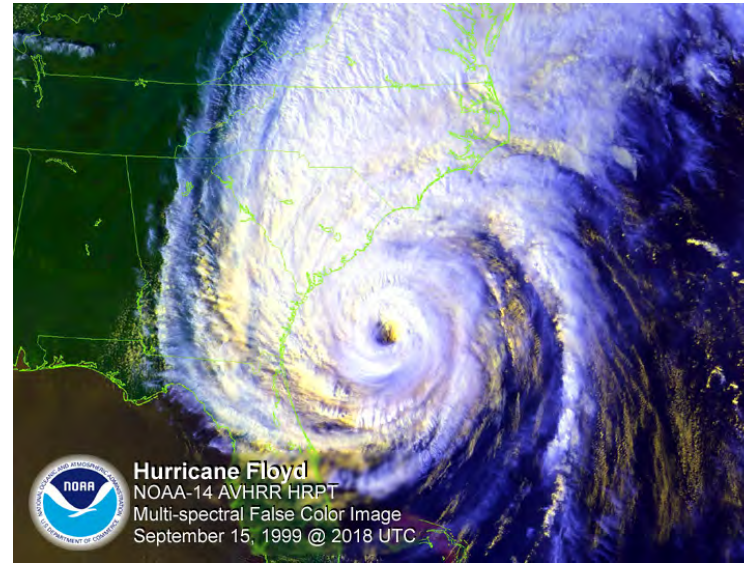
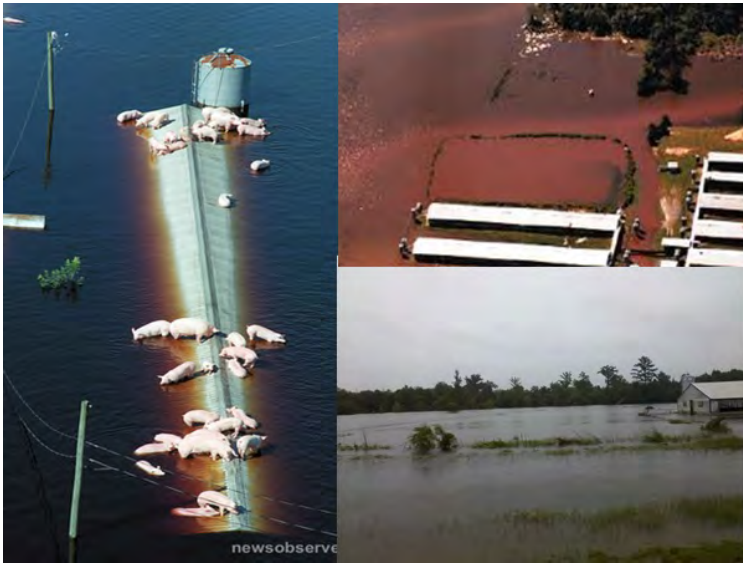




Conservation in the Face of Natural Disaster: North Carolina's Experience with EWP

