



# Catastrophe Loss Analysis Report

*Risk profiles to manage your portfolio's exposure*

**As an insurer,** you need to evaluate portfolio risk thoroughly and accurately. While it's critical to understand the risk associated with a building's characteristics, it's just as important to understand the building's risk from natural catastrophes. An isolated fire affects one building, but a natural disaster can adversely affect your entire portfolio.

With Verisk's Catastrophe Loss Analysis Report, available through the ProMetrix® system, you can manage your exposure to loss from hurricanes, severe thunderstorms, and earthquakes.

You get risk scores and average annual loss (the average loss expected to occur per year over a period of many years) for individual buildings in the ProMetrix commercial property database. And if the building isn't in the database, the system prompts you to enter certain information to access modeled data from AIR Worldwide, a Verisk Analytics company and technological leader in catastrophe modeling.

That combination of data from the ProMetrix database and AIR gives you just what you need to make profitable underwriting decisions and manage your exposure to loss.

## Natural catastrophe information

The report gives you objective, accurate risk information:

- hurricane and earthquake average annual loss, 100-year loss, and 250-year loss for the building and its contents
- ranking of a property's risk score for hurricane, earthquake, and severe thunderstorm relative to other properties in the same county and state

For those individual perils, you'll also get:

## Hurricane data

- physical characteristics of the location, including type of terrain and elevation above sea level
- storm surge potential — the likelihood of an abnormal increase in sea level affecting the property

## Earthquake data

- physical characteristics of the location, including soil type and potential for landslide and liquefaction
- distance to nearest significant earthquake fault
- 100-year intensity value (MMI) — the maximum value of an event likely to occur within a 100-year return period

## Severe thunderstorm data

- frequency of tornadoes, hailstorms, and straight-line windstorms affecting the property

## There's value to knowing the risks

Catastrophe risk modeling traditionally occurs at the portfolio level, but the market is moving to incorporate catastrophe risk information at the point of underwriting. That can help you:

- reflect catastrophe risk in pricing and set premiums that consider the risk
- comply with underwriting guidelines in high-hazard areas
- manage exposure growth in high-risk areas
- enter larger markets with competitive pricing
- improve your loss ratio and build more profitable portfolios
- optimize reinsurance purchases

# Providing catastrophe information for profitable underwriting

## Loss analysis results

- for hurricane and earthquake: average annual loss, 100-year loss, and 250-year loss for the building and its contents

## Relative risk levels

- ranking of a property's risk score for hurricane, earthquake, and severe thunderstorm relative to other properties in the same state or county

## Hurricane hazard data

- indicates if an abnormal increase in sea level during a storm is likely to affect the property
- property's elevation above mean sea level
- type of terrain or surrounding land

## Earthquake hazard data

- frequency of soil developing liquid properties
- indicates if property is in a landslide zone and/or fault zone
- soil type under the building
- maximum intensity value of an event likely to occur within a designated 100-year return period

## Severe thunderstorm hazard data

- frequency of tornadoes affecting the property
- frequency of hailstorms affecting the property
- frequency of straight-line windstorms affecting the property

### CATASTROPHE LOSS ANALYSIS REPORT

FROM AIR WORLDWIDE

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**POLICY#/INSURED: 12345**

1000 TURNPIKE WEST  
WINTER GARDEN, FLORIDA 34787  
County : ORANGE

ISO Risk ID : 09 FL99 244707  
On-site Survey Date : 09/2013

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**AIR CATASTROPHE LOSS ANALYSIS**

The following loss analysis results were calculated by AIR Worldwide catastrophe loss estimation models for the specified building data.

PERIL		Average Annual Loss	100-Year Loss (1% Prob. of Loss)	250-Year Loss (0.4% Prob. of Loss)
Hurricane	Building	0.0471%	1.0786%	2.3742%
	Contents	0.0371%	0.8620%	1.8271%
Earthquake	Building	0.0002%	0.0000%	0.0000%
	Contents	0.0010%	0.0000%	0.0000%

### NATURAL CATASTROPHE REPORT

FROM AIR WORLDWIDE

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**AIR NATURAL CATASTROPHE**

**Risk Address:** 1000 TURNPIKE WEST  
WINTER GARDEN, FLORIDA 34787

	Hurricane	Earthquake	Severe Thunderstorm
State Relative Risk Level:	Greater than 80 to 90	Greater than 70 to 80	Greater than 90 to 100
County Relative Risk Level:	Greater than 70 to 80	Greater than 70 to 80	Greater than 70 to 80

Relative Risk Levels above are shown as percentiles.

**Hurricane-Specific Values:**

**Return Source:** Address Level Match

**Storm Surge Potential:** No

**Elevation (above mean sea level):** 30 to Less than 40 feet

**Terrain/Land Use:** Suburban

**Earthquake-Specific Values:**

**Return Source:** Address Level Match

**Liquefaction Potential:** Very Low

**Landslide Zone:** No

**Fault Zone:** Not Applicable

**Soil Type:** Soft Soil to Firm Soil

**100-Year Intensity Value (MMI):** 0 to Less than 4

**Distance to Significant Fault:** Greater than 50 miles

**Severe Thunderstorm-Specific Values:**

**Return Source:** Address Level Match

**Tornado Frequency:** Very High

**Hail Storm Frequency:** Very Low

**Straight-line Wind Storm Frequency:** Very High

## For more information about Verisk's Catastrophe Loss Analysis Report

Call Verisk Customer Support at 1-855-859-8775 or send e-mail to [info@verisk.com](mailto:info@verisk.com). Or contact your Verisk representative. For information on all Verisk products, visit us at [www.verisk.com](http://www.verisk.com).



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