

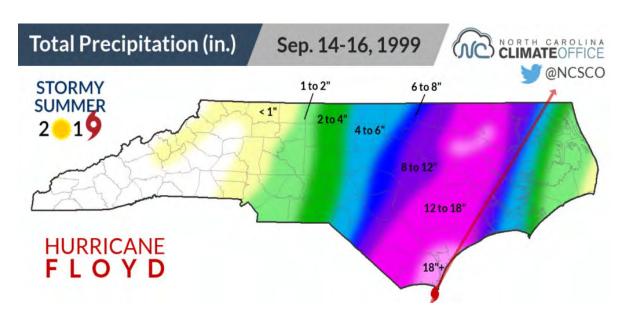


Conservation in the Face of Natural Disaster: North Carolina's Experience with EWP

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 T.S. Frances, Ivan, Jeanne Sept. 2004 Hurricane Frances moved throw North Carolina between September 16 Was shortly followed by Hurrican below) between September 16

Total Precipitation (in.)

Total Precipitation (in.) Sep. 16-1

Total Precipitation (in.)

Sep. 6-9, 2004

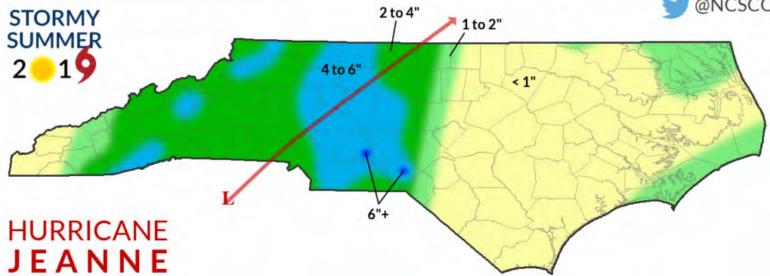
Sep. 16-18, 2004

Sep. 27-29, 2004

NORTH CAROLINA CLIMATEOFFICE





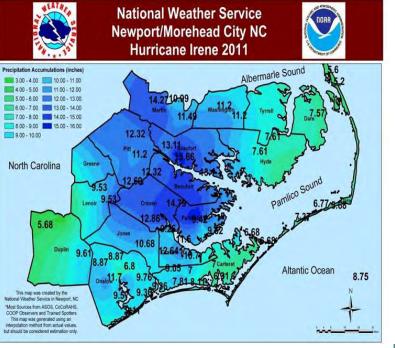


Hurricane Frances moved through western North Carolina between September 7 and 8, dropping 8 to 12 inches of rain on average. It was shortly followed by Hurricane Ivan (image below) between September 16 and 17, which released 6–10 inches of additional rain on average.



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







Hurricane Irene August, 2011

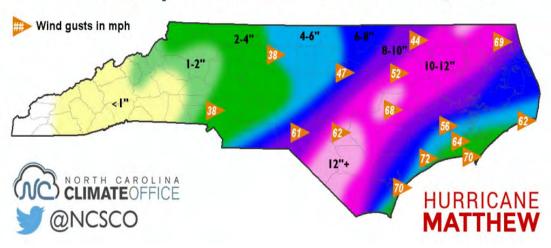
\$1.26B Total Damages

EWPP - \$0.00M





Total Precipitation from October 7-9, 2016



Hurricane Matthew October, 2016

\$4.8B Total Damages

EWPP - \$906K



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Office of Communications
1400 Independence Ave, SW
Washington, DC 20250-1300
Wock (202) 720-4623

Matthews, including Sediment removal and streamhank stabilization to press@oc.usda.gov

press@oc.usda.gov
(202) 720-4623

(202) 720-4623

(202) 720-4623 Matthew including sediment removal and streambank stabilization to protect roads and a waste water

South Carolina - up to \$5.7 million for pro-South Caronina removal in the countries of Dear Steet Lives, ...

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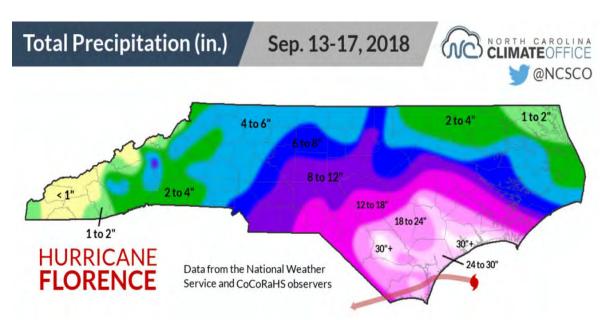
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Including debris removal in the countries of Dear Steet Lives of Dear Steet including debris removal in the countries of Beautiful Production of Contract of the Countries of Beautiful Production of Contract of the Countries of the Coun Culture (USDA) is investing up to \$103 million in fiscal year 2017 for disaster nelp state, local and tribal units of government protect lives and property in disaster-

