

DATE: July 25, 2019
REGARDING: 2016-2018 United States Hail Loss Claims (Public Dissemination)
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Executive Summary

This *ForeCAST*SM illustrates the trends in hail loss claims in the United States (US) submitted from 2016 through 2018. Hail loss claims increased 18% between 2016 and 2017 and decreased 31% between 2017 and 2018 - overall, from 2016 through 2018, hail loss claims decreased 19%.

Texas was the top state in total hail loss claims from 2016 through 2018; with 811,381 hail loss claims. Additionally, Texas had the highest amount of claims each year with the exception of 2018, where Colorado had the highest claims. The top 10 states represented 74% of the total number of hail loss claims during this timeframe. San Antonio, TX was the top city in total hail loss claims with 75,186 claims from 2016 to 2018. The top 10 cities made up 15% of the total number of hail loss claims in the US over those 3 years.

“Personal Property Homeowners” (PPHO) was the policy type most affected by hail loss claims from 2016 through 2018. On average, PPHO policies were represented almost twice as often as the next most frequent policy type (Personal Automobile) in hail loss claims.

A national hail loss claims map provides a visual depiction of the volume and distribution of hail loss claims. This map illustrates the concentration of hail loss claims activity in the Midwest and South Regions of the United States.

Introduction

According to the National Oceanic and Atmospheric Administration (NOAA) (<http://www.ncdc.noaa.gov/billions/events>), multiple severe hail storms between 2016 through 2018 have caused billions of dollars’ worth of damage across the US. In March and April 2016 alone, powerful storms with hail caused widespread damage across Texas and the South and Southeast. Each of these storms are estimated by the NOAA to have each caused over \$1.2 billion in damage, including a North and Central Texas hail storm in April, 2016 costing an estimated \$3.8 billion in damage. Another powerful storm hit Colorado in May 2017 causing \$3.5 billion in damage.

In an effort to identify recent trends in hail loss claims, an analysis of data from ISO ClaimSearch[®] was performed. Claims containing the loss type “hail” with a date of loss between 2016 and 2018 were analyzed.

This report is divided into 2 sections. [Section 1](#) analyzes the overall US Hail Damage claim losses from 2016 through 2018. [Section 2](#) contains a geographic analysis of Hail Damage claims by loss state. A table of all state totals for Hail Damage claims is located in [Appendix 1](#).

Section 1: United States Hail Loss Claims

A total of 2,891,291 hail loss claims were identified with a date of loss from January 1, 2016 through December 31, 2018. Hail loss claims increased 18% between 2016 and 2017; from 965,153 to 1,139,865. Hail loss claims then decreased 31% between 2017 and 2018; to 786,273. Overall, from 2016 through 2018, hail loss claims decreased 19% from 965,153 to 786,273. Some claims have been voided in ISO ClaimSearch, and other claims can be updated by the member entering the claim and therefore may not reflect the exact numbers reported in previous or subsequent reports.

