Hurricane Helene Recovery

Summary of Preliminary Damage and Needs Assessment

Governor Roy Cooper

October 23, 2024 Kristin Walker, State Budget Director















Contents

Overview

Category Summaries & State Funding Recommendations

Cover photos: NCDOT, NCDPS, NC Governor's press office Photo credit: NCDOT – I-40 Helene brought record rainfall, flooding, and destruction to western North Carolina

30+ Inches of local rainfall



Landslides



96 North Carolina casualties

900K

Homes and businesses without power

39 FEMA disasterdeclared counties

Photo credit: CSU/CIRA & NOAA Source: USGS, NCDHHS, PowerOutage.us, NCSU

Helene survivors in western North Carolina will require a range of support

55% of population experiencing housing cost burden

500K+ people over 18 living with disabilities

people enrolled in Medicaid

of population is without health insurance

12%

18%

12%

1.4M

of population is below the poverty line

of population is above the age of 65

Photo credit: NCDOT – Hickory Grove | Source: OSBM, US Census Bureau

The nature of the damage and the affected region have created complexities in assessing Helene's full impact



Impaired access



Difficulty of communication



Disparate nature of communities

Helene's impacts are severe and long-lasting, and recovery is likely to be costly

Widespread home losses

- 158K households applying for federal assistance within two weeks of disaster declaration
- 92.5% of homes with FEMA-verified flood damage did not have flood insurance

Catastrophic disruption to lifeline infrastructure

- Electric infrastructure serving 2M households impacted
- Losses to 163 water and sewer systems and 400 hazardous waste facilities
- At least 6,000 miles of roads and 1,000+ bridges and culverts damaged

Recovery challenges

- Significantly higher construction costs since COVID-19, exacerbated by competition for labor and materials for disaster recovery across the Southeast
- Loss of income from truncated peak tourist season and multi-year damage to economic assets

We must resolve to rebuild stronger, safer and smarter

\$6 saved per \$1 invested In mitigation through the public sector

\$11 saved per **\$1** invested In adopting the latest building codes

\$4 saved per \$1 invested In surpassing design code minimums Leading recoveries – characterized in part by an ability to move capital quickly and flexibly – outperform peers by 13% in GDP growth in the 5 years after a disaster

Sourced from "Bounce Back Better: Four Keys to Disaster Resilience in U.S. Communities," Harvard Kennedy School Preliminary damage and needs estimates are \$53.6B, which will require significant investment

\$53.6B

Total estimated damage and needs

=

Other comparable estimates

Moody's Analytics \$38-\$58B

CoreLogic \$30.5-\$47.5B

\$41.1B

Estimated direct cost

\$7.6B

Estimated indirect cost

\$4.8B

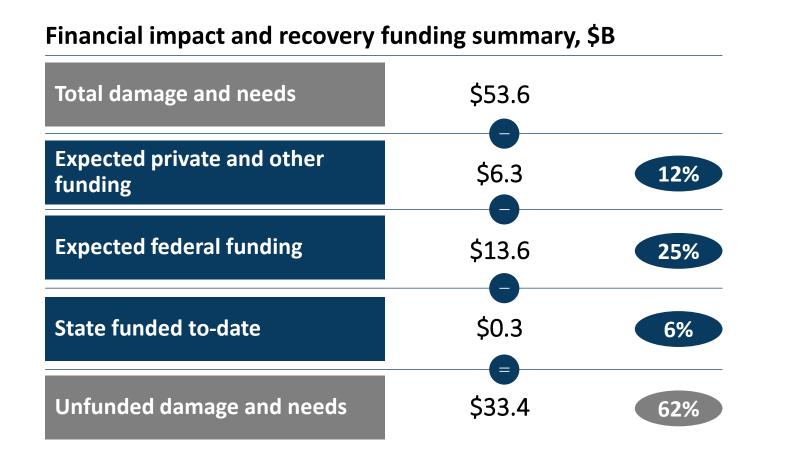
(+)

Strengthening and mitigation

Photo credit: NCDOT – Buncombe County Source: CoreLogic, Moody's Talks: Inside Economics "Consumer Prices & Catastrophic Hurricanes"

(+)

