Survey Project	Indiana Department of Natural Resources
Iowa	1S	2022-0003	Walnut Twig Beetle and Thousand Cankers Disease Survey	Iowa Department of Natural Resources
Kansas	1S	2022-0325	Agroforestry Pest Survey	Kansas Department of Agriculture (KS DoA)
Kentucky	1S	2022-0115	Phytophthora ramorum Survey	University of Kentucky Research Foundation (UNK-RF)
Kentucky	1S	2022-0118	Asian Defoliator Survey	UNK-RF
Kentucky	1S	2022-0127	Grape Commodity Survey	UNK-RF
Kentucky	1S	2022-0160	Solanaceous Commodity Survey	UNK-RF
Kentucky	1S	2022-0410	Spotted Lanternfly Survey	UNK-RF
Kentucky	3	2022-0266	Population genomics, diagnostic strain determination, and SIT characterization for the Mexican fruit fly	University of Kentucky
Kentucky	5	2022-0166	Invasive Pest Outreach: Focus Firewood	UNK-RF
Kentucky	5	2022-0389	Invasive Pest Outreach	UNK-RF
Kentucky	5	2022-0397	Spotted Lanternfly Outreach	UNK-RF
Kentucky	6	2022-0298	The Japanese beetle control near airports and cargo transportation facilities: Testing field efficacy of the product	University of Kentucky
Louisiana	1S	2022-0014	Sudden Oak Death (Phytophthora ramorum) Survey	Louisiana Department of Agriculture and Forestry (LA DoAF)
Louisiana	1S	2022-0015	Citrus Commodity Survey	LA DoAF
Louisiana	1S	2022-0016	Solanaceous Commodity Survey	LA DoAF

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Maine	1S	2022-0334	State of Maine Exotic Wood Borer and Bark Beetle Survey	Maine Department of Agriculture, Conservation and Forestry (MDACF)
Maine	1S	2022-0416	Cyst Nematode Survey	MDACF
Maine	1S	2022-0425	Small Fruit Pest Survey	MDACF
Maine	1S	2022-0557	Vegetable Crops Pest Survey	MDACF
Maine	5	2022-0291	Tribes in Maine Invasive Species Project (TMISP)	University of Maine
Maine	5	2022-0304	Increasing Awareness of Firewood Movement as Pathway for Invasive Forest Pests	MDACF
Maine	5	2022-0369	Outreach and Education to Protect Maine Forests from Invasive Plants	Maine Natural Areas Program, MDACF
Maryland	1A	2022-0037	Improving predictive modeling and surveillance allocation with the Cost-Effective Surveillance Allocation Tool 2.0	University of Maryland, College Park (UM-CP)
Maryland	1S	2022-0506	Phytophthora ramorum Nursery Survey	Maryland Department of Agriculture (MDA)
Maryland	1S	2022-0520	Nursery and Retail Plants Survey	MDA
Maryland	1S	2022-0556	Asian Defoliator Survey	MDA
Maryland	1S	2022-0562	Walnut Twig Beetle/Thousand Cankers Disease Survey	MDA
Maryland	1S	2022-0565	Oak Commodity Survey	MDA
Maryland	3	2022-0073	Development of a sensitive and portable detection method for the detection of Phytoplasmas with CRISPR-Cas12a	University of Maryland
Maryland	3	2022-0350	Specimen Imaging and Georeferencing of Undocumented Plant Pathogens Collected in the United States	USDA ARS
Maryland	3	2022-0412	Validation of Real-time and Conventional RT-PCR assays for the detection of Cotton Leafroll Dwarf Virus (CLRDV)	USDA APHIS
Maryland	3	2022-0422	Development of a TaqMan rtPCR diagnostic assay for Ceratocystis manginecans, causal agent of mango sudden decline	USDA ARS
Maryland	3	2022-0437	Leveraging high-throughput sequencing technologies to detect and genotype R. solanacearum directly from plant samples	USDA APHIS
Maryland	3	2022-0563	Viral diversity and recombination rates in US honey bee commercial operations	Bee Informed Partnership
Maryland	6	2022-0013	Synergies of biological control and systemic insecticides to protect ash from emerald ash borer	University of Maryland