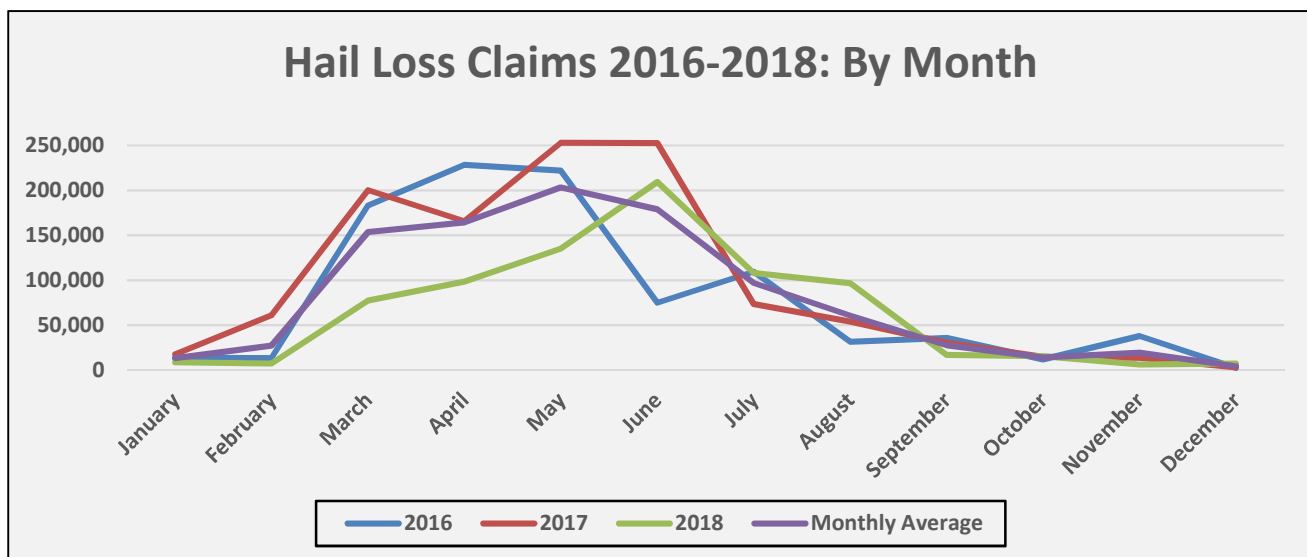
Hail Loss Claims By Loss Month

The following table shows hail loss claims, by loss month, from January 1, 2016 through December 31, 2018. The majority of hail loss claims occur in the spring and early summer months, between March and June. This is likely due to increased numbers of thunderstorms during this time period.

Hail Loss Claims 2016 - 2018: By Loss Month					
Month	2016	2017	2018	Total	Monthly Average
January	13,714	17,600	8,582	39,896	13,299
February	13,465	61,168	7,190	81,823	27,274
March	183,344	200,434	77,369	461,147	153,716
April	228,544	165,858	98,294	492,696	164,232
May	221,967	252,874	135,046	609,887	203,296
June	74,809	252,478	209,355	536,642	178,881
July	109,482	73,404	107,955	290,841	96,947
August	31,647	54,051	96,569	182,267	60,756
September	35,626	30,392	16,985	83,003	27,668
October	12,041	14,893	15,417	42,351	14,117
November	38,048	13,632	6,141	57,821	19,274
December	2,466	3,081	7,370	12,917	4,306
Total	965,153	1,139,865	786,273	2,891,291	---
Yearly Percent Change	---	18%	-31%	---	---

Note: Percentages have been rounded to the nearest whole number.

The following graph shows hail loss claims by loss month from 2016 through 2018.



