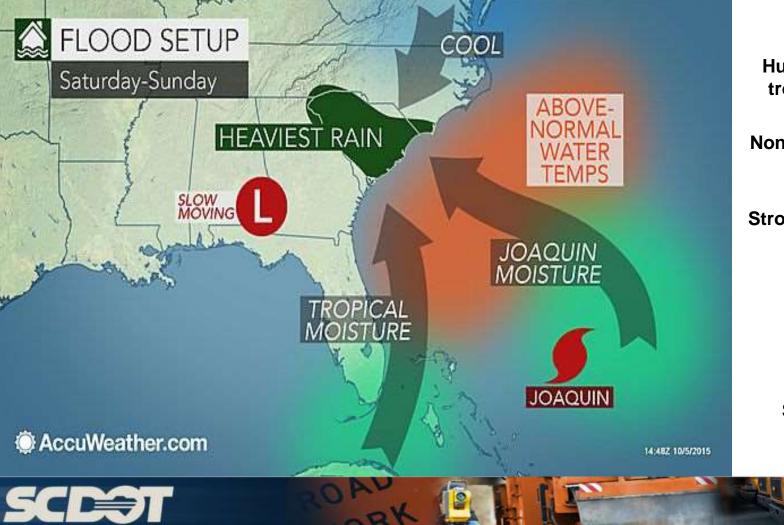


October 2015 Flooding Event





Hurricane Joaquin tropical moisture

.

Non-tropical storm in the South

.

Strong High Pressure to the North



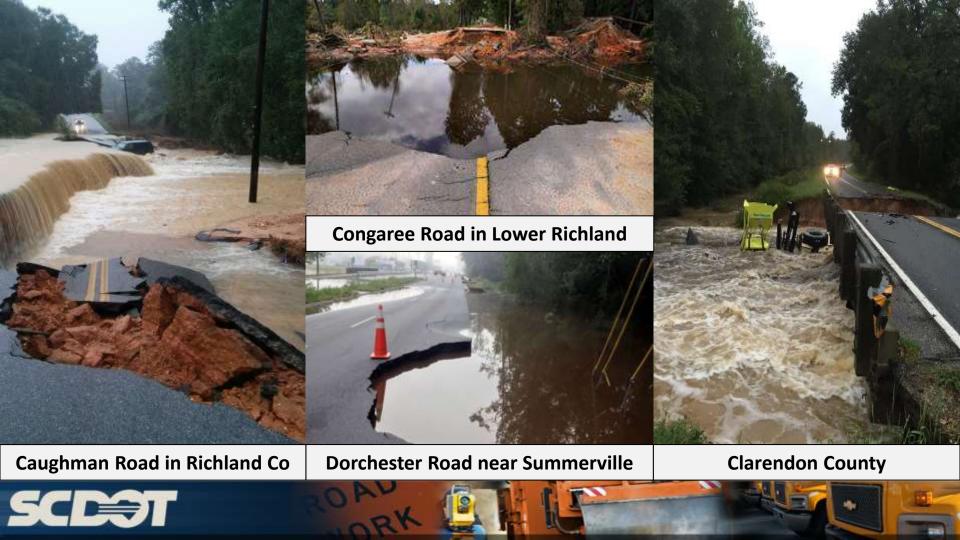
**Stalled System** 

## **Prep Activities**

- ✓ Clear drainage structures.
- ✓ Synch internal efforts.
- ✓ Coordinate externally.
- ✓ Pre-position and adjust.
- ✓ Analyze floodways.
- ✓ Activate pre-established contracts.

