NFWF 2019 Chesapeake Bay Stewardship Fund -- Proposals submitted supporting agricultural load reduction

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65053	INSR	Alliance for the Shenandoah Valley	Shenandoah Valley Conservation Collaborative	The Shenandoah Valley Conservation Collaborative will strengthen and expand its partnership to accelerate the pace and scale of agricultural best management practice implementation and land conservation in a region critical to the success of Chesapeake Bay Restoration. Partners include a new regional backbone organization, three land trusts, a watershed organization, and a county government agency. With support from NFWF, the SVCC will expand to include regional and national water groups, an additional county agency, the Valley's three Soil and Water Conservation Districts (Districts) and Natural Resources Conservation Service (NRCS). The place-based partnership leverages the diverse skills, relationships and technical expertise of its members to deliver near-term reductions in nutrients and sediment on shared priority lands while building the long-term infrastructure needed to address complex water quality issues.	SVCC partners focus on shared conservation areas in six counties in Virginia's Shenandoah Valley. Four of the state's five top agricultural counties are here—where three Districts are expected to deliver more than 20% of the nutrient reductions needed to achieve 2025 Bay goals.	VA	$ 996,620	Forthcoming
65295	INSR	The Pennsylvania State University	The Chiques-Conoy-Conewago Regional Partnership: Integrating the Cloud, Muddy Boots and the Business of Farming to Get Farmers to Yes	Building upon existing partnerships with a strong track record of collaboration and success, this proposal will take these partnerships to the next level to accelerate conservation implementation on farms in a high priority region of Lancaster, Lebanon and Dauphin Counties, PA. The proposal will bring science-based tools to farmers to help with precision conservation, aid in nutrient and soil health management, and integrate conservation into business decisions. It will add boots on the ground through a new frontline outreach team of six partners. This team will use an improved Lancaster Clean Water Partners watershed mapping tool to set priorities and work in a collaborative and coordinated fashion to visit farmers. Outreach staff will hand off interested farmers to an enhanced team of private and public sector technical assistance providers and funding from multiple sources to provide resources needed to accelerate conservation through holistic implementation of PA's Phase 3 WIP.	Chiques, Conoy and Conewago Watersheds (including the small Susquehanna River tributaries that drain directly to the river in this geography), which includes western Lancaster County and southern Dauphin and Lebanon Counties, Pennsylvania.	PA	$ 1,000,000	Forthcoming
65379	INSR	Virginia Polytechnic Institute and State University	BUILDING SOIL HEALTH IN VIRGINIA	Based on the NFWF RFP and this Virginia draft strategy, our grant proposal is based on the three Pillars: 1) Coalition building and Collaboration: significantly increase the coordination and collaboration between existing and new partners; formalize the structure and management; regularly convene interested groups in educational and strategic discussions; advance a shared vision and strategies at regional, state and local levels. 2) Soil Health Implementation through Education, Demonstration and Peer-to-peer mentoring: secure technical and financial assistance to support growing farmer interest, and 3) Leveraging Market Opportunities and Economic Drivers: explore market incentives including market recognition of soil health friendly farms.	Project partners will cover the entire 60% of Virginia which is in the Chesapeake Bay. While all 10 SWCDs will be included, in line with the Phase III WIP, and NFWF maps, there are two focus areas: a) Shenandoah Valley, b) Virginia's Eastern Shore.	VA	$ 1,000,000	Forthcoming
65401	INSR	Tioga County Soil and Water Conservation District of New York	USC Phase III Ag Sector Implementation Support	This proposal will focus on agricultural sector implementation for the NYS WIP. During the planning phases of the WIP, NYSDEC and the USC recognized the importance of several key agricultural practices and determined that securing funding for these practices along with technical capacity will be key for NY's success.	Upper Sussquehanna Watershed, including all USC counties	PA; NY	$ 1,000,000	Forthcoming