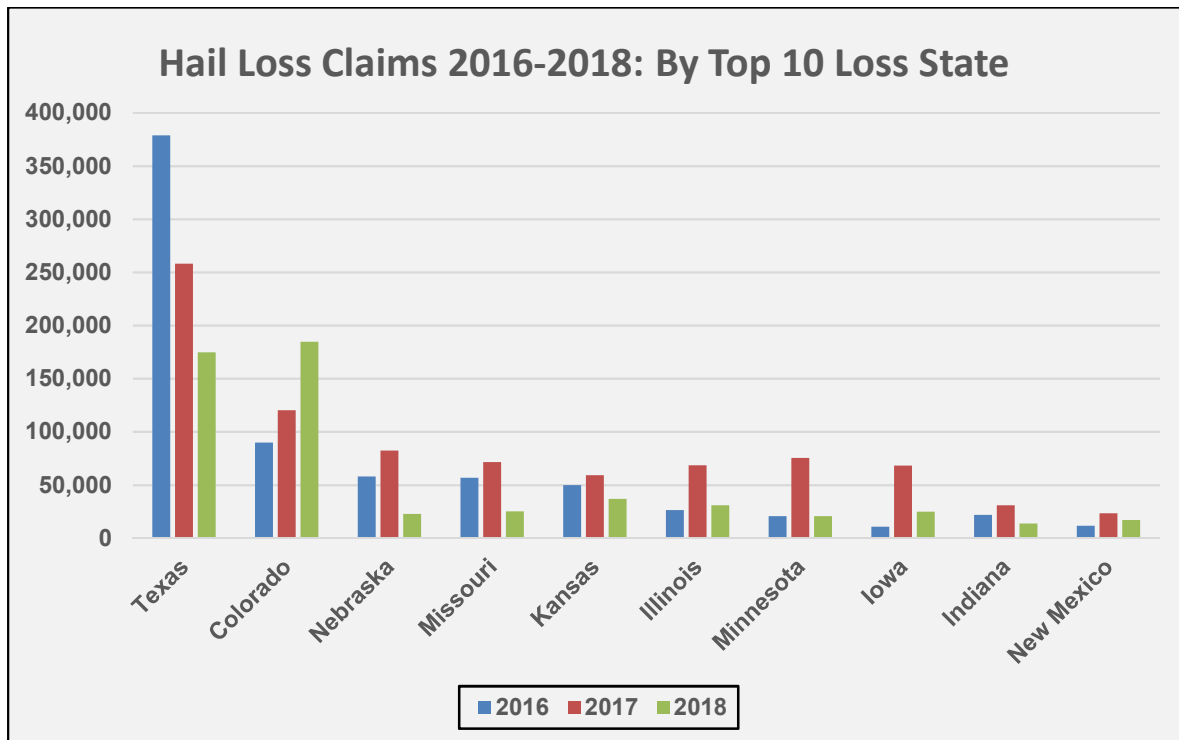
Hail Loss Claims By Loss State

The following table represents the top 10 loss states with the largest combined total of hail loss claims from January 1, 2016 through December 31, 2018. These loss states represent 74% of the total hail loss claims during this time. Texas was the top loss state with 811,381 claims, or 28% of the total claims between 2016 and 2018. This was 105% more than the state with the second highest amount of hail claims, Colorado. Although Texas had the highest amount of total claims, the total claim count decreased each year while Colorado, the second highest state in total claims, increased each year. The hail loss claim totals for all states are viewable in [Appendix 1](#).

Hail Loss Claims 2016 - 2018: Top 10 Hail Loss States					
State	2016	2017	2018	Total	State % of US Hail Claim Total
Texas	378,652	257,983	174,746	811,381	28%
Colorado	90,002	120,429	184,594	395,025	14%
Nebraska	58,142	82,338	22,856	163,336	6%
Missouri	56,736	71,439	25,228	153,403	5%
Kansas	49,864	59,327	37,015	146,206	5%
Illinois	26,502	68,480	31,002	125,984	4%
Minnesota	20,759	75,503	20,666	116,928	4%
Iowa	10,845	68,153	24,974	103,972	4%
Indiana	21,750	30,786	13,661	66,197	2%
New Mexico	11,529	23,507	17,018	52,054	2%
Yearly Top 10 State Totals	724,781	857,945	551,760	2,134,486	
Top 10: % of Yearly Total	75%	75%	70%	74%	---

Note: Percentages have been rounded to the nearest whole number.

The following graph shows hail loss claims for the top 10 hail loss states from 2016 through 2018.



