

# From Science to Solutions: A More Survivable and Insurable Minnesota

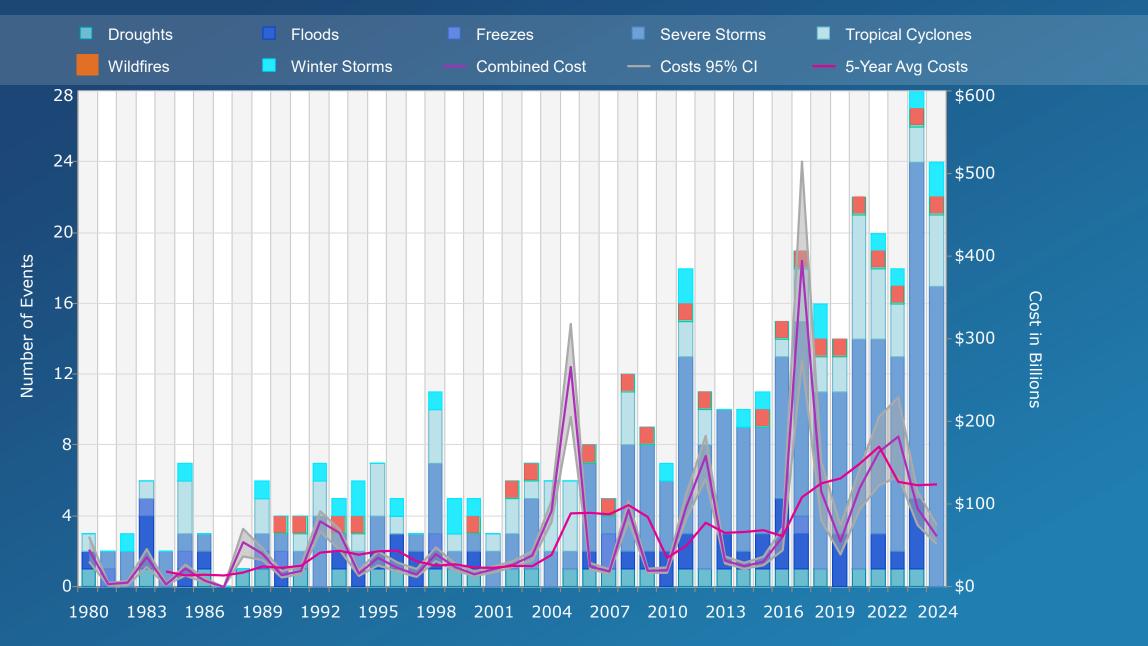
**Michael Newman** 

General Counsel

Insurance Institute of Business & Home Safety



#### United States Billion-Dollar Disaster Events 1980-2024 (CPI-Adjusted)



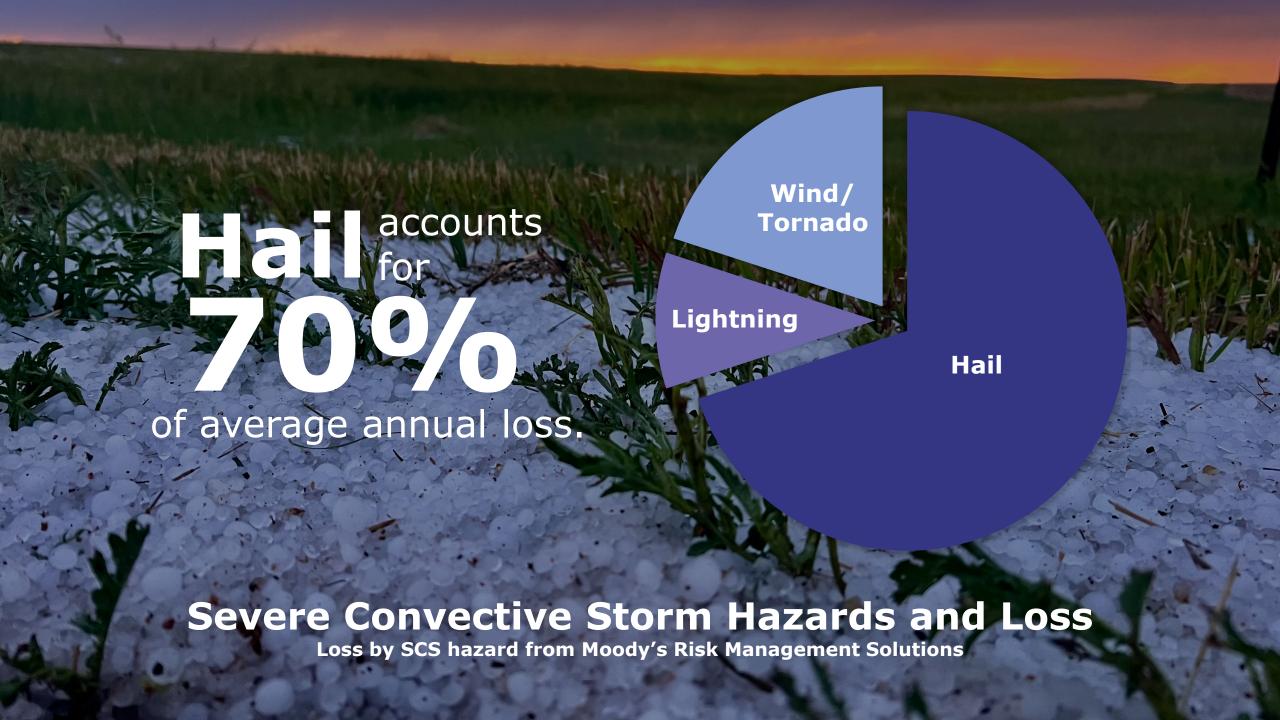
Updated: November 1, 2024













GOOD and EXCELLENT performing asphalt shingles could **ELIMINATE** the need for **ONE ROOF** REPLACEMENT CYCLE.