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Maryland	6	2022-0306	Linking colony miticide residues in beeswax to varroa mite resistance management	University of Maryland
Massachusetts	1S	2022-0328	Orchard Commodity Survey	Massachusetts Department of Agricultural Resources (MA DoAR)
Massachusetts	1S	2022-0362	Spotted Lanternfly Survey	MA DoAR
Massachusetts	3	2022-0047	Developing survey tools for Agrilus biguttatus and other European woodborers of potential concern with an emphasis...	USDA APHIS
Massachusetts	3	2022-0071	Color trap and lure development for Coconut Rhinoceros Beetle.	USDA APHIS
Massachusetts	3	2022-0113	Pheromone for the European woodwasp Sirex noctilio	USDA APHIS
Massachusetts	3	2022-0114	Development of real-time and droplet digital PCR methods for khapra beetle	Kansas State University
Massachusetts	3	2022-0149	Lure and Color Trap Development for monitoring of Citrus Longhorn Beetle Anoplophora chinensis	USDA APHIS
Massachusetts	3	2022-0171	Spotted Lanternfly Pheromones	USDA APHIS
Massachusetts	3	2022-0195	Asian Giant Hornet (AGH) lure development	USDA APHIS
Massachusetts	4	2022-0596	Sterile Insect Technique (SIT), mating disruption and other IPM tools to Eradicate Box Tree Moth Incursions	Rutgers, The State University of New Jersey
Massachusetts	5	2022-0274	Forest and Agricultural Pest Outreach	MA DoAR
Massachusetts	5	2022-0377	Asian Longhorned Beetle Outreach Campaign	USDA APHIS
Massachusetts	6	2022-0091	Effects of Timing and Application Methods on Efficacy & Persistence of Systemic Imidacloprid Applied for HWA Control	USDA APHIS
Massachusetts	6	2022-0122	Attract-and-kill to monitor and manage the khapra beetle	Kansas State University
Massachusetts	6	2022-0268	Facilitating Spread of the Microsporidian Pathogen, Ovavesicula popilliae, for Long-Term Suppression of Japanese Beetle	Michigan State University
Massachusetts	6	2022-0419	Developing biological control methods for roseau cane scale	USDA APHIS
Michigan	1S	2022-0400	Forest Trees and Shrubs, Forest Pest Survey	Michigan Department of Agriculture and Rural Dev. (MI DoA&RD)
Michigan	1S	2022-0432	Potato Cyst Nematode Survey	MI DoA&RD
Michigan	1S	2022-0436	Phytophthora ramorum Survey	MI DoA&RD

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Michigan	3	2022-0327	Revision of Euwallacea species limits for improved diagnostics of potential invasive species	Michigan State University
Michigan	6	2022-0516	Enhancing mitigation of European cherry fruit fly through endosymbionts	Wayne State University
Minnesota	1S	2022-0049	Vegetable Crops, Vegetable Crops Pest Survey (Agricultural Pathways Survey of Fruit and Vegetable Pests)	Minnesota Department of Agriculture (MN DoA)
Minnesota	1S	2022-0216	Cyst Nematode Survey	MN DoA
Minnesota	1S	2022-0218	Nursery and Retail Plants Pest Survey	MN DoA
Minnesota	3	2022-0041	Increasing capacity to identify phytoplasmas with RT-PCR and sequencing of 16s rRNA	MN DoA
Minnesota	5	2022-0065	Invasive Pest Outreach and First Detector	MN DoA
Mississippi	1S	2022-0079	Asian Defoliator Survey	Mississippi State University (MSU)
Mississippi	1S	2022-0081	Solanaceous Commodity Survey	MSU
Mississippi	1S	2022-0099	Exotic Wood Borer and Bark Beetle Survey	Mississippi Department of Agriculture
Mississippi	1S	2022-0105	Oak Commodity Survey	Mississippi Department of Agriculture
Mississippi	3	2022-0108	Eastern Regional Screening Center	MSU
Mississippi	5	2022-0086	Mississippi Bug Blues	MSU
Mississippi	5	2022-0104	Farmers First Initiative	MSU
Mississippi	5	2022-0107	Mississippi Bug Blues Educator Invasive Boxes	MSU
Mississippi	6	2022-0228	Sonic Weaponry for Managing Rangeland Grasshoppers and Mormon Crickets	MSU
Missouri	1S	2022-0180	Thousand Cankers Disease Survey	Missouri Department of Agriculture
Missouri	1S	2022-0386	Plum Pox Virus Survey	Missouri Department of Agriculture
Montana	1S	2022-0511	Terrestrial Mollusk Survey	Montana Department of Agriculture (MT DoA)
Montana	1S	2022-0514	Nursery and Retail Plant Pest Survey	MT DoA
Montana	1S	2022-0526	Exotic Woodboring Beetle and Bark Beetle Survey	MT DoA
Montana	5	2022-0018	Don't Move Firewood Outreach Campaign	The Nature Conservancy
Nebraska	1S	2022-0103	Khapra Beetle Survey	Nebraska Department of Agriculture (NE DoA)
Nebraska	1S	2022-0111	Potato Cyst Nematode Survey	NE DoA

