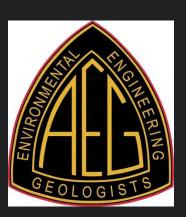


## LANDSLIDE HAZARDS - A North Carolina perspective

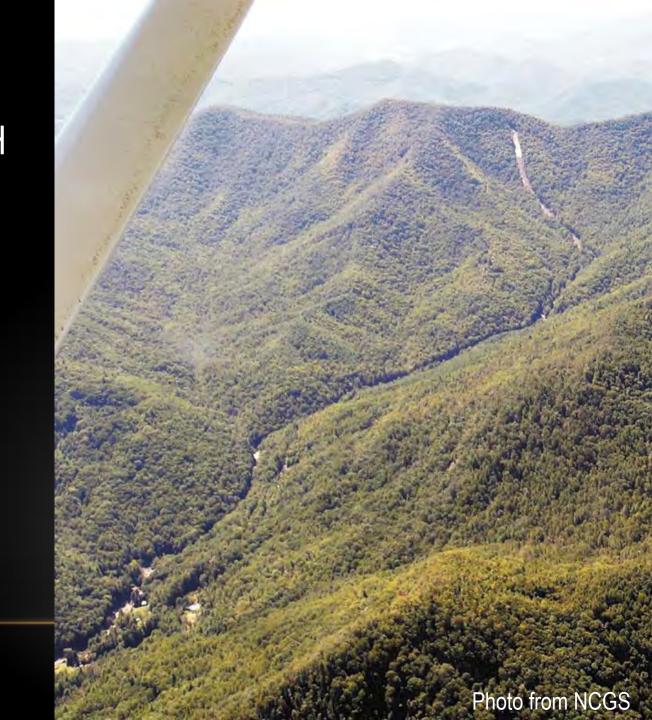
Jennifer B. Bauer, L.G.

Jennifer@appalachianlandslide.com



PEEKS CREEK
DEBRIS FLOW
FRANKLIN, NORTH
CAROLINA

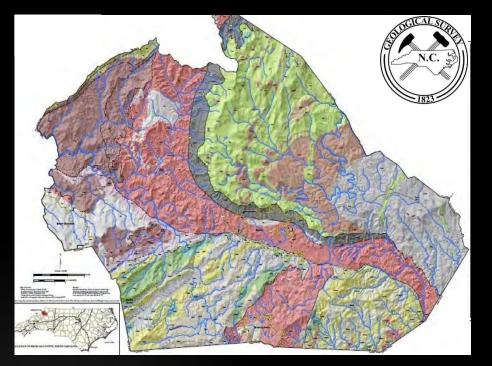
SEPTEMBER 16, 2004





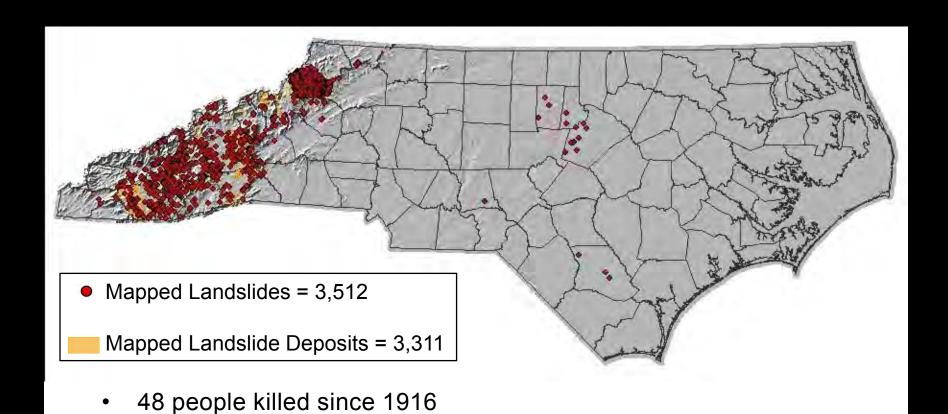
## NCGS LANDSLIDE MAPPING







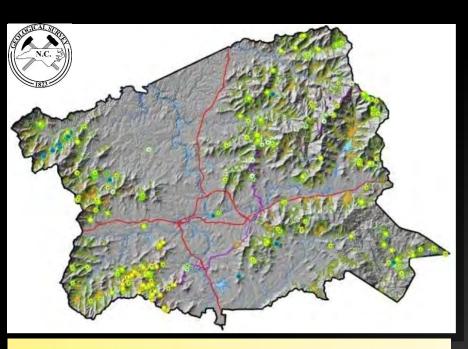
#### NORTH CAROLINA LANDSLIDE INVENTORY



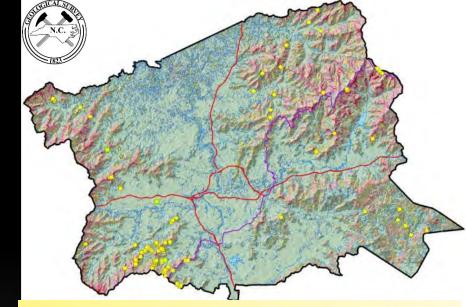
> 85 homes & other structures damaged or destroyed