#### **ROOF SHINGLE HAIL IMPACT RATINGS**





TruDefinition<sup>6</sup> Duration FLEX®

**G**certainteed











Timberline® Armorshield™

NorthGate®























































Excellent Good Marginal









Keep the roof on, water out.
Reduce damage amplifiers.
Keep the entire building intact with a continuous load path (CLP).
Protect openings against high pressures.\*\*

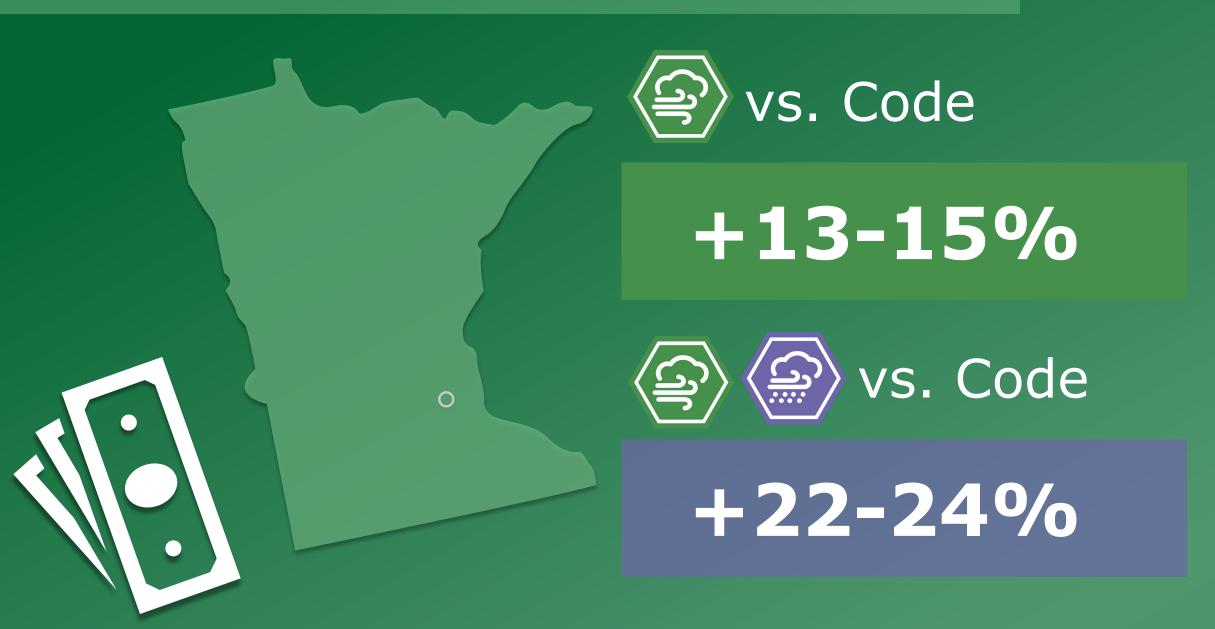


Keep the roof on, water out.