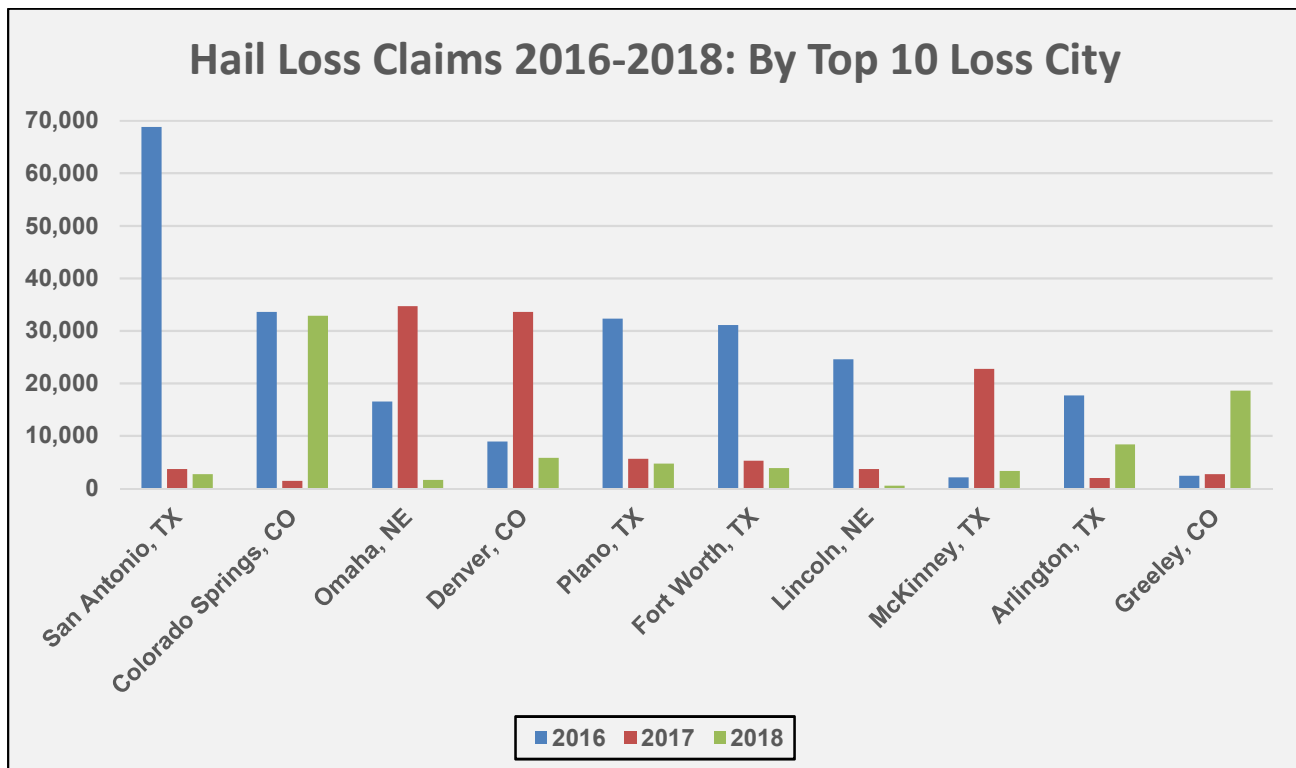
Hail Loss Claims By City

The following table represents the top 10 cities with the largest combined total of hail loss claims from January 1, 2016 through December 31, 2018. The top 10 cities represented 15% of the total hail loss claims in this timeframe. San Antonio, TX was the city with the most hail loss claims with a total of 75,186 from 2016 to 2018. Five (5) of the top 10 cities were located in Texas, the state with the most hail loss claims. Three (3) of the top 10 cities were located in Colorado the state with the second highest hail loss claims.

Hail Loss Claims 2016 - 2018: Top 10 Hail Loss Cities					
City	2016	2017	2018	Total	City % of US Hail Claim Total
San Antonio, TX	68,778	3,672	2,736	75,187	3%
Colorado Springs, CO	33,595	1,453	32,872	67,920	2%
Omaha, NE	16,525	34,689	1,589	52,803	2%
Denver, CO	8,946	33,619	5,792	48,357	2%
Plano, TX	32,289	5,630	4,740	42,659	1%
Fort Worth, TX	31,118	5,267	3,878	40,263	1%
Lincoln, NE	24,564	3,675	539	28,778	1%
McKinney, TX	2,128	22,763	3,311	28,202	1%
Arlington, TX	17,716	1,989	8,392	28,097	1%
Greeley, CO	2,423	2,709	18,633	23,765	1%
Yearly Top 10 State Totals	238,082	115,466	82,483	436,031	15%
Top 10: % of Yearly Total	25%	10%	10%	15%	---

Note: Percentages have been rounded to the nearest whole number.

The following graph shows hail loss claims for the top 10 hail loss cities from 2016 through 2018.



