RFP Year	Subd.	Proposal ID #	Project Title	Organization	Project Manager		Amount propriated
2015	06a	n/a	Minnesota Invasive Terrestrial Plants and Pests Center	U of MN - MITPPC	Robert Venette	\$	5,000,000
2015	06a-01		Subproject 06a-01: Garlic Mustard Biocontrol: Ecological Host Range of Biocontrol Agents	U of MN - MITPPC	Roger Becker	\$	600,000
2015	06a-02		Subproject 06a-02: Mountain Pine Beetle, Phase II: Protecting Minnesota	U of MN - MITPPC	Brian Aukema	\$	444,982
2015	06a-03		Subproject 06a-03: Biological Control of the Soybean Aphid by Aphelinus Certus	U of MN - MITPPC	George Heimpel	\$	479,859
2015	06a-04		Subproject 06a-04: Decreasing Environmental Impacts of Soybean Aphid Management	U of MN - MITPPC	Robert Koch	\$	570,000
2015	06a-05		Subproject 06a-05: Optimizing Tree Injections against Emerald Ash Borer	U of MN - MITPPC	Brian Aukema	\$	318,927
2015	06a-06		Subproject 06a-06: Distribution and Traits of the Fungal Pathogen Fusarium Virguliforme that Influence Current and Future Risk to Soybean and Other Legumes in Minnesota	U of MN - MITPPC	Dean Malvick and Kathryn Bushley	Ş	383,651
2015	06a-07		Subproject 06a-07: Tools to Distinguish Native from Exotic Reed Canary Grass	U of MN - MITPPC	Neil O. Anderson	Ş	263,273
2015	06a-08		Subproject 06a-08: Accurate Detection and Integrated Treatment of Oak Wilt (Ceratocystis fagacearum) in Minnesota	U of MN - MITPPC	Jeannine Cavender- Bares	Ş	356,382
2015	06a-09		Subproject 06a-09: Characterizing Dispersal of Larval Gypsy Moth to Improve Quarantine Regulations	U of MN - MITPPC	Brian Aukema	Ş	35,000
2015	06a-10		Subproject 06a-10: Management Strategies for the Invasive Spotted Wing Drosophila	U of MN - MITPPC	Mary Rogers	Ş	477,541
2015	06a-11		Subproject 06a-11: Will Future Weather Favor Minnesota's Woody Invaders?	U of MN - MITPPC	Peter Reich	\$	526,000
2015	06a-12		Subproject 06a-12: Developing Robust Identification Assays for Amaranthus Palmeri in Seed Mixture	U of MN - MITPPC	Don Wyse	Ş	208,230

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2015	06a-13		Subproject 06a-13: Terrestrial Invasive Species Prioritization	U of MN - MITPPC	Amy Morey	\$	71,461
2015	06a-14		Subproject 06a-14: Improved Detection and Future Management of Leafy Spurge and Common Tansy using Remote Sensing, Mechanistic Species Distribution Models, and Landscape Genomics	U of MN - MITPPC	David Moller and Ryan Briscoe Runquist	Ş	70,812
2015	06a-16		Subproject 06a-16: Effects of Puccinia species complex on common buckthorn (Rhamnus cathartica)	U of MN - MITPPC	Pablo Olivera Firpo	\$	26,908
2015	06a-17		Subproject 06a-17: Studies of entomopathogenic fungi for effective biocontrol of the emerald ash borer, Phase 2	U of MN - MITPPC	Robert Blanchette	\$	33,000
2015	06a-18		Subproject 06a-18: Incorporating adaptation into forecasts of range shifts with climate change	U of MN - MITPPC	Ryan Briscoe Runquist	\$	33,000
2015	06a-19		Subproject 06a-19: Genetic control of invasive insect species: Phase 3	U of MN - MITPPC	Michael Smanski	Ş	50,000
2015	06a-20		Subproject 06a-20: Making revegetation as part of buckthorn management feasible in Minnesota	U of MN - MITPPC	Michael Schuster	Ş	40,000
2016	06a	n/a	Minnesota Invasive Terrestrial Plants and Pests Center - Phase III	U of MN - MITPPC	Robert Venette	\$	3,750,000
2016	06a-01		Subproject 06a-01: Fungi in Ash Trees: Towards Protecting Trees from Emerald Ash	U of MN - MITPPC	Robert Blanchette	Ş	500,000
2016	06a-02		Subproject 06a-02: Understanding the Benefits and Limitations of using Goats for Invasive Plant Control	U of MN - MITPPC	Tiffany Wolf	Ş	410,267
2016	06a-03		Subproject 06a-03: Genetic Control of Invasive Insect Species: Phase I	U of MN - MITPPC	Michael Smanski	\$	295,717
2016	06a-04		Subproject 06a-04: Dwarf Mistletoe Detection and Management in Minnesota	U of MN - MITPPC	Marcella Windmuller- Campione	\$	455,606