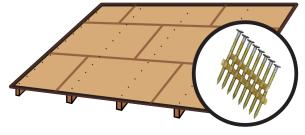
Reduce damage amplifiers:
Strengthen gable walls & porches.
Strengthen garage door openings.
Protect openings against debris impact.\*\*



#### FORTIFIED COST DIFFERENTIALS

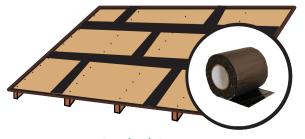






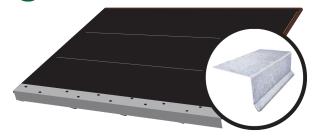
**Stronger Connections** 

2. KEEP THE WATER OUT.



Sealed Seams





Lock the Edges Down

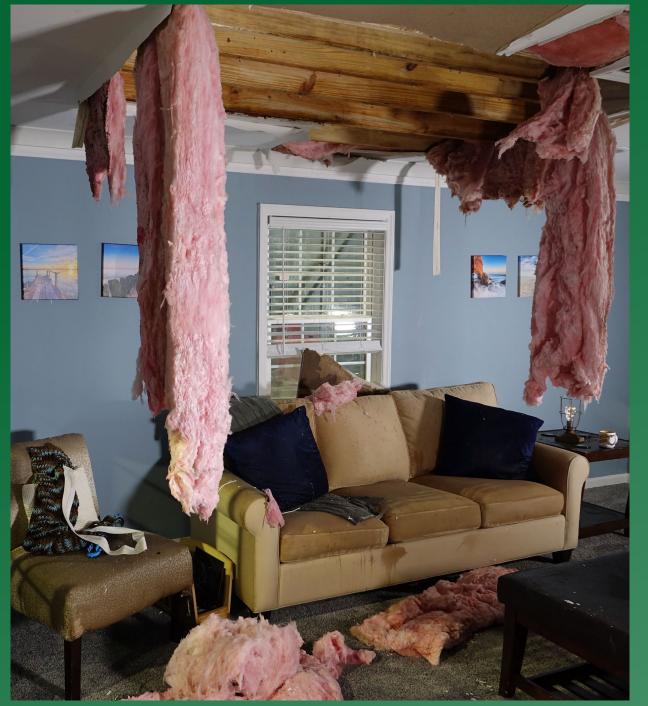




Choose an Impact-Rated Shingle\*\*





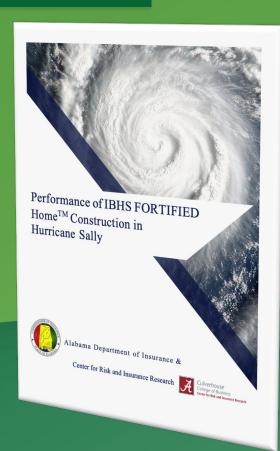




### HURRICANE SALLY Results

40,000 Properties





# TOPAL Adda GE could dian Enegarency reduced by

22% reduction \$42\text{Arge} claim amount Homeowners

\$105.6M in Insured Losses

42% of single-family home damage is ADDRESSED with elements in FORTIFIED.

#### 2011 Super Outbreak Alabama Tornadoes of April 26- 28

#### **Degree of Damage**

- Surveyed but no visible damage
- Visible damage

Protects against water intrusion



Roof cover damage < 20%



Broken windows and/or doors





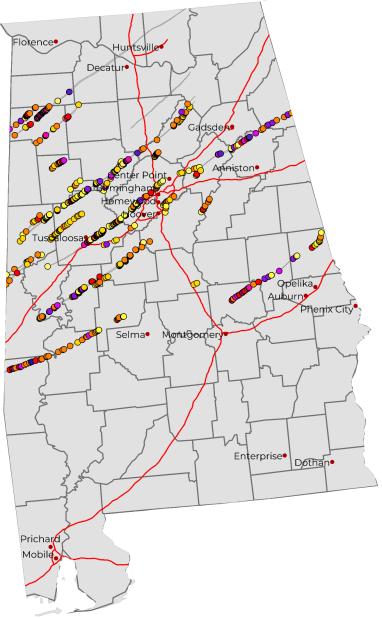
Significant roof cover loss, damage to garage doors, carport/porch roof structural damage



