



TAMEST NATURAL HAZARDS SUMMIT

Responding to and Mitigating the Impacts

LUBBOCK, TEXAS 05.16.2022

#NATURALHAZARDSSUMMIT

Panel:

Improving Resiliency of Infrastructure to Prevent Fatalities and Mitigate Damages

MODERATOR



CHANDRA FRANKLIN WOMACK

Owner and Chief Executive
Officer, Aran & Franklin;
Board Chair, Texas
Windstorm Insurance
Association

SPEAKERS



IAN GIAMMANCO, PH.D.

Lead Research
Meteorologist & Sr.
Director for Standards
and Data Analytics,
Insurance Institute for
Business & Home Safety



MARC LEVITAN, PH.D.

Lead Research Engineer,
National Windstorm Impact
Reduction Program,
National Institute of
Standards and Technology



CHRIS LETCHFORD, D.PHIL.

Professor and Chair Rensselaer Polytechnic Institute















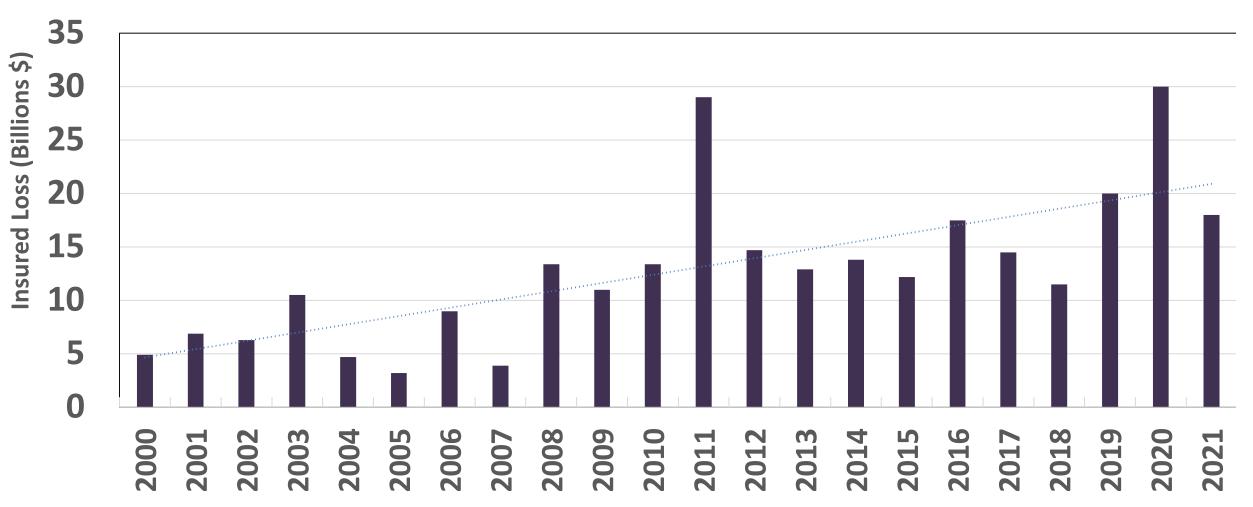




We must consider ALL the hazards a home or business faces.



Annual Severe Convective Storm Insured Losses - AON







Severe Convective Storm Hazards and Loss



Hail

Hail accounts for 70% of annual average loss. In any given year hail is 60-80% of the damage produced by severe convective storms



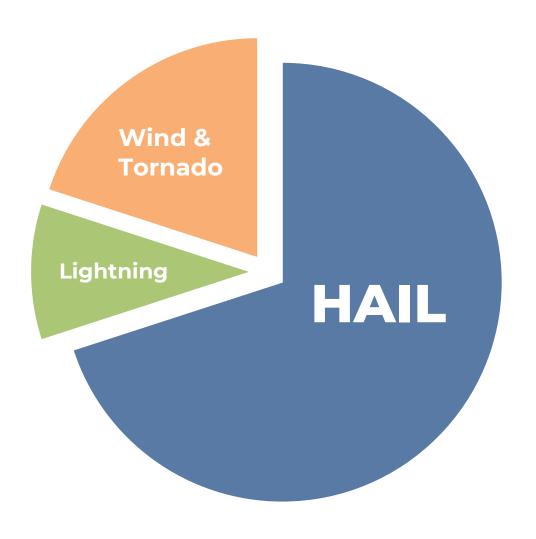
Wind & Tornadoes

Severe winds both from straight-line wind events and tornadoes account for about 20% of average annual loss.