Hail Loss Claims By Region

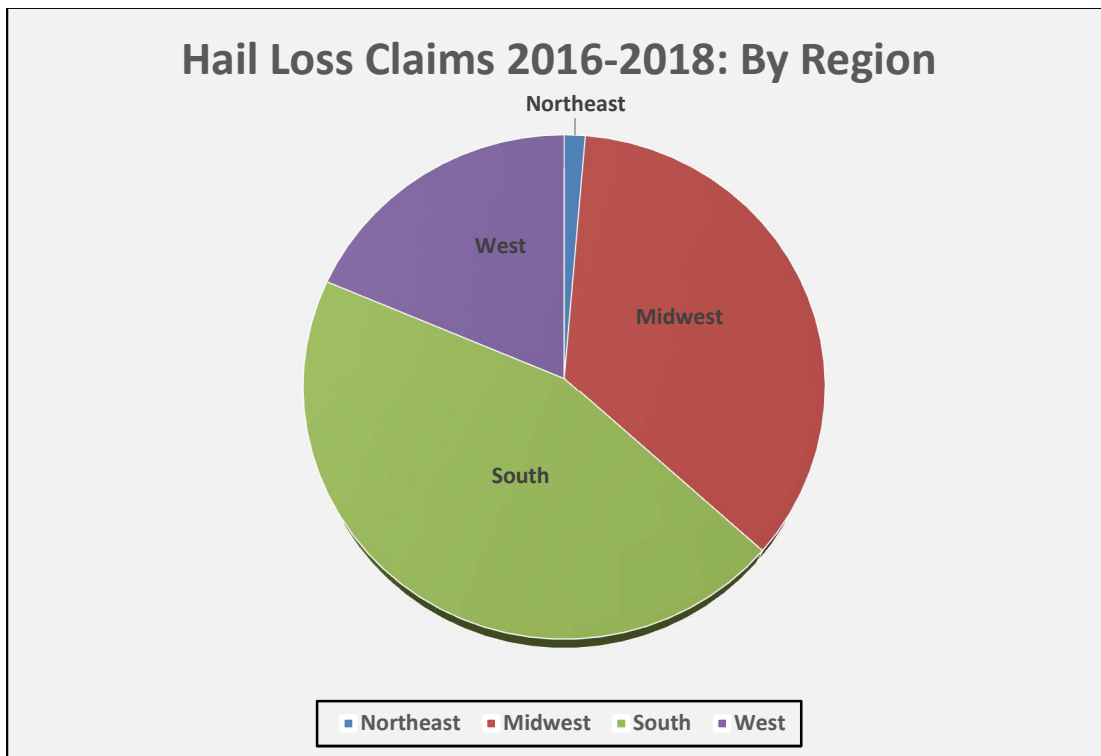
The following table shows hail loss claims, by loss region, from January 1, 2016 through December 31, 2018. In this timeframe, the majority of claims occurred in the South (45%) and Midwest (35%). The large amount of claims in the South may be attributed to Texas, which made up 63% of the claims in the South. The Northeast region had the lowest amount of claims and only attributed to 1% of the total claims in the U.S. from 2016 to 2018. Regions were determined by the United States Census Bureau at the following link:

<https://www.census.gov/geographies/reference-maps/2010/geo/2010-census-regions-and-divisions-of-the-united-states.html>.

Hail Loss Claims 2016 - 2018: By Loss Region					
US Region - States	2016	2017	2018	Total	% of Total Claims
Northeast- CT, ME, MA, NH, RI, VT, NJ, NY, PA	8,262	19,065	11,386	38,713	1%
Midwest- IL, IN, MI, OH, WI, IA, KS, MN, MO, NE, ND, SD	289,630	512,386	219,672	1,021,688	35%
South- DE, FL, GA, MD, NC, SC, VA, DC, WV, AL, KY, MS, TN, AR, LA, OK, TX	528,960	451,506	311,517	1,291,983	45%
West- AZ, CO, ID, MT, NV, NM, UT, WY, AK, CA, HI, OR, WA	138,301	156,908	243,698	538,907	19%

Note: Percentages have been rounded to the nearest whole number.

The following graph shows hail loss claims by loss region from 2016 through 2018.