65417	INSR	Stroud Water Research Center	Support for a Coalition on Soil Health in Pennsylvania	This proposal will support the collaboration of more than a dozen PA groups with extensive experience and accomplishments in advancing soil health. Important outcomes will include: 1) increased coordination/collaboration, 2) generating and sharing critical information (revised N application recommendations, field trials confirming their appropriateness, data on infiltration rates, soil health benchmarking, increasing REAP sponsorship use), and 3) accelerating the implementation of soil health practices (cover crops, fertility management, no-till and rotational grazing). Expanding agricultural producers' adoption of soil health practices is a central strategy in the final draft of Pennsylvania's Phase III WIP, and is one of four priority initiatives for agriculture. Soil health initiatives are proposed to provide 14% of the Commonwealth's reductions of both nitrogen and phosphorus by 2025. The project area is PA's Chesapeake Bay watershed.	The project area is PA's Chesapeake Bay watershed. A high percentage of PA's ag land occurs in southcentral PA where delivered loads to the Bay are highest. As such, the inherent alignment of ag density, NFWF priority areas and the areas of greatest work under this project all align.	PA	$ 999,318	Forthcoming
65598	INSR	Friends of the Rappahannock	Rappahannock Roundtable WIP Implementation	This proposal will capitalize on the regional partnerships developed across the Rappahannock River Basin to accelerate the implementation of priority best management practices outlined in the draft Phase III WIP. These will include: livestock exclusion fencing, riparian buffers, upland tree plantings, urban forest/tree canopy, urban nutrient management plans, and living shorelines. We will also work with several partners to leverage green infrastructure and stream restoration projects. We estimate ten miles of livestock fencing, 300+ acres of trees planted on ag lands, 30+ acres of urban forest/tree canopy, 300+ acres of urban nutrient management plans, 15+ living shoreline projects, an extended detention facility, and 1500 linear feet of stream restoration completed. All of these projects are listed in the WIP III and have support from multiple partners.	This project will take place in the 18 counties of the Rappahannock River Basin. Albemarle, Greene, Madison, Orange, Rappahannock, Culpeper, Fauquier, Stafford, City of Fredericksburg, Spotsylvania, Caroline, Essex, Middlesex, Lancaster, Northumberland, Richmond, Westmoreland, King George Counties.	VA	$ 810,100	Forthcoming
65682	INSR	Culpeper Soil and Water Conservation District	Reaching Higher Ground ; Comprehensive, Transferable Strategies for Addressing the Challenges of the Chesapeake Bay Watershed TMDL Implementation Plan III	Reaching Higher Ground proposes to accelerate the current rate of implementation of multi-sector, on the ground water quality improvements across the five counties of the Upper Rappahannock Watershed by; increasing agricultural project reimbursement rates to one-hundred percent (to date the most effective tool by far to radically increase program signup), while at the same time employing a professional outreach / marketing coordinator from within the agricultural industry to further develop the existing conservation district / agriculture industry outreach partnership; continuing to aggressively implement residential septic cost share program conservation practices and further development of long term strategies for funding; expanding outreach and marketing of the Virginia Conservation Assistance Program. All efforts will be to support historical levels of funding currently available across all sectors in the five county focus area and to explore future needs for financial support.	Reaching Higher Ground will cover the entirety of the five counties; Rappahannock, Culpeper, Madison, Orange and Greene. This includes the majority of the Upper Raappahannock River Basin and smaller portions of the Upper York and Midddle James River Basins. All areas are WIP III target areas.	VA	$ 752,750	Forthcoming

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65714	INSR	Chesapeake Conservancy	Accelerating water quality improvements through collective data driven decision making in Central Pennsylvania.	We will leverage existing partnership efforts started in 2016 to accelerate water quality improvements in Central PA using a data driven decision making process. The Partnership will provide essential backbone and collaboration expertise to enhance capacity and increase funding to implement more restoration projects by connecting private capital investments and incentive strategies to existing programming. This includes projects to boost long-term success rates,increase coordinated landowner recruitment to build a pipeline, and implement 5 projects that support the shared goals to achieve better water quality outcomes. With state agency and private investor support, we will lay the foundation for a fund to link carbon and water quality credits to fund the Partnership's portfolio of high-impact projects. These projects have been identified leveraging high-resolution data and have attracted investor interest given their ability to generate high environmental return on investment.	Huntingdon, Centre, Clinton, and Lycoming Counties	PA	$ 991,874	Forthcoming