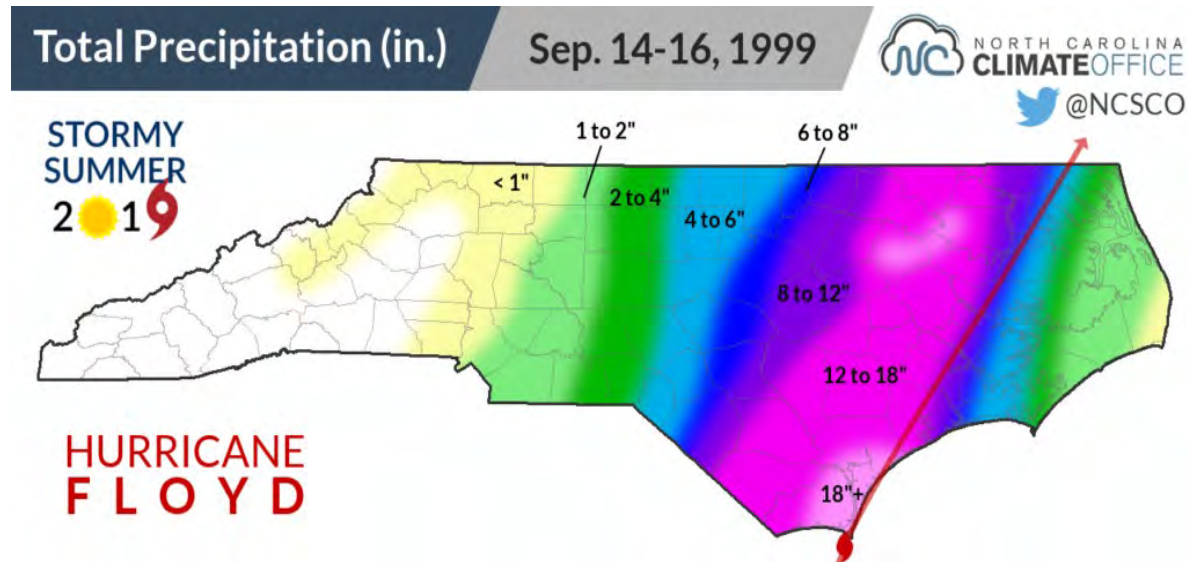
VERNON COX, DIRECTOR & NASCA PRESIDENT



Hurricane Floyd September 1999

\$8.5B Total Damages

EWPP - \$20M



T.S. Frances, Ivan, Jeanne Sept. 2004

\$250M Total Damages

EWPP - \$50M

Total Precipitation (in.)

Sep. 6-9, 2004



Total Precipitation (in.)

Sep. 16-18, 2004



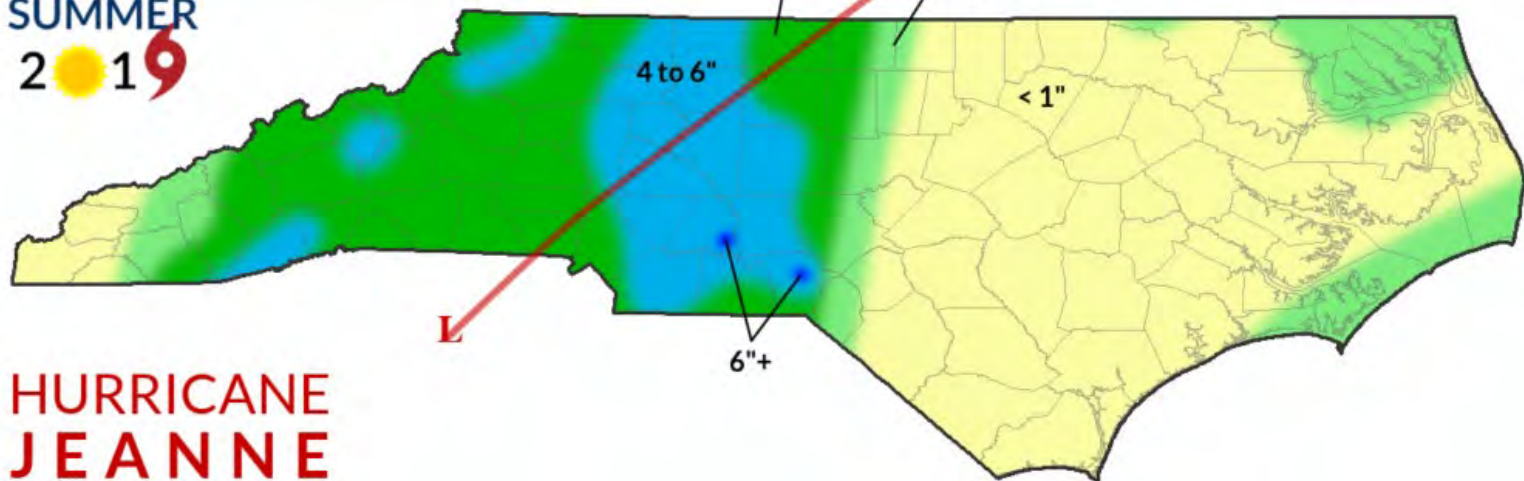
Total Precipitation (in.)