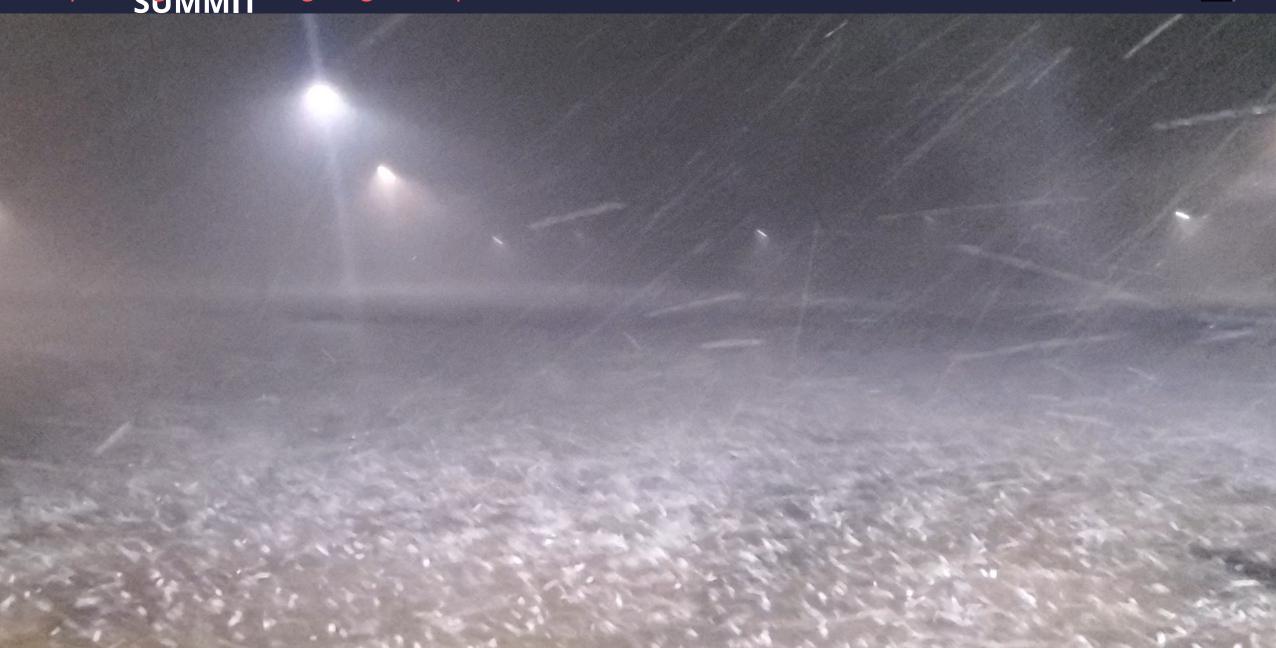


Lightning

Lightning, including fires started by lightning accounts for about 10%









Ingredients for a Catastrophic Hailstorm

Big Hail

Damage to structures begins often at hail sizes above 1.5 inches (3.8 cm)

Lots of Hail + Wind

High concentrations of hail embedded in strong winds make even small hailstones damaging



Major metro

Our suburban environment is growing quickly. We build larger and closer together than ever before

Vulnerable Roof Covers

U.S. & Canada only countries that the dominant roof cover is asphalt shingles

Most building materials are not designed to resist large hail



CLAIMS ANALYSIS

Single Large carrier: \$280 Million 12 most active hail days 2018-2020

87% of claims occurred at radar-estimated hail sizes below 2 inches

By using better roof products, \$100-210 million in potential savings

Responding to and Mitigating the Impacts





We have to create the right nudges to do better...

More and more tools are Becoming available

Granule

























































