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Nevada	1S	2022-0038	Asian Defoliator Survey	Nevada Department of Agriculture (NV DoA)
Nevada	1S	2022-0042	Khapra Beetle Survey	NV DoA
Nevada	1S	2022-0052	Palm Commodity Survey	NV DoA
Nevada	1S	2022-0058	Vegetable Crops Pest Survey	NV DoA
Nevada	1S	2022-0063	Cyst Nematode Survey	NV DoA
Nevada	1S	2022-0064	Solanaceous Commodity Survey	NV DoA
Nevada	1S	2022-0066	Nursery and Retail Plants Bundled Phytophthora Survey	NV DoA
Nevada	5	2022-0112	Invasive Pest Outreach	NV DoA
New Hampshire	1S	2022-0061	Forest Pest Survey	New Hampshire Department of Agriculture, Markets & Food (NH DoAM&F)
New Hampshire	1S	2022-0062	Vegetable Crops Pest Survey	NH DoAM&F
New Hampshire	1S	2022-0072	Nursery and Retail Plants Pest Survey	NH DoAM&F
New Hampshire	1S	2022-0074	Orchard Commodity Survey	NH DoAM&F
New Hampshire	5	2022-0095	Traveler and Consumer Outreach and Education for Spotted Lanternfly	NH DoAM&F
New Hampshire	5	2022-0249	Forest Pest Outreach Project	University of New Hampshire
New Hampshire	6	2022-0024	Advancing Blueberry Plant Protection: Creating ID & Monitoring Tools for Parasitoids of Blueberry Gall Midge	University of New Hampshire
New Hampshire	6	2022-0214	Movement dynamics of emamectin benzoate in ash: impacts on chemical and biological control of the Emerald ash borer	University of New Hampshire
New Jersey	2	2022-0236	Deployment of Detection Dogs in NY to Mitigate the Spread of Spotted Lanternfly	NY-NJ Trail Conference
New Jersey	5	2022-0164	NJ Spotted Lanternfly Public Outreach and Business Awareness Program	New Jersey Department of Agriculture
New Mexico	1S	2022-0004	Nut Pest Survey	New Mexico Department of Agriculture
New York	1S	2022-0295	Box Tree Moth Survey	New York State Department of Agriculture & Markets (NYS AGM)
New York	1S	2022-0296	Orchard Commodity Survey	NYS AGM
New York	1S	2022-0299	Grape Commodity Survey	NYS AGM
New York	1S	2022-0300	Stone Fruit Commodity Survey	NYS AGM
New York	3	2022-0130	NPDN and State Diagnostician Preparedness Training through the USDA-APHIS-Beltsville Laboratory and other experts.	Cornell University