Significant federal and state investment will be required to address unmet needs in western North Carolina

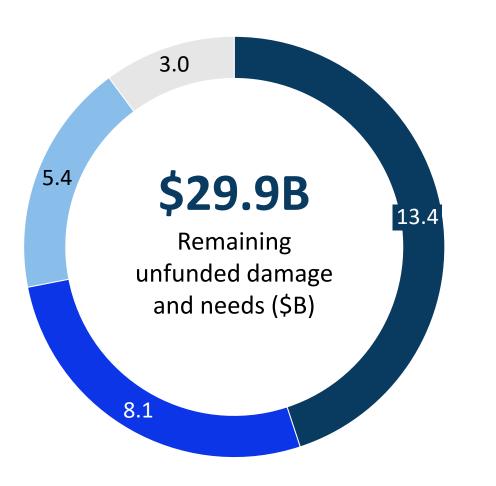


\$3.9B

Governor's funding recommendation

12%

Share of unfunded damage and needs covered by Governor's recommendation In particular, we anticipate major unfunded damage and needs in economic recovery, housing, and transportation



Economy

Western North Carolina is losing out on **peak tourist season**, and businesses will feel long-lasting effects of this storm. Additional investment is needed to prevent an economic spiral

Housing

Large-scale housing needs **will only be partially covered** by private insurance, FEMA IA, and CDBG-DR

Transportation

Costs are likely to be partially covered by federal DOT. But a **significant state match will be required, and additional funding will be needed** (e.g., for private roads)

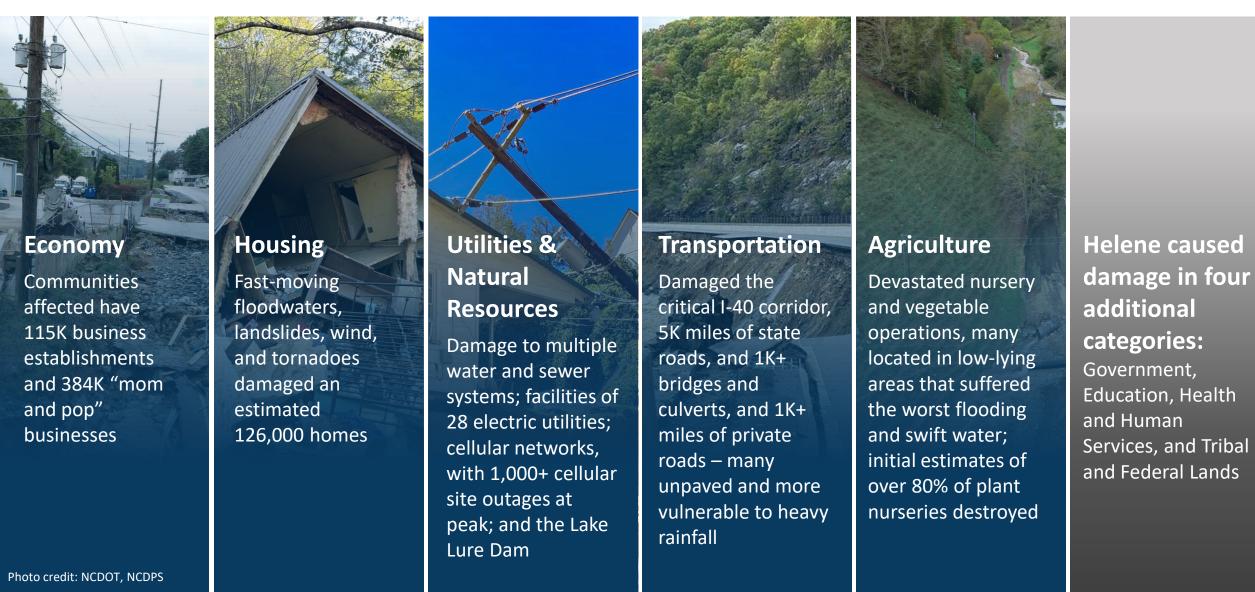
Other categories

Contents

Overview

Category Summaries & State Funding Recommendations

We assessed damage and needs in nine categories; five account for 94% of the estimated total