65872	INSR	Maryland Department of Agriculture	Developing Maryland's Soil Health Program to promote the co-benefits of water quality and climate resiliency	The project assists Maryland Department of Agriculture (MDA) in developing a Healthy Soils program to achieve increased adoption of practices that mutually achieve soil health, water quality, and carbon sequestration benefits. Project objectives are 1) engage diverse partners to form a collaborative framework consistent with the 2017 Healthy Soils Act and advance toward a sustainable forum for soil health; 2) engage up to 10 producers directly to assess barriers to conservation adoption, and to cultivate these participants as soil health advocates; 3) collect baseline data from participating producers to inform numeric soil health metrics and to calibrate Maryland's Nutrient Trading Tool to predict carbon sequestration potential; and 4) prioritize producer outreach to engage 150 additional producers at demonstration events. Implementation goals align with the Maryland WIP and are estimated to reduce 172,000 lbs nitrogen, 3,200 lbs phosphorus, and 1,050 tons of sediment annually.	Project coverage is state-wide but will target heavily agricultural areas with increased opportunity for nitrogen reductions. Field locations will be determined based on the ten participating producers. Diverse regions, and size and type of operations will be included.	MD	$ 996,565	Forthcoming
65874	INSR	Delaware Department of Agriculture	4R Enhanced Nutrient Management and Soil Health Incentive Program	The Delaware Department of Agriculture's Nutrient Management Program is proposing a novel and revolutionary approach to incentivizing and verifying enhancements to the rate, timing, placement and source of nitrogen and phosphorus applications (4R enhancements). The project comprises three elements to promote the capture and reporting of practices while incentivizing new practice adoption from the menu of 4R enhancements identified in the most recent Nutrient Management Expert Panel Report: (1) University of Delaware studies efficacy of nitrogen modeling tools in replicated field trial, producing a summary report; (2) Private consultants contribute to a framework and then promote and report 4R enhancements for plans of up to 3 year duration, submit to verification audits, and collect new incentive cost-share; and (3) County Conservation Districts incentivize whole farm Conservation Planning with soil health testing.	This project will take place over the state of Delaware's Chesapeake Bay drainage agricultural lands, targeted with outreach and technical assistance for Nanticoke and Chester basins. Farms in the Choptank basin will also be eligible for participation.	DE	$ 995,000	Forthcoming
65097	SWG	Virginia Polytechnic Institute and State University	Treating Legacy Nutrients in Agricultural Landscapes: An Application of Bioreactors to Emergent Groundwate	Legacy nutrients discharged by springs in agricultural settings are a substantial source of nitrogen contributed to surface water in the Chesapeake Bay. However, there are few best management practices (BMPs) or incentives to treat these legacy nutrients. This project proposes to address these limitations by adapting bioreactors to treat spring-derived legacy nitrogen and evaluating the potential of incorporating these nitrogen reductions into nutrient trading schemes. Bioreactors have proven effective in removing substantial quantities of nitrogen (35-50%) from agricultural drainage and could therefore be adapted to treat spring nitrogen discharge. We will evaluate the life-cycle costs and nitrogen reduction benefits of adapting bioreactors to treat legacy nutrients based on installation and monitoring of six spring bioreactors. We also evaluate opportunities for water-quality managers and agricultural land managers to incorporate spring bioreactors into nutrient trading schemes.	this project will occur primarily in the Shenandoah Valley region of the Chesapeake Bay watershed.	VA	$ 192,540	$ 333,322
65219	SWG	Shorerivers, Inc.	Optimization of Organic No-Till within an Organic Dairy Operation	This project will trial and optimize innovative no-till practices with the objective of minimizing soil and nutrient runoff and improving soil health on organic farmland. ShoreRivers, in partnership with Fair Hill Farm, is pursuing the purchase and trial of a 12 row flamer that can do both broadcast and in-row flaming. The goal is to trial and monitor an innovative technique that will allow organic farmers to reduce reliance on tillage, resulting in less soil runoff, greater soil structure and health, and increased water uptake ability.	This project is located on an organic dairy farm in the Morgan Creek subwatershed of the Chester River watershed in Kent County, MD within the Chesapeake Bay Watershed.	MD	$ 185,218	$ 166,000