State	Goal	Suggestion No.	Project Title	Cooperator Entity
New York	3	2022-0315	Automation scalability for direct testing of potato tubers to safeguard US potato health	USDA ARS
New York	4	2022-0575	Implementing new apple tree certification in New York	NYS AGM
New York	6	2022-0293	Saint Regis Mohawk Tribe EAB Emergency Response Y2 Project	Saint Regis Mohawk Tribe
New York	6	2022-0330	Deregulation and Enhanced Regulatory Activities of Golden Nematode (<i>Globodera rostochiensis</i>) in NY	NYS AGM
North Carolina	1A	2022-0248	Automated host mapping tool for spread modeling and field operations planning	North Carolina State University (NCSU)
North Carolina	1A	2022-0284	Analytical Support for OPEP Assessments and CAPS datasheets	NCSU
North Carolina	1A	2022-0387	Coupling Pest and Pathogen Spread and SAFARIS Phenological Forecasts with Tangible Landscape Visualization	NCSU
North Carolina	1A	2022-0496	Adding economic optimization modules to the Eradication Analysis & Decision Support tool	NCSU
North Carolina	1A	2022-0501	Advanced modeling capabilities for exotic plant pathogens	Center for Integrated Pest Management NCSU
North Carolina	1A	2022-0521	Trade Route Analytic Computing and Evaluation (TRACE)	NCSU
North Carolina	1A	2022-0543	Developing new predictive modeling approaches to estimate plant pest suitability	NCSU
North Carolina	1A	2022-0584	Protecting US fruit and vegetable industry from the introduction of the oriental fruit fly	NCSU
North Carolina	1A	2022-0611	Develop, validate and deliver an impact assessment rapid-screening framework for rapid prioritization of exotic pests	NCSU
North Carolina	1A	2022-0615	Practical applications of models for enhancing Sterile Insect Technique (SIT) and other pest surveillance programs	NCSU
North Carolina	1S	2022-0406	Phytophthora ramorum Survey	North Carolina Department of Agriculture & Conservation Services (NC DoA&CS)
North Carolina	1S	2022-0420	Solanaceous Commodity Survey	NC DoA&CS
North Carolina	1S	2022-0440	Grape Commodity Survey	NC DoA&CS
North Carolina	1S	2022-0449	Asian Defoliator Survey	NC DoA&CS
North Carolina	1S	2022-0453	Nursery and Retail Plants Pest Survey: Box Tree Moth	NC DoA&CS

State	Goal	Suggestion No.	Project Title	Cooperator Entity
North Carolina	3	2022-0348	A Data Driven and Sensor Integrated Platform for Monitoring Emerging Phytophthora Diseases with VOC and MN Patch sensors	NCSU
North Carolina	5	2022-0497	Invasive Species Outreach	NC DoA&CS
North Carolina	6	2022-0401	Establishing and Assessing Biological Control Agents of Emerald Ash Borer in North Carolina	NCSU
North Carolina	6	2022-0605	Evaluating and optimizing the delimitation survey expert system (DSES) for New Pest Response Teams based on field use	NCSU
North Dakota	1S	2022-0092	Grape Commodity Survey	North Dakota State University
North Dakota	1S	2022-0210	Potato Cyst Nematode	North Dakota Department of Agriculture (ND DoA)
North Dakota	1S	2022-0238	General/Cyst Nematode Survey	ND DoA
North Dakota	1S	2022-0282	Khapra Beetle Survey	ND DoA
Ohio	1S	2022-0375	Grape Commodity Survey	Ohio Department of Agriculture (OH DoA)
Ohio	1S	2022-0382	Orchard Commodity Survey	OH DoA
Ohio	1S	2022-0384	Phytophthora ramorum Nursery Soil/Container Mix and Retail Plant Survey	OH DoA
Ohio	5	2022-0552	Forest Pest Outreach	OH DoA
Oklahoma	1S	2022-0090	Phytophthora ramorum Nursery Survey	Oklahoma Department of Agriculture, Food and Forestry
Oklahoma	1S	2022-0446	Grape Commodity Survey	Oklahoma Department of Agriculture, Food and Forestry
Oregon	1S	2022-0169	Solanaceous Commodity Survey	Oregon Department of Agriculture (OR DoA)
Oregon	1S	2022-0188	Orchard Commodity Survey	OR DoA
Oregon	1S	2022-0286	Asian Defoliator Survey	OR DoA
Oregon	1S	2022-0461	Exotic Woodborer/Bark Beetle Survey	OR DoA
Oregon	2	2022-0421	Oregon Rail Inspection Program	OR DoA
Oregon	3	2022-0181	Woodborer Workshop in Support of CAPS and Other Surveys	OR DoA
Oregon	3	2022-0326	Identification Guide to the Acmaeodera of America North of Mexico	OR DoA