House shifted on foundation



- Roof structural damage, walls remain intact
- Exterior wall failure
- Most walls on lowest floor collapse
- All walls collapsed
- Complete destruction, slab swept clean



#### DEGREES OF DAMAGE SINGLE FAMILY HOMES

FORTIFIED

FORTIFIED

FORTIFIED

FORTIFIED FORTIFIED

THRESHOLD OF VISIBLE DAMAGE

FORTIFIED LOSS OF ROOF COVERING MATERIAL (<20%)

BROKEN GLASS IN DOORS & WINDOWS

LOSS OF SIGNIFICANT ROOF COVERING GARAGE DOORS COLLAPSE; FAILURE OF PORCH

ENTIRE HOUSE SHIFTS OFF FOUNDATION

LARGE SECTIONS OF ROOF STRUCTURE REMOVED

**COLLAPSE OF EXTERIOR WALLS** 

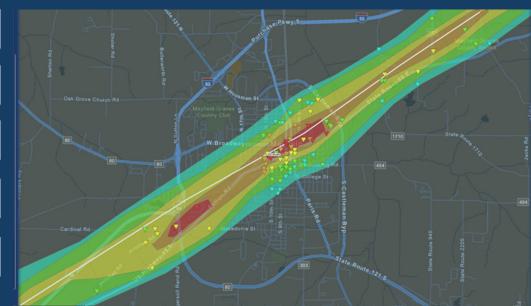
MOST WALLS COLLAPSED

ALL WALLS COLLAPSED

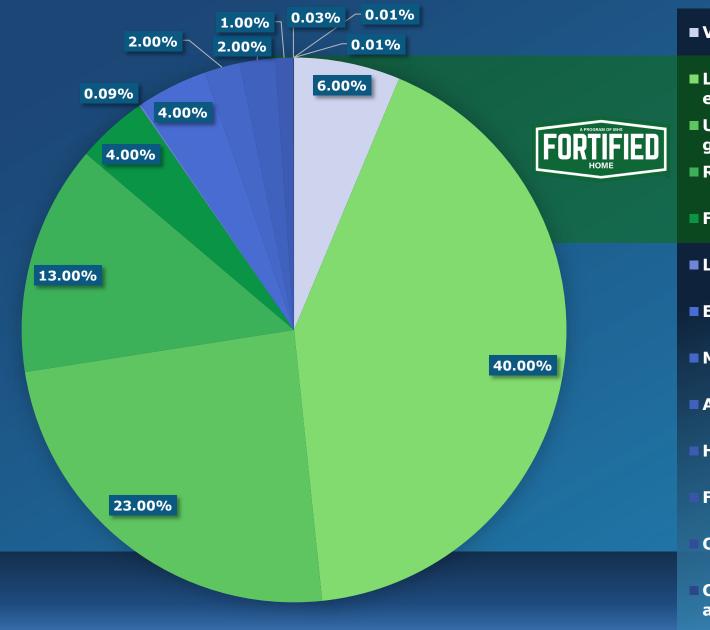
DESTRUCTION OF ENGINEERED RESIDENCE



#### MAYFIELD, KY EF-4 TORNADO TRACK

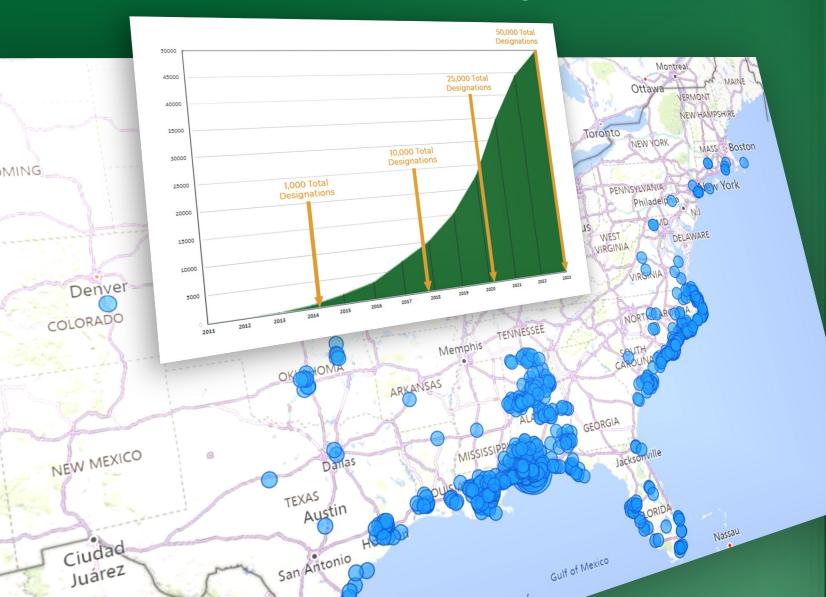


### **TORNADOES (2014-2022)**



- Visible damage threshold
