Largest Catastrophe Losses since 1990

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Year	Event	Area	Curr	····	Total
1990	Storm Daria	North-Western Europe	EUR	(in mio) 29	(in mio EUR) 29
1991	Typhoon Mireille	Japan	EUR	85	
1992	Hurricane Andrew	USA, Caribbean	USD	57	
1994	Earthquake Northridge	USA, Los Angeles	USD	27	
1998	Hurricane George	USA, Caribbean	USD	29	24
1999	Typhoon Bart	Japan	EUR	28	28
1999	Storm Lothar	Western Europe	EUR	42	42
1999	Storm Martin	Western Europe	EUR	65	65
2001	World Trade Center	USA, New York	USD	455	389
2002	Flood Europe	Middle-Eastern Europe	EUR	75	75
2004	Hurricane Ivan	USA, Caribbean	USD	30	
2004	Hurricane Frances	USA, Caribbean	USD	58	
2004	Typhoon Songda	Japan	EUR	46	
2005	Hurricane Katrina	USA	USD	410	
2005	Hurricane Rita	USA	USD	73	
2005	Hurricane Wilma	USA	USD	46	
	Flood August 2005 Winterstorm Kyrill	Germany Western Europe	EUR	25 65	
2007	Hurricane Ike	USA, Caribbean	USD	94	
2010	Earthquake Chile	Chile	USD	261	223
2010	Earthquake Christchurch (Sept.)	New Zealand	AUD	235	
2011	Cyclone Yasi	Australia	AUD	56	
2011	Flood Brisbane	Australia	AUD	34	
2011	Earthquake Christchurch (Feb.)	New Zealand	AUD	547	
2011	Earthquake Christchurch (Jun.)	New Zealand	AUD	51	1
2011	Earthquake Japan	Japan	JPY	31,114	244
2011	Tornado	USA	USD	29	25
2011	Flood Thailand	Thailand	EUR	121	121
2012	Hurricane Sandy	USA	USD	175	
2013	Flood Central Europe, June	Central Europe	EUR	37	37
2013	Hail Germany (July)	Germany	EUR	29	
2014	Heavy Snowstorm Japan Feb. 1)	Japan	JPY	10,435	
2016	Wildfire Fort McMurray	Canada	EUR	101	101
2016	EQ New Zealand Nov	New Zealand	AUD	90	
2016	Hurricane Matthew	USA	USD	46	
2017	Cyclone Debbie Hurricane Harvey	Australia USA	AUD USD	37 163	
2017	Hurricane Irma	Caribbean, USA	USD	314	
2017	Hurricane Maria	Caribbean, OSA	USD	406	
2017	EQ Puebla, MX	Mexico	EUR	56	
2017	Wildfire Northern California	USA	USD	56	
2018	Typhoon Jebi	Japan	JPY	9,901	
2018	Hurricane Florence	USA	USD	70	
2018	Hurricane Michael	USA	USD	nbekend	Onbekend

Occurrence Exceedance Probability Curve

Return Periods	Pdf	North-Atlantic Hurricane	California EQ	European Windstorm	Cascadia EQ	Japan EQ
5	0.5278	94,586,977.88	5,198,876.31	34,576,258.44	60,616.23	-
10	0.2892	196,910,857.03	24,072,485.79	69,641,526.63	861,421.95	-
25	0.0924	437,752,002.10	122,794,432.24	148,346,379.39	10,849,814.97	-
50	0.0455	697,207,535.47	336,521,908.73	240,906,258.20	56,975,001.81	-
100	0.0226	1,019,723,498.98	660,851,095.02	371,872,122.29	198,879,002.84	347,784,843.80
200	0.0045	1,387,259,785.64	1,079,761,268.44	530,956,418.16	507,284,056.25	504,025,050.23
250	0.0090	1,510,946,448.37	1,216,208,207.90	583,774,662.56	653,462,002.39	514,105,551.23
500	0.0045	1,901,328,623.19	1,665,304,824.90	741,582,531.49	1,100,305,232.64	539,810,828.80
1000	0.0045	2,329,186,661.27	2,053,586,886.05	873,147,493.36	1,585,995,204.10	556,005,153.66

Return Periods	Pdf	Carribean Hurricane	Australia Cyclone	Columbia EQ	New Zealand EQ	New Madrid EQ
5	0.5278	18,342,251.99	-	-	-	-
10	0.2892	52,123,243.46	-	-	-	68.63
25	0.0924	133,788,724.95	-	-	-	585,222.07
50	0.0455	226,417,273.42	230,000,000.00	150,000,000.00	10,000,000.00	3,278,159.01
100	0.0226	335,567,747.79	241,862,768.89	215,000,000.00	130,000,000.00	17,564,908.11
200	0.0045	472,777,253.26	428,620,076.28	234,300,152.59	150,000,000.00	111,076,319.35
250	0.0090	515,438,324.16	487,028,153.61	280,174,405.45	178,699,455.14	160,041,533.18
500	0.0045	663,695,641.24	500,000,000.00	440,643,014.32	500,000,000.00	325,948,872.69
1000	0.0045	818,397,888.99	520,000,000.00	500,000,000.00	500,000,000.00	496,767,246.96

Return Periods	Pdf	Canada EQ	Australia Flood
5	0.5278	-	-
10	0.2892	402.46	-
25	0.0924	794,410.25	-
50	0.0455	5,361,354.43	-
100	0.0226	20,566,097.12	-
200	0.0045	61,813,100.33	-
250	0.0090	83,793,641.16	179,805,374.56
500	0.0045	206,680,552.74	250,733,359.94
1000	0.0045	408,911,635.36	363,349,111.45