Sep. 27-29, 2004



@NCSCO

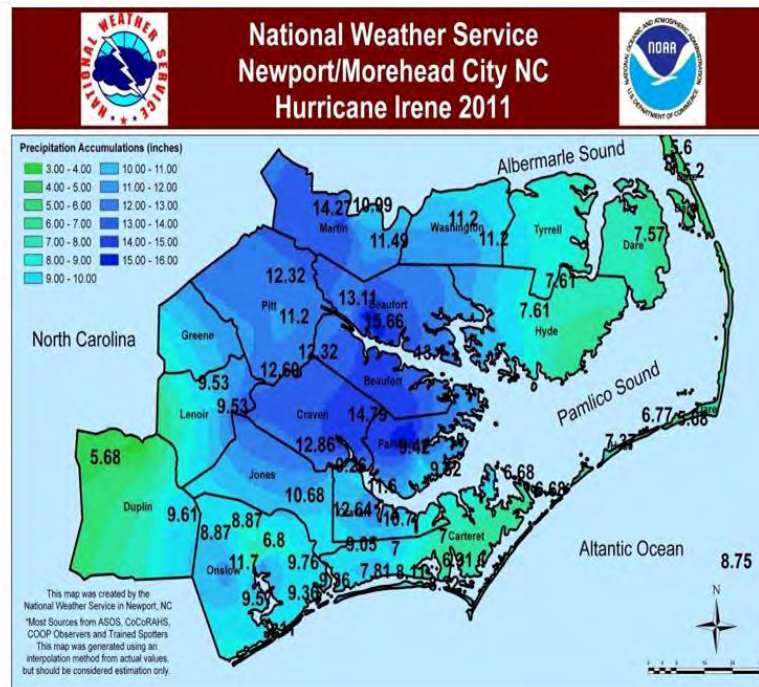
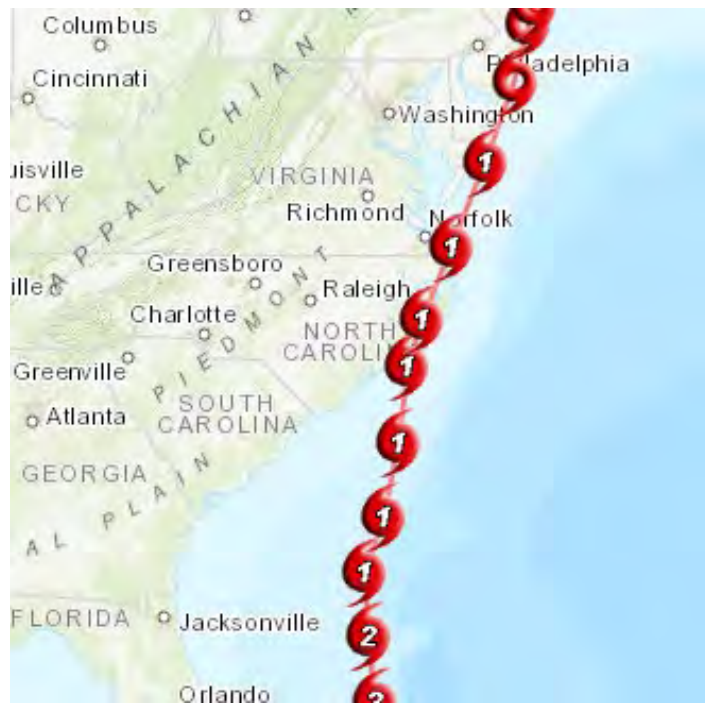
STORMY
SUMMER
2004



Hurricane Frances moved through western North Carolina between September 7 and 8, dropping 8 to 12 inches of rain on average. It was shortly followed by Hurricane Ivan (image below) between September 16 and 17, which released 6–10 inches of additional rain on average.



Hurricane Ivan on September 15, 2004, moving north towards the Alabama coastline.



