

# National Water Quality Initiative

## 2019 Progress Report

Farmers, ranchers, and forest landowners recognize water as our Nation's most precious resource. Every day, new producers are stepping up to work hand-in-hand with the Natural Resources Conservation Service (NRCS) to plan and apply practices that improve water quality and strengthen agricultural operations.

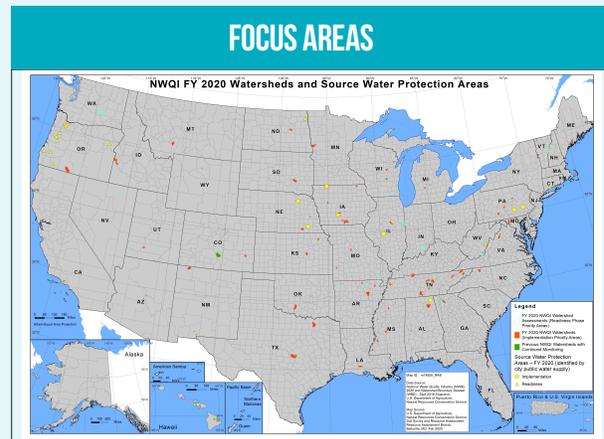
**The National Water Quality Initiative (NWQI)**, now in its eighth year, is a partnership among NRCS, state water quality agencies and the U.S. Environmental Protection Agency to improve and protect water quality through voluntary conservation. NRCS provides targeted funding for financial and technical assistance in small watersheds most in need and where farmers can use conservation practices to make a difference.

Conservation systems include practices that promote soil health, reduce erosion and lessen nutrient runoff, such as filter strips, cover crops, reduced tillage and manure management. These practices not only benefit natural resources but enhance agricultural productivity and profitability by improving soil health and optimizing the use of agricultural inputs.

State water quality agencies and other partners contribute additional resources for watershed planning, implementation and outreach. They also provide resources for monitoring efforts that help track water quality improvements over time.

Based on the success of the FY2017 pilot project, NRCS now has a "planning" phase to assist states with watershed-level assessment, on-farm planning, and outreach prior to receiving financial assistance for implementation. Technical assistance dollars can be used to support producer workshops, analyze water quality data, conduct GIS analyses, perform stream surveys, aid local coordinators and expand one-on-one planning and outreach with landowners.

In FY2019, NRCS expanded NWQI to include source water protection, initiating a pilot to



address source water protection for both surface and ground water sources. Fifteen pilot projects in 9 states worked to further assess delineated source water protection areas to identify and address potential threats from agricultural land uses.

### Outcomes and Impacts

As USDA's premiere water quality initiative, NWQI provides a way to accelerate voluntary, on-farm conservation investments and focused water quality monitoring and assessment resources where they can deliver the greatest benefits for clean water.

NWQI has led to a four-fold increase in the acres treated with water quality practices in targeted watersheds. Average annual funding for conservation and the number of producers assisted in these watersheds has roughly doubled.

Since 2012, NRCS has worked with more than 3,700 producers to adopt conservation practices on more than 960,000 acres in priority watersheds through NWQI.

As of FY2019, at least 13 impaired water bodies have been improved and subsequently scheduled for de-listing or otherwise removed from NWQI due to successful water quality improvements.

Water quality monitoring in a tributary stream in southern Iowa



Fiscal Year 2019 National Water Quality Initiative NRCS Financial Assistance (EQIP FA) for Active and Completed Contracts			
Region	Acres	NRCS Investment	Contracts
Central	42,937	\$7,064,354	177
Northeast	13,133	\$4,577,886	87
Southeast	27,551	\$7,688,405	202
West	49,469	\$6,007,346	64
<b>Total</b>	<b>133,090</b>	<b>\$25,337,991</b>	<b>530</b>

Data source: FPAC Economic Policy Analysis Division, December 2019.

**NRCS Goals**

NRCS developed edge-of-field pollutant reduction goals for NWQI to show progress in achieving water quality improvements in these small watersheds. Original goals were based on reductions achieved through FY2018, and were met or exceeded in FY18. Those milestones have now been expanded to include expected reductions by FY2023. NWQI aims to reduce sediment loss from cropland by 1.38 million tons, phosphorous loss by 3.3 million pounds and nitrogen loss by 16.8 million pounds. These reductions will help to address water quality impairments or concerns identified in each watershed and contribute towards restoring their beneficial use and ecological function. NWQI anticipates that conservation efforts will contribute to the de-listing of up to 15 stream segments from the U.S. Environmental Protection Agency list of impaired streams by 2023.

**Focus on Critical Source Areas**

Through watershed assessment, critical areas for treatment are identified using a variety of tools and approaches, and practice implementation within critical areas is being tracked at the project level. One tool that can help identify critical source areas is the CEAP Soil Vulnerability Index (SVI). It identifies soils most vulnerable to runoff loss of sediment and nutrients on cropland. Tracking conservation implementation on these vulnerable acres is one way to estimate progress towards meeting water quality objectives nationally. The NRCS Resource Inventory and Assessment Division provides annual reports on treatment on SVI acres for all NWQI watersheds (HUC12).

**High SVI Acres Treated Across NWQI Watersheds as a Percent of All Treated Acres (Since FY2005)**



**Overall Summary - FY2012-19**

Total NRCS Investment	\$191,436,863
Number of Contracts	4,407
Total Acres Contracted	960,970

**2023 Milestones:**

