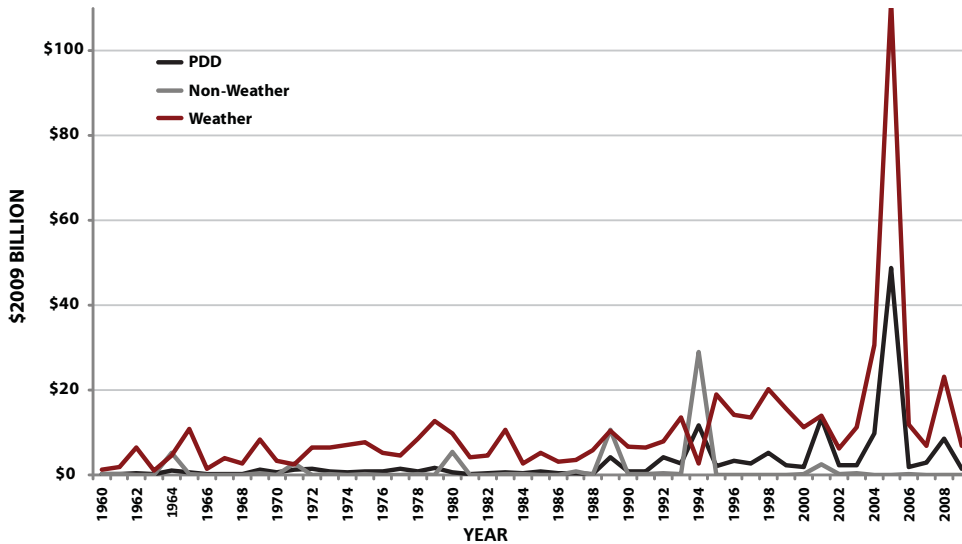


1960-2009 U.S. HAZARD LOSSES

SUMMARY OF LOSSES

Year	Total Losses (\$2009 billion)	Fatalities	Injuries	Property	Crop
1960 - 2009	573.6	27,960*	203,932*	472.1	101.5
Annual Average	11.4	559*	4,079*	9.4	2.0

ANNUAL LOSSES & PRESIDENTIAL DISASTER DECLARATIONS

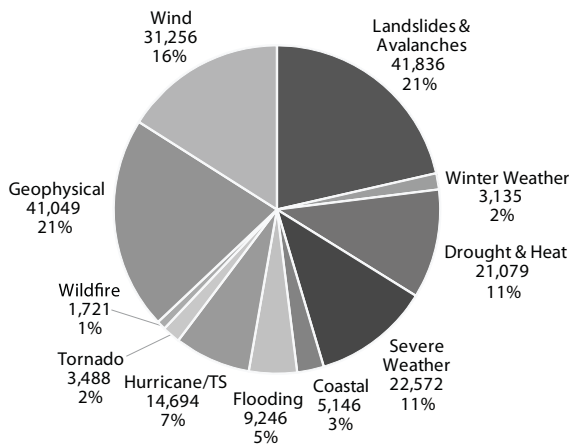


15 COSTLIEST YEARS

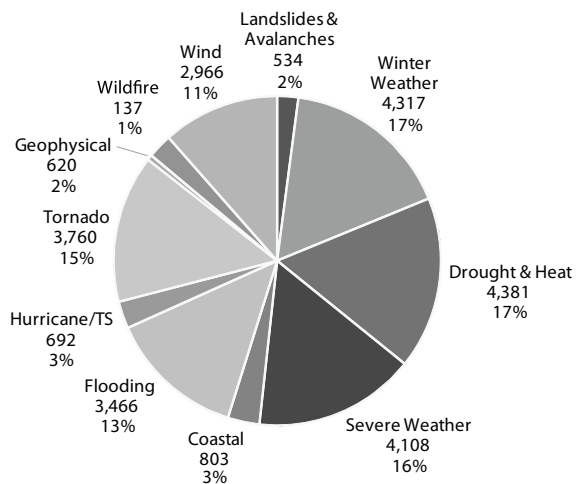
Year	Total Losses (in billion)	Fatalities
2005	111.6	405
1994	31.6	472
2004	30.4	337
2008	23.0	485
1989	20.7	627
1998	20.0	672
1995	18.8	1,607
2001	16.2	445
1999	15.5	920
1980	15.0	976
1996	14.0	537
1993	13.4	476
1997	13.4	583
1979	12.6	520
2006	11.9	528

MONETARY & HUMAN LOSSES BY HAZARD TYPE

Breakdown of losses by cause in 2009 (\$2009 Million)



Breakdown of fatalities by cause*



TOP 5 AFFECTED STATES

Most Hazard Hits

State	Counts
Ohio	62,690
Iowa	50,991
Kansas	44,515
Kentucky	44,381
Texas	43,071

Highest Losses

State	Damage (\$2009 billion)
Louisiana	77.0
California	76.2
Florida	54.9
Texas	50.5
Mississippi	43.4

Most Fatalities*

State	Fatalities
Texas	2,240
Illinois	1,589
California	1,545
Pennsylvania	1,493
Florida	1,242

TOP 5 AFFECTED COUNTIES

Most Hazard Hits

County	State	Counts
Polk	IA	1,246
Middlesex	MA	1,191
Cuyahoga	OH	1,132
Essex	MA	1,108
Worcester	MA	11,08
Oneida	NY	1,068
Norfolk	MA	1,061
Plymouth	MA	1,055
Lorain	OH	1,036
Harris	TX	1,023