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Oregon	3	2022-0452	Development of CRISPR-CAS diagnostics for detection of Phytophthora ramorum	Oregon State University
Oregon	3	2022-0464	National Identification Center for Support of CAPS and Other Surveys	OR DoA
Oregon	3	2022-0528	Identification Guide to Pest Grasshoppers of Oregon: A Field Guide to Nymphs and Adults	OR DoA
Oregon	4	2022-0154	Safeguarding Oregon grapevine nurseries from introduced pathogens - Year 2	OR DoA
Oregon	4	2022-0170	Surveying Oregon's Certified Prunus Nurseries for the Causal Agents of Little Cherry Disease - Year 2	OR DoA
Oregon	4	2022-0187	Using next-generation sequencing to verify virus-free status of legacy materials in certification programs	OR DoA
Oregon	6	2022-0177	Enhancing biological control of brown marmorated stink bug through mass rearing and redistribution of T. japonicus	OR DoA
Oregon	6	2022-0347	Spotted Wing Drosophila Biocontrol	OR DoA
Oregon	6	2022-0399	Develop Proactive Biocontrol Strategy against Emerald Ash Borer in Oregon	OR DoA
Oregon	6	2022-0548	Biological Control of Exotic Scarab Populations Using Zone IPM	OR DoA
Pennsylvania	1S	2022-0019	Orchard Commodity Survey	Pennsylvania Department of Agriculture (PA DoA)
Pennsylvania	1S	2022-0189	Vegetable Pest Survey	PA DoA
Pennsylvania	1S	2022-0190	P. ramorum Nursery Survey and Regional Support	PA DoA
Pennsylvania	1S	2022-0539	Asian Defoliator Survey	PA DoA
Pennsylvania	1S	2022-0545	Grape Commodity Survey	PA DoA
Pennsylvania	1S	2022-0564	Stone Fruit Survey	PA DoA
Pennsylvania	1S	2022-0569	Walnut Twig Beetle Survey	PA DoA
Pennsylvania	1S	2022-0578	Box Tree Moth Survey	PA DoA
Pennsylvania	3	2022-0221	FY2022 Screening and Identification Services for Wood-boring Insect Pests at Carnegie Museum	Carnegie Museum of Natural History
Pennsylvania	3	2022-0320	Improving the Cas12a-based DETECTR assay for field-deployable diagnosis of citrus Huanglongbing	Pennsylvania State University
Pennsylvania	3	2022-0430	Development of CRISPR/Cas-based assay for Ralstonia solanacearum R3b2 detection deployable at U.S. port-of-entry	Pennsylvania State University

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Pennsylvania	5	2022-0031	Forest Pest Outreach (FPO) FY2022	PA DoA
Pennsylvania	5	2022-0415	Spotted Lanternfly Outreach	Pennsylvania State University
Pennsylvania	6	2022-0128	Deployment of state interactive online mapping applications for finding properties with new spotted lanternfly outbreaks	Temple University
Pennsylvania	6	2022-0213	Mathematical Modeling of the Spread of the Spotted Lanternfly to Design Optimal Protocols and Strategies for Control	Temple University
Puerto Rico	6	2022-0597	Research in Support of the Systems Approach for Mango Exported from Puerto Rico to the European Union	University of Puerto Rico - Mayaguez
Rhode Island	1S	2022-0254	Grape Commodity Survey	RI DEM Division of Agriculture (RI DEM DoA)
Rhode Island	1S	2022-0261	Nursery and Retail Pests Survey	RI DEM DoA
Rhode Island	1S	2022-0621	Forest Pest Survey	University of Rhode Island
Rhode Island	1S	2022-0625	Tree Fruit/Orchard Commodity Survey	University of Rhode Island
Rhode Island	5	2022-0609	Forest and Agricultural Outreach	University of Rhode Island
South Carolina	1S	2022-0477	Phytophthora ramorum Nursery Survey	Clemson University Department of Plant Industry (Clemson DPI)
South Carolina	1S	2022-0550	Grape Commodity Survey	Clemson DPI
South Carolina	1S	2022-0555	Solanaceous Commodity survey	Clemson DPI
South Carolina	5	2022-0542	Southeastern Regional Forest Health and Invasive Species Education Program	Clemson University
South Dakota	1S	2022-0264	Khapra Beetle Survey	South Dakota Department of Agriculture & Natural Resources
South Dakota	6	2022-0270	Selecting and Improving Varroa-Resistant Honey Bee Stocks for Commercial Beekeeping	Project <i>Apis m.</i>
Tennessee	1S	2022-0055	Solanaceous Commodity Survey	University of Tennessee
Tennessee	1S	2022-0148	Phytophthora ramorum Nursery Survey	Tennessee Department of Agriculture (TN DoA)
Tennessee	1S	2022-0220	Nursery Commodity Survey	TN DoA
Tennessee	1S	2022-0337	Asian Defoliator Survey	University of Tennessee - Martin
Tennessee	3	2022-0428	National Plant Protection Laboratory Accreditation Program Lab in Tennessee	TN DoA
Tennessee	5	2022-0536	Forest Pest Outreach and Survey Project (FPOSP), Tennessee, FY22	University of Tennessee

