



Farm Bill Section 10007 FY 16 Spending Plan

Plant Pest and Disease Management and
Disaster Prevention Program

January 29, 2016

Goal	Project #	Title	Cooperator State	Cooperator Type	Funding Level
Tribal Nations					
1S	1S.0132.00	Weed Surveys on the Colville Reservation	WA	Tribal Nation	\$15,000
5	5.0254.00	Phase II: Intense Education and Outreach for continued efforts to reduce invasive species within Leech Lake Reservation	MN	Tribal Nation	\$84,786
5	5.0548.00	Kaibab Paiute Tribe Outreach and Education Program	AZ	Tribal Nation	\$50,000
6	6.0045.00	Emerald Ash Borer Mitigation	MI	Tribal Nation	\$80,000
6	6.0210.00	Nez Perce Tribe Bio-control Project- Noxious/Invasive Weed Survey and Control	ID	Tribal Nation	\$200,000
5	5.0040.00	Increase Tribal farmers, ranchers and youth knowledge of invasive species and the biocontrol agent opportunities	MT	Tribal Nation	\$75,000
					\$504,786
National					
1A	1A.0201.01	Characterizing risk posed by exotic Lymantria moth	National	Foreign	\$28,050
1A	1A.0201.02	Characterizing risk posed by exotic Lymantria moth	National	Foreign	\$33,286
1A	1A.0201.03	Characterizing risk posed by exotic Lymantria moth	National	APHIS	\$25,415
1A	1A.0201.04	Characterizing risk posed by exotic Lymantria moth	National	Foreign	\$33,847
1A	1A.0215.01	A generic validation method for plant pest and pathogen surveys	National	Foreign	\$108,000
1A	1A.0215.02	A generic validation method for plant pest and pathogen surveys	National	Foreign	\$108,000
1A	1A.0414.00	Compendium of Fruit Fly Host Information (CoFFHI)	National	APHIS	\$291,133
1A	1A.0578.00	Development and use of a model to objectively categorize and prioritize exotic pests for survey and response	National	APHIS	\$133,119

15	1S.0015.00	Support of the Survey Supplies Procurement Program	National	APHIS	\$580,000
15	1S.0249.00	National Survey of Honey Bee Pests and Diseases	National	APHIS	\$1,068,988
3	3.0148.02	Biology and trapping of the velvet longhorned beetle (VLB), <i>Trichoferus campestris</i>	National	APHIS	\$5,000
3	3.0182.02	Attraction and Detection of the Fruit Piercing Moth	National	APHIS	\$10,000
3	3.0184.01	Attraction and detection of ambrosia beetles in the <i>Euwallacea fornicatus</i> species complex, Polyphagous Shot Hole Borer	National	APHIS	\$33,340
3	3.0230.02	Molecular-based initiatives to support the Old World Bollworm Strategic Management Plan	National	APHIS	\$8,900
3	3.0239.01	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	National	Foreign	\$16,255
3	3.0239.02	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	National	APHIS	\$27,910
3	3.0239.05	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	National	Foreign	\$164,664
3	3.0268.00	Diagnostics for <i>Monilinia</i> species	National	APHIS	\$68,000
3	3.0272.01	Lepidoptera attractants	National	Foreign	\$24,000
3	3.0272.03	Lepidoptera attractants	National	Foreign	\$14,000
3	3.0272.04	Lepidoptera attractants	National	APHIS	\$12,000
3	3.0322.01	Rapid and accurate diagnostic identification of phytoplasmas	National	APHIS	\$15,000
3	3.0322.02	Rapid and accurate diagnostic identification of phytoplasmas	National	APHIS	\$95,000
3	3.0392.04	Genomic approaches to fruit fly exclusion and	National	APHIS	\$18,800

		pathway analysis (year 2)			
3	3.0585.02	Development of Stable Isotopes & Biochemical Tools for Identification of Sterile Insects and Pest Origin Determination	National	APHIS	\$1,700
4	4.0098.01	Audit Training for State and Federal Personnel - Plant Pest Management Accreditation Program	National	APHIS	\$20,000
4	4.0320.00	Continuing the host range testing for Phytophthora ramorum and testing the effect of temperature on disease severity and	National	APHIS	\$49,500
5	5.0553.00	Hungry Pests Hungry Pests Public Awareness and Outreach Campaign	National	APHIS	\$385,000
6	6.0146.02	Development of attractant-based detection and control methods for invasive gastropod species	National	APHIS	\$8,000
6	6.0245.01	Targeting bacterial pathogens with CRITteR AMmO, a CRISPR-targeted antimicrobial system	National	APHIS	\$50,000
6	6.0354.01	Improved trapping and control tools for khapra beetle	National	APHIS	\$18,000
6	6.0355.01	Development of generic phytosanitary treatment schedules for exotic tephritid fruit flies.	National	Foreign	\$205,000
6	6.0355.02	Development of generic phytosanitary treatment schedules for exotic tephritid fruit flies.	National	APHIS	\$15,000
6	6.0562.04	Enhanced Mitigation Techniques for Control of Cactoblastis cactorum	National	APHIS	\$5,000
6	6.0569.00	Pest Analytical Communication Tool (PestACT) for Stakeholder Communication	National	APHIS	\$96,000
6R	6R.6.0700.00	Rapid Response	RR	RR	\$4,919,435
7	7.7003.00	PPQ OH	National	APHIS	\$500,000
					\$12,595,342