- Loss of roof covering and or gutters, siding etc.
- Uplift of roof deck, sig. roof cover loss, garage door failures, carport, porch failures
- Roof structural damage, walls standing
- Failed glazing
- **Large % roof decking loss**
- **■** Exterior wall collapse
- Most exterior walls collapsed
- All walls collapsed
- House shifted from foundation
- Full roof structural failure
- **Complete structural failure**
- Complete destruction and all debris blown away

# FORTIFIED GROWTH Across the Country



Over 86,000
DESIGNATIONS
NATIONWIDE

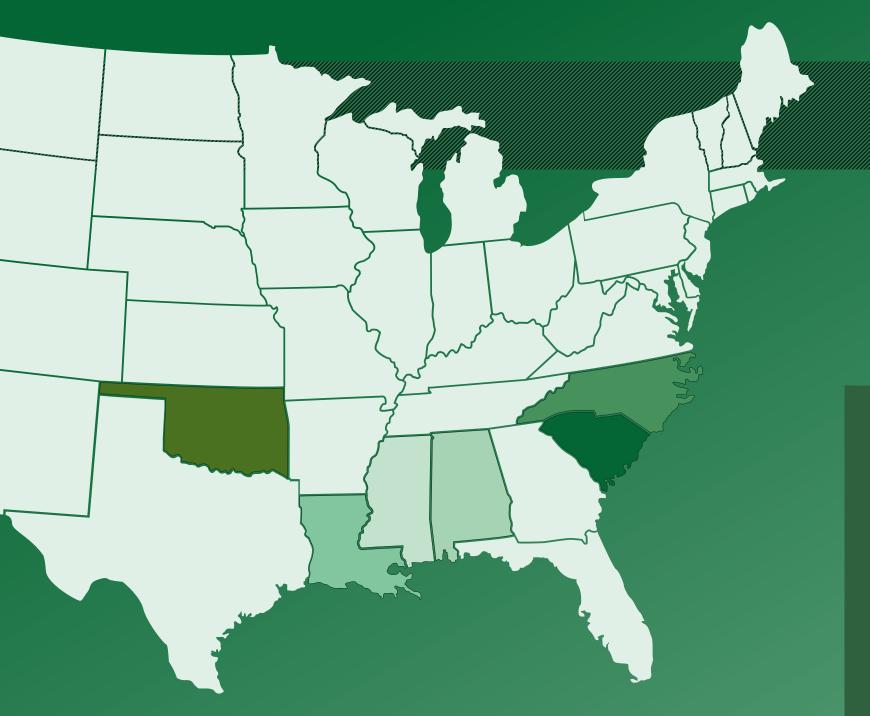
GROWING BY MORE THAN 1,500 PER MONTH

DESIGNATIONS
ISSUED TO HOMES
IN 34 STATES

As of Oct 2025

# RESILIENT RETROFITS & NEW CONSTRUCTION





## Grant Funded FORTIFIED Designations



67.6% South Carolina

**57.8%** Oklahoma

**54.8%** North Carolina

39.7% Louisiana

**19.3%** Alabama

**2.5%** Mississippi



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