VGA

Cat modelling 2022

Date 06/07/2022

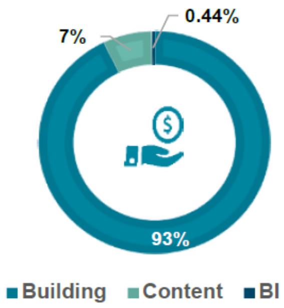
Content

Exposure overview

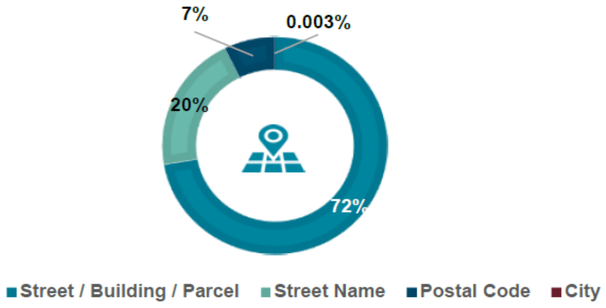
KNOWN

2508	9 B	93%	80%	100%	0%	0%
# Locations	Total Insured Value	% High Resolution TIV	Construction	Occupancy	Number of Stories	Year Built

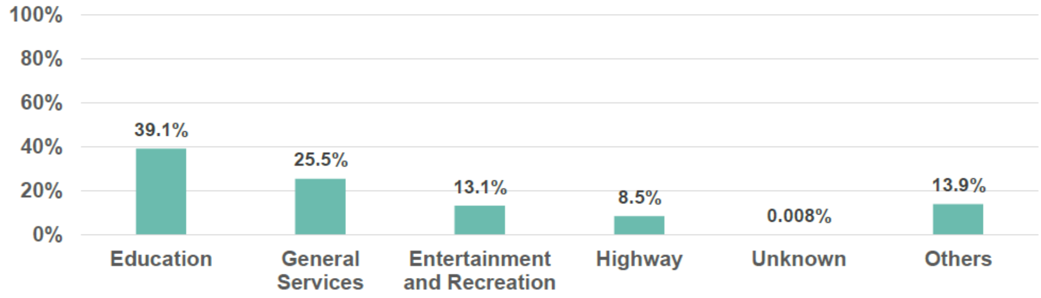
COVERAGE



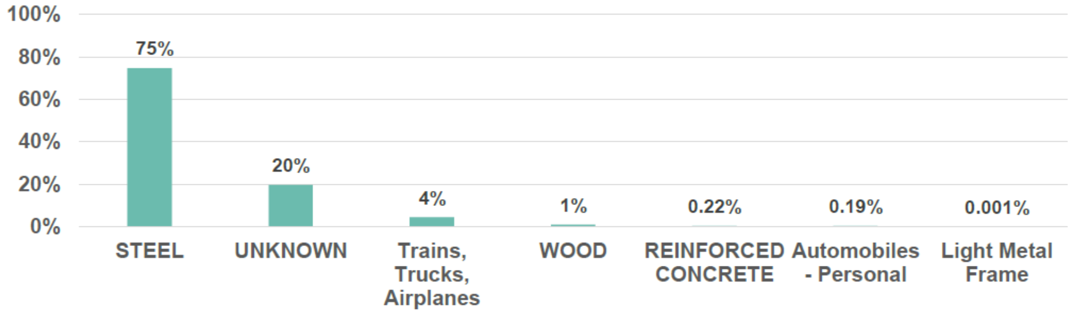
GEOCODING



OCCUPANCY

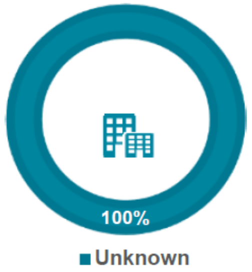


CONSTRUCTION



YEARBUILT

STORIES



* All Percentages are based on TIV

RMS Loss overview: Windstorm

Critical Probability	Return Period	With Loss Amplification			
		Ground Up Loss		Gross Loss	
		AEP	OEP	AEP	OEP
0.02%	5,000	32,689,150	31,887,979	32,198,870	31,496,554
0.10%	1,000	19,211,471	18,509,220	18,772,839	18,155,325
0.20%	500	14,775,273	14,113,889	14,368,344	13,789,894
0.40%	250	10,885,837	10,264,136	10,513,004	9,974,872
0.50%	200	9,753,227	9,144,110	9,393,900	8,869,199
1.00%	100	6,661,448	6,088,258	6,347,413	5,860,656
2.00%	50	4,320,016	3,786,508	4,055,818	3,615,096
4.00%	25	2,744,936	2,284,666	2,519,017	2,154,769
10.00%	10	1,445,726	1,122,714	1,254,859	1,021,460
20.00%	5	791,762	576,476	630,860	494,683

Statistics	Ground Up Loss	Gross Loss
Average Annual Loss	**640,019**	**536,683**
Standard Deviation	1,636,991	1,584,764
CV	2.56	2.95

Definition

Term	Definition
RMS High Definition (HD) Models	RMS builds HD models using a simulation approach that works at the highest possible resolution and integrates correlation and time-based simulations
Aggregate Exceedance Probability (AEP)	AEP measures the probability that one or more occurrences will combine in a year to exceed the threshold.
Occurrence Exceedance Probability (OEP)	OEP measures the probability that a single occurrence will exceed a certain threshold.
Average Annual Loss (AAL)	The expected annual loss on a long-term average basis. Mathematically, it is the expected value of the aggregate loss distribution, or alternatively, the area under the AEP curve.
Coefficient of Variation (CV)	The spread of loss around the mean is represented by the coefficient variation, and reflects the secondary uncertainty in the size of loss
Exceedance Probability (EP)	Also known as "Exceeding Probability" or "EP", it is the probability of exceeding specified loss thresholds. In risk analysis, this probability relationship is commonly represented as a curve (the EP curve) which defines the probability of various levels
Ground Up (GU) Loss	Total amount of loss sustained before deductions, underlying coverages and reinsurance are applied
Gross (GR) Loss	The insurer's or cedant's loss after deductibles, attachment point(s), and limits are applied but before any reinsurance
Ground Up (GU) Loss Cost	Ratio of Ground Up (GU) Loss to exposure
Gross (GR) Loss Cost	Ratio of Gross (GR) Loss to exposure
Per Mille	Parts per thousand. For example, a gross loss cost of 1.00 per mille refers to 0.1%
Post-event Loss Amplification (PLA)	Loss amplification assesses the impact and sensitivity of economic and claims costs that exceed normal expectations on the book of business. In the most severe catastrophes, it incorporates the increased spatial correlation that can occur in large events as well as the increased volatility in the calculation of uncertainty
High resolution	Adjective referring to data that is at a highly detailed level of geographic definition.
Hazard	A condition that may create or increase the chance of loss from a peril.
Vulnerability	Degree of loss to a system or structure resulting from exposure to a hazard of a given severity.
Coverage	The items specifically covered by an insurance policy (e.g., building, contents, business interruption).
Deductible	The first part of any damage, absorbed or paid by the insured (usually the property owner) before the insurance policy begins to pay. The deductible is separate from any part of the loss assigned to the insured because of coinsurance, or losses over insurance limits. Deductibles may apply to location coverage, locations (site), blanket (policy) coverage, or blanket (overall policy limit), or any combination of these.

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