Alaska					
1S	1S.0302.00	Asian Defoliating Moth Survey	AK	State Government	\$30,000
1S	1S.0602.00	Solanaceous Commodity Survey	AK	Academia	\$58,000
5	5.0405.00	Federal noxious weed first detector outreach and exotic forest pest first detector outreach program evaluation	AK	Academia	\$39,828
					\$127,828
Alabama					
1S	1S.0385.00	Phytophthora ramorum Survey	AL	State Government	\$35,000
1S	1S.0388.00	Alabama Grape Commodity Survey	AL	State Government	\$27,218
1S	1S.0390.00	Forest Pest Survey	AL	State Government	\$22,504
4	4.0579.00	Best Management Practices for Control of Bacterial Gall on Loropetalum (Pseudomonas savastanoi)	AL	Academia	\$39,600
					\$124,322
Arkansas					
1S	1S.0001.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	AR	State Government	\$9,113
1S	1S.0419.00	Orchard Commodity Survey	AR	Academia	\$13,494
1S	1S.0420.00	Grape Commodity Survey	AR	Academia	\$10,668
1S	1S.0499.00	Solanaceous Commodity Survey	AR	State Government	\$15,837
4	4.0049.01	Survey for newly reported and economically important viruses in US national strawberry germplasm collections	AR	Non-APHIS-Federal	\$10,000

4	4.0383.02	Determining 'High Risk' viruses for blueberry nursery production in the U.S.	AR	Academia	\$39,700
4	4.0543.00	STANDARDS ADOPTION COMMITTEE: Engagement of nurseries, states and federal regulatory agencies in the adoption of National Standards	AR	Academia	\$39,700
5	5.0003.00	Forest Pest Outreach	AR	State Government	\$26,240
5	5.0558.00	Junior Invasives Inspector Outreach Initiative	AR	State Government	\$51,674
					\$216,426
Arizona					
1S	1S.0257.00	Nursery Stock Commodity Survey	AZ	State Government	\$125,000
1S	1S.0261.00	Nut Pest Commodity Survey	AZ	State Government	\$150,000
1S	1S.0393.00	Khapra Beetle Survey	AZ	State Government	\$46,592
3	3.0585.01	Development of Stable Isotopes & Biochemical Tools for Identification of Sterile Insects and Pest Origin Determination	AZ	Academia	\$193,485
					\$515,077
California					
1A	1A.0251.00	Risk-based residential and commercial survey design for management of Plum pox virus in California	CA	Non-APHIS-Federal	\$184,197
1A	1A.0289.02	NPDN Data Analysis	CA	Academia	\$16,155
1A	1A.0568.01	Quantifying efficacies associated with systems approaches to insect pest control	CA	Academia	\$171,027
1A	1A.0568.02	Quantifying efficacies associated with systems approaches to insect pest control	CA	Non-APHIS-Federal	\$86,915
1S	1S.0060.00	Khapra Beetle Survey	CA	Non-Profit	\$75,000
1S	1S.0159.00	Polyphagous Shot Hole	CA	Non-Profit	\$175,000

		Borer/Fusarium Dieback in Avocado: Survey, Detection and Producer Education			
1S	1S.0394.00	Exotic Wood Boring Bark Beetle Survey	CA	State Government	\$125,000
1S	1S.0409.04	Coffee Pests Survey	CA	Non-APHIS-Federal	\$34,500
1S	1S.0439.00	Asian Defoliating Moth Survey	CA	State Government	\$425,000
1S	1S.0446.00	Citrus Commodity Survey	CA	State Government	\$485,000
1S	1S.0448.00	Exotic Fruit Fly Survey	CA	State Government	\$3,000,000
1S	1S.0450.00	False Codling Moth Survey	CA	State Government	\$75,000
1S	1S.0454.00	Stone Fruit Commodity Survey	CA	State Government	\$225,000
2	2.0218.00	California Agriculture Detector Dog Team Program	CA	State Government	\$3,180,597
3	3.0140.00	Enhancing taxonomic and molecular diagnostics capacity for fruit flies (Diptera: Tephritidae)	CA	State Government	\$222,143
3	3.0184.04	Attraction and detection of ambrosia beetles in the <i>Euwallacea fornicatus</i> species complex, Polyphagous Shot Hole Borer	CA	Academia	\$64,207
3	3.0239.03	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	CA	Academia	\$174,020
3	3.0291.00	Enhancing diagnostics of quarantine and regulated root-knot nematodes	CA	State Government	\$18,118
3	3.0323.00	Enhancing the sensitivity, efficiency and accuracy for detecting Cucumber green mottle mosaic virus in cucurbit seeds	CA	Academia	\$64,811
3	3.0488.00	Immunoassay for <i>Phytophthora ramorum</i> in nursery water samples	CA	Academia	\$138,325
4	4.0047.00	National Ornamentals Research Site at Dominican University of California (NORS-DUC)	CA	Academia	\$509,283

4	4.0098.02	Audit Training for State and Federal Personnel - Plant Pest Management Accreditation Program	CA	State Government	\$20,000
4	4.0193.00	A comparative study of nursery outbreaks of Ramorum Blight started by infested soil, infected plants, or infested water	CA	Academia	\$44,700
4	4.0304.00	Are plant pathogens entering nurseries from wildland forests? Are native plant nurseries serving as pathogen gateways?	CA	Non-APHIS-Federal	\$49,500
4	4.0402.00	Best Management Practices Program for Ornamental and Native Plant Nurseries	CA	State Government	\$73,000
4	4.0466.00	National Ornamental Research Site at Dominican University Oversight and Liaison	CA	State Government	\$70,000
4	4.0484.00	The effect of potting medium type and moisture, isolate and soil microorganisms on infection by Phytophthora tentaculata	CA	Academia	\$42,060
5	5.0297.00	Protecting trees & plants in our communities & forests: Inv spec. & plant health outreach for low-income, minority youth	CA	Non-APHIS-Federal	\$27,608
6	6.0065.00	Light brown apple moth (<i>Epiphyas postvittana</i>) in California, current status and natural limitations	CA	Academia	\$175,000
6	6.0146.01	Development of attractant-based detection and control methods for invasive gastropod species	CA	Academia	\$180,000
6	6.0380.00	Selecting and Improving Varroa-Resistant Honey Bee Stocks for Commercial Beekeeping	CA	Non-Profit	\$80,000
6	6.0387.01	Activators and Attractants for Giant African Snail	CA	Academia	\$135,000
6	6.0460.00	Natural Enemies and	CA	Academia	\$100,000

