Verisk Crop Hail Model for the United States

Release Information	
Release Date	• June 2022
Software Systems	• Touchstone Re 2022

Model Details	
Domain	• 42 states (the contiguous United States excluding the six New England states: Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont)
Peril(s)	• Hail • Convective straight-line winds
Explicitly Modeled Crops	• Barley • Corn • Cotton • Rice • Soybeans • Durum, Spring and Winter Wheat
Model Resolution	• 8-km
Intensity Parameter(s)	• Hail – Hail total kinetic energy (J/m^2) • Convective straight-line wind – Average maximum wind speed (3-sec gust; mph)
Geospatial Layers	• None

Stochastic Catalog	
Catalog	• 10,000-year all-events catalog
Event IDs	• All event IDs are new

Event Sets	
Historical Event Set	N/A
World Scenarios Event Set	N/A

Touchstone Re	
Industry exposure loss files	County and State
Input	County and State
Output (losses)	County and State

Touchstone Re Lines of Business	
• Crop hail • Production plan	• Crop hail for the model domain • Production plan for Colorado, Iowa, Idaho, Illinois, Indiana, Kansas, Minnesota, Missouri, North Dakota, Nebraska, Ohio, South Dakota, Texas and Wisconsin

Industry Exposure Database

• Vintage
 	
    • Crop Data Layers – 2017-2020
    • Premium Rates – 2020
    • Policy Conditions – 2020
 	
• Resolution
 	
    • County, State (the underlying Industry Exposure Database resolution is 8 km)