Hurricane Irene August, 2011

\$1.26B Total Damages

EWPP - \$0.00M



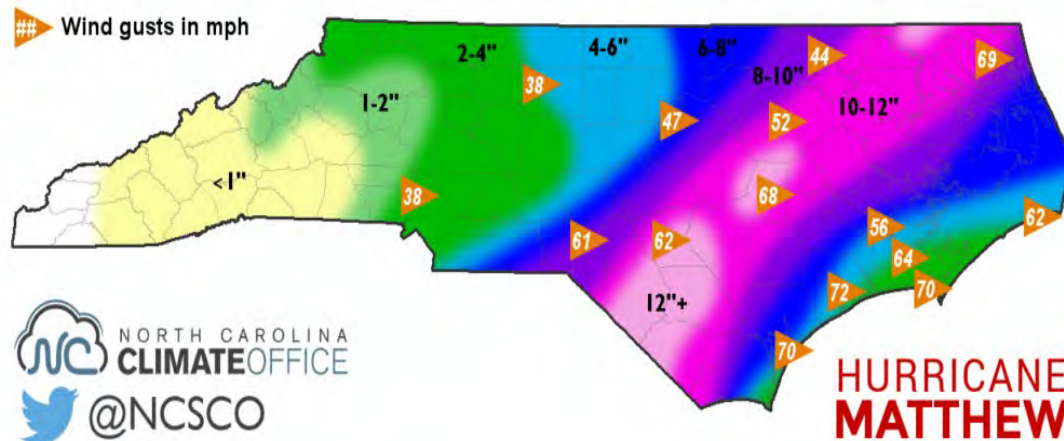


Hurricane Matthew October, 2016

\$4.8B Total Damages

EWPP - \$906K

Total Precipitation from October 7-9, 2016





Office of Communications

1400 Independence Ave, SW
Washington, DC 20250-1300
Voice (202) 720-4623
Email: oc.news@usda.gov
<http://www.usda.gov>

Press Release

¹ to USDA Office of Communications.

Contact:

USDA Office of Communications
press@oc.usda.gov
(202) 720-4623

USD

Protect Lives.

— Acting Deputy Agriculture Secretary Michael Young today ...

Agriculture (USDA) is investing up to \$103 million in fiscal year 2017 for disaster

to help state, local and tribal units of government protect lives and property in disaster-

as following natural disasters.

Local units of government, or sponsors, will use financial and technical assistance from the [Emergency Watershed Protection Program](#) (EWP Program) to carry out much-needed recovery projects to remedy damages caused by natural disasters such as floods and hurricanes. Nearly \$9 million will be used to fund disaster recovery projects, such as debris removal and streambank stabilization, in Florida, Georgia, North

Press Release

USDA Office of Communications.
Washington, DC 202501300
Voice (202) 720-4623
Email: oc.news@usda.gov
<http://www.usda.gov>

North Carolina – \$908,000 for projects to address impacts and damages from Hurricane Matthew including sediment removal and streambank stabilization and repair damages caused by Hurricane Matthew

Matthew including sediment removal and streambank stabilization and repair damages caused by Hurricane Matthew treatment plant in eastern North Carolina.

South Carolina – up to \$5.7 million for projects including debris removal in the counties of Beaufort, Dare, and Currituck; and Horse Range

USDA Office of Communications
Contact:
USDA Office of Communications
press@oc.usda.gov
(202) 720-4623

Protect Lives, -

Acting Deputy Agriculture Secretary Michael Young today announced that the U.S. Department of Agriculture (USDA) is investing up to \$103 million in fiscal year 2017 for disaster relief to help state, local and tribal units of government protect lives and property in disaster-stricken areas following natural disasters.

Local units of government, or sponsors, will use financial and technical assistance from the [Emergency Watershed Protection Program](#) (EWP Program) to carry out much-needed recovery projects to remedy