		Control of Polyphagous Shot Hole Borer (Euwallacea sp.)			
6	6.0496.01	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	CA	State Government	\$24,000
6	6.0496.04	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	CA	Academia	\$135,000
6	6.0441.00	Emergency Plant Health Response Team	CA	State Government	\$1,750,961
					\$12,356,127
Colorado					
1S	1S.0330.00	Stone Fruit Commodity Survey	CO	State Government	\$39,666
1S	1S.0342.00	Grape Commodity Survey	CO	State Government	\$20,603
3	3.0036.00	Curation of Insects from PPQ Cooperative Surveys, Colorado	CO	Academia	\$8,100
3	3.0068.00	Coleoptera and Lepidoptera screening aids for CAPS	CO	Academia	\$49,634
3	3.0230.01	Molecular-based initiatives to support the Old World Bollworm Strategic Management Plan	CO	Academia	\$163,173
4	4.0259.00	Assessment of disinfectants for control of Phytophthora ramorum	CO	Academia	\$65,400
					\$346,576
Connecticut					
1S	1S.0092.00	Phytophthora Ramorum Survey	CT	State Government	\$18,791
1S	1S.0096.00	Mixed Berry Commodity Survey	CT	State Government	\$16,908
1S	1S.0316.00	Orchard Commodity Survey	CT	State Government	\$16,908
5	5.0319.00	Forest Pest Outreach	CT	State Government	\$22,835
					\$75,442

District of Colombia					
4	4.0572.00	National Harmonized Systems Approach to Nursery Certification	DC	Non-Profit	\$149,500
					\$149,500
Delaware					
5	5.0222.00	Forest Pest Outreach	DE	State Government	\$29,250
6	6.0299.01	Development of new RNAi-based control technologies for use in plant health emergencies	DE	Non-APHIS-Federal	\$16,500
6	6.0496.02	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	DE	Non-APHIS-Federal	\$50,000
6	6.0496.03	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	DE	Non-APHIS-Federal	\$8,000
6	6.0496.05	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	DE	Academia	\$100,000
6	6.0582.02	Classical Biological Control of Spotted Lantern Fly	DE	Non-APHIS-Federal	\$8,000
					\$211,750
Florida					
1A	1A.0208.00	Potential tree pest invasions from Cuba: Pest diversity, economic assessment of threat, and Cuban policy analysis	FL	Academia	\$228,403
1A	1A.0377.00	Enhancing the Use of Economic Information and Analysis for Program Management in PPQ	FL	Academia	\$82,830
2	2.0224.00	Enhanced Pest Detection at High Risk Domestic Interdiction Sites and Marina/Canals Systems	FL	State Government	\$664,632
2	2.0506.00	Florida Department of Agriculture--Detector Dog Teams	FL	State Government	\$546,111
3	3.0013.01	Development of an Early Detection System for Exotic Honey Bee Pests	FL	State Government	\$97,936
3	3.0184.02	Attraction and detection of ambrosia beetles in the	FL	Academia	\$35,453

		Euwallacea fornicatus species complex, Polyphagous Shot Hole Borer			
3	3.0187.03	Attractants for Spotted Lanternfly, Lycorma delicatula	FL	Academia	\$27,323
3	3.0322.03	Rapid and accurate diagnostic identification of phytoplasmas	FL	Academia	\$89,700
5	5.0437.00	Interagency First Detector Training for Florida	FL	Academia	\$75,883
5	5.0464.00	Establishing an Invasive Species Youth Outreach Program in Florida	FL	Academia	\$50,000
6	6.0161.00	Mitigation of Invasive Pests Using Biological Control in Open Field Tomato Crops	FL	Academia	\$95,000
6	6.0298.00	Spray treatment methods of targeted plant gene silencing to control citrus diseases.	FL	Industry	\$180,000
6	6.0324.00	Bean Plataspid Biological Control	FL	State Government	\$130,000
6	6.0346.01	Enhanced Mitigation Techniques for Control of Several Exotic Whitefly Species	FL	Academia	\$115,000
6	6.0346.02	Enhanced Mitigation Techniques for Control of Several Exotic Whitefly Species	FL	State Government	\$150,000
6	6.0387.02	Activators and Attractants for Giant African Snail	FL	APHIS	\$8,000
6	6.0387.03	Activators and Attractants for Giant African Snail	FL	State Government	\$41,000
6	6.0387.04	Activators and Attractants for Giant African Snail	FL	APHIS	\$116,000
6	6.0496.07	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	FL	State Government	\$160,000
6	6.0521.00	Neonic Stewardship Program for the Management of the Invasive Bemisia Whitefly Complex	FL	Non-APHIS-Federal	\$60,000
6	6.0562.01	Enhanced Mitigation Techniques for Control of	FL	Non-APHIS-Federal	\$105,000

		Cactoblastis cactorum			
6	6.0562.03	Enhanced Mitigation Techniques for Control of Cactoblastis cactorum	FL	State Government	\$299,000
6	6.0563.00	Evaluating the physiological effects of thermotherapy in citrus	FL	Academia	\$125,000
6	6.0594.00	True host assessment of chili thrips: Development of a knowledge based management program for an invasive thrips	FL	Academia	\$45,000
6	1.0219.00	Survey for Old World Bollworm (<i>Helicoverpa armigera</i>) and Other Pests of Tomato	FL	State Government	\$393,538
6	6.0338.00	Giant African Land Snail	FL	State Government	\$2,203,080
6	6.0458.00	Response Planning for the Old World Bollworm, <i>Helicoverpa armigera</i>	FL	Academia	\$76,466
					\$6,200,355
Georgia					
1S	1S.0360.00	Orchard Commodity Survey	GA	State Government	\$80,000
1S	1S.0367.00	Blueberry Commodity Survey	GA	State Government	\$65,265
1S	1S.0374.00	Solanaceous Commodity Survey	GA	State Government	\$37,569
3	3.0013.02	Development of an Early Detection System for Exotic Honey Bee Pests	GA	State Government	\$36,778
5	5.0468.00	First Detector Network in Georgia	GA	Academia	\$47,095
6	6.0562.05	Enhanced Mitigation Techniques for Control of Cactoblastis cactorum	GA	Non-APHIS-Federal	\$30,000
					\$296,707
Guam					
1S	1S.0050.00	Tomato Commodity Survey	GU	Academia	\$38,320
3	3.0052.00	Temperature-stable sample collection and simultaneous molecular diagnostic testing of coconut palm viroids	GU	Academia	\$23,923