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2016	06a-05		Subproject 06a-05: Developing Spatially Explicit Bio- economic Dispersal Model to Aid with the Management of Brown Marmorated Stink Bug	U of MN - MITPPC	Senait Senay	Ş	329,304
2016	06a-06		Subproject 06a-06: Management of Invasive Knotweeds	U of MN - MITPPC	Alan Smith	Ş	476,723
2016	06a-07		Subproject 06a-07: Building Mechanistic and Process based Species Distribution Models for Common Tansy and Leafy Spurge: from Landscapes to Genomes	U of MN - MITPPC	David Moller and Ryan Briscoe Runquist	Ş	351,188
2016	06a-08		Subproject 06a-08: Using Plants to Control Buckthorn: an Expanded Approach	U of MN - MITPPC	Peter Reich	\$	560,000
2016	06a-09		Subproject 06a-09: Genetic control of invasive insects, Phase 2	U of MN - MITPPC	Michael Smanski	Ş	55,100
2016	06a-10		Subproject 06a-10: Novel Diagnostic Tools for Rapid and Early Detection of Oak Wilt	U of MN - MITPPC	Abdennour Abbas	\$	170,637
2018	06a	n/a	Minnesota Invasive Terrestrial Plants and Pests Center - Phase 4	U of MN - MITPPC	Robert Venette	\$	3,500,000
2019	06a-21.2		Subproject 06a-21.2: Field Validation of Mulitbeam Sonar Zebra Mussel Detection (Year 2)	U of MN - MAISRC	Jessica Kozarek	\$	228,764
2019	06a-22.2		Subproject 06a-22.2: Assessing and Refining Copper- Based Treatment to Suppress Zebra Mussel populations	U of MN - MAISRC	Diane Waller	\$	249,056
2019	06a-23.2		Subproject 06a-23.2: AIS and Tourism - A Socio- Economic Assessment	U of MN - MAISRC	Amit Pradhananga	\$	249,088
2019	06a-25.2		Subproject 06a-25.2: Examining Motivations for Illegal Baitfish Release	U of MN - MAISRC	Nicholas Phelps	\$	74,636
2019	06a-28.2		Subproject 06a-28.2: Enzyme-Based Coatings to Suppress Priority AIS	U of MN - MAISRC	Mikael Elias	\$	187,480
2019	06a-33		Subproject 06a-33: Optimizing eDNA Monitoring for Multiple Aquatic Invasive Species	U of MN - MAISRC	Josh Dumke	\$	436,331

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2019	06a-35		Subproject 06a-35: Genetic Biocontrol of Invasive Species - Understanding Attitudes and Risk Perceptions	U of MN - MAISRC	David Fulton	Ş	209,313
2019	06a-36		Subproject 06a-37: RNA-Interference Screens for Zebra Mussel Biocontrol Target Genes	U of MN - MAISRC	Daryl Gohl	Ş	255,979
2019	06a-37		Subproject 06a-37: Improving the Efficiency of Watercraft Inspections through Coordination and Cooperation	U of MN - MAISRC	Amy Kinsley	\$	198,241
2019	06a-38		Subproject 06a-38: Evaluating Native Phragmites as a Wastewater Treatment Alternative	U of MN - MAISRC	Daniel Larkin	Ş	355,122
2019	06a-39		Subproject 06a-39: Increasing Effectiveness of Bigheaded Carp Deterrents by Carbon Dioxide Integration	U of MN - MAISRC	Allen Mensinger	\$	340,327
2019	06a-40		Subproject 06a-40: Enhancing Habitat and Diversity in Cattail-Dominated Shorelines	U of MN - MAISRC	Amy Schrank	Ş	338,066
2019	03d	n/a	Minnesota Trumpeter Swan Migration Ecology and Conservation	U of MN	David Andersen	\$	300,000
2019	03e	n/a	Spruce Grouse as Indicators for Boreal Forest Connectivity	U of MN - Raptor Center	Julia Ponder	\$	350,000
2019	03f	n/a	Understanding Brainworm Transmission to Find Solutions for Minnesota Moose Decline	U of MN	Tiffany Wolf	\$	400,000
2019	031	n/a	Mapping Aquatic Habitats for Moose	U of MN	Joseph Bump	\$	199,000
2019	04a	n/a	Determining Influence of Insecticides on Algal Blooms	U of MN	William Arnold	\$	350,000
2019	04e	n/a	Improving Nitrogen Removal in Greater Minnesota Wastewater Treatment Ponds	U of MN	Paige Novak	\$	325,000
2019	04f	n/a	Improving Drinking Water for Minnesotans through Pollution Prevention	U of MN	Raymond Hozalski	\$	345,000