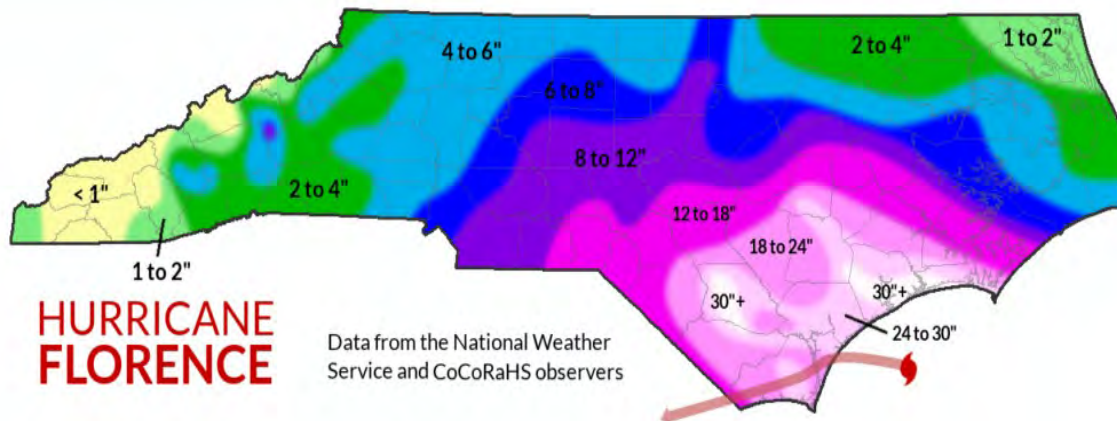
Hurricane Florence September 2018

Total Damages: \$17B

EWPP: \$27.5M

Total Precipitation (in.)

Sep. 13-17, 2018



Background – EWP Response in NC

- ◆ Hurricane Florence, September 2018
- ◆ NRCS detailed a few staff and contracted with an NGO to do FDR/DSRs
- ◆ ***February 2019 2-day field visit with NRCS Deputy Chief for Programs & NHQ Staff***
- ◆ DSR's not complete until late Summer 2019 (**10+ MONTHS vs. 60 days...**)
- ◆ ***February 2020 meeting with Chief Lohr @ Las Vegas (NACD)***



EWP Pilot Program Cooperative Agreement – August, 2020

- ◆ Train District & Division staff to assist with Damage Assessment
- ◆ Immediately begin to act following a natural disaster.
- ◆ Provide a funding mechanism (\$100k) for NRCS partners to provide supplemental manpower to complete EWP deliverables immediately following a natural disaster.
- ◆ Project to serve as a national pilot to engage partner employees to improve EWP responsiveness and delivery

Trained Partnership Staff

- ◆ 6 virtual sessions
 - ◆ Overview of EWP
 - ◆ Local sponsor and site eligibility
 - ◆ Completing Field Data Reports
 - ◆ Completing Damage Survey Reports
 - ◆ CPA-52 & Cultural Resource Assessment
- ◆ 6 Field sessions
 - ◆ Discuss scenarios (eligible vs. not eligible)
 - ◆ Estimating Costs
- ◆ 80 partner staff now fully trained and eligible to provide deliverables



Field Data Reports (FDRs)

- ◆ Preliminary Site Visits to prospective sites
- ◆ Screening sites for potential EWP eligibility
- ◆ NRCS to reimburse **\$160** per completed FDR, estimate 8 person-hrs each
- ◆ Report must be reviewed and approved by NRCS



Damage Survey Reports (DSRs)

- ◆ Develop a basic scope of work for restoration
- ◆ Estimate costs to complete restoration
- ◆ NRCS to reimburse **\$458** per completed DSR, estimate 20 person-hrs each
- ◆ Report must be reviewed and approved by NRCS
- ◆ Due within 60 days of event...

NRCS-PDM-20

DSR NO: 37-07-18-5038-249

Section 6 - Engineering Cost Estimate

This section must be completed for each alternative considered (attach additional sheets as necessary).

Proposed recovery measure (including mitigation)	Quantity	Units	Unit cost (\$)	Amount (\$)
Mobilization/Demobilization	1	LS	2000	2000
Debris removal	425	LF	10	4250
Clearing trees at road for access	.5	AC	4000	2000
Sediment removal and disposal off-site	10	CY	200	2000
Seeding & Mulch sediment removal area not clearing area	0.25	AC	1000	250
15% contingency				1575

U.S. Department of Agriculture
Natural Resources Conservation Service

NRCS-617A-82
202018

ENVIRONMENTAL EVALUATION WORKSHEET

D. Client's Objective(s) (purpose):
To determine federal and state regulatory compliance for proposed activities related to recovery from a natural disaster.