6	6.0026.00	Coconut Rhinoceros Beetle Biocontrol	GU	Academia	\$100,000
6	6.0570.00	Guam Coconut Rhinoceros Beetle Management Program	GU	State Government	\$150,000
					\$312,243
Hawaii					
1S	1S.0409.01	Coffee Pests Survey	HI	Academia	\$68,035
1S	1S.0409.02	Coffee Pests Survey	HI	Non-APHIS-Federal	\$21,230
1S	1S.0409.03	Coffee Pests Survey	HI	Academia	\$76,235
2	2.0005.00	Hawaii Pre-Clearance X-ray Support	HI	APHIS	\$135,734
3	3.0392.02	Genomic approaches to fruit fly exclusion and pathway analysis (year 2)	HI	Non-APHIS-Federal	\$304,266
3	3.0392.03	Genomic approaches to fruit fly exclusion and pathway analysis (year 2)	HI	Academia	\$298,200
5	5.0425.00	Coconut Rhinoceros Beetle (CRB) Outreach & Education in Areas of High Concern on Oahu, Hawaii	HI	Non-Profit	\$99,384
6	6.0118.00	Integrated and sustainable approach to manage new invasive pests of Ficus trees in Hawaii's urban landscapes	HI	Academia	\$41,000
6	6.0238.00	Developing an Integrated Pest Management program to control Coconut Rhinoceros Beetle on Oahu in Hawaii (Year 2)	HI	Academia	\$75,000
6	6.0241.01	Response to Coconut Rhinoceros Beetle in Hawaii	HI	State Government	\$225,000
6	6.0241.02	Response to Coconut Rhinoceros Beetle in Hawaii	HI	Academia	\$1,000,000
					\$2,344,084
Iowa					
1S	1S.0044.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	IA	State Government	\$25,000
3	3.0435.00	Strengthening detection methods for seed borne pathogens of import concern	IA	Academia	\$114,908

3	3.0610.00	Pilot Biosecurity Framework for Imported Seeds	IA	Academia	\$190,605
					\$330,513
Idaho					
3	3.0392.01	Genomic approaches to fruit fly exclusion and pathway analysis (year 2)	ID	Academia	\$34,170
4	4.0532.02	Harmonizing Grapevine Nursery Stock Certification Programs in the Pacific Northwest	ID	State Government	\$8,490
6	6.0088.01	PCN Immunity 2016	ID	Academia	\$190,000
6	6.0088.02	PCN Immunity 2016	ID	Academia	\$50,000
6	6.0088.03	PCN Immunity 2016	ID	Academia	\$70,000
6	6.0088.04	PCN Immunity 2016	ID	Academia	\$70,000
6	6.0412.01	Sterile Litchi Tomato - PCN Eradication	ID	Academia	\$40,000
6	6.0051.01	PCN Eradication 2016	ID	Academia	\$249,783
6	6.0051.02	PCN Eradication 2016	ID	Academia	\$32,056
6	6.0051.03	PCN Eradication 2016	ID	Academia	\$24,324
6	6.0051.04	PCN Eradication 2016	ID	Academia	\$2,519
6	6.0051.05	PCN Eradication 2016	ID	Academia	\$51,456
					\$822,798
Illinois					
1S	1S.0166.00	Orchard Commodity Survey	IL	State Government	\$28,898
1S	1S.0188.00	Grape Commodity Survey	IL	State Government	\$28,678
1S	1S.0226.00	Forest Pest Survey	IL	State Government	\$46,355
1S	1S.0444.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	IL	Non-Profit	\$25,000
3	3.0184.03	Attraction and detection of ambrosia beetles in the Euwallacea fornicatus species complex, Polyphagous Shot Hole Borer	IL	Non-APHIS-Federal	\$13,000
5	5.0422.00	Forest Pest Outreach for Illinois	IL	Non-Profit	\$70,486
					\$212,417

Indiana					
1A	1A.0289.01	NPDN Data Analysis	IN	Academia	\$35,000
1S	1S.0456.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	IN	State Government	\$25,000
4	4.0143.00	Notification Online	IN	Academia	\$17,750
5	5.0611.00	Forest Pest Outreach and Survey Project FY2016	IN	State Government	\$49,950
					\$127,700
Kansas					
6	6.0354.02	Improved trapping and control tools for khapra beetle	KS	Academia	\$90,000
					\$90,000
Kentucky					
1S	1S.0111.00	Apple Commodity Survey	KY	Academia	\$15,731
1S	1S.0112.00	Grape Commodity Survey	KY	Academia	\$19,983
1S	1S.0113.00	Phytophthora Ramorum Survey	KY	Academia	\$25,578
1S	1S.0114.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	KY	Academia	\$19,698
4	4.0162.00	National Harmonized Systems Approach to Nursery Certification (SANC)	KY	Non-Profit	\$327,988
5	5.0115.00	Firewood Scout in Kentucky	KY	Academia	\$8,231
5	5.0350.00	Invasive Pest Outreach in Kentucky	KY	Academia	\$54,491
6	6.0299.02	Development of new RNAi-based control technologies for use in plant health emergencies	KY	Academia	\$66,000
					\$537,700
Louisiana					
1S	1S.0014.00	Phytophthora Ramorum Survey	LA	State Government	\$15,405
1S	1S.0199.00	Citrus Commodity Survey	LA	State Government	\$9,556
					\$24,961