locations in ALC/NCGS database

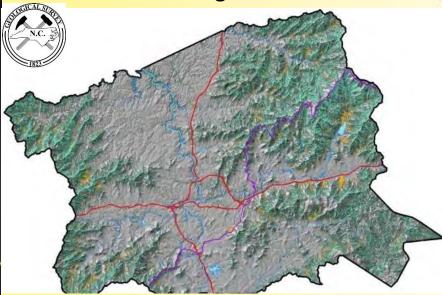
### NCGS LANDSLIDE HAZARD MAPS



Slope Movements - Slope Movement
Deposits Map—
where landslides have occurred or are
occurring.

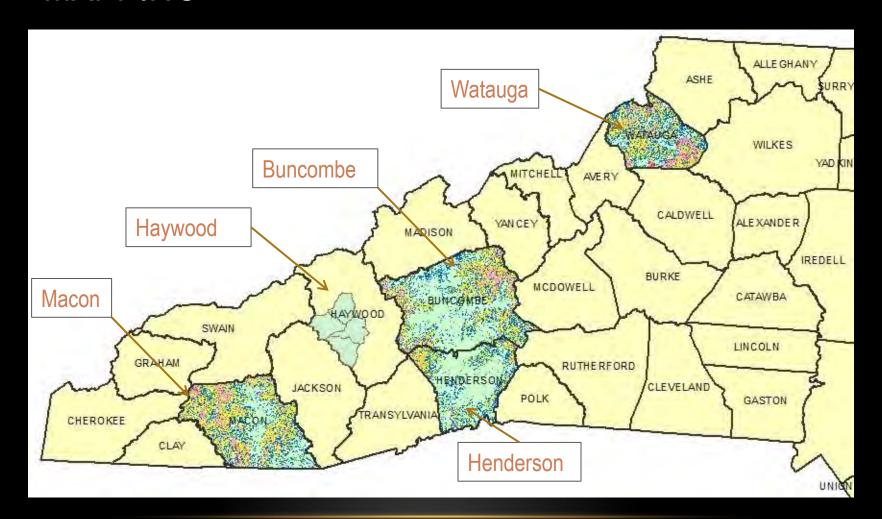


Stability Index Map – where landslides might start



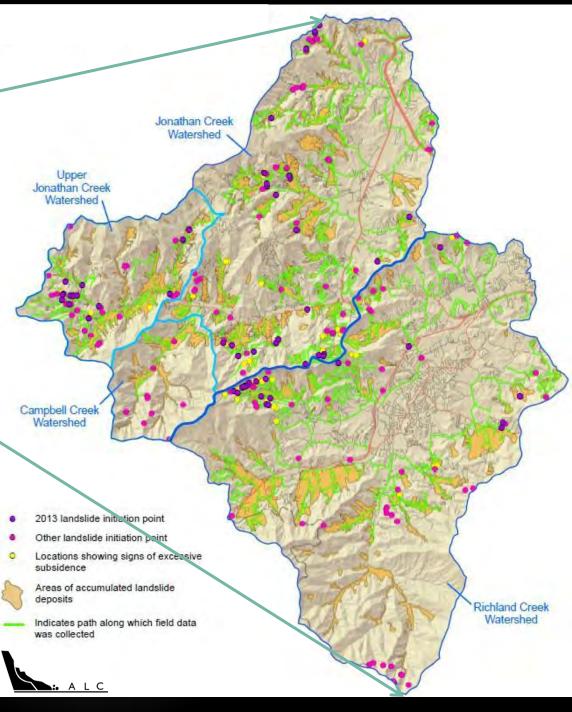
Potential Debris Flow Pathways Map – where landslides might go

