

Hail

Hail causes about \$1 billion dollars in damage to crops and property each year, according to the National Oceanic Atmospheric Administration (NOAA). Events involving wind, hail or flood accounted for \$19.9 billion in insured catastrophe losses in 2015 dollars from 1996 to 2015 (not including payouts from the National Flood Insurance Program), according to Property Claim Services (PCS®), a Verisk Analytics® business.

There were 5,601 major hail storms in 2016, according to the NOAA's Severe Storms [database](#) [1], resulting in \$3.5 billion in property and crop damage, the worst since 2010. May had the largest number of severe hail storms (1,511 storms), followed by July (896 storms) and June (825 storms). Texas had the largest number of severe hail events in 2016, followed by Kansas, Nebraska, South Dakota and Oklahoma.

The National Weather Service posts detailed information on severe storm events, including hail, tornadoes and wind. 2016 data on the number of hail events are posted [online](#) [1]. Historical and current data, including damages, are posted [here](#) [2]. NOAA has a "search by state" [database](#) [3].

Damage caused by wind and hail cost State Farm and its policyholders more than \$2.4 billion in 2014, according to an April 2015 [analysis](#) [4] by the insurer. Texas was the state with the most wind/hail losses, followed by Illinois, Colorado, Missouri, Nebraska, South Carolina, Pennsylvania, Iowa, South Dakota and Kansas.

Top Five States For Major Hail Events, 2016 (1)

Rank	State	Number of hail events
1	Texas	830
2	Kansas	569
3	Nebraska	376
4	South Dakota	324
5	Oklahoma	315
	United States	5,601

(1) One inch in diameter or larger.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service.

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Hail Fatalities, Injuries And Damage, 2012-2016 (1)

Year	Fatalities	Injuries	Property damage (\$ millions)	Crop damage (\$ millions)	Total damage (\$ millions)
2012	0	54	\$2,414.4	\$93.9	\$2,508.3
2013	0	4	1,245.5	75.0	1,320.5
2014	0	23	1,416.9	293.2	1,710.1
2015	0	0	586.0	133.0	719.0
2016	0	21	3,512.7	23.7	3,536.4

(1) Includes the 50 states, Puerto Rico, Guam and the Virgin Islands.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service.

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PROPERTY HAIL CLAIMS

A [report](#) ^[7] issued by Verisk Insurance Solutions in August 2014 showed that over the 14 years from 2000 to 2013 U.S. insurers paid almost 9 million claims for hail losses, totaling more than \$54 billion.

Most of those losses 70 percent occurred during the past six years. In addition to the higher number of claims, the average claim severity during the past six years was 65 percent higher than from the period 2000 through 2007.

Verisk's report ranks states from 2000 to 2013 by annual claim severity and by annual claims loss per year. When ranked by claim severity, not one of the states in "hail alley" Nebraska, Colorado and Wyoming is represented. The second ranking, by average claims loss per year, is a better representation of states that are more likely to have large hail losses and includes Oklahoma, Illinois and Kansas, which are typically known as hail states. Only two states, Minnesota and Ohio, are represented in both the chart for average claim severity and for average claims loss per year.

TOP 10 STATES FOR HAIL LOSSES, 2000-2013 (1)

Rank	State	Average claim severity	Rank	State	Average cl
1	Oregon	\$9,1001		Texas	
2	Idaho	8,6002		Minnesota	
3	Florida	7,9003		Oklahoma	
4	Connecticut	7,6004		Colorado	
5	Washington	7,5005		Illinois	
6	Minnesota	7,4006		Ohio	
7	New Jersey	7,0007		Georgia	
8	Wisconsin	6,7008		Tennessee	
9	Ohio	6,7009		Kansas	
10	Virginia	6,60010		Indiana	

Source: Verisk Insurance Solutions, Property Hail Claims in the United States: 2000-2013 [7], August 2014.

- Texas, which ranked first for average losses per year, has accounted for more than 20 percent of all hail claim losses since 2000.
- Minnesota had the second highest average annual loss since 2000 and the sixth highest average claim severity.
- The Verisk report found that there was a clear increase in the number and severity of hail claims during the past six years.
- 2011 was the first year to break the 1 million hail claims mark.

AUTOMOTIVE CLAIMS

A 2016 Highway Loss Data Institute (HLDI) [study](#) [8] quantified hail-related claims under automobile insurance comprehensive coverage, based on an analysis of National Oceanic and Atmospheric Administration and HLDI data for 2008 to 2014. Hail claims from 31 companies were studied, and results were based on more than 1.5 million claims. The insurers in this sample paid \$5.37 billion in total hail claims from 2008 to 2014. The actual payout by all insurers was estimated by HLDI to be \$7.26 billion. HLDI's results found a frequency of 3.2 claims per 1,000 insured vehicle years during the study period and a claim severity of \$3,428. 2011 had the highest claim frequency, 4.3, while 2014 had the highest claim severity, \$4,169. The states with the highest claim frequencies over the years 2008 to 2014 were South Dakota and Nebraska.

Top 10 States By Highest Hail Claim Frequency, 2008-2014

Rank	State	Hail claim frequency
1	South Dakota	26.5
2	Nebraska	19.1
3	Oklahoma	18.4
4	Kansas	16.5
5	Wyoming	15.2
6	Montana	11.8
7	Colorado	10.0
8	Missouri	9.3
9	Iowa	7.6
10	Texas	6.7

Source: Highway Loss Data Institute.

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Source URL: <http://www.iii.org/fact-statistic/hail>

Links:

- [1] http://www.spc.noaa.gov/climo/online/monthly/2016_annual_summary.html
- [2] <http://www.nws.noaa.gov/om/hazstats.shtml>
- [3] <http://www.ncdc.noaa.gov/stormevents/>
- [4] <http://www.claimsjournal.com/news/national/2015/04/13/262782.htm>
- [5] <http://www.iii.org/table-archive/22795>
- [6] <http://www.iii.org/table-archive/23610>
- [7] <http://www.verisk.com/cls/landing/hail/hailreport.html?source=iii>
- [8] [http://www.iihs.org/iihs/news/desktopnews/the-high-cost-of-hail-total-payouts-for-vehicle-damage-top-\\$7-billion-for-2008-14](http://www.iihs.org/iihs/news/desktopnews/the-high-cost-of-hail-total-payouts-for-vehicle-damage-top-$7-billion-for-2008-14)