Massachusetts					
1S	1S.0315.00	Phytophthora Ramorum Survey	MA	State Government	\$24,400
3	3.0187.01	Attractants for Spotted Lanternfly, Lycorma delicatula	MA	APHIS	\$80,470
5	5.0328.00	Forest and Agricultural Pest Outreach	MA	State Government	\$45,000
5	5.0463.00	Asian Long horned Beetle Awareness Campaign	MA	State Government	\$150,000
6	6.0211.01	Artificial rearing system for spotted lanternfly	MA	APHIS	\$3,000
6	6.0582.01	Classical Biological Control of Spotted Lantern Fly	MA	APHIS	\$8,000
					\$310,870
Maryland					
1S	1S.0056.00	Grape Commodity Survey	MD	State Government	\$24,986
1S	1S.0134.00	Phytophthora Ramorum Survey	MD	State Government	\$35,000
3	3.0013.04	Development of an Early Detection System for Exotic Honey Bee Pests	MD	State Government	\$20,000
3	3.0509.01	Systematics and identification of Urocystis species causing flag smut	MD	Non-APHIS-Federal	\$42,804
3	3.0525.01	Integrated Clinical, Extension, Research and Regulatory (ICERR) Internships in Systematics and Diagnostics	MD	Non-APHIS-Federal	\$4,950
6	6.0351.03	Enhanced Mitigation and Detection of Impatiens, Cucurbit, Hops, and Basil Downy Mildews	MD	Non-APHIS-Federal	\$21,000
6	6.0356.01	Boxwood Blight: Developing New Mitigation Strategies	MD	Non-APHIS-Federal	\$170,000
					\$318,740

Maine					
1S	1S.0147.00	Small Fruit Commodity Survey	ME	State Government	\$15,893
5	5.0149.00	Forest Pest Outreach and Education	ME	State Government	\$56,540
					\$72,433
Michigan					
1S	1S.0103.00	Exotic Tortricidae Survey	MI	State Government	\$61,703
1S	1S.0225.00	Cyst Nematode Survey	MI	State Government	\$27,514
1S	1S.0228.00	Oak and Pine Commodity Survey	MI	State Government	\$96,944
3	3.0136.00	Morphological and molecular diagnostic tools for the identification of exotic ambrosia beetles (Curculionidae: Scolytinae	MI	Academia	\$137,258
5	5.0513.00	Me and MI Forest	MI	APHIS	\$10,000
6	6.0351.02	Enhanced Mitigation and Detection of Impatiens, Cucurbit, Hops, and Basil Downy Mildews	MI	Academia	\$195,000
6	6.0496.08	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	MI	Academia	\$170,000
					\$698,419
Minnesota					
1S	1S.0007.00	Pathway Based Survey for Exotic Pests of Multiple Agricultural Systems	MN	State Government	\$182,000
1S	1S.0171.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	MN	State Government	\$25,000
1S	1S.0234.00	Cyst Nematode Survey	MN	State Government	\$50,885
1S	1S.0378.00	Potato Commodity Survey	MN	State Government	\$58,000
					\$315,885

Missouri					
1A	1A.0293.00	Development of a Weed Risk Assessment for Botanical Gardens	MO	Non-Profit	\$75,435
1S	1S.0010.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	MO	State Government	\$25,000
5	5.0526.00	Invasive Forest Pest Outreach Project	MO	State Government	\$46,424
					\$146,859
Mississippi					
1S	1S.0573.00	Asian Defoliating Moth Survey	MS	Academia	\$36,164
3	3.0230.04	Molecular-based initiatives to support the Old World Bollworm Strategic Management Plan	MS	Non-APHIS-Federal	\$91,830
3	3.0300.00	Taxonomic Assistance to Eastern States for Processing Insect Pest Survey Samples	MS	Academia	\$110,000
5	5.0498.00	Emerald Ash Borer and Invasive Insect Outreach and Education for Mississippi	MS	Academia	\$81,235
6	6.0562.02	Enhanced Mitigation Techniques for Control of <i>Cactoblastis cactorum</i>	MS	Academia	\$10,000
					\$329,229
Montana					
1S	1S.0048.00	Terrestrial Mollusk Survey	MT	State Government	\$18,092
1S	1S.0058.00	Exotic Wood Boring Bark Beetle Survey	MT	State Government	\$24,843
3	3.0150.00	Pulse Crop Diagnostic Laboratory	MT	Academia	\$150,000
5	5.0135.00	Don't Move Firewood Outreach Campaign	MT	Non-Profit	\$170,135
5	5.0347.00	Forest Pest Outreach	MT	Non-Profit	\$37,046
					\$400,116

North Carolina					
1A	1A.0486.00	Integrative Spatiotemporal Risk Maps of Fruit Flies	NC	Academia	\$174,912
1S	1S.0179.00	Solanaceous Commodity Survey	NC	State Government	\$9,593
1S	1S.0223.00	Grape Commodity Survey	NC	State Government	\$5,424
1S	1S.0227.00	Asian Defoliating Moth Survey	NC	State Government	\$6,803
1S	1S.0365.00	Phytophthora Ramorum Survey	NC	State Government	\$13,048
1S	1S.0386.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	NC	State Government	\$19,725
4	4.0126.02	Biologically-based New Mitigation Strategies for Boxwood Blight	NC	Academia	\$11,800
4	4.0559.00	Evaluating farm cleansers as sterilants against the boxwood blight pathogen, Calonectria pseudonaviculata	NC	State Government	\$2,624
5	5.0276.00	Forest Pest Outreach	NC	State Government	\$21,214
6	6.0211.02	Artificial rearing system for spotted lanternfly	NC	Academia	\$90,000
6	6.0245.02	Targeting bacterial pathogens with CRITteR AMmO, a CRISPR-targeted antimicrobial system	NC	Academia	\$225,000
6	6.0248.00	Enhancing Exotic Plant-Pest Management by Creating New Pest Response Guidelines with University Collaboration	NC	Academia	\$275,000
6	6.0263.02	Spotted Lanternfly Eradication Program	NC	Non-Profit	\$54,556
					\$909,699