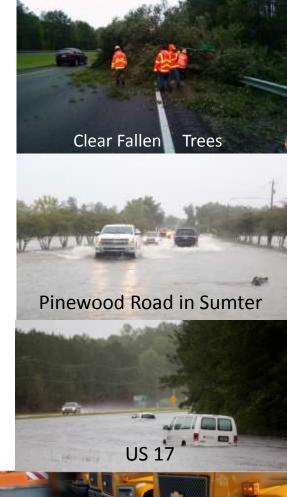




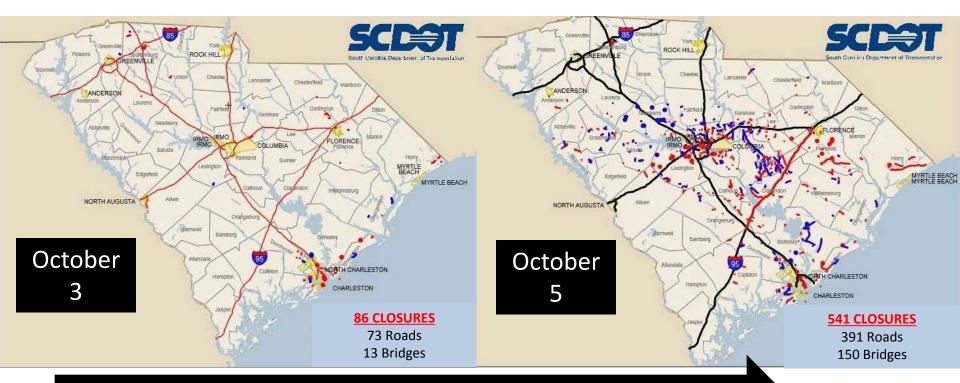


# <u>Response</u>

- Safety is top priority.
- Close roads and bridges as needed.
- Utilize entire maintenance force.
- Mobilize bridge inspectors & engineers.
- Coordinate.
- Assist Counties and Municipalities.
- Communicate often.







48 hours



## Recovery Plan

- Secure, Assess, Prioritize, Remove Debris & Restore.
- Develop a work plan and resource it.
- Effectively manage FHWA Emergency Relief and FEMA programs.

# **Key Strategies**

- Maximize utilization of internal workforce.
- Close coordination.
- Communicate frequently.
- Contain costs & maximize reimbursements.



### SCDOT will participate in 2 Federal Programs



FHWA Emergency Relief Program







## FHWA: Emergency Relief Program

- 100% reimbursement for temporary repairs on a portion of the Federal-Aid system for the first 180 days. Reverts to normal split after 180 days.
- Participation levels for permanent repairs follow normal split (80-20 or 90-10).





**Monticello Road Bridge End Repairs** 

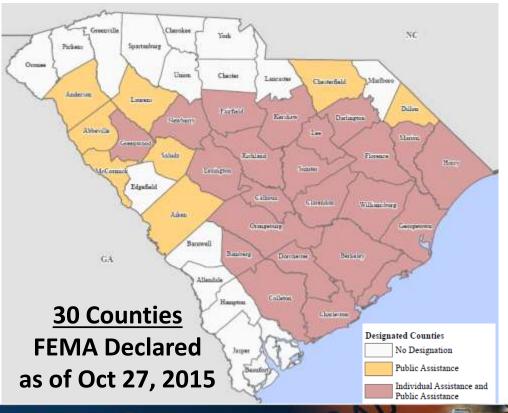


I-95 Bridge Foundation Repairs





## FEMA: Public Assistance Program



- Category A: Debris Removal
- Category B: Emergency Protective Measures (temporary repairs / stabilizing)
- Category C: Roads & Bridges (permanent repair/replacement)







### **FEMA Cat A: Debris Removal**

- All public rights of way are eligible.
- Storm generated debris only.
- Opted into pilot program.
  - 85% reimbursement for first 30 days.
  - 80% 31-90 days
  - 75% 91-180 days
  - >180 days not eligible
- Strict documentation & procurement requirements.



**BEFORE** 



AFTER





### FEMA Cat B: Emergency Protective Measures

- Temporary repairs to stabilize infrastructure.
- Must be able to demonstrate that work was required to mitigate threats to public safety.
- 75% reimbursement.
- Not applicable where FHWA Emergency Relief funds are eligible.





### FEMA Cat C: Roads & Bridges

- Permanent repairs for damage caused directly by the disaster.
  - Repair if possible.
  - Replace only if beyond repair.
- 75% reimbursement.

- Generally, it is not a betterment program.
- Not applicable where FHWA Emergency Relief funds are eligible.