65391	SWG	West Lampeter Township	Groff Farm Floodplain Restoration - Phase II	The Groff Farm Floodplain Restoration aims to restore a 2,300 linear foot section of eroded streambank, as well as create approximately 4.4 acres of riparian habitat. This section of streambank is part of Big Spring Run in the priority listed Mill Creek Watershed. Reductions include 101,070 pounds of sediment, 168 pounds of nitrogen, and 153 pounds of phosphorus.	This project is located in West Lampeter Township in Lancaster, PA along the East Fork of Big Spring Run, a tributary of the Mill Creek.	PA	$ 200,000	$ 699,657
65402	SWG	Tioga County Soil and Water Conservation District of New York	Expanding Riparian Restoration by Targeting Partnerships and New Populations	This proposed project will result in the reduction of nitrogen, phosphorus, and sediment pollution to the Chesapeake Bay Estuary and the source water resources within its watershed. The Upper Susquehanna Coalition member SWCDs in collaboration with partners will accomplish the outcome of restoring functionality to waterways through water quality improvements and habitat restoration. This will be achieved through supporting partnerships and implementation of practices. Specifically, this funding will provide for outreach opportunities targeted at populations that have yet to be engaged with the USC Buffer Program. We will engage with partners to access these new populations and provide funding for pilot projects incorporating water quality improvements that may include riparian restoration, livestock exclusion, agricultural land retirement, green infrastructure and natural stream corridor restoration.	The project area is defined as the headwaters of the Chesapeake Bay upstream from the USGS gauging station in Towanda, PA. The project encompasses both NY and PA portions of the watershed. Within this basin subwatersheds targeted by the CB and Partners will be selected.	NY; PA	$ 200,000	$ 66,000

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65414	SWG	Shorerivers, Inc.	Maryland Conservation Drainage Program	The Maryland Conservation Drainage Program will help Maryland Department of Agriculture start the process of achieving the Watershed Implementation Plan Phase III goal of 18,456 acres treated by agricultural drainage management. It is anticipated 20 projects will treat approximately 400 acres. This grant request will support programmatic and project costs not currently covered by state funding and leverage state funds 1:1 to cover project costs. The grant funds will allow greater outreach to educate farmers and state and federal agricultural service providers on the benefits of conservation drainage. The focus area is the Eastern Shore of Maryland, but projects will be considered throughout the state.	This project is primarily targeted at the Eastern Shore of Maryland. The primary counties targeted are Caroline, Dorchester, Queen Anne's, Somerset, Talbot and Worcester. Projects will be scattered throughout the Eastern Shore and, if a suitable, the Western Shore.	MD	$ 197,914	$ 380,000
65455	SWG	Headwaters SWCD	Manure Utilization Technology Team	Sub-surface application of dairy slurry has not been adopted in Virginia due to equipment availability, cost, and speed of application. Manure Utilization Technology Team (M.U.T.T.) is a network of producers, custom applicators, local conservation employees and Nutrient Management planners. Attaining a commitment from the most widespread custom applicator in Virginia to insert an injector unit into his fleet will allow 1/5 of the 20,000 acres custom applied to be injected. This area ranges from Hanover County to Winchester, to Wytheville. Current Dairy economies discourage investment in technologies with environmental and economical benefit. It is our goal to provide farmers individual farm experience with the cost-benefit of utilizing their manure Nitrogen and reducing additional Nitrogen applications spread at environmentally sensitive seasons. Manure injection with minimum disturbance is another conservation tool for farms implementing no-till management.	Headwaters SWCD district is located in Augusta County, VA. Shen Valley Customs is based from Rockingham County, Virginia but covers dairy farms across Virginia.	VA	$ 199,876	$ 272,046