North Dakota					
1S	1S.0266.00	Cyst Nematode Survey	ND	State Government	\$75,000
1S	1S.0294.00	Khapra Beetle Survey	ND	State Government	\$8,000
1S	1S.0326.00	Cyst Nematode Survey	ND	State Government	\$10,919
					\$93,919
Nebraska					
1S	1S.0282.00	Khapra Beetle Survey	NE	State Government	\$5,000
1S	1S.0288.00	Cyst Nematode Survey	NE	State Government	\$28,000
5	5.0174.00	Forest Pest Outreach Project	NE	State Government	\$15,000
					\$48,000
New Hampshire					
1S	1S.0145.00	Stone Fruit Commodity Survey	NH	State Government	\$5,326
5	5.0176.00	New Hampshire Forest Pest Outreach Project	NH	Academia	\$45,000
5	5.0185.00	New Hampshire Firewood Transportation Outreach: Promoting and Identifying Local Markets Through Firewood Scout	NH	State Government	\$11,350
					\$61,676

New Jersey					
1S	1S.0204.00	Phytophthora Ramorum Survey	NJ	State Government	\$35,000
1S	1S.0305.00	Exotic Wood Boring Bark Beetle Survey	NJ	State Government	\$21,814
1S	1S.0307.00	Exotic Grain Pests Ethnic Food Market Survey	NJ	State Government	\$15,512
1S	1S.0308.00	Orchard Commodity Survey	NJ	State Government	\$25,908
1S	1S.0310.00	Exotic Temperate Terrestrial Mollusk Pathway Survey	NJ	State Government	\$31,107
1S	1S.0311.00	Solanaceous Commodity Survey	NJ	State Government	\$27,168
3	3.0525.02	Integrated Clinical, Extension, Research and Regulatory (ICERR) Internships in Systematics and Diagnostics	NJ	Non-APHIS-Federal	\$100,900
5	5.0306.00	Forest Pest Outreach and Survey	NJ	State Government	\$50,717
5	5.0312.00	Multi-State Media Outreach Training	NJ	State Government	\$9,411
6	6.0351.01	Enhanced Mitigation and Detection of Impatiens, Cucurbit, Hops, and Basil Downy Mildews	NJ	Academia	\$210,000
6	6.0356.02	Boxwood Blight: Developing New Mitigation Strategies	NJ	Academia	\$180,000
					\$707,537
New Mexico					
1S	1S.0041.00	Nut Pest Commodity Survey	NM	State Government	\$25,000
3	3.0177.00	Enhancing sequencing data for the genus Ditylenchus including D. angustus and D. weischeri	NM	Academia	\$44,445
					\$69,445

Nevada					
1S	1S.0021.00	Palm Commodity Survey	NV	State Government	\$15,000
1S	1S.0023.00	Asian Defoliating Moth Survey	NV	State Government	\$16,826
1S	1S.0024.00	Khapra Beetle Survey	NV	State Government	\$5,043
1S	1S.0046.00	Cyst Nematode Survey	NV	State Government	\$31,694
					\$68,563
New York					
1S	1S.0349.00	Grape Commodity Survey	NY	State Government	\$100,000
1S	1S.0361.00	Orchard Commodity Survey	NY	State Government	\$130,000
1S	1S.0479.00	Phytophthora Ramorum Survey	NY	State Government	\$35,000
1S	1S.0492.00	Stone Fruit Commodity Survey	NY	State Government	\$200,000
1S	1S.0495.00	Small Fruit Commodity Survey	NY	State Government	\$100,000
3	3.0148.01	Biology and trapping of the velvet long horned beetle (VLB), Trichoferus campestris	NY	State Government	\$11,201
3	3.0318.00	NPDN and State Diagnostician Readiness through Training at the CPHST-Beltsville Laboratory and other sites.	NY	Academia	\$97,912
3	3.0359.00	NPDN STAR-D Phase 2 Workshop Development and Execution	NY	Academia	\$63,938
4	4.0547.00	Reinstating a grape certification program in New York	NY	State Government	\$109,500
5	5.0366.00	Forest Pest Outreach Survey Project- Raising Awareness	NY	State Government	\$43,883
5	5.0490.00	Forest Pest Outreach and Education	NY	State Government	\$41,860

6	6.0472.00	Deregulation and Enhanced Regulatory Activities of Golden Nematode	NY	State Government	\$125,000
6	6.0562.06	Enhanced Mitigation Techniques for Control of <i>Cactoblastis cactorum</i>	NY	Academia	\$14,000
					\$1,072,294
Ohio					
1S	1S.0333.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	OH	State Government	\$24,200
1S	1S.0487.00	Phytophthora Ramorum Survey	OH	State Government	\$25,384
1S	1S.0505.00	Grape Commodity Survey	OH	State Government	\$21,182
3	3.0148.03	Biology and trapping of the velvet long horned beetle (VLB), <i>Trichoferus campestris</i>	OH	Academia	\$24,724
5	5.0244.00	First Detector Training - Ohio	OH	Academia	\$31,227
					\$126,717
Oklahoma					
1S	1S.0296.00	Grape Commodity Survey	OK	State Government	\$10,318
					\$10,318
Oregon					
1S	1S.0196.00	Grape Commodity Survey	OR	State Government	\$65,000
1S	1S.0430.00	Asian Defoliating Moth Survey	OR	State Government	\$275,000
1S	1S.0434.00	Nut Pest Commodity Survey	OR	State Government	\$75,000
1S	1S.0443.00	Orchard Commodity Survey	OR	State Government	\$100,000
1S	1S.0447.00	Solanaceous Commodity Survey	OR	State Government	\$58,000
1S	1S.0453.00	Light Brown Apple Moth Delimitation Survey	OR	State Government	\$65,000
3	3.0082.00	Regional Identification	OR	State	\$157,793