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2019	04g	n/a Protecting Minnesota Waters by Removing Contaminants from Wastewater	U of MN	Matt Simcik	\$ 250,000	
2019	04h	n/a	Reducing Municipal Wastewater Mercury Pollution to Lake Superior	Minnesota Pollution Control Agency	Scott Kyser	\$ 250,000
2019	04j	n/a	Transformation of Plastic Waste into Valued Resource	U of MN	Brett Barney	\$ 225,000
2019	041	n/a	Farm-Ready Cover Crops for Protecting Water Quality	Central Lakes College - Ag and Energy Ctr	Keith Olander	\$ 741,000
2019	06a	n/a	Building Knowledge and Capacity to Solve AIS Problems	U of MN - MAISRC	Nicholas Phelps	\$ 4,000,000
2018	06a-01		Subproject 06a-01: Early Detection of Invasive Tree Pathogens Using Molecular Tools for Prevention and to Mitigate Damage	U of MN - MITPPC	Robert Blanchette	\$ 383,865
2018	06a-02		Subproject 06a-02: Accurate Detection of Oak Wilt Disease at Landscape Scales for Enhanced Forest Management	U of MN - MITPPC	Jeannine Cavendar- Bares	\$ 301,941
2018	06a-03		Subproject 06a-03: Early Detection of Invasive Tree Pathogens Using Molecular Tools for Prevention and to Mitigate Damage	U of MN - MITPPC	Benjamin Held	\$ 233,924
2018	06a-04		Subproject 06a-04: Detection and Monitoring of Invasive Phragmites	U of MN - MITPPC	Joe Knight	\$ 203,781
2018	06a-05		Subproject 06a-05: Improve Invasive Plant Treatment Efficacy Using Climate Based Phenology Models	U of MN - MITPPC	Rebecca Montgomery	\$ 346,211
2018	06a-06		Subproject 06a-06: Biology and Biocontrol Potential of a Rust Fungus Infecting Phalaris Arundinacea and Frangula Alnus	U of MN - MITPPC	Pablo Olivera Firpo	\$ 247,507
2018	06a-07		Subproject 06a-07: Managing Buckthorn with Trees: Diversity, Density, and Practicality	U of MN - MITPPC	Peter Reich	\$ 499,734

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2018	06a-08		Subproject 06a-08: Integrated Emerald Ash Borer Management: Testing a Novel Approach to Assess Stakeholder Perceptions	U of MN - MITPPC	Ingrid Schneider	\$ 436,072
2018	06a-09		Subproject 06a-09: Distribution, Risks, and Management of Phyllachora Maydis, the Causal Agent of Corn Tar Spot	U of MN - MITPPC	Dean Malvick	\$ 176,618
2018	06a-10		Subproject 06a-10: Detecting Hybrid Barberry and Investigating its Role in Rust Epidemiology	U of MN - MITPPC	Pablo Olivera Firpo	\$ 206,783
2018	06a-11		Subproject 06a-11: Confronting Soybean Aphid with Advanced Plant Breeding and Remote Sensing	U of MN - MITPPC	Robert Koch	\$ 292,492
2018	06a-12		Subproject 06a-12: Expanding and Strengthening the Prioritization of Terrestrial Invasive Species in Minnesota	U of MN - MITPPC	Amy Morey	\$ 151,601
2019	07c	n/a	Sustainable Solar Energy from Agricultural Plant By- Products	U of MN - Morris	Ted Pappenfus	\$ 185,000
2019	08a	n/a	Saving Endangered Pollinators through Data-Driven Prairie Restoration	Minnesota Zoo	Erik Runquist	\$ 800,000
2019	08d	n/a	Conserving and Monitoring of Minnesota's Rare Arctic Plants	U of MN - Duluth	Briana Gross	\$ 135,000
2020	03h	2020-003	Bee Minnesota – Protect Our Native Bumblebees	U of MN, College of Veterinary Medicine	Declan Schroeder	\$ 650,000
2020	03k	2020-027	Freshwater Sponges And AIS: Engaging Citizen Scientists	U of MN, Crookston	Venugopal Mukku	\$ 400,000
2020	031	2020-016	Do Beavers Buffer Against Droughts And Floods?	National Park Service, Voyageurs National Park	Steve Windels	\$ 168,000
2020	030	2020-007	Conserving Black Terns And Forster's Terns In Minnesota	U of MN, Duluth - NRRI	Annie Bracey	\$ 198,000
2020	04a	2020-037	Managing Highly Saline Waste From Municipal Water Treatment	U of MN, College of Science and Engineering	Natasha Wright	\$ 250,000