65476	SWG	Cocalico Creek Watershed Association	Cocalico Creek Watershed Agriculture Water Quality Improvement Project	The overall goal of this project is for the seven township governments (Penn, Elizabeth, Clay, West Cocalico, East Cocalico, Ephrata, and West Earl) of Lancaster County within Cocalico Creek Watershed to build collaborative relationships with its farmer community to improve water quality, soil health, and township stormwater management. Coupled with this goal is that participating farms will improve their environmental and economic performance.	Cocalico Creek Watershed townships within Lancaster County: Penn, Elizabeth, Clay, West Cocalico, East Cocalico, Ephrata, and West Earl.	PA	$ 199,350	$ 909,087
65695	SWG	Stroud Water Research Center	Converting Marginal Cropland to Forested Buffers	This project will build on Stroud's proven Farm Stewardship Program and adapt it for use by crop farmers to improve profitability and environmental performance. Objectives: (1) Convert near-stream marginal cropland to forested buffers; (2) Implement soil health BMPs and advanced nutrient management. (3) Accelerate forested buffer implementation while reducing costs and assuring buffer success; and (4) Pilot, refine and expand the approach. Employ 10 proven partners ready to deliver outcomes.	This pilot effort will target Chickies, Cocalico, Conewago, Upper Pequea and Octoraro Creeks in Lancaster County where existing partnerships will enable rapid results. These watersheds are high priority areas for NFWF, with high delivered loads to the Chesapeake Bay.	PA	$ 199,528	$ 700,000
65728	SWG	Alliance for the Chesapeake Bay, Inc.	Nestle Chesapeake Conservation Initiative	Nestle is the largest Dairy company in the world. In the Chesapeake Bay Watershed alone, almost 900 farmers provide milk and milk ingredients to Nestle. Inspired by the Turkey Hill Clean Water Partnership, Nestle would like to being the development of a program that would be scaled to the all farmers supplying the dairy. This project will pilot planning and implementation with farmers in the states of Virginia, Maryland and Pennsylvania and lay the ground work for building a watershed-wide conservation program to support the farmers that supply to Nestle.	This project will support two farmers in Lancaster County, PA, Frederick, MD and Augusta, VA for a total of six farmers. These regions have been selected as they are the heaviest dairy counties in the Chesapeake Bay Watershed.	MD; PA; VA	$ 200,000	$ 120,000
65734	SWG	Trout Unlimited Home Rivers Initiative	North Fork of the South Branch of the Potomac Phase II from Big Run to Judy Gap, WV: Brook trout patch expansion and re-connection	This project will focus on initiating and completing the second phase in a watershed scale restoration effort to restore, reconnect and meld two discrete brook trout stronghold patches in the North Fork of the South Branch of the Potomac River in West Virginia. TU and partners have worked to restore the uppermost reaches, or 30 square miles of this watershed in WV, and are now proposing to move into the next adjacent 50 square mile portion of the watershed, downstream. The project will build upon the previously restored segments to strengthen and expand brook trout populations and water quality improvements through riparian and in-stream restoration, aquatic organism passage barrier mitigation, and the installation of agricultural practices that meet the needs of the fish and the farms. Projects will be largely funded through USDA Farm Bill Programs where TU will take meaningful restoration projects from inception to completion, assisting landowners which each step of the process.	This project is located on the North Fork of the South Branch of the Potomac. This river is a tributary to the Chesapeake Bay.	WV	$ 194,418	$ 261,033
65756	SWG	Lancaster Farmland Trust	Conservation Planning in Paradise Township, Lancaster County, PA	As an approved National Fish and Wildlife Foundation Technical Assistance Provider, Lancaster Farmland Trust will collaborate with Paradise Township, Lancaster County, PA to accelerate the acquisition of conservation and manure management plans for its farms. Utilizing successful outreach strategies being implemented by LFT in a contiguous municipality, the project will drive Paradise Township toward 100% compliance; position farmers for the implementation of agricultural best management practices; and set the stage for large-scale nutrient and sediment reductions in the Pequea Creek Watershed.	All farms that are 10 or more acres in Paradise Township, Lancaster County, Pennsylvania - approximately 153.	PA	$ 34,335	$ -
65845	SWG	Nanticoke Watershed Alliance, Inc.	Enhancing Stormwater BMPs for Poultry Farms in the Nanticoke Watershed for Improved Water Quality	The Nanticoke Watershed Alliance (NWA) will help poultry growers develop alternatives to mowed grass on their property through the testing of several variation of buffer plantings for improved stormwater management. Working closely with representatives from Perdue and a Perdue poultry farmer, NWA will convert mowed grass areas located between chicken houses into a variety of vegetative buffer alternatives to capture and filter stormwater runoff and reduce the amount of pollutants reaching Deep Creek, a tributary to the Nanticoke Watershed. This project will serve as a demonstration to encourage other farmers to install similar plantings on their properties, helping to reduce nitrogen, phosphorus, and sediment pollution to the Chesapeake Bay and its tributary rivers and streams.	Georgetown, DE	DE	$ 38,629	$ 23,208