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Tennessee	6	2022-0484	Post-Release Aftermath Assessment of Biological Control of Emerald Ash Borer to Enhance Mitigation in a Southern Climate	University of Tennessee
Texas	1A	2022-0198	Distribution Modeling of Crop Pests and Pathogens in a Changing Climate	Sam Houston State University
Texas	1A	2022-0201	Predictive modeling of Molluscan Pests in a Changing Climate	Sam Houston State University
Texas	1S	2022-0033	Cyst Nematode Survey	Sam Houston State University
Texas	1S	2022-0046	Field Survey for Corn and Small Grain Priority Pests	Sam Houston State University
Texas	1S	2022-0053	Exotic Wood Boring Beetle Survey	Sam Houston State University
Texas	1S	2022-0530	FY22 Stone Fruit Commodity Survey	Texas A&M AgriLife Extension Service
Texas	1S	2022-0532	FY22 Grape Commodity Survey	Texas A&M Agrilife Extension Service
Texas	3	2022-0140	Improve PCR diagnostics of <i>Xylella fastidiosa</i> subsp. multiplex in pecan and peach	Texas A&M University
Texas	3	2022-0366	Y4 SNP-based Diagnostic Tools for the Rapid Identification of the Boll Weevil (<i>Anthonomus grandis grandis</i>) and Other Ant	USDA APHIS
Texas	5	2022-0054	Continuation of Citrus Greening Educational, Public Outreach and Management Program in Gulf Coastal counties of Texas	Sam Houston State University
Texas	5	2022-0311	Enhancing Outreach Tools and Opportunities	USDA APHIS
Texas	6	2022-0087	Effect of hypoxia on efficiency of phytosanitary irradiation against insect pests	Texas A&M University
Texas	6	2022-0129	Investigating the efficiency of cholate-capped zinc ferrite nanoparticles as organometallic-control agents against...	Sam Houston State University
Texas	6	2022-0143	Microbial control of <i>Candidatus Liberibacter asiaticus</i>	Texas A&M University Kingsville Citrus Center
Texas	6	2022-0206	Optimizing liposome properties for therapeutic payload delivery to HLB-infected Citrus Trees	Baylor University
Texas	6	2022-0231	Microbiome analysis of cholate-capped manganese ferrite nanoparticles as organometallic-control agents against the rice	Sam Houston State University
Texas	6	2022-0373	Targeted antimicrobials to maximize the production and health of <i>Anastrepha ludens</i> , the Mexican fruit fly	North Carolina State University

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Texas	6	2022-0380	Testing the efficacy of bait sprays with insecticides of different modes of action on Mexican fruit fly (Diptera: Tephri	USDA APHIS
Texas	6	2022-0392	Deployment of a predatory mite, Amblyseius swirskii, to enhance suppression of Asian citrus psyllid on residential and organic citrus	Texas A&M University Kingsville Citrus Center
Texas	6	2022-0524	Augmented phage therapies for the targeted killing of bacterial plant pathogens.	North Carolina State University
Texas	6	2022-0535	Zap-O-Particles: Improving SIT using X-ray excitable nanoparticles	Baylor University
Utah	1S	2022-0011	Orchard Commodity Survey	Utah State University
Utah	1S	2022-0025	Asian Defoliator Survey	Utah State University
Utah	5	2022-0102	Invasive Pest Outreach	Utah State University
Vermont	1S	2022-0512	Exotic Wood Borer/Bark Beetle Survey	Vermont Agency of Agriculture, Food and Markets (VT AoAF&M)
Vermont	1S	2022-0554	Phytophthora ramorum Survey	VT AoAF&M
Vermont	1S	2022-0598	Fruit Crops Pest Survey	VT AoAF&M
Vermont	1S	2022-0607	Vegetable Crops Pest Survey	VT AoAF&M
Vermont	5	2022-0338	Forest Pest Outreach Project	VT AoAF&M
Virginia	1S	2022-0467	Grape Commodity Survey	VA Department of Agriculture and Consumer Services (VA DoA & CS)
Virginia	1S	2022-0478	Forest Pest Survey	VA DoA & CS
Virginia	1S	2022-0481	Phytophthora ramorum Survey	VA DoA & CS
Virginia	3	2022-0193	CRISPR-Cas12a for sensitive and specific detection of Xylella fastidiosa subspecies	Virginia Polytechnic Institute & State University
Washington	1S	2022-0007	Stone Fruit Commodity Survey	Washington State Department of Agriculture (WA State DoA)
Washington	1S	2022-0225	Invasive Terrestrial Mollusk Survey	WA State DoA
Washington	1S	2022-0260	Asian Defoliator Survey	WA State DoA
Washington	1S	2022-0434	Grape Commodity Survey	WA State DoA
Washington	1S	2022-0490	Small Fruit Commodity Survey	WA State DoA
Washington	2	2022-0341	Continuing On-line Enforcement of WSDA Plant Health Quarantines	WA State DoA
Washington	3	2022-0255	Developing Molecular Diagnostic Tools for the High Priority Pest, Cernuella virgata	WA State DoA
Washington	3	2022-0488	WSDA Exotic Pest Survey Identification Center	WA State DoA
Washington	3	2022-0489	Comprehensive survey of wild and managed bees captured in sticky traps	WA State DoA