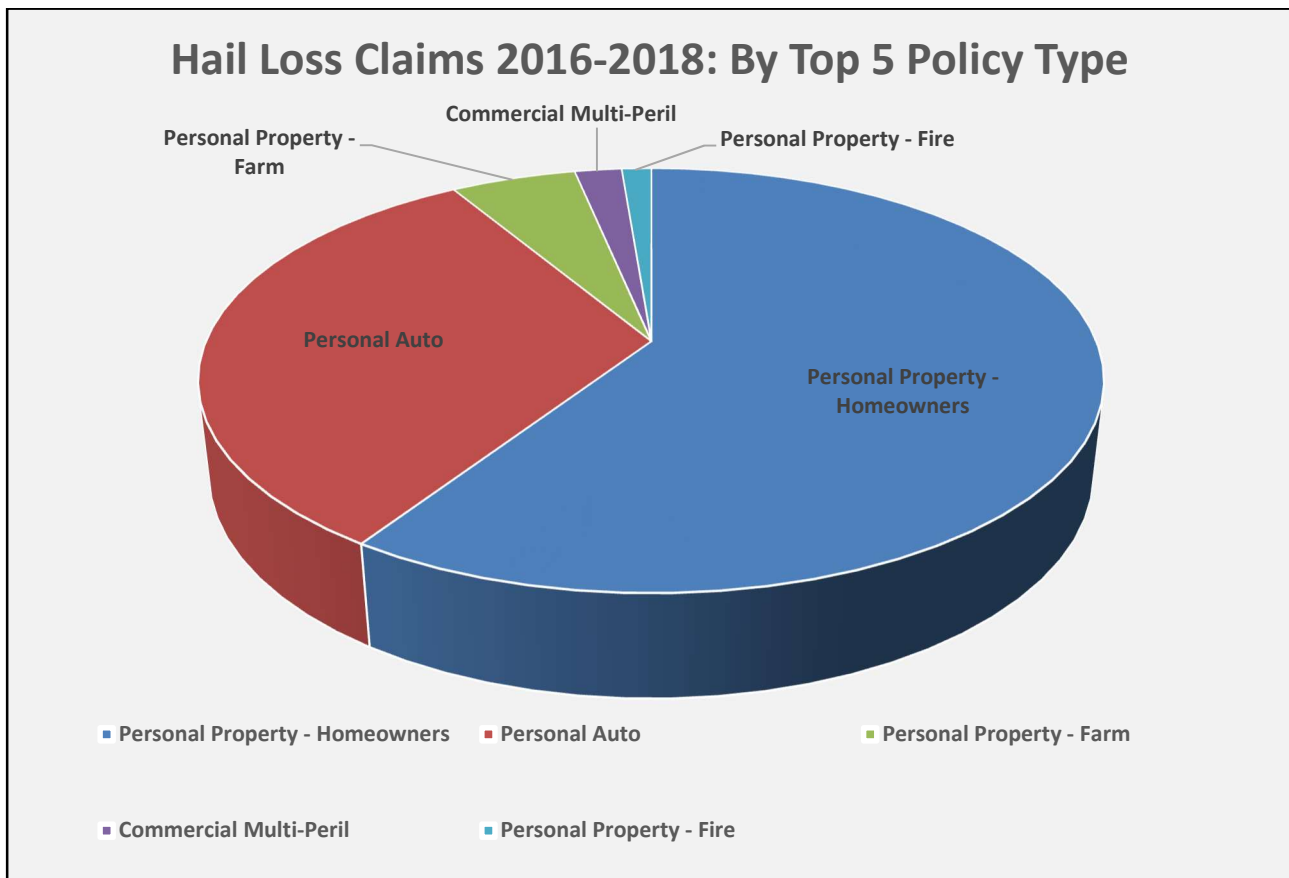
Hail Loss Claims By Policy Type

The following table represents the top 5 policy types identified in hail loss claims from January 1, 2016 through December 31, 2018. The top 5 policy types below represented 97% of the total hail loss claims during this timeframe. The policy type “Personal Property Homeowners” was the top policy type with 1,657,663, or 57% of the total number of hail loss claims between 2016 and 2018.