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2020	04d	2020-013	Developing Strategies To Manage PFAS In Land-Applied Biosolids	Minnesota Pollution Control Agency	Summer Streets	\$ 1,404,000
2020	04e	2020-055	Quantifying New Urban Precipitation and Water Reality	U of MN, College of Science and Engineering	Joe Magner	\$ 500,000
2020	04f	2020-034	Innovative Solution for Protecting Minnesota from PFAS Contamination	Dem-Con	Bill Keegan	\$ 250,000
2020	06f	2020-063	Testing Effectiveness of Aquatic Invasive Species Removal Methods	U of MN, Duluth - NRRI	Valerie Brady	\$ 110,000
2020	06g	2020-035	Invasive Didymosphenia Threatens North Shore Streams	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$ 197,000
2020	07a	2020-073	Storing Renewable Energy In Flow-Battery For Grid Use	U of MN, Morris	Bryan Herrmann	\$ 250,000
2020	07b	2020-018	Eco-Friendly Plastics From Cloquet Pulp-Mill Lignin	U of MN, College of Food, Agricultural and Natural Resource Sciences	William Tai Yin Tze	\$ 193,000
2020	08c	2020-077	Lignin-Coated Fertilizers for Phosphate Control	U of MN, Duluth - NRRI	Eric Singsaas	\$ 250,000
2020	08i	2020-052	Prescribed Burning For Brushland-dependent Species- Phase II	U of MN, College of Food, Agricultural and Natural Resource Sciences	Rebecca Montgomery	\$ 147,000
2020	20a1	2020-070	Unprecedented Change Threatens Minnesota's Pristine Lakes	Science Museum of Minnesota, St. Croix Watershed Research Station	Mark Edlund	\$ 482,000
2021	03a	2021-032	What's Bugging Minnesota's Insect-Eating Birds?	U of MN, Duluth - NRRI	Alexis Grinde	\$ 199,000
2021	03k	2021-278	Exploring Minnesota's Wetlands: Our Resource for Future Medicine	U of MN, Crookston	Brian Dingmann	\$ 210,000

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2021	031	2021-289	A Biodiversity Checkup for Minnesota's Big Woods	U of MN, College of Food, Agricultural and Natural Resource Sciences	Lee Frelich	\$ 109,000
2021	03m	2021-321	Microbiome in Raptors: A New Tool for Conservation	U of MN, Raptor Center	Julia Ponder	\$ 129,000
2021	04b	2021-115	Novel Nutrient Recovery Process from Wastewater Treatment Plants	U of MN, College of Food, Agricultural and Natural Resource Sciences	Bo Hu	\$ 200,000
2021	04c	2021-121	Monitoring Emerging Viruses in Minnesota's Urban Water Cycles	U of MN, College of Biological Sciences	Sebastian Behrens	\$ 416,000
2021	04f	2021-358	Assessing Membrane Bioreactor Wastewater Treatment Efficacy	Minnesota State Colleges and Universities, St. Cloud State University	Heiko Schoenfuss	\$ 419,000
2021	04g	2021-364	Evaluating Coronavirus and Other Microbiological Contamination of Drinking Water Sources from Wastewater	U of MN, College of Science and Engineering	Timothy LaPara	\$ 594,000
2021	04j	2021-390	Antibiotic Resistance and Wastewater Treatment: Problems and Solutions	University of St. Thomas,	Justin Donato	\$ 432,000
2021	06a	2021-017	Starch Allocation Patterns of Invasive Starry Stonewort Harvested from Lake Koronis	Minnesota State Colleges and Universities, Minnesota State University Mankato	Ryan Wersal	\$ 101,000
2021	06d	2021-164	Biocontrol of Invasive Species in Bee Lawns and Parklands [®]	U of MN, College of Food, Agricultural and Natural Resource Sciences	Vera Krischik	\$ 425,000
2021	06f	2021-217	Evaluating Minnesotas Last Best Chance to Stop Carp	U of MN, College of Food, Agricultural and Natural Resource Sciences	Peter Sorensen	\$ 424,000
2021	07a	2021-010	Enhanced Thermo-Active Foundations for Space Heating in Minnesota	U of MN, Duluth	Alison Hoxie	\$ 312,000

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2021	07c	2021-191	Agrivoltaics to Improve the Environment and Farm Resiliency	U of MN, WCROC	Bradley Heins	\$ 646,000
2021	07d	2021-294	Behavioral Response of Bald Eagles to Acoustic Stimuli	U of MN, St. Anthony Falls Laboratory	Christopher Feist	\$ 261,000
2021	08i	2021-212	Reducing Plastic Pollution with Biodegradable Erosion Control Products	Agricultural Utilization Research Institute	Matthew Leiphon	\$ 200,000
2021	08n	2021-308	Creating Cost-Effective Forage and Management Actions for Pollinators	U of MN, College of Food, Agricultural and Natural Resource Sciences	Daniel Cariveau	\$ 198,000
2022	08f	2022-188	PFAS Fungal-Wood Chip Filtering System	U of MN, College of Food, Agricultural and Natural Resource Sciences	Jiwei Zhang	\$ 189,000