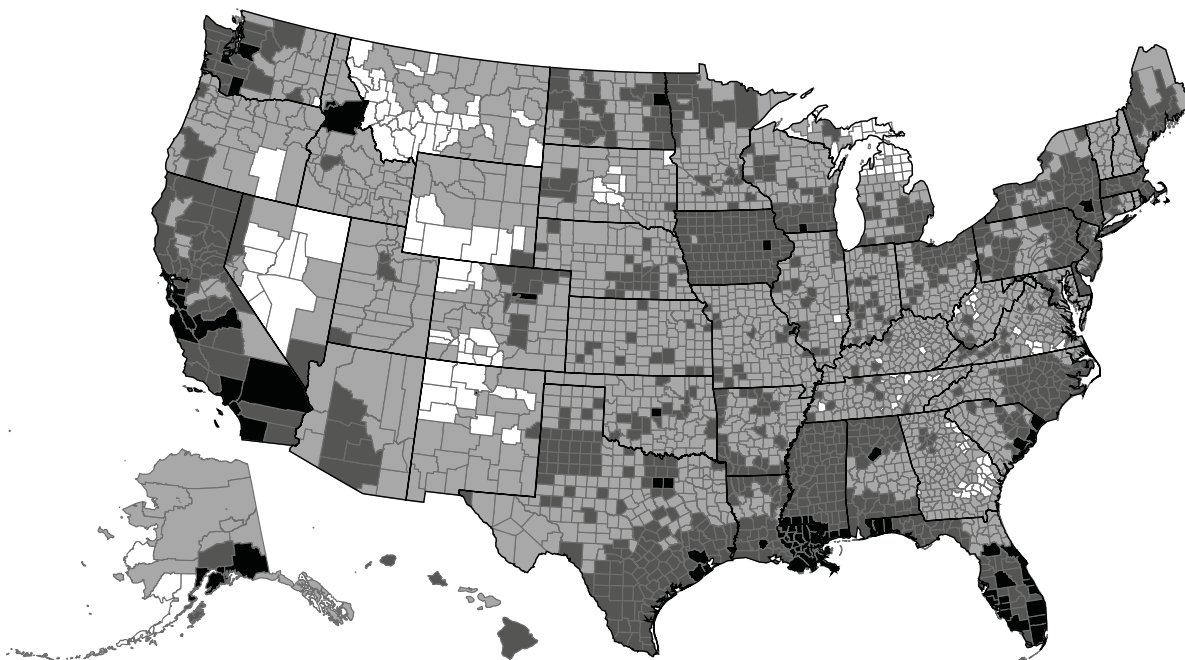
Highest Losses

County	State	Damage (\$2009 billion)
Los Angeles	CA	37.5
Linn	IA	7.6
Jefferson	LA	7.2
St. Tammany	LA	7.1
Lafourche	LA	7.0
Plaquemines	LA	7.0
St. Bernard	LA	7.0
Orleans	LA	7.0
Skamania	WA	5.8
Hancock	MS	5.6

Most Fatalities*

County	State	Fatalities
Cook	IL	1,111
Philadelphia	PA	483
Los Angeles	CA	280
Baltimore	MD	261
Larimer	CO	190
Harris	TX	186
Dallas	TX	156
Matanuska	AK	142
San Diego	CA	135
San Bernardino	CA	118

TOTAL LOSSES FROM NATURAL HAZARDS BETWEEN 1960 AND 2009



Between 1960 and 2009, there were 1,764 presidential disaster declarations costing at least \$147 billion (\$2009). The annual average number of declared presidential disasters is 35.

The states that received the most disaster declarations were:

Texas:	77
California:	70
Florida:	62
Oklahoma:	57
New York:	55
Louisiana:	51

Total Losses (Property and Crop) in 2009 Millions

Under \$10 Million
Between \$10 and \$100 Million
Between \$100 Million and \$1 Billion
More than \$1 Billion

0 125 250 500 Miles



SHELDUS VERSION 8.0



RELATED PUBLICATIONS

- Gall, M., K. Borden, and S. L. Cutter, 2009. "When do losses count? Six fallacies of natural hazards loss data." *Bulletin of the American Meteorological Society*, 90 (6): 799-809.
- Boruff, B. J., C. Emrich and S. L. Cutter. 2005. Erosion Hazard Vulnerability of US Coastal Counties. *Journal of Coastal Research* 21(5): 932-942.
- CCSP. 2008: Weather and Climate Extremes in a Changing Climate. Regions of Focus: North America, Hawaii, Caribbean, and U.S. Pacific Islands. U.S. Climate Change Science Program, Department of Commerce, NOAA's National Climatic Data Center, Washington, D.C., 164 pp.
- Cutter, S. L., M. Gall, and C. T. Emrich, 2008. "Toward a comprehensive loss inventory of weather and climate hazards," in H. F. Díaz and R. J. Murnane (eds.), *Climate Extremes and Society*. Cambridge, UK: Cambridge University Press, pp. 279-295.
- Cutter, S. L. and C. Emrich. 2005. Are Natural Hazards and Disaster Losses in the U.S. Increasing? *EOS Transactions*, American Geophysical Union 86(41): 388.
- Schmidlein, M. C., S. L. Cutter, and C. Finch. 2008. Disaster declarations and major hazard occurrences in the United States. *The Professional Geographer* 60(1): 1-14.

Cartoon reprinted with permission from the National Hazards Research Center in Boulder, CO.

*Figures for deaths and fatalities are underreported, especially for Hurricane Katrina and drought events in general. Updates will come in the future.

For more information on presidential disaster declarations go to FEMA (<http://www.fema.gov/hazard/>) and the Public Entity Risk Institute (PERI) at (<http://www.peripresdecusa.org/mainframe.htm>).