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Washington	4	2022-0351	Improving the WSDA Fruit Tree Virus Certification Program through an industry driven approach	WA State DoA
Washington	4	2022-0465	NORSDUC - Lateral movement of Phytophthora ramorum in nursery substrates (year 2)	Washington State University
Washington	5	2022-0263	Asian Giant Hornet Community Outreach and Education	WA State DoA
Washington	5	2022-0313	Mobilizing and Empowering the Public to Detect High Consequence Pests	Washington Recreation & Conservation Office
Washington	5	2022-0323	Washington State Interagency Outreach and Education – A Comprehensive Interagency Approach	Washington Recreation & Conservation Office
Washington	5	2022-0595	Increasing Native Vigilance, Awareness and Surveillance of Invasions via Education (INVASIVE) Project	Washington State University
Washington	6	2022-0126	Washington State Northern Giant Hornet Response	WA State DoA
Washington	6	2022-0132	Continuation of survey for parasitoids of apple maggot (Rhagoletis pomonella) (Diptera: Tephritidae) in Washington State	WA State DoA
Washington	6	2022-0203	Preparing for Spotted Lanternfly in Washington State: An Interagency Action Plan to Protect Billions	Washington Recreation & Conservation Office
Washington	6	2022-0331	Asian Gypsy Moth Precision Delimit and Post-treatment Response in Washington State	WA State DoA
Washington	6	2022-0468	New techniques using aerated steam to eradicate P. ramorum and other pests/pathogens	Washington State University
West Virginia	1S	2022-0142	Asian Defoliator Survey	West Virginia Department of Agriculture (WV DoA)
West Virginia	1S	2022-0239	Solanaceous Commodity Survey	WV DoA
West Virginia	1S	2022-0240	Phytophthora ramorum Nursery Survey	WV DoA
West Virginia	5	2022-0493	Invasive Pest Outreach	WV DoA
Wisconsin	1S	2022-0229	Phytophthora ramorum Survey	Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP)
Wisconsin	1S	2022-0265	Forest Pest Survey	Wisconsin Tribal Conservation Advisory Council
Wisconsin	1S	2022-0316	Nursery and Retail Plants Pest Survey	Wisconsin DATCP

State	Goal	Suggestion No.	Project Title	Cooperator Entity
Wisconsin	1S	2022-0317	Potato Cyst Nematode Survey	University of Wisconsin - Madison (UW Madison)
Wisconsin	3	2022-0567	Improved Identification and Detection of Select Agent <i>Ralstonia solanacearum</i> Strains Threatening the US Potato Industry	Private Entity
Wisconsin	5	2022-0032	Wisconsin Forest Pest & Disease Outreach Initiative	Wisconsin DATCP
Wisconsin	5	2022-0273	Addressing gaps and expanding monitoring efforts with Wisconsin First Detector Network	UW Madison
Wisconsin	5	2022-0407	Investing in Our Future: WTCAC Native American Seasonal Workers conducting outreach and education to Tribal Communities	Wisconsin Tribal Conservation Advisory Council
Wisconsin	6	2022-0418	WTCAC Board - Enhance Mitigation and Rapid Reponse on Tribal Lands	Wisconsin Tribal Conservation Advisory Council