65881	SWG	Harford Soil Conservation District	Broad Creek Headwater Restoration	The Harford Soil Conservation District will implement nine best management practices in the Broad Creek watershed. The Broad Creek Headwater Restoration project will provide safe conveyance of runoff from the conservation practices or other flow concentrations, prevent or stabilize existing gully erosion or scour, and improve water quality.	This project will occur on two agricultural parcels in the towns of Street and Whiteford, in Harford County, Maryland.	MD	$ 132,274	$ 86,695

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65909	SWG	Community Ecology Institute	Community Ecology Institute: Growing Green Infrastructure on an Urban Farm	The Community Ecology Institute is creating and building a Community Ecology Center on a farm property within an urban area of Howard County, Maryland. The goal of this Center will be to educate the community and region in sustainable living, and we expect to engage thousands of people each year. We envision every aspect of the farm serving as a living example of sustainable practices. Stormwater is currently causing problems on the farm and several adjacent properties. In addition, two small streams onsite are severely eroding. We plan to use this as an opportunity to incorporate green stormwater design and stream restoration into our overall farm plan. We propose working with several partners to create green stormwater infrastructure plans and proactive outreach programs. Design plans will likely include dry bioswales, dry wells, conservation landscaping, rain gardens, and a stream stabilization plan that can be performed within the context of experiential learning opportunities.	The Community Ecology Center in Columbia, MD	MD	$ 50,000	$ 28,586
65925	SWG	RAUCH inc.	Mid-Atlantic Organic Resource Company Compost Facility Expansion (MD)	Expansion of an active poultry farm's composting facility receiving and processing of hatchery waste Completion of this project will create the ability of this facility to process 5,000 tons per year of manure (see attached nutrient analysis of manure and compost) which will reduce nitrogen by 117,000 lbs/year and phosphorus by 117,000 lbs/year.	Caroline County, MD	MD	$ 50,000	$ -
65931	SWG	Trout Unlimited, Inc.	Expanding Brook Trout Patch Size and Improving Water Quality in Coldwater Tributaries in the North River Watershed (VA)	TU will restore 1 mile of instream habitat, install 7,000 feet of exclusion fencing, and establish 19 acres of riparian buffer that will reduce nutrient and sediment pollution to spring fed streams in the Mossy Creek and Briery Branch subwatersheds of Upper North River to increase and expand brook trout patches and improve water quality.	Tributaries of the North River watershed in Rockingham and Augusta counties of Virginia. Conservation activities will take place on private lands that are primarily used for agriculture.	VA	$ 178,385	$ 122,200
65978	SWG	Center for Watershed Protection, Inc.	The Willet Family Farm and The Keep and Till: An Agri-faith partnership for sustainable food production and ecological responsibility	The Center for Watershed Protection, in partnership with the Willet Family Farm, The Keep and Till and Ecotone propose to kickstart implementation of a whole small-farm conservation system on the Willet Family Farm. The Willet Family and The Keep and Till are working to realize a fully sustainable small farm with diverse habitat, healthy soils, abundant crops, an atmosphere of caring for the earth and produce healthy, organic food to support local communities and the hungry. The project will meet these objectives for the Willet Farm by implementing livestock fencing, restoring soil health and productivity using activated biochar, developing a sustainable organic garden plot, restoring the stream and converting riparian areas to wetland. The proposed restoration supports Carroll County's Chesapeake Bay and local TMDL restoration plan goals, and benefits wildlife by creating and improving habitat. Long term maintenance of the project will be coordinated by The Keep and Till.	The project is located on the Willet Family Farm near Westminster, Carroll County, MD. The farm is located in the Lower Big Pipe Creek-Double Pipe Creek watershed (a NFWF priority subwatershed for water quality improvement and a NFWF Tier II Black Duck-Anas rubripes Priority Watershed).	MD	$ 200,000	$ 152,580