		Center for Bark Beetle and other wood boring beetles		Government	
4	4.0049.02	Survey for newly reported and economically important viruses in US national strawberry germplasm collections	OR	Non-APHIS-Federal	\$25,000
4	4.0106.00	Updating a State Certification Program to Meet the State Level Model Regulatory Standard for Caneberry Nursery Stock	OR	State Government	\$34,382
4	4.0126.03	Biologically-based New Mitigation Strategies for Boxwood Blight	OR	Academia	\$5,900
4	4.0383.01	Determining 'High Risk' viruses for blueberry nursery production in the U.S.	OR	Non-APHIS-Federal	\$44,600
4	4.0532.01	Harmonizing Grapevine Nursery Stock Certification Programs in the Pacific Northwest	OR	State Government	\$24,750
6	6.0088.05	PCN Immunity 2016	OR	Academia	\$30,000
6	6.0088.07	PCN Immunity 2016	OR	Non-APHIS-Federal	\$70,000
6	6.0496.06	Brown Marmorated Stink Bug (BMSB) Classical Biological Control – Phase 2	OR	State Government	\$100,000
6	6.0051.06	PCN Eradication 2016	OR	USDA-ARS	\$59,910
6	6.0702.00	Asian Gypsy Moth Response	OR	State Government	\$1,700,000
					\$2,890,335
Pennsylvania					
1A	1A.0178.00	Predicting the Cumulative and Ecological Impacts of Pests and Pathogens in the Forest of Eastern United States	PA	Academia	\$191,990
1S	1S.0273.00	Grape Commodity Survey	PA	State Government	\$75,000
1S	1S.0281.00	Solanaceous Commodity Survey	PA	State Government	\$58,000

1S	1S.0283.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	PA	State Government	\$25,000
1S	1S.0332.00	Phytophthora Ramorum Survey	PA	State Government	\$35,000
1S	1S.0372.01	Orchard Commodity Survey	PA	State Government	\$19,710
1S	1S.0372.02	Orchard Commodity Survey	PA	Academia	\$53,290
1S	1S.0561.00	Survey for Exotic Diseases in Grape and Solanaceous Crops in Pennsylvania	PA	State Government	\$40,000
3	3.0013.03	Development of an Early Detection System for Exotic Honey Bee Pests	PA	State Government	\$44,597
3	3.0187.02	Attractants for Spotted Lanternfly, <i>Lycorma delicatula</i>	PA	Academia	\$97,414
3	3.0239.04	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	PA	Academia	\$133,360
3	3.0478.00	Host vs Alternate Host Tree Oviposition Attractants for Female Emerald Ash Borers	PA	Academia	\$123,831
4	4.0523.00	The Effect of ammonia and anaerobic compost conditions on <i>C. pseudonaviculatum</i> , the causal agent of boxwood blight	PA	Academia	\$44,500
5	5.0053.00	Sentinel Plant Network	PA	Non-Profit	\$255,800
5	5.0285.00	Spotted Lanternfly Outreach and Extension Program	PA	Academia	\$38,525
5	5.0321.00	Forest Pest Outreach PA	PA	State Government	\$52,921
6	6.0263.01	Spotted Lanternfly Eradication Program	PA	Academia	\$14,521
6	6.0263.03	Spotted Lanternfly Eradication Program	PA	Academia	\$91,614
6	6.0263.04	Spotted Lanternfly Eradication Program	PA	State Government	\$1,424,538
					\$2,819,611

Puerto Rico					
6	6.0701.00	OWB Response	PR	APHIS	\$420,725
					\$420,725
Rhode Island					
1S	1S.0142.00	Solanaceous Commodity Survey	RI	State Government	\$13,569
1S	1S.0152.00	Grape Commodity Survey	RI	Academia	\$11,917
1S	1S.0262.00	Orchard Commodity Survey	RI	State Government	\$18,817
					\$44,303
South Carolina					
1S	1S.0168.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	SC	State Government	\$20,159
1S	1S.0530.00	Plum Pox Virus Survey	SC	State Government	\$80,000
5	5.0055.00	Junior Invasive Inspectors	SC	State Government	\$32,824
5	5.0167.00	Forest Pest and Firewood Outreach	SC	State Government	\$34,010
					\$166,993
Tennessee					
1S	1S.0059.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	TN	State Government	\$25,000
1S	1S.0157.00	Tomato Commodity Survey	TN	Academia	\$17,750
1S	1S.0170.00	Phytophthora Ramorum Survey	TN	State Government	\$35,000
4	4.0514.00	Efficacy of Granular Insecticide Treatments for Japanese Beetle and Imported Fire Ant in Compost-Amended Substrates	TN	Academia	\$30,045

5	5.0529.00	Forest Pest Outreach and Survey Project (FPOSP), Tennessee, FY 2016	TN	Academia	\$37,500
					\$145,295
Texas					
1S	1S.0062.00	Exotic Wood Boring Bark Beetle Survey	TX	Academia	\$135,010
1S	1S.0364.00	Stone Fruit Commodity Survey	TX	Academia	\$63,555
1S	1S.0407.00	Palm Commodity Survey	TX	Academia	\$60,000
1S	1S.0482.00	Phytophthora Ramorum Survey	TX	Academia	\$30,000
2	2.0144.00	Critical Entry Point Monitoring for the Pests of Biosecurity Concern	TX	State Government	\$682,926
3	3.0013.05	Development of an Early Detection System for Exotic Honey Bee Pests	TX	Academia	\$39,208
3	3.0230.03	Molecular-based initiatives to support the Old World Bollworm Strategic Management Plan	TX	Academia	\$131,536
5	5.0183.00	Pest, Plant, and Pollinator Outreach and Education Program	TX	Academia	\$19,100
5	5.0571.00	TX Master Gardener Specialist First Detector program	TX	Academia	\$41,320
5	5.0576.00	Strengthening the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence Pests	TX	Academia	\$66,732
6	6.0615.00	Strengthening the Mexican fruit fly (<i>Anastrepha ludens</i>) eradication program through attract-and-kill strategies	TX	Academia	\$135,000
					\$1,404,387