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







Hurricane Florence September 2018

Total Damages: \$17B

EWPP: \$27.5M

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

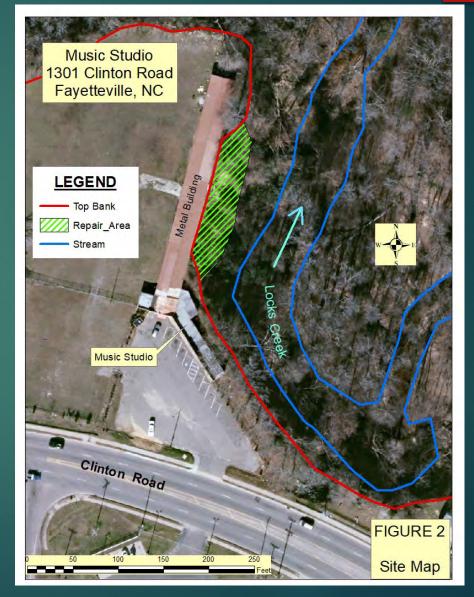
- 6 virtual sessions
 - ◆ Overview of EWP
 - Local sponsor and site eligibility
 - Completing Field Data Reports
 - ◆ Completing Damage Survey Reports
 - ◆ CPA-52 & Cultural Resource Assessment
- ♦ 6 Field sessions
 - Discuss scenarios (eligible vs. not eligible)
 - Estimating Costs
- 80 partner staff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

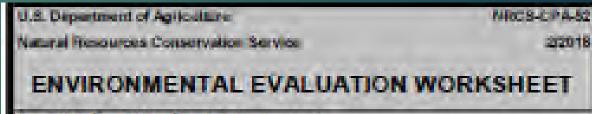
NRCS-PDM-20

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



D. Cilent's Objective(s) (purpose):

To determine federal and state regulatory compliance for proposed activities related to recovery from a natural disaster.

Travel Costs

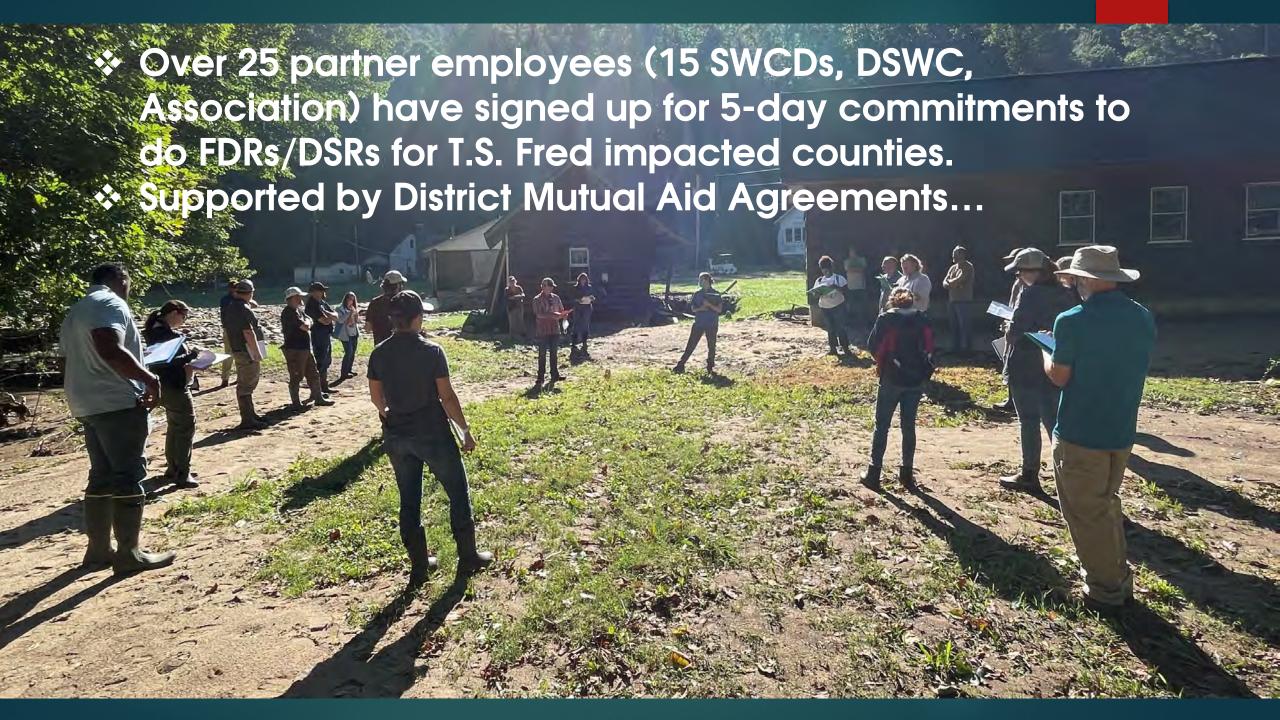
- Contract includes funds to reimburse actual costs for overnight stays for partner employees to complete FDRs & DSRs.
- Travel must be pre-approved



T.S. Fred

Stream & Farm Damages August 15-18, 2021

HAYWOOD, TRANSYLVANIA AND BUNCOMBE COUNTIES













WHAT NEXT???

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

QUESTIONS?