Economy

\$15.9 billion

Estimated cost of damages, strengthening, and mitigation

I'm watching my income evaporate, and it's adding to my traumatization

-Lake Lure business owner



Photo credit: NCDOT – Biltmore Village (top); Swannanoa, NC (bottom) Source: OSBM

Economy Proposed State Funding

Program	Recommended total funding (\$M)
Helene Business Recovery Grant program	475
Local infrastructure grants	70
Golden LEAF MountainBizWorks	50
Bringing Tourists Back to Western NC	20
ReToolWNC	15
State Match for FEMA PA	14
Carolina Small Business Development Fund	6
Total	650

Housing

\$14.7 billion

Estimated cost of damages, strengthening, and mitigation

We ended up with 9 feet plus right in this spot, enough to knock buildings off their foundations and roll cars down the road.

> —Newland resident (WCNC)

Photo credit: NCDOT – Buncombe County (top), NCDPS – Rutherford County (bottom)



55% Low-income households experiencing costburdened housing



Housing Proposed State Funding

Program	Recommended total funding (\$M)
Homeowner Recovery Program	325
State Match for FEMA IA	150
Affordable Housing	50
State Acquisition and Relocation Fund (SARF)	50
Rental, Mortgage, and Utility Assistance	25
Back @ Home - Helene	20
State Match for FEMA PA	10
Temporary Weatherization Program Expansion	10
Local Government Capacity	5
Transition to Community Living	2
Disaster Legal Services	1
Historic Tax Credit Bonus	1
Total	650

Utilities & Natural Resources

\$6.7 billion

Estimated cost of damages, strengthening, and mitigation



—Ben Woody, Assistant City Manager (*Washington Post*)





2M Households served by impacted electrical utilities



Utilities & Natural Resources Proposed State Funding

Program	Recommended total funding (\$M)
FEMA Matching Funds	289
Water Infrastructure Resiliency and Interconnections Fund	100
Restoring Local Parks	50
Flood Abatement and Water Quality Protection Measures	50
Mapping and Modeling	45
Dams Repairs and Overtopping Study	10
Stormwater	10
Microgrids	10
Bernard Allen Emergency Drinking Water Fund	5
Grid Resilience and Hardening	4
Brownfields	3
WNC Sustainable Energy Disaster Grant Program	2
FEMA Hazard Mitigation Matching Funds	TBD
Total	578

18

Transportation

\$9.8 billion

Estimated cost of damages, strengthening, and mitigation

It's almost impossible to believe that water and wind alone could have torn apart rock and asphalt and the literal ground near where we're standing.

> —Pete Buttigieg, U.S. Secretary of Transportation (*Raleigh News & Observer*)

Photo credit: NCDOT – I-40 in Black Mountain Township (top), Mount Paradise Campground (bottom)



1K+

Bridges and

culverts damaged

6K Miles of road damaged



Transportation Proposed State Funding

Program	Recommended total funding (\$M)
Private Road and Bridge Repairs and Replacement	46
Public Transportation Affected by Hurricane Helene	5
Improving Airport Resiliency	3
Improving NCDOT Capacity to Assess Weather-related Damage	0.8
State Match for NCDOT Road & Bridge Repairs and Replacement	TBD
Building Smarter and Stronger Resilient Roads	TBD
Local Match for Federal Funding for Municipal Road and Bridge Repairs and Replacement	TBD
Total	55

Agriculture

\$3.4 billion

Estimated cost of damages, strengthening, and mitigation



Most of the crops are gone. We are going to have some livestock mortality, there is no question about that.