National

Goal	Suggestion No.	Title	Cooperator Entity
1S	2022-0147	National Survey of Honey Bee Pests and Diseases	State Governments
1S	2022-0196	Survey Supplies Procurement Program (Traps and Lures)	USDA APHIS
2	2022-0417	PPA 7721 Canine Team Training	USDA APHIS
5	2022-0194	PlayCleanGo National Outreach Expansion	North American Invasive Species Management Association
5	2022-0359	Hungry Pests Education and Outreach Program	USDA APHIS
5	2022-0431	Citrus Health Public Awareness and Outreach Campaign	USDA APHIS
6	2022-0447	Enhance Exotic Plant-Pest Mitigation and Response by Developing New Pest Response Guidelines	USDA APHIS

Tribal Nations

Goal	Suggestion No.	Title	Cooperator Entity
1S	2022-0265	Forest Pest Survey	Wisconsin Tribal Conservation Advisory Council
5	2022-0291	Tribes in Maine Invasive Species Project (TMISP)	University of Maine
5	2022-0407	Investing in Our Future: WTCAC Native American Seasonal Workers conducting outreach and education to Tribal Communities	Wisconsin Tribal Conservation Advisory Council
5	2022-0595	Increasing Native Vigilance, Awareness and Surveillance of Invasions via Education (INVASIVE) Project	Washington State University
6	2022-0293	Saint Regis Mohawk Tribe EAB Emergency Response Y2 Project	Saint Regis Mohawk tribe
6	2022-0418	WTCAC Board - Enhance Mitigation and Rapid Reponse on Tribal Lands	Wisconsin Tribal Conservation Advisory Council
6	2022-0600	Nez Perce Tribe Bio-control Project-Noxious/Invasive Weed Survey and Control	Nez Perce Tribe-Biocontrol Center

Rapid Response

Goal	Suggestion No.	Title	Cooperator Entity
6R	2022-0001	Box Tree Moth Emergency	USDA APHIS
6R	2022-0002	Developmental Biology and Geographic Range of the Black Fig Fly (<i>Lonchaeidae: Silba adipata</i>)	UC-Riverside
6R	2022-0003	Oriental Fruit Fly	CDFA
6R	2022-0004	Mediterranean Fruit Fly	CDFA
6R	2022-0005	NCPN - Berry Center	USDA APHIS
6R	2022-0006	Box Tree Moth Operational Activities	USDA APHIS
6R	2022-0007	Box Tree Moth Operational Activities	USDA APHIS
6R	2022-0008	Box Tree Moth Operational Activities	USDA APHIS
6R	2022-0009	Box Tree Moth Operational Activities	USDA APHIS
6R	2022-0010	Box Tree Moth Operational Activities	USDA APHIS
6R	2022-0011	Citrus Yellow Vein Clearing Virus Emergency Response	CDFA
6R	2022-0012	Oriental Fruit fly Emergency	CDFA
6R	2022-0013	Valley Center-Mexfly Outbreak	CDFA
6R	2022-0070	Critical Entry Point Monitoring for the Pests of Biosecurity Concern	Texas Department of Agriculture
6R	2022-0121	Spotted Lanternfly Delimitation and Elimination	IN DNR - E&PP
6R	2022-0157	Washington State Vineyard Snail Eradication	Washington State Department of Agriculture
6R	2022-0219	Canine detection of coconut rhinoceros beetle in Hawaii	University of Hawaii
6R	2022-0292	Spotted Lanternfly Survey, Treatment, & Outreach	NYS AGM
6R	2022-0344	Guam Ports of Entry Coconut Rhinoceros Beetle Interdiction and Management Plan	University of Guam
6R	2022-0367	Invasive Phytophagous Snail and Slug Survey	FDACS
6R	2022-0374	Spotted Lanternfly Survey and Control	New Jersey Department of Agriculture
6R	2022-0427	Spotted Lanternfly Survey	NC DoA&CS
6R	2022-0442	Response to coconut rhinoceros beetle in Hawaii	University of Hawaii
6R	2022-0471	Spotted Lanternfly Suppression	PA DoA
6R	2022-0502	Spotted Lanternfly Survey, Treatment, and Outreach Combined Project	MDA
6R	2022-0503	Spotted Lanternfly	WV DoA
6R	2022-0515	2022-23 VDACS Spotted Lanternfly	VDACS
6R	2022-0586	Delaware Spotted Lanternfly Mitigation	Delaware Department of Agriculture
6R	2022-0592	Spotted Lanternfly Response and Mitigation	OH DoA