**Shoulder and lane repairs** 

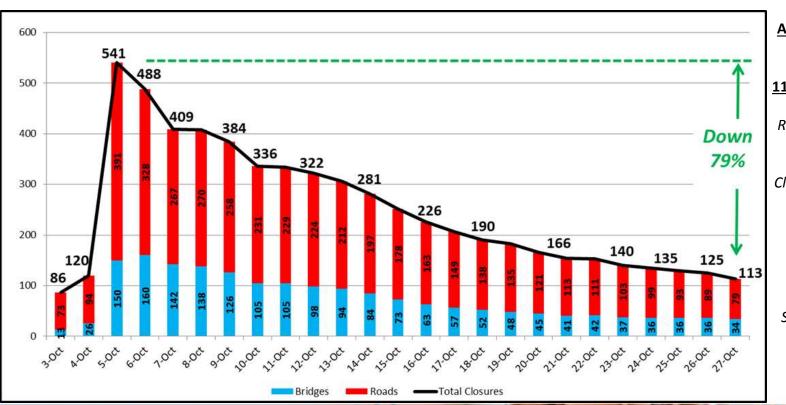




### **Current Status**



#### **Recovery Progress: Closure Status (as of Oct 27)**



All Interstates are OPEN.

#### 11 Primary Routes remain CLOSED:

Richland: US 21, US 321, SC 48 & SC 769.

Clarendon: US 15, US 301 & US 521 (partial).

Newberry: US 176.

Florence: SC 51.

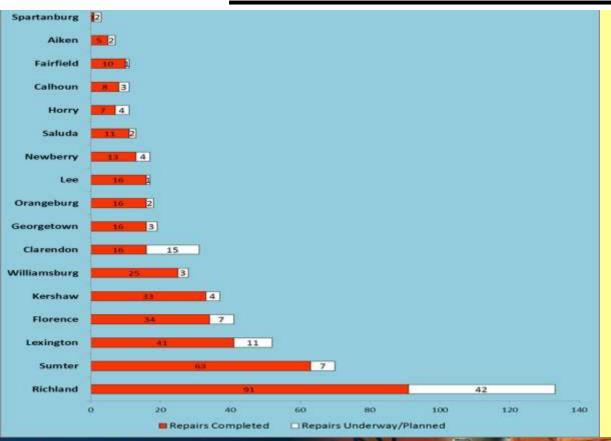
Sumter: US 76 Business (partial).

Williamsburg: SC 512.





#### **Current Status as of Oct 27**



### All repairs to the state system have been completed in 13 Counties:

**Abbeville** 

**Allendale** 

**Anderson** 

**Bamberg** 

Berkeley

Charleston

Colleton

Darlington

Dorchester

Greenwood

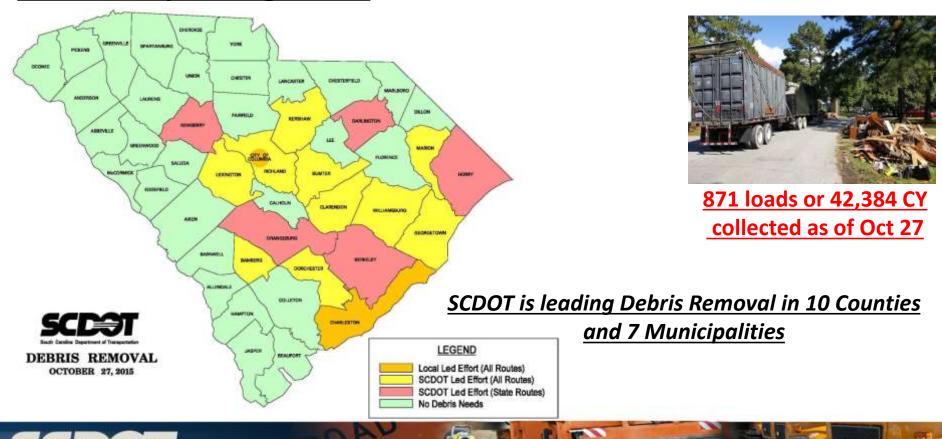
Laurens

Marion

and McCormick



#### **Recovery Progress:**



#### **Recovery: What's Next?**

- Continue Assessments.
- Review all bridges in the impacted floodways.
- Continue repairs with in-house and contract forces.
- Fast-track FEMA & FHWA ER bridge replacement projects.
- Continue debris removal operations.
- Formulate estimated event financial impact.
- Aggressively manage all funds to ensure all financial obligations are met.
- Strive to continue normal program activities.





#### In Memory of Timothy Wayne Gibson





SCDOT mourns the loss of Timothy Wayne Gibson, 45, who died in flood waters on Garners Ferry Road in Columbia on Sunday, October 4 while overseeing emergency work being done at that location.

Mr. Gibson represented hundreds of SCDOT workers who worked around the clock all around the state. He did not hesitate to put his life on the line to protect the public during the flood event and he is a true HERO.





Questions?