Utah					
1S	1S.0172.00	Orchard Commodity Survey	UT	Academia	\$14,848
1S	1S.0253.00	Asian Defoliating Moth Survey	UT	State Government	\$15,000
3	3.0341.00	Quantification of bumble bee pathogen spillover from commercial to wild populations	UT	Non-APHIS-Federal	\$34,970
3	3.0607.02	Comparing capture rates of hot melt and traditional sticky inserts under field and laboratory conditions	UT	Academia	\$10,413
5	5.0175.00	Developing a First Detector Network for Utah	UT	Academia	\$33,278
					\$108,509
Virginia					
1S	1S.0097.00	Phytophthora Ramorum Survey	VA	State Government	\$31,714
1S	1S.0101.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	VA	State Government	\$25,000
1S	1S.0102.00	Ralstonia solanacearum Survey	VA	State Government	\$28,000
1S	1S.0125.00	Grape Commodity Survey	VA	State Government	\$29,111
3	3.0182.01	Attraction and Detection of the Fruit Piercing Moth	VA	Academia	\$116,215
4	4.0126.01	Biologically-based New Mitigation Strategies for Boxwood Blight	VA	Academia	\$71,600
5	5.0286.00	Making Your Household Goods Move Gypsy Moth Free - Consumer Awareness Campaign	VA	Non-Profit	\$75,000
					\$376,640
Vermont					
1S	1S.0133.00	Exotic Wood Boring Bark Beetle Survey	VT	State Government	\$25,445
1S	1S.0151.00	Asian Defoliating Moth Survey	VT	State Government	\$13,109

1S	1S.0154.00	Apple Commodity Survey	VT	State Government	\$16,018
1S	1S.0205.00	Grape Commodity Survey	VT	State Government	\$15,057
5	5.0317.00	Forest Pest Outreach Project	VT	State Government	\$64,329
					\$133,958
Washington					
1A	1A.0373.00	Identifying Emerging Pathways of Asian Gypsy Moth in the Pacific Northwest	WA	Academia	\$55,014
1S	1S.0265.00	Asian Defoliating Moth Survey	WA	State Government	\$275,000
1S	1S.0524.00	Stone Fruit Commodity Survey	WA	State Government	\$144,000
1S	1S.0577.00	Hardwood Commodity Survey	WA	State Government	\$70,000
1S	1S.0587.00	Softwood Commodity Survey	WA	State Government	\$25,000
3	3.0272.02	Lepidoptera attractants	WA	State Government	\$39,000
3	3.0509.02	Systematics and identification of Urocystis species causing flag smut	WA	Non-APHIS-Federal	\$114,591
3	3.0549.00	Western States Lepidoptera Diagnostic Center	WA	State Government	\$127,721
3	3.0607.01	Comparing capture rates of hot melt and traditional sticky inserts under field and laboratory conditions	WA	State Government	\$25,499
4	4.0494.00	NORSUDC- Movement of Phytophthora ramorum inoculum in the soil profile	WA	Academia	\$27,000
4	4.0532.03	Harmonizing Grapevine Nursery Stock Certification Programs in the Pacific Northwest	WA	State Government	\$17,378
4	4.0532.04	Harmonizing Grapevine Nursery Stock Certification Programs in	WA	Industry	\$74,750

		the Pacific Northwest			
5	5.0522.01	COLUMBIA GORGE INVASIVE SPECIES PROJECT: A REGIONAL APPROACH	WA	Academia	\$10,801
5	5.0522.02	COLUMBIA GORGE INVASIVE SPECIES PROJECT: A REGIONAL APPROACH	WA	Industry	\$20,869
5	5.0522.03	COLUMBIA GORGE INVASIVE SPECIES PROJECT: A REGIONAL APPROACH	WA	State Government	\$15,209
6	6.0088.06	PCN Immunity 2016	WA	Academia	\$20,000
6	6.0231.00	Training and Certification for Canopy Survey	WA	State Government	\$16,000
6	6.0267.00	Steaming as a method of eradicating Phytophthora ramorum and associated Phytophthora spp. in Washington State nurseries	WA	Academia	\$56,000
6	6.0412.02	Sterile Litchi Tomato - PCN Eradication	WA	Academia	\$20,000
6	6.0489.00	Vineyard Snail Eradication	WA	State Government	\$45,000
6	6.0051.07	PCN Eradication 2016	WA	USDA-ARS	\$69,680
6	6.0703.00	Asian Gypsy Moth Eradication	WA	State Government	\$1,700,000
					\$2,968,512
Wisconsin					
1S	1S.0325.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	WI	State Government	\$25,000
1S	1S.0331.00	Exotic Wood Boring Bark Beetle Survey	WI	State Government	\$25,342
1S	1S.0335.00	Blueberry Maggot Survey	WI	State Government	\$4,866
1S	1S.0566.00	Cyst Nematode Survey	WI	Academia	\$58,750
3	3.0465.00	WTCAC FB10007 Tribal Capacity Building	WI	Non-Profit	\$80,000
5	5.0470.00	Increasing youth and public education through Wisconsin's First Detector Network	WI	Academia	\$41,647
6	6.0507.00	Pest Rapid Response	WI	Non-Profit	\$75,000

		Emergency Preparation and Mitigation Exercise			
					\$310,605
West Virginia					
1S	1S.0093.00	Asian Defoliating Moth Survey	WV	State Government	\$15,000
5	5.0095.00	2016-2017 West Virginia Visitor Outreach and Education Project	WV	State Government	\$20,000
					\$35,000