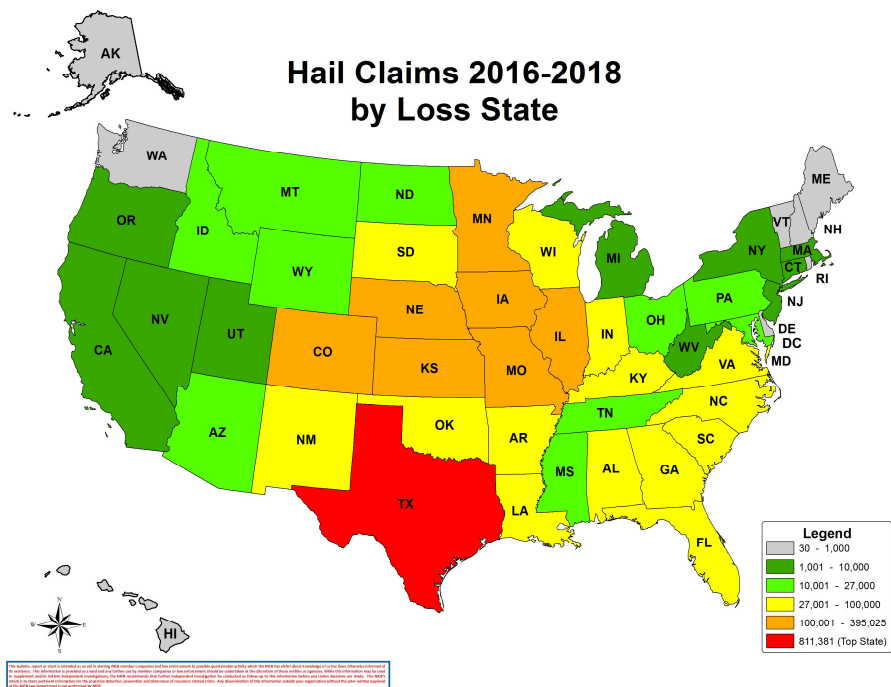
Hail Loss Claims 2016 - 2018: Top 5 Hail Loss Policy Types					
Policy Type	2016	2017	2018	Total	% of US Policy Type Total
Personal Property - Homeowners	542,641	637,186	477,836	1,657,663	57%
Personal Auto	312,942	358,163	227,395	898,500	31%
Personal Property - Farm	41,359	71,970	35,886	149,215	5%
Commercial Multi-Peril	18,267	23,492	14,169	55,928	2%
Personal Property - Fire	18,035	13,496	3,852	35,383	1%
Yearly Top 5 Policy Totals	933,244	1,104,307	759,138	2,796,689	
Top 5: % of Yearly Total	97%	97%	97%	97%	---

Note: Percentages have been rounded to the nearest whole number.

The following graph shows hail loss claims for the top 5 policy types from 2016 through 2018.



Section 2: Hail Loss Claim Map



Appendix 1: Claim Counts by State

2016-2018 Hail Claims By U.S. State				
State	2016	2017	2018	TOTAL
TX	378,652	257,983	174,746	811,381
CO	90,002	120,429	184,594	395,025
NE	58,142	82,338	22,856	163,336
MO	56,736	71,439	25,228	153,403
KS	49,864	59,327	37,015	146,206
IL	26,502	68,480	31,002	125,984
MN	20,759	75,503	20,666	116,928
IA	10,845	68,153	24,974	103,972
IN	21,750	30,786	13,661	66,197
NM	11,529	23,507	17,018	52,054
NC	20,003	22,466	9,458	51,927
WI	14,912	22,352	13,167	50,431
SD	8,325	20,799	20,697	49,821
AR	19,601	9,357	19,017	47,975
OK	15,925	23,388	8,484	47,797
VA	16,145	25,653	5,325	47,123
SC	12,384	24,616	8,634	45,634
KY	14,799	13,985	9,934	38,718
LA	10,334	11,772	15,860	37,966
GA	5,998	14,918	15,997	36,913
FL	11,013	5,319	17,235	33,567
AL	2,357	16,393	14,184	32,934
PA	4,836	14,570	6,834	26,240
MT	16,707	664	5,338	22,709
WY	8,319	4,891	9,399	22,609
OH	6,666	9,926	5,699	22,291
TN	4,045	13,336	3,325	20,706
AZ	5,106	3,409	9,471	17,986
ND	12,565	1,815	3,181	17,561
MD	5,600	7,470	2,677	15,747
MS	5,725	4,107	3,714	13,546
ID	517	330	10,305	11,152
WV	5,876	589	2,642	9,107
UT	2,440	488	6,165	9,093
MI	2,564	1,468	1,526	5,558
NY	482	3,162	1,413	5,057
CA	2,473	1,663	897	5,033
NJ	2,235	406	397	3,038
CT	73	141	2,273	2,487
OR	265	980	174	1,419
NV	711	253	122	1,086
MA	273	485	269	1,027
DE	360	86	262	708
WA	213	268	196	677
ME	190	76	38	304
NH	71	96	102	269
DC	143	68	23	234
VT	84	102	38	224
RI	18	27	22	67
AK	13	10	11	34
HI	6	16	8	30
TOTAL	965,153	1,139,865	786,273	2,891,291