- NC Agriculture Commissioner Steve Troxler

Photo credit: NCDPS - Clifton NC (top), NCDPS (bottom) Source: USDA-NASS Survey



5-10% Crops covered by federal insurance



Agriculture Proposed State Funding



Program	Recommended total funding (\$M)	
Helene Agriculture Disaster Farmer Recovery Program	225	
Stream Debris Removal and Stabilization	90	
Helene Business Recovery Grants: Expanded Farmer Eligibility	25	
Agricultural Infrastructure and Stabilization	25	
Agricultural Development and Farmland Preservation Trust Fund	25	
Other Federal Disaster Program Match Funds	20	
Wildfire Risk and Response	12	
Total	422	

Government & **Recovery Ops**

\$1.4 billion

Estimated cost of damages, strengthening, and mitigation

13 state parks closed in Western NC after Hurricane Helene

— Charlotte Observer



300K Acres of stateowned land



45%

Photo credit: NCDOT - Madison County (top), NCDOT - Swannanoa (bottom) Source: OSBM

Government & Recovery Ops Proposed State Funding

TAG

OFFICE

Program	Recommended total funding (\$M)
Match Funds and Cashflow Needs	250
Repair and Renovations of State and Local Facilities	102
State Match for IIJA, CHIPS, and IRA	75
Continuing Operations and Staffing	73
Local Capacity Grants	50
DNCR Grants to Local Organizations for Arts, Historic Preservation, Libraries, and Science Museums	44
	50/

Total

594

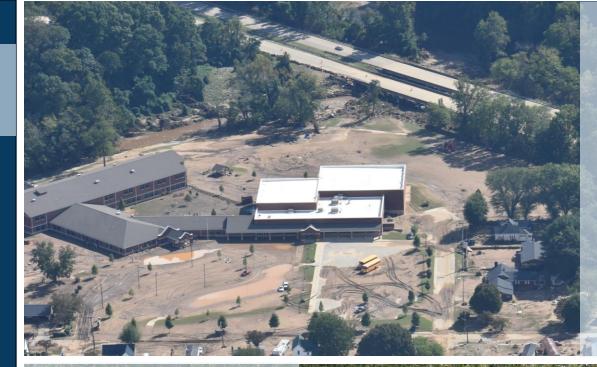
Education

\$844 million

Estimated cost of damages, strengthening, and mitigation

Some districts warn students will miss up to a month of school, and others say they can't yet determine a timeline for returning to classrooms — PBS News

Photo credit: NCDOT – Old Fort (top) Source: OSBM



900K+

Students from declared counties



1K+

Schools in

impacted region

Education Proposed State Funding

Program	Recommended total funding (\$M)
Capital Needs for K-12 and NCCCS	100
Public School Insurance Fund Solvency	50
Flexible Emergency Funding for Operations	38
State Match for FEMA PA	27
Stay-in-School Student Assistance	26
K-12 Summer Learning Programs	25
Mental Health Services	10
Small Business Center and Technical Support	4
ApprenticeshipNC Support	2
Total	282

Health and Human Services

\$724 million

Estimated cost of damage, strengthening, and mitigation

What I expect the next wave to be is primarily medical, where people are beginning to get sick from their circumstance, and they're going to need a different kind of help"

Dr. Raymond Barfield
Palliative care specialist, Mission
Hospital



Photo credit: USCG Southeast, NCDPS

Health and Human Services Proposed State Funding

Program	funding (\$M)
Food Banks	45
Childcare center disaster relief	36
Mental health support	33
Medicaid	26
Social services surge staffing	20
D-SNAP match funding	18
Supports for individuals with I/DD	18
Local health department support	15
Critical staffing support	9
Child social services support	7
Emergency food assistance	5
Adult social services support	4
Sustainable payments to providers	3
NC Office of Emergency Medical Services (OEMS)	3
Fatality management costs	3
Time-limited public health response & recovery staff	3
Communicable disease prevention and response	2
Emergency prescription assistance program	2
Vital records cost for replacement	1
Assistive technology	0.3
Total	252

Recommended total

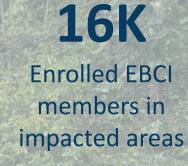
Tribal & Federal Lands

TBD

Estimated cost of damages, strengthening, and mitigation due to limited data at this time







2M+ Acres of federal land in North Carolina



Western North Carolina needs immediate, flexible funds to support a robust recovery from Helene

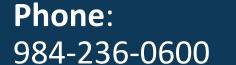
\$53.6B

Total estimated damage and needs

\$3.9B

Governor's funding recommendation

Photo credit: NCDOT – Buncombe County



Website: www. osbm.nc.gov

Follow us: @ NC Office of State Budget & Management

X @ NCDemographer

@ NC Office of State Budget & Management