Travel Costs

- ◆ Contract includes funds to reimburse actual costs for overnight stays for partner employees to complete FDRs & DSRs.
- ◆ Travel must be pre-approved

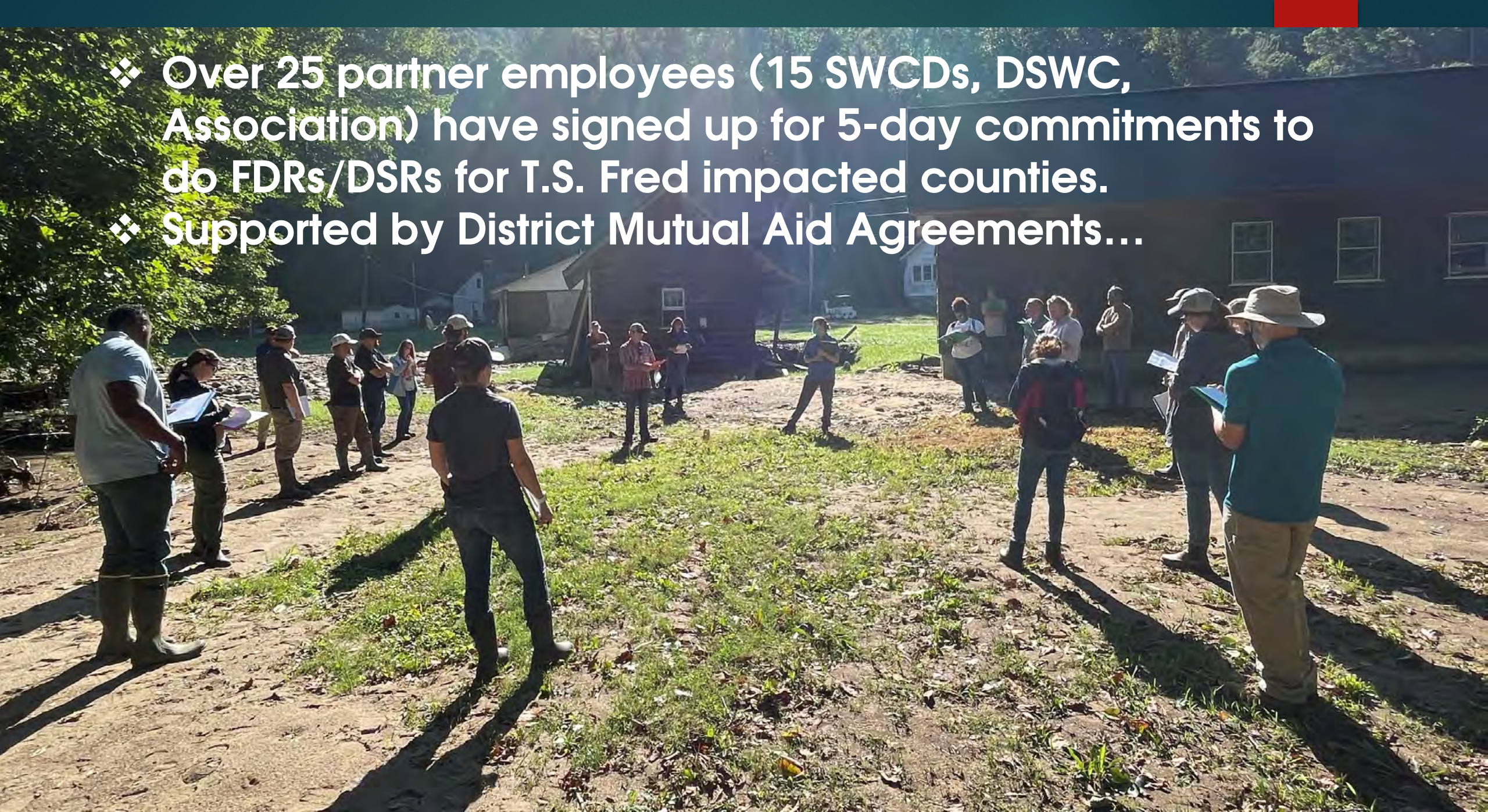


T.S. Fred

Stream & Farm Damages August 15-18, 2021

HAYWOOD, TRANSYLVANIA
AND BUNCOMBE COUNTIES

- ❖ Over 25 partner employees (15 SWCDs, DSWC, Association) have signed up for 5-day commitments to do FDRs/DSRs for T.S. Fred impacted counties.
- ❖ Supported by District Mutual Aid Agreements...







WHAT NEXT???

- ◆ Regular Funding?
- ◆ FEMA or EWP for **EMERGENCY** Stream Debris?
- ◆ Change Policy to allow EWP for prior work?



QUESTIONS?