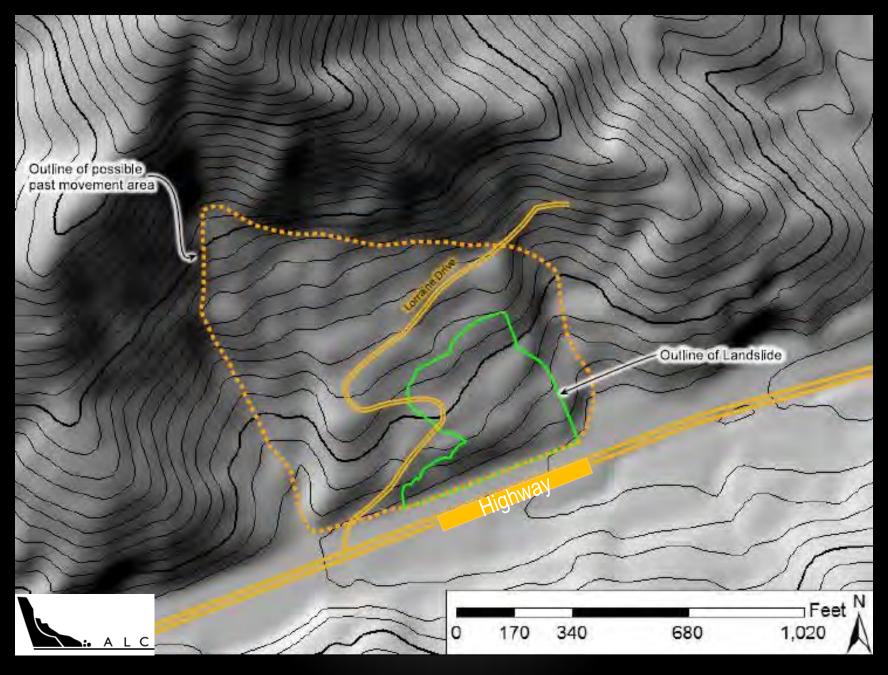
## NORTH CAROLINA LANDSLIDE HAZARD MAPPING



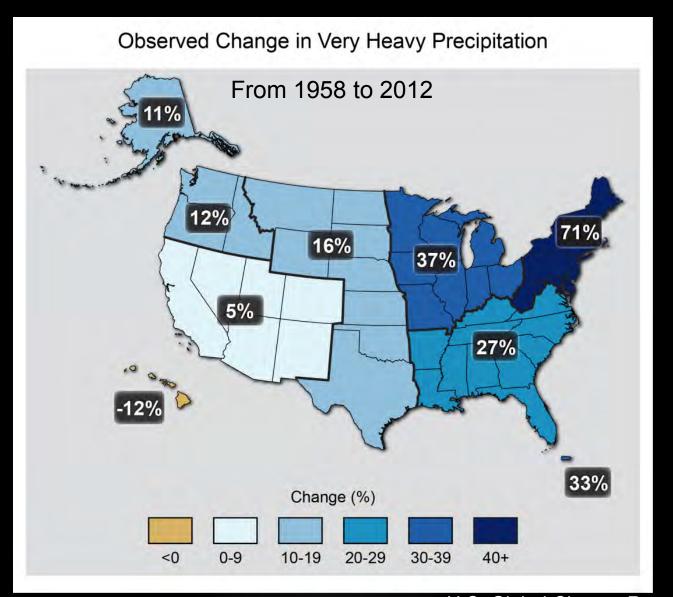


# WATERSHED SCALE LANDSLIDE MAPPING





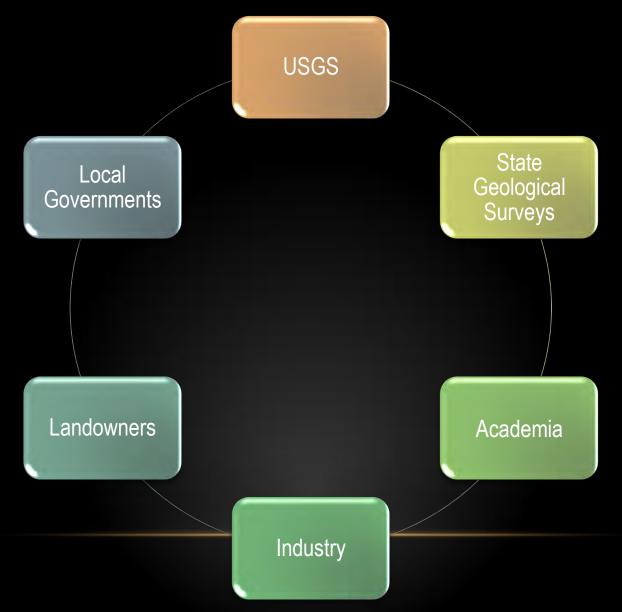
#### 2014 NATIONAL CLIMATE ASSESSMENT



#### GOING FORWARD

- Personal connection critical
- Maps provide information needed for awareness and informed decisions – need consistency in and across states
- Engage all stakeholders early in the process

#### **CONTINUED COLLABORATION**





#### Thank You!

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Principal Geologist/Co-owner jennifer@appalachianlandslide.com

Acknowledgements: Association of Environmental & Engineering Geologists



#### 2014 NATIONAL CLIMATE ASSESSMENT

#### Projected Change in